hiThesis：哈尔滨工业大学学位论文模板

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摘要

该宏包为哈尔滨工业大学一校三区本、硕、博中英文毕业论文、开题和中期报告以及博后出站报告模板。

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1 模板介绍

hiThesis (**H**arbin **I**nstitute of **T**echnology LaTeX **Thesis** Template) 是为了帮助哈尔滨工业大学毕业生撰写毕业论文而编写的 LaTeX 论文模板。

本文档将尽量完整的介绍模板的使用方法，如有不清楚之处可以参考示例文档或者根据第 3.1 节说明提问，有兴趣者都可以参与完善此手册，也非常欢迎对代码的贡献。

文档记号的说明

本文采用不同字体表示不同内容。无衬线字体表示宏包名称，如 xeCJK 宏包、hithesis-book 文档类等；等宽字体表示代码或文件名，如 `\hitsetup` 命令、`abstract` 环境、TeX 文档 `thesis.tex` 等；带有尖括号的楷体（或西文斜体）表示命令参数，如 ⟨模板选项⟩、⟨*English title*⟩ 等。在使用时，参数两侧的尖括号不必输入。示例代码进行了语法高亮处理，以方便阅读。在用户手册中，带有紫色侧边线的为 LaTeX 代码，而带有红色侧边线的则为命令行代码，请注意区分。

注意： *模板的作用在于减少论文写作过程中格式调整的时间。前提是遵守模板的用法，否则即使用了 hiThesis 也难以保证输出的论文符合学校规范。*

2 安装

目前还没有将最新版的 hiThesis 上传到 CTAN，所以不要使用 `texdoc` 来打开文档。

可以在相关 QQ 群内下载编译好的模板文件和文档，但是文档还没有更新完毕，有一些内容是过时的，有一些更新的功能没有添加到文档中，等写好文档了就传 CTAN，又挖了个坑。

如果要使用开发版，需自己下载，hiThesis 相关链接是

- github：https://github.com/hithesis/hithesis
- github dev 分支：https://github.com/hithesis/hithesis/tree/dev

其中 dev 分支中的为最新开发版，有可能有还没解决的 bug （目前来看好像不太可能），如果没有额外描述，请尽量使用 dev 分支的模板

2.1 模板的组成

下表列出了 hiThesis 的主要文件及其功能介绍：

文件（夹）	功能描述
`hithesis.ins`	DocStrip 驱动文件（开发用）
`hithesis.dtx`	DocStrip 源文件（开发用）
`dtx-style.sty`	DocStrip 样式文件（开发用）
`hithesisbook.cls`	模板类文件
`hithesisbook.cfg`	模板配置文件
`hithesisart.cls`	开题和中期报告模板类文件
`hithesisart.cfg`	开题和中期报告模板配置文件
`hithesisartplus.cls`	深圳校区博士中期报告模板类文件

文件（夹）	功能描述
hithesis.bst	参考文献样式文件
hitszthesis.bst	深圳校区参考文献样式文件
hithesis.ist	索引样式文件
reference.bib	文档参考文献
example/	模板示例文件夹
hitart/	开题和中期报告文件夹
reports/	开题和中期报告文件夹
reportplus/	深圳校区博士中期报告文件夹
hitbook/	毕业论文文件夹
chinese/	中文毕业论文文件夹
english/	英文毕业论文文件夹
hithesis.sty	为示例文档加载其它宏包
Makefile	Makefile
latexmkrc	latexmk 配置文件
README.md	Readme
hithesis.pdf	用户手册（本文档）

几点说明：

- 所有的 hithesis*.cls，hithesis*.cfg 与 *.sty 都可由 hithesis.ins 和 hithesis.dtx 生成。
- 使用前阅读文档：hithesis.pdf 。
- hithesis.ins 只在当前目录生成运行时文件；如需单独使用示例，再执行 make examples（或 make_release_pkg.sh）把运行时文件复制进 examples/ 下对应的 chinese/，english/，reports/ 与 reportplus/ 文件夹。

2.2 生成模板

提示： *若使用 TEX 发行版自带的 HITHESIS 或 Github/OSChina 上发布的版本，可忽略此节，直接阅读第 2.3 节。若下载 CTAN 包或者 Github/OSChina 开发代码，请阅读本节了解生成模板文件的步骤。*

模板解压缩后生成文件夹 hithesis-vX.Y.Z 或 hithesis-vX.YZ[1]，其中包括：模板源文件（hithesis.ins 和 hithesis.dtx），参考文献样式 hithesis.bst，示例文档（main.tex，shuji.tex，hithesis.sty[2]，data/ 和 figures/ 和 ref/）。在使用之前需要先生成模板文件和配置文件（具体命令细节请参考 README.md 和 Makefile）：

```
$ cd hithesis-vX.Y.Z
# 生成全部运行时文件（.cls/.cfg/.sty/.bst/.ist/.eps）到当前目录
$ latex hithesis.ins
# 把运行时文件复制进 examples/（这样各示例目录可单独编译）
$ make examples
```

[1] vX.Y.Z 与 vX.YZ 为版本号。

[2] 可能用到的包以及一些命令定义都放在这里，以免 hithesisbook.cls 过分臃肿。

```
# 下面的命令用来生成用户手册，可以不执行
$ xelatex hithesis.dtx
$ makeindex -s gind.ist -o hithesis.ind hithesis.idx
$ makeindex -s gglo.ist -o hithesis.gls hithesis.glo
$ xelatex hithesis.dtx
$ xelatex hithesis.dtx  % 生成说明文档 hithesis.pdf
```

开发者和维护者还可以用 l3build 统一管理构建与发布：

```
$ l3build unpack    # 运行 hithesis.ins，解包到 build/unpacked
$ l3build doc       # 用 XeLaTeX 编译用户手册 hithesis.pdf
$ l3build ctan      # 生成 CTAN 归档 hithesis-ctan.zip
$ l3build upload    # 校验 / 上传到 CTAN
```

2.3 生成论文

本节介绍几种常见的生成论文的方法。用户可根据自己的情况选择。

2.3.1 XeLaTeX

很多用户对 LaTeX 命令执行的次数不太清楚。一个基本的原则是多次运行 LaTeX 命令直至不再出现警告。下面给出生成示例文档的详细过程（# 开头的行为注释），首先来看推荐的 xelatex 方式：

```
# 1. 发现里面的引用关系，文件后缀 .tex 可以省略
$ xelatex main

# 2. 编译参考文件源文件，生成 bbl 文件
$ bibtex main

# 3. 下面解决引用
$ xelatex main
$ xelatex main   # 如果不需要生成索引此时生成完整的 pdf 文件
$ splitindex main -- -s hithesis.ist  # 自动生成索引
$ xelatex main.tex
```

2.3.2 latexmk

latexmk 命令支持全自动生成 LaTeX 编写的文档，并且支持使用不同的工具链来进行生成，它会自动运行多次工具直到交叉引用都被解决。下面给出了一个用 latexmk 调用 xelatex 生成最终文档的示例：

```
# 一句话就够了！
$ latexmk -xelatex main
```

2.3.3 make

提示： 若要使用 *make* 编译，需自行下载模板。因为 TeX 发行版中的 *Makefile* 不在当前目录。

上面的方法虽然不复杂，但是每次都输入还是非常罗嗦，所以 hiThesis 提供了一个 Makefile：

```
$ make clean
$ make cls        # 生成全部运行时文件（.cls/.cfg/.sty/.bst/.ist/.eps）
$ make examples   # 把运行时文件复制进 examples/
$ make doc        # 生成说明文档 hithesis.pdf
$ make thesis     # 生成示例文档 main.pdf
```

hiThesis 的 Makefile 默认用 latexmk 调用 xelatex 编译，此外还支持直接用 xelatex 编译。如有需要可修改 Makefile 开头的参数或通过命令行传递参数（请参看 README.md），进一步还可以修改 latexmkrc 进行定制。

2.4 升级

hiThesis 升级非常简单，可以通过 TeX 发行版的包管理工具自动更新发行版，也可以下载最新的开发版，将 hithesis.ins，hithesis.dtx 拷贝至工作目录覆盖相应的文件，然后运行：

```
$ latex hithesis.ins
```

生成新的类文件和配置文件即可。也可以直接拷贝 hithesisbook.cls,hithesisbook.cfg 和 hithesis.ist，免去上面命令的执行。

3 使用说明

本手册假定用户已经能处理一般的 LaTeX 文档，并对 BibTeX 有一定了解。如果从来没有接触过 TeX 和 LaTeX，建议先学习相关的基础知识。

3.1 关于提问

按照优先级推荐提问的位置如下（三个 QQ 群不分先后）：

- Github Issues
- hithesis 讨论区：259959600 （人满）
- 窝工山 hithesis 派：851792460 （人满）
- HiThesis 分盟：704864357

3.2 示例文件

模板核心文件有三个：hithesisbook.cls，hithesisbook.cfg 和 hithesis.bst，但是如果没有示例文档用户会发现很难下手。所以推荐新用户从模板自带的示例文档入手，里面包括了论文写作用到的所有命令及其使用方法，只需要用自己的内容进行相应替换就可以。对于不清楚的命令可以查阅本手册。下面的例子描述了模板中章节的组织形式，来自于示例文档，具体内容可以参考模板附带的 main.tex。

```
% !Mode:: "TeX:UTF-8"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%          ,
%      /\^/`\
```

```
%     | \/   |                CONGRATULATIONS!
%     | |    |             SPRING IS IN THE AIR!
%     \ \    /                                                  _ _
%      '\\//'                                                 _{ ' }_
%        ||                   hithesis v3                    { `.!.` }
%        ||                                                  ',_/Y\_,'
%        ||  ,                 dustincys                       {_,_}
%    |\  ||  |\           Email: yanshuoc@gmail.com              |
%    | | ||  | |             https://yanshuo.site              (\|  /)
%    | | || / /                                                 \| //
%    \ \||/ /       https://github.com/dustincys/hithesis         |//
%      `\\//`   \\    \./    \\ /     //     \\./   \\    //    \\ |/ /
%     ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\documentclass[fontset=fandol,type=master,campus=shenzhen,language=english]{hithesisbook}
% No space between options
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Mandatory option
% type=doctor|master|bachelor|postdoc
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% Optional option (with default value)
% campus=shenzhen|weihai|harbin
%   Default:harbin
% glue=true|false
%   Line spacing: true means [3,4]mm, false means 3mm。
% tocfour=true|false
%   TOC level four or three
% fontset=windows|mac|ubuntu|fandol|adobe|founder
%   Normally, TeX could detect your OS font automatically. If not, explicitly
%   set your OS here, or, use open source font set
% newgeometry=one|two
%   Geometry of text area in the page. `two' is good for now.
% openright=true|false
%   Force the Chapter page number to be even or not.
% library=true|false
%   Set this option will remove all blank page in your thesis, Library preferred.
% newtxmath=true|false
%   Math font used in the thesis
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\usepackage{hithesis}
\graphicspath{{figures/}}
\begin{document}

\frontmatter
\input{front/cover}
\makecover
\include{front/acknowledgements}
\tableofcontents

\mainmatter
```

```
\include{body/eng_regu}

\backmatter
\include{back/conclusion}
\bibliographystyle{hithesis}
\bibliography{reference}
\include{back/publications}
\authorization
%\authorization[scanversion.pdf]
\end{document}

% Local Variables:
% TeX-engine: xetex
% End:
```

```
% !Mode:: "TeX:UTF-8"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%          ,
%      /\^/`\
%     | \/   |                CONGRATULATIONS!
%     | |    |             SPRING IS IN THE AIR!
%     \ \    /                                                _ _
%      '\\//'                                               _{ ' }_
%        ||                     hithesis v3                {  `.!.` }
%        ||                                                ',_/Y\_,'
%        ||  ,                   dustincys                   {_,_}
%    |\  ||  |\          Email: yanshuoc@gmail.com             |
%    | | ||  | |            https://yanshuo.site             (\|  /)
%    | | || / /                                               \| //
%    \ \||/ /       https://github.com/dustincys/hithesis      |//
%      `\\//`   \\   \./    \\ /     //    \\./   \\   //   \\ |/ /
%     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\documentclass[fontset=fandol,type=doctor,campus=harbin]{hithesisbook}
% 此处选项中不要有空格
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 必填选项
% type=doctor|master|bachelor|postdoc
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 选填选项（选填选项的缺省值已经尽可能满足了大多数需求，除非明确知道自己有什么
% 需求）
% campus=shenzhen|weihai|harbin
%   含义：校区选项，默认harbin
% glue=true|false
%   含义：由于我工规范中要求字体行距在一个闭区间内，这个选项为true表示tex自
%   动选择，为false表示区间内一个最接近版心要求行数的要求的默认值，缺省值为
%   false。
% etitleauto=true|false
%   含义：英文内封标题字号是否随标题长度自动调整。默认false（固定为二号）。
% tocfour=true|false
```

```
%   含义：是否添加第四级目录，只对本科文科个别要求四级目录有效，缺省值为
%   false
% fontset=windows|mac|ubuntu|fandol|adobe
%   含义：设置字体，若不指定会自动识别系统，然后设置字体。fandol是开源字体，自行
%   下载安装后设置使用。windows是中易字库，窝工默认常用字体，绝对没毛病。mac和
%   ubuntu 默认分别是华文和思源字库，理论上用什么字库都行。后两种字库的安装方法
%   到谷歌上百度一下什么都有了。Linux非ubuntu发行版、非x86架构机器等如何运行可到
%   github issue上讨论。
% tocblank=true|false
%   含义：目录中第一章之前，是否加一行空白。缺省值为true。
% chapterhang=true|false
%   含义：目录的章标题是否悬挂居中，规范中要求章标题少于15字，所以这个选项
%   有无没什么用，除了特殊需求。缺省值为true。
% fulltime=true|false
%   含义：是否全日制，缺省值为true。非全日制如同等学力等，要在cover中设置类
%   型，封面中不同格式
% subtitle=true|false
%   含义：论文题目是否含有副标题，缺省值为false，如果有要在cover中设置副标
%   题内容，封面中显示。
% newgeometry=one|two|no
%   含义：规范中的自相矛盾之处，版芯是否包含页眉页脚，旧方法是按照包含页眉
%   页脚来设置。该选项是多选选项，如果设置为no，则版新为旧模板的版芯设置方法，
%   如果设置该选项one或two，分别对应两种页眉页码对应版芯线的相对位置。第一种
%   是严格按照规范要求，难看。第二种微调了页眉页码位置，好一点。默认two。
% debug=true|false
%   含义：是否显示版芯框和行号，用来调试。默认否。
% openright=true|false
%   含义：博士论文是否要求章节首页必须在奇数页，此选项不在规范要求中，按个
%   人喜好自行决定。 默认否。注意，窝工的默认情况是打印版博士论文要求右翻页
%   ，电子版要求非右翻页且无空白页。如果想DIY（或身不由己DIY）在什么地方右
%   翻页，将这个选项设置为false，然后在目标位置添加`\cleardoublepage`命令即
%   可。
% library=true|false
%   含义：是否为提交到图书馆的电子版。默认否。注意：如果设置成true，那么
%   openright选项将被强制转换为false。
% capcenterlast=true|false
%   含义：图题、表题最后一行是否居中对齐（我工规范要求居中，但不要求居中对
%   齐），此选项不在规范要求中，按个人喜好自行决定。默认否。
% subcapcenterlast=true|false
%   含义：子图图题最后一行是否居中对齐（我工规范要求居中，但不要求居中对齐
%   ），此选项不在规范要求中，按个人喜好自行决定。默认否。
% absupper=true|false
%   含义：中文目录中的英文摘要在中文目录中的大小写样式歧义，在规范中要求首
%   字母大写，在work样例中是全大写。该选项控制是否全大写。默认否。
% bsmainpagenumberline=true|false
%   含义：由于本科生论文官方模板的页码和页眉格式混乱，提供这个选项自定义设
%   置是否在正文中显示页码横线，默认显示。
% bsfrontpagenumberline=true|false
%   含义：由于本科生论文官方模板的页码和页眉格式混乱，提供这个选项自定义设
%   置是否在前文中显示页码横线，默认不显示。哈尔滨本科模板默认显示。
```

```
% bsheadrule=true|false
%   含义：由于本科生论文官方模板的页码和页眉格式混乱，提供这个选项自定义设
%   置是否显示页眉横线，默认显示。
% splitbibitem=true|false
%   含义：参考文献每一个条目内能不能断页，应广大刀客要求添加。默认否。
% newtxmath=true|false
%   含义：数学字体是否使用新罗马。默认是。
% chapterbold=true|false
%   含义：本科生章标题在目录和正文中是否加粗
% engtoc=true|false
%   含义：非博士生需要添加英文目录的，手动添加，如果是博士，此开关无效
% zijv=word|regu
%   含义：字距设置为规范规定33个字还是word中34个字。默认regu。
% citetwo=comma|endash
%   含义：相邻两个参考文献中的连接符是由逗号：[1,2]还是短线[1-2]。默认endash
% bibauthorupper=full|preserve
%   含义：参考文献列表中作者名是否转为全大写，full表示全大写，preserve
%   表示维持.bib中的大小写。默认preserve。注意本选项只管大小写，并且
%   只在使用\bibliographystyle{hithesis}或者{hitszthesis}时生效。
% bibmaxauthor=<自然数>
%   含义：参考文献列表中每条文献显示的最大作者数量，如有更多作者会自动添加
%   "et al."或“等”（如果本条文献language={zh}或"zh"）。0为全部显示。默认3.
%   该选项只在使用\bibliographystyle{hithesis}或者{hitszthesis}时生效。
% biblabelalign=left|right
%   含义：参考文献列表中的标号是左对齐(left)还是右对齐(right)。默认right.
%   在加入此选项前是左对齐，但这使文献达到100篇时第1-9篇文献标号后空格过大。
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\usepackage{hithesis}

\graphicspath{{figures/}}

\begin{document}
\frontmatter
\input{front/cover} % 封面
\makecover
\input{front/denotation}%物理量名称表,符合规范为主，有要求添加
\tableofcontents %目录
\mainmatter
\include{body/regu}
\include{body/introduction}
\include{body/recruit}
\backmatter
\include{back/conclusion}   % 结论
% \bibliographystyle{gbt7714-numerical}
% \bibliographystyle{gbt7714-numerical-quanjiao} % 全角标点的国标要求的参考文献样式，哈尔
滨硕博用这个
% \bibliographystyle{hitszthesis} % 深圳校区的同学请使用 hitszthesis 文献样式
\bibliographystyle{hithesis}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%-- 注意：以下本硕博、博后书序不一致 --%
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 本科书序（哈尔滨、深圳校区）
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% \bibliography{reference} % 参考文献
% \authorization %授权
% % \authorization[scan.pdf] %添加扫描页的命令，与上互斥
% \include{back/acknowledgements} %致谢
% \begin{appendix}%附录
% \input{back/appendix01}%本科生翻译论文
% \end{appendix}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 本科书序（威海校区）
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% \authorization %授权
% % \authorization[scan.pdf] %添加扫描页的命令，与上互斥
% \bibliography{reference} % 参考文献
% \include{back/acknowledgements} %致谢
% \begin{appendix}%附录
% \input{back/appendix01}%本科生翻译论文
% \end{appendix}
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 硕博书序
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\bibliography{reference} % 参考文献
\begin{appendix}%附录
\input{back/appA.tex}
\end{appendix}
\include{back/publications}    % 所发文章
% 博士答辩决议表（以下三种用法择一）:
\resolution               % 电子版
%\resolution[scan.pdf]    % 使用扫描件，不添加页码（扫描件中已有页码时使用）
%\resolution*[scan.pdf]   % 使用扫描件，自动添加页码（扫描件中无页码时使用）
\include{back/ceindex}    % 索引，根据自己的情况添加或者不添加，选择自动添加或者手工添加。
% 授权（以下三种用法择一）:
\authorization             % 电子版
%\authorization[scan.pdf]  % 使用扫描件，不添加页码（扫描件中已有页码时使用）
%\authorization*[scan.pdf] % 使用扫描件，自动添加页码（扫描件中无页码时使用）
\include{back/acknowledgements} %致谢
\include{back/resume}          % 博士学位论文有个人简介
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 博后书序
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% \bibliography{reference} % 参考文献
% \include{back/acknowledgements} %致谢
% \include{back/doctorpublications}    % 所发文章
% \include{back/publications}    % 所发文章
% \include{back/resume}          % 博士学位论文有个人简介
% \include{back/correspondingaddr} %通信地址
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\end{document}
```

```latex
% Local Variables:
% TeX-engine: xetex
% End:
```

```latex
% !Mode:: "TeX:UTF-8"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%          ,
%      /\^/`\
%     | \/   |                CONGRATULATIONS!
%     | |    |             SPRING IS IN THE AIR!
%     \ \    /                                                _ _
%      '\\//'                                               _{ ' }_
%        ||                     hithesis v3                {  `.!.` }
%        ||                                                ',_/Y\_,'
%        ||  ,                   dustincys                   {_,_}
%    |\  ||  |\          Email: yanshuoc@gmail.com             |
%    | | ||  | |            https://yanshuo.site             (\|  /)
%    | | || / /                                               \| //
%    \ \||/ /       https://github.com/dustincys/hithesis      |//
%      `\\//`   \\   \./    \\ /     //    \\./   \\   //   \\ |/ /
%     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\documentclass[fontset=fandol,toc=true,type=doctor,stage=opening,campus=shenzhen]{
hithesisart}
% 此处选项中不要有空格
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 必填选项
% type=doctor|master|bachelor
% stage=opening|midterm
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% 选填选项（选填选项的缺省值已经尽可能满足了大多数需求，除非明确知道自己有什么
% 需求）
% campus=shenzhen|weihai|harbin
%   含义：校区选项，默认harbin
% fontset=windows|mac|ubuntu|fandol
%   含义：前三个对应各自系统，fandol是开源字体。
% toc=true|false
%   含义：是否显示目录，默认true
% newtxmath=true|false
%    含义：是否使用 times 风格数学字体，默认true
% print=true|false
%   含义：是否在封面后增加一个空白页用于打印，默认false
% bibauthorupper=full|preserve
%   含义：参考文献列表中作者名是否转为全大写，full表示全大写，preserve
%   表示维持.bib中的大小写。默认preserve。注意本选项只管大小写，并且
%   只在使用\bibliographystyle{hithesis}或者{hitszthesis}时生效。
% bibmaxauthor=<自然数>
%   含义：参考文献列表中每条文献显示的最大作者数量，如有更多作者会自动添加
%   "et al."或“等”（如果本条文献language={zh}或"zh"）。 0为全部显示。默认3.
%   该选项只在使用\bibliographystyle{hithesis}或者{hitszthesis}时生效。
```

```
% biblabelalign=left|right
%   含义：参考文献列表中的标号是左对齐(left)还是右对齐(right)。默认right.
%   在加入此选项前是左对齐，但这使文献达到100篇时第1-9篇文献标号后空格过大。
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%


\graphicspath{{figures/}}


\begin{document}

\input{front/coverart.tex}
\makecover

% 深圳博士开题报告 -----------------------------------------------

\input{body/report_shenzhen_doctor_opening}

% 威海校区本科生开题报告结构 ---------------------------------------
% \input{body/report_weihai_bachelor_opening}
% \makebackcover
% -------------------------------------------------------------

% 威海校区本科生中期报告结构 ---------------------------------------
% \input{body/report_weihai_bachelor_midterm}
% \makebackcover
% -------------------------------------------------------------

% 哈尔滨校区本科生开题报告结构 --------------------------------------
% \input{body/report_harbin_bachelor_opening}
% -------------------------------------------------------------

\end{document}

% Local Variables:
% TeX-engine: xetex
% End:
```

```
% !Mode:: "TeX:UTF-8"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%          ,
%      /\^/`\
%     | \/   |                CONGRATULATIONS!
%     | |    |             SPRING IS IN THE AIR!
%     \ \    /                                             _ _
%      '\\//'                                            _{ ' }_
%        ||                     hithesis v3             { `.!.` }
%        ||                                             ',_/Y\_,'
%        ||  ,                   dustincys                {_,_}
%    |\  ||  |\           Email: yanshuoc@gmail.com         |
```

```
%    | | ||  | |            https://yanshuo.site             (\|  /)
%    | | || / /                                               \| //
%    \ \||/ /       https://github.com/dustincys/hithesis      |//
%      `\\//`   \\   \./    \\ /     //    \\./   \\   //   \\ |/ /
%     ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\documentclass[fontset=fandol,type=doctor,stage=midterm,campus=shenzhen]{hithesisartplus}

\graphicspath{{figures/}}

\begin{document}

\input{front/coverart.tex}
\makecover

\input{body/report_shenzhen_doctor_midterm}

\end{document}

% Local Variables:
% TeX-engine: xetex
% End:
```

3.3 论文选项

论文选项，就是在 `main.tex` 文件的开头，非注释的第一行的方括号中填写的选项，示例见上节。各个选项的含义说明已经在上节中说明，所以这里就不重复了。

3.4 中文字体

正确配置中文字体是使用模板的第一步。模板调用 CTEX 宏包，只提供基于 xeCJK 包，使用 XƎLATEX 编译的方式。关于如何使用字体命令、字号等等，属于模板格式范畴，在实现细节中讨论。关于中文字体安装、配置的所有问题不在本模板讨论范围。

3.5 前文

前文内容是正文之前，含封面、摘要、目录、符号表。封面信息提供两种配置方法：一是通过统一设置命令 `\hitsetup` 通过 *key=value* 形式完成；二是每个信息利用命令独立设置，其中命令的名字跟 *key* 相同。两种方式可以交叉使用，并按顺序执行（即后来的设置会覆盖前面的）。以 c 开头的命令跟中文相关，e 开头则为对应的英文。

`\hitsetup` `\hitsetup` 用法与常见 *key=value* 命令相同，如下：

```
\hitsetup{
  key1 = value1,
  key2 = {a value, with comma},
}
% 可以多次调用
\hitsetup{
  key3 = value3,
```

```
  key1 = value11, % 覆盖 value1
}
```

注意： *\hitsetup 使用 kvoptions 机制，所以配置项之间不能有空行，否则会报错。*

大多数命令的使用方法都是：\command{⟨*arg*⟩}，例外者将具体指出。这些命令都在示例文档的 front/cover.tex 中。

3.5.1 密级

statesecrets
natclassifiedindex
intclassifiedindex

定义秘密级别和国内国际索引号。

```
\hitsetup{
statesecrets={公开},
natclassifiedindex={TM301.2},
intclassifiedindex={62-5},
}
```

3.5.2 论文标题

论文标题
ctitle
etitle
ctitleone
ctitletwo
csubtitle
esubtitle

中英文标题。如果有副标题，需要在封面选项中设置 subtitle=true，否则不显示副标题。

```
\hitsetup{
  ctitlecover={封面中文题目可断行},
  ctitle={论文中文题目},
  etitle={Thesis English Title},
  csubtitle={论文中文副题目（如果有）},
  esubtitle={Thesis English Sub-Title (if necessary)},
  ctitleone={本科生论文中文题目上部分},
  ctitletwo={本科生论文中文题目下部分},
}
```

3.5.3 作者姓名

作者姓名
cauthor
eauthor

作者姓名。

```
\hitsetup{
  cauthor={中文姓名},
  eauthor={Name in Pinyin}
}
```

3.5.4 申请学位名称

学科名称
cxueke
exueke

按照入学的培养计划中学科自行填写，具体学科名称不是本文档范畴。

```
\hitsetup{
  cxueke={工学},
  exueke={Engineering},
}
```

3.5.5 院系名称

院系名称

caffil
eaffil

院系名称，同上，按照入学的培养计划中学科自行填写，具体院系名称不是本文档范畴。

```
\hitsetup{
 caffil={机电工程学院},
 eaffil={\emultiline[t]{School of Mechatronics Engineering \\ Mechatronics Engineering}},
}
```

注意：个别学院英文名过长，使用以上方法自行换行。

3.5.6 专业名称

专业名称

csubject
esubject

专业名称，同上，按照入学的培养计划中学科自行填写，具体名称不是本文档范畴。

```
\hitsetup{
 csubject={机械制造及其自动化},
 esubject={Computer Science and Technology},
}
```

3.5.7 导师

导师

csupervisor
esupervisor

直接导师。

```
\hitsetup{
  csupervisor={导师~教授},
  esupervisor={Supervisor}
}
```

副导师

cassosupervisor
eassosupervisor

副指导教师。

```
\hitsetup{
  cassosupervisor={副导师~副教授},
  eassosupervisor={2nd Boss}
}
```

联合导师

ccosupervisor
ecosupervisor

硕士生联合指导教师，博士生联合导师。

```
\hitsetup{
  ccosupervisor={联合导师~教授},
  ecosupervisor={3rd Boss}
}
```

3.5.8 成文日期

日期

cdate
edate

默认为当前时间，也可以自己指定。

```
\hitsetup{
  cdate={中文日期},
  edate={English Date},
}
```

3.5.9 学生类型

学生类型

cstudenttype

estudenttype

非全日制教育申请学位者（同等学力人员）、（工程硕士）、（工商管理硕士）、（高级管理人员工商管理硕士）、（公共管理硕士）、（中职教师）、（高校教师）等，具体要求按照入学的培养计划中学科自行填写，具体名称不是本文档范畴。

```
\hitsetup{
  cstudenttype={同等学力人员},
  estudenttype={Master of Art},
}
```

3.5.10 学号

学号

cstudentid

学号，具体要求按照入学的培养计划中学科自行填写。

```
\hitsetup{
  cstudentid={9527},
}
```

3.5.11 摘要

摘要正文

cabstract (*env.*)

eabstract (*env.*)

说明： 摘要正文只能用环境命令的形式，不支持 *\hitsetup*。

```
\begin{cabstract}
 摘要请写在这里...
\end{cabstract}

\begin{eabstract}
 Here comes the abstract in English...
\end{eabstract}
```

关键词

ckeywords

ekeywords

关键词用英文逗号分割写入相应的命令中，模板会解析各关键词并生成符合不同论文格式要求的关键词格式。

```
\hitsetup{
  ckeywords={关键词 1, 关键词 2},
  ekeywords={keyword 1, keyword 2}
}
```

3.5.12 符号对照表

denotation (*env.*)

主要符号表环境，单独在文件 `front/denotation.tex` 中。跟据《哈尔滨工业大学研究生学位论文撰写规范》示例中要求，我工符号表是 table 环境，示例文件如下，由于我工要求博士论文图表标题是双语，所以任何对单个标题的全局格式调整都会影响到双语标题，所以这里使用 `\vspace`，具体见实现细节中的描述。

```
\begin{denotation}
\begin{table}[h]%此处最好是h
\caption{国际单位制中具有专门名称的导出单位}
\vspace{0.5em}\centering\wuhao
\begin{tabular}{ccccc}
\toprule
```

```
量的名称&单位名称&单位符号&其它表示实例\\
\midrule
频率&赫[兹]&Hz&s-1\\
\bottomrule
\end{tabular}
\end{table}
\end{denotation}
```

3.5.13 目录

目录不需要用户干预，自动生成，具体命令已经写在 main.tex 中。

3.6 正文

3.6.1 图和表

哈尔滨工业大学 博士毕业论文要求使用中英双语图题、表题，这增加了维护难度。因为现有唯一的方法是在已有的图题或表题的基础上再添加一行英语图题或表题。两个题之间的距离具体多少不在《哈尔滨工业大学研究生学位论文撰写规范》中要求。目前的方法是用户手动调节该距离。关于图题《哈尔滨工业大学研究生学位论文撰写规范》和《哈尔滨工业大学本科生毕业论文撰写规范》只规定了居中，并没有规定居中对齐。然而评审老师很多喜欢居中且居中对齐。模板默认选项是居中且居中对齐，如果不喜欢居中对齐，那么需要在 main.tex的文档类选项中设置选项 capcenterlast=false。详细方法见前文的介绍。《哈尔滨工业大学研究生学位论文撰写规范》,《哈尔滨工业大学本科生毕业论文撰写规范》 规定："每个图均应有图题（由图序和图名组成），图题不宜有标点符号，图名在图序之后空 1 个半角字符排写。图序按章编排，如第 1 章第一个插图的图号为 "图 1-1"。图题置于图下，硕士论文只用中文，博士论文用中、英两种文字，居中书写，中文在上，要求中文用宋体 5 号字，英文用 Times New Roman 5 号字。有图注或其它说明时应置于图题之上。引用图应注明出处，在图题右上角加引用文献号。图中若有分图时，分图题置于分图之下或图题之下，可以只用中文书写，分图号用 a)、b) 等表示。图中各部分说明应采用中文（引用的外文图除外）或数字符号，各项文字说明置于图题之上（有分图时，置于分图题之上）。图中文字用宋体、Times New Roman 字体，字号尽量采用 5 号字（当字数较多时可用小 5 号字，以清晰表达为原则，但在一个插图内字号要统一）。同一图内使用文字应统一。图表中物理量、符号用斜体。" 单双语图题的方法如下，注释中说明。

```
\begin{figure}[htpb]
\centering
\includegraphics[width = 0.4\textwidth]{hithesis-golfer}
\bicaption[golfer1]{}{注意图中文字尽量用五号字
}{Fig.$\!$}{The person playing golf}
\end{figure}
```

单张单图题的格式如下，

```
\begin{figure}[h]
\centering
\includegraphics[width = 0.4\textwidth]{hithesis-golfer}
\caption{注意图中文字字号尽量用五号字}
\end{figure}
```

并排图例。

```
\begin{figure}[htbp]
\centering
\begin{minipage}{0.4\textwidth}
\centering
\includegraphics[width=\textwidth]{hithesis-golfer}
\bicaption[golfer2]{}{打高尔夫球的人}{Fig.$\!$}{The person playing golf}
\end{minipage}
\begin{minipage}{0.4\textwidth}
\centering
\includegraphics[width=\textwidth]{hithesis-golfer}
\bicaption[golfer3]{}{打高尔夫球的人}{Fig.$\!$}{The person playing golf}
\end{minipage}
\end{figure}
```

子图图例。

```
\begin{figure}[htbp]
\centering
\subfigure{\label{golfer41}}\addtocounter{subfigure}{-2}
\subfigure[The person playing golf]{\subfigure[打高尔夫球的人~1]{\includegraphics[width
=0.4\textwidth]{hithesis-golfer}}}
\subfigure{\label{golfer42}}\addtocounter{subfigure}{-2}
\subfigure[The person playing golf]{\subfigure[打高尔夫球的人~2]{\includegraphics[width
=0.4\textwidth]{hithesis-golfer}}}
\bicaption[golfer4]{}{打高尔夫球的人}{Fig.$\!$}{The person playing golf}
\end{figure}
```

表格示例，表格中的字体是可以自行调整的。

```
\begin{table}[htbp]
\bicaption[table1]{}{符合研究生院绘图规范的表格}{Table$\!$}{Table in agreement of the
standard from graduate school}
\vspace{0.5em}\centering\wuhao
\begin{tabular}{ccccc}
\toprule
$D$(in) & $P_u$(lbs) & $u_u$(in) & $\beta$ & $G_f$(psi.in)\\
\midrule
 5 & 269.8 & 0.000674 & 1.79 & 0.04089\\
10 & 421.0 & 0.001035 & 3.59 & 0.04089\\
20 & 640.2 & 0.001565 & 7.18 & 0.04089\\
\bottomrule
\end{tabular}
\end{table}
```

因为长表格不是浮动体，不会自动调整位置、也不会自动调整字体大小，一切都要手动设置。特别繁琐。

```
\ltfontsize{\dawu[1.667]} %设置表格内字体行间距
\dawu[1.667]\begin{longtable}{ccc} % 注意此处设置的是表格线距离
\longbionenumcaption{}{{\wuhao 中国省级行政单位一览 %此处要添加字体设置
}\label{table2}}{Table$\!$}{}{{\wuhao Overview of the provincial administrative
```

```
unit of China}}{-0.5em}{3.15bp}\\ %注意后两个参数分别是中英标题间距、标题和表格的间距。
%\caption{\wuhao 中国省级行政单位一览}\\[1em] %注意此处是标题和表格间距，这行
%是单语标题
\toprule 名称 & 简称 & 省会或首府  \\ \midrule
\endfirsthead
\multicolumn{3}{r}{表~\thetable（续表）}\vspace{0.5em}\\
\toprule 名称 & 简称 & 省会或首府  \\ \midrule
\endhead
\bottomrule
\endfoot
北京市 & 京 & 北京\\
天津市 & 津 & 天津\\
河北省 & 冀 & 石家庄市\\
山西省 & 晋 & 太原市\\
内蒙古自治区 & 蒙 & 呼和浩特市\\
辽宁省 & 辽 & 沈阳市\\
吉林省 & 吉 & 长春市\\
黑龙江省 & 黑 & 哈尔滨市\\
上海市 & 沪/申 & 上海\\
江苏省 & 苏 & 南京市\\
浙江省 & 浙 & 杭州市\\
安徽省 & 皖 & 合肥市\\
福建省 & 闽 & 福州市\\
江西省 & 赣 & 南昌市\\
山东省 & 鲁 & 济南市\\
河南省 & 豫 & 郑州市\\
湖北省 & 鄂 & 武汉市\\
湖南省 & 湘 & 长沙市\\
广东省 & 粤 & 广州市\\
广西壮族自治区 & 桂 & 南宁市\\
海南省 & 琼 & 海口市\\
重庆市 & 渝 & 重庆\\
四川省 & 川/蜀 & 成都市\\
贵州省 & 黔/贵 & 贵阳市\\
云南省 & 云/滇 & 昆明市\\
西藏自治区 & 藏 & 拉萨市\\
陕西省 & 陕/秦 & 西安市\\
甘肃省 & 甘/陇 & 兰州市\\
青海省 & 青 & 西宁市\\
宁夏回族自治区 & 宁 & 银川市\\
新疆维吾尔自治区 & 新 & 乌鲁木齐市\\
香港特别行政区 & 港 & 香港\\
澳门特别行政区 & 澳 & 澳门\\
台湾省 & 台 & 台北市\\
\end{longtable}\normalsize %注意这里要恢复正常字体
```

3.6.2 公式

公式不做介绍，与正常用法一致。

3.6.3 数学环境

HITHESIS 定义了常用的数学环境：

axiom 公理	theorem 定理	definition 定义	proposition 命题	lemma 引理	conjecture 猜想	
proof 证明	corollary 推论	example 例子	exercise 练习	assumption 假设	remark 注释	problem 问题

比如：

```
\begin{definition}
  道千乘之国，敬事而信，节用而爱人，使民以时。
\end{definition}
```

产生（自动编号）：

定义 1.1 道千乘之国，敬事而信，节用而爱人，使民以时。

列举出来的数学环境毕竟是有限的，如果想用胡说这样的数学环境，那么可以定义：

```
\newtheorem{nonsense}{胡说}[chapter]
```

然后这样使用：

```
\begin{nonsense}
  契丹武士要来中原夺武林秘笈。—— 慕容博
\end{nonsense}
```

产生（自动编号）：

胡说 1.1 契丹武士要来中原夺武林秘笈。——慕容博

3.6.4 算法

我工算法不在规范中要求且一千个评审老师有一千个算法格式喜好。详见 PlutoThesis 中的各个实验室算法喜好举例。在此多说无益。

3.6.5 引用参考文献

`\inlinecite` 学校要求的参考文献引用有两种模式：(1) 上标模式。比如“同样的工作有很多[1,2]…”。(2) 正文模式。比如“文 [3] 中详细说明了…”。其中上标模式使用远比正文模式频繁，所以为了符合使用习惯，上标模式仍然用常规的 `\cite{⟨key⟩}`，而 `\inlinecite{⟨key⟩}` 则用来生成正文模式。

关于参考文献模板推荐使用 BibTeX，关于中文参考文献需要额外增加一个 Entry: `language`，将其设置为 `zh` 用来指示此参考文献为中文，以便 `hithesis.bst` 处理。如：

```
@INPROCEEDINGS{cnproceed,
  author    = {王重阳 and 黄药师 and 欧阳峰 and 洪七公 and 段皇帝},
  title     = {武林高手从入门到精通},
  booktitle = {第~$N$~次华山论剑},
  year      = 2006,
  address   = {西安，中国},
  language      = "zh",
```

```
}

@ARTICLE{cnarticle,
  AUTHOR  = "贾宝玉 and 林黛玉 and 薛宝钗 and 贾探春",
  TITLE   = "论刘姥姥食量大如牛之现实意义",
  JOURNAL = "红楼梦杂谈",
  PAGES   = "260--266",
  VOLUME  = "224",
  YEAR    = "1800",
  LANGUAGE    = "zh",
}
```

注意如果不需要引用参考文献，请删除 main.tex 中 \bibliography 开头的两行，以避免可能的编译错误。

3.6.6 列表环境

itemize (*env.*)
enumerate (*env.*)
description (*env.*)

为了适合中文习惯，模板将这三个常用的列表环境用 enumitem 进行了纵向间距压缩。一方面清除了多余空间，另一方面用户可以自己指定列表环境的样式（如标签符号，缩进等）。细节请参看 enumitem 文档，此处不再赘述。

3.7 后文

3.7.1 结论

conclusions (*env.*)

结论之后为后文内容。

```
\begin{conclusions}

学位论文的结论作为论文正文的最后一章单独排写，但不加章标题序号。

结论应是作者在学位论文研究过程中所取得的创新性成果的概要总结，不能与摘要混为一
谈。博士学位论文结论应包括论文的主要结果、创新点、展望三部分，在结论中应概括论
文的核心观点，明确、客观地指出本研究内容的创新性成果（含新见解、新观点、方法创
新、技术创新、理论创新），并指出今后进一步在本研究方向进行研究工作的展望与设想
。对所取得的创新性成果应注意从定性和定量两方面给出科学、准确的评价，分（1）、
（2）、（3）…条列出，宜用“提出了”、“建立了”等词叙述。

\end{conclusions}
```

3.7.2 参考文献

在后文中的参考文献是自动生成的，不需要用户干预，具体命令在 main.tex 中有示例。

3.7.3 附录

appendix (*env.*)

所有的附录都插到这里来。因为附录会更改默认的 chapter 属性，而后面的**个人简历**又需要恢复，所以实现为环境可以保证全局的属性不受影响。

```
\begin{appendix}
\input{back/appA.tex}
```

```
\end{appendix}
```

3.7.4 所发表文章

publication (*env.*)

虽然在《哈尔滨工业大学研究生学位论文撰写规范》《哈尔滨工业大学本科生毕业论文撰写规范》中都没有明确规定此处的格式，但按照旧模板 PlutoThesis，此处格式非常复杂。此处仍然使用旧模板中的设置方法。

```
\begin{publication}
\noindent\textbf{（一）发表的学术论文}
\begin{publist}
\item XXX, XXX. Static Oxidation Model of Al-Mg/C Dissipation Thermal Protection
Materials[J]. Rare Metal Materials and Engineering, 2010, 39(Suppl. 1): 520-524.（SCI~收
录，IDS号为~669JS，IF=0.16）
\item XXX, XXX. 精密超声振动切削单晶铜的计算机仿真研究[J]. 系统仿真学报，2007，19（4）：
738-741，753.（EI~收录号：20071310514841）
\item XXX, XXX. 局部多孔质气体静压轴向轴承静态特性的数值求解[J]. 摩擦学学报，2007（1）：
68-72.（EI~收录号：20071510544816）
\item XXX, XXX. 硬脆光学晶体材料超精密切削理论研究综述[J]. 机械工程学报，2003，39（8）：
15-22.（EI~收录号：2004088028875）
\item XXX, XXX. 基于遗传算法的超精密切削加工表面粗糙度预测模型的参数辨识以及切削参数优化[J].
 机械工程学报，2005，41（11）：158-162.（EI~收录号：2006039650087）
\item XXX, XXX. Discrete Sliding Mode Cintrok with Fuzzy Adaptive Reaching Law on 6-PEES
Parallel Robot[C]. Intelligent System Design and Applications, Jinan, 2006: 649-652.（EI~
收录号：20073210746529）
\end{publist}

\noindent\textbf{（二）申请及已获得的专利（无专利时此项不必列出）}
\begin{publist}
\item XXX, XXX. 一种温热外敷药制备方案：中国，88105607.3[P]. 1989-07-26.
\end{publist}

\noindent\textbf{（三）参与的科研项目及获奖情况}
\begin{publist}
\item XXX, XXX. XX~气体静压轴承技术研究，XX~省自然科学基金项目.课题编号：XXXX.
\item XXX, XXX. XX~静载下预应力混凝土房屋结构设计统一理论. 黑江省科学技术二等奖，2007.
\end{publist}
%\vfill
%\hangafter=1\hangindent=2em\noindent
%\setlength{\parindent}{2em}
\end{publication}
```

3.7.5 索引

ceindex (*env.*)

我工要求中英文双语索引。后文中的自动索引实际上不需要用户干预。

```
\begin{ceindex}
  %如果想要手动加索引，注释掉以下这一样，用wordlist环境
\printsubindex*
\end{ceindex}
```

手工添加索引的方法不推荐，模板中将去除该功能。

3.7.6 授权

\authorization 授权页中的签名和日期是需要手写，不需要人工干预。具体示例在 main.tex 中。

```
\authorization %授权
%\authorization[scan.pdf] %添加扫描页的命令，与上互斥
```

3.7.7 致谢声明

acknowledgement (*env.*) 把致谢做成一个环境更好一些，直接往里面写感谢的话就可以啦！

```
\begin{acknowledgement}
  ...
  感谢\hit\LaTeX\ 论文模板\hithesis\ !
\end{acknowledgement}
```

3.7.8 简历

resume (*env.*) 个人简历。实际上，致谢和个人简历是自由发挥的地区，字体，文体，格式，内容，完全自己决定。

```
\begin{resume}
XXXX~年~XX~月~XX~日出生于~XXXX。

XXXX~年~XX~月考入~XX~大学~XX~院（系）XX~专业，XXXX~年~XX~月本科毕业并获得~XX~学学士学位。

XXXX~年~XX~月------XXXX~年~XX~月在~XX~大学~XX~院（系）XX~学科学习并获得~XX~学硕士学位。

XXXX~年~XX~月------XXXX~年~XX~月在~XX~大学~XX~院（系）XX~学科学习并获得~XX~学博士学位。

获奖情况：如获三好学生、优秀团干部、X~奖学金等（不含科研学术获奖）。

工作经历：
\end{resume}
```

3.8 其它

模板的配置文件 hithesisbook.cfg 中定义了很多固定词汇，一般无须修改。如果有特殊需求，推荐在导言区使用 \renewcommand。

3.9 捐助

各位刀客和大侠如用的嗨，要解囊相助，请支付宝赞助参照图 1 中提示操作（二维码被矢量化后之后去除了头像等冗余无用的部分 ~ ）。

图 1: 支付宝

4 实现细节

4.1 基本信息

生成 hithesis.bst，并按照 HitszThesis 生成深圳校区的参考文献样式 hitszthesis.bst。

```
⟨*bst | shenzhenbst⟩
⟨shenzhenbst⟩%% This bst file comes from https://github.com/YangLaTeX/hitszthesis
ENTRY                                          % class Entry {
{                                              % public:
  author                                       %   String author;
  editor                                       %   String editor;
  translator                                   %   String translator;
  title                                        %   String title;
  edition                                      %   String edition;
  address                                      %   String address;
  publisher                                    %   String publisher;
  pages                                        %   String pages;
  year                                         %   String year;
  date                                         %   String date;
  modifydate                                   %   String modifydate;
  citedate                                     %   String citedate;
  url                                          %   String url;
  doi                                          %   String doi;
  language                                     %   String language;
  booktitle                                    %   String booktitle;
  journal                                      %   String journal;
  chapter                                      %   String chapter;
  series                                       %   String series;
  volume                                       %   String volume;
  number                                       %   String number;
  version                                      %   String version;
  month                                        %   String month;
  school                                       %   String school;
  institution                                  %   String institution;
  organization                                 %   String organization;
  type                                         %   String type;
  howpublished                                 %   String howpublished;
  eid                                          %   String eid;
  key                                          %   String key;
  country                                      %   String country;
  patentid                                     %   String patentid;
  media                                        %   String media;
} {                                            %   //  declare integer variables
  required                                     %   int required;  // withther the bibfield is re
} {                                            %   //  declare String variables
  label                                        %   String label;           //  label for the ent
  mark                                         %   String mark;            //  mark for the entr
                                               %   //  there is ahidden entry variable sort.key$
                                               %   String sort_key;
}                                              % }
```

```
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
INTEGERS {                                          % //  declare global int variables
  entry.count                                       % static int entry_count;          // number of e
  longest.label.width                               % static int longest_label_width;  // width of th
  i                                                 % static int i;
  j                                                 % static int j;
  k                                                 % static int k;
}                                                   %
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
STRINGS {                                           % //  declare global String variables
  longest.label                                     % static String longest_label;     //  the longes
  s                                                 % static String s;
  t                                                 % static String t;
}                                                   %
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

% define global static constants
FUNCTION {true}                  {#1}
FUNCTION {false}                 {#0}
FUNCTION {debug.enabled}         {true}
FUNCTION {cap.volume.en}         {"Vol~"}
FUNCTION {cap.volume.zh}         {"卷"}
FUNCTION {cap.edition.en}        {"~ed"}
FUNCTION {cap.edition.zh}        {"版"}
FUNCTION {cap.anonymous.en}      {"Anon"}
FUNCTION {cap.anonymous.zh}      {"佚名"}
⟨*shenzhenbst⟩
FUNCTION {cap.no.address.en}     {"［S.l.］"}
FUNCTION {cap.no.address.zh}     {"［出版地不详］"}
FUNCTION {cap.no.publisher.en}   {"［s.n.］"}
FUNCTION {cap.no.publisher.zh}   {"［出版者不详］"}
FUNCTION {cap.et.al.en}          {"，et~al"}
FUNCTION {cap.et.al.zh}          {"，等"}
⟨/shenzhenbst⟩
⟨*bst⟩
FUNCTION {cap.no.address.en}     {"[S.l.]"}
FUNCTION {cap.no.address.zh}     {"[出版地不详]"}
FUNCTION {cap.no.publisher.en}   {"[s.n.]"}
FUNCTION {cap.no.publisher.zh}   {"[出版者不详]"}
FUNCTION {cap.et.al.en}          {", et~al"}
FUNCTION {cap.et.al.zh}          {", 等"}
⟨/bst⟩
FUNCTION {cap.translate.en}      {"~trans"}
FUNCTION {cap.translate.zh}      {"译"}
```

```
FUNCTION {cap.doi.url}           {"http://dx.doi.org/"}
FUNCTION {cap.st.en}             {"st"}
FUNCTION {cap.nd.en}             {"nd"}
FUNCTION {cap.rd.en}             {"rd"}
FUNCTION {cap.th.en}             {"th"}

FUNCTION {cap.space}             {" "}
⟨*shenzhenbst⟩
FUNCTION {cap.comma}             {"，"}
FUNCTION {cap.colon}             {"\thinspace{}\textnormal{：}"}
⟨/shenzhenbst⟩
⟨*bst⟩
FUNCTION {cap.comma}             {", "}
FUNCTION {cap.colon}             {"\textnormal{: }"}
⟨/bst⟩
```

似乎 GBT2005 冒号前面不需要有空格，此处删除

```
FUNCTION {cap.period}            {"\nolinebreak\@. "}
FUNCTION {cap.double.slash}      {" //\thinspace{}"}
FUNCTION {cap.dash}              {"\textnormal{-}"}

% Predefined latex command used to format the style of bibitems
FUNCTION {env.bibbegin}          { "\begin{thebibliography}" }
FUNCTION {env.bibend}            { "\end{thebibliography}" }
FUNCTION {cmd.bibauthor}         { "\providecommand{\bibauthor}[1]{#1}" }
FUNCTION {cmd.bibeditor}         { "\providecommand{\bibeditor}[1]{\bibauthor{#1}}" }
FUNCTION {cmd.bibtranslator}     { "\providecommand{\bibtranslator}[1]{#1}" }
FUNCTION {cmd.bibtitle}          { "\providecommand{\bibtitle}[1]{#1}" }
FUNCTION {cmd.bibbooktitle}      { "\providecommand{\bibbooktitle}[1]{#1}" }
FUNCTION {cmd.bibjournal}        { "\providecommand{\bibjournal}[1]{#1}" }
FUNCTION {cmd.bibmark}           { "\providecommand{\bibmark}[1]{\mbox{#1}}" }
FUNCTION {cmd.bibcountry}        { "\providecommand{\bibcountry}[1]{#1}" }
FUNCTION {cmd.bibpatentid}       { "\providecommand{\bibpatentid}[1]{#1}" }
FUNCTION {cmd.bibedition}        { "\providecommand{\bibedition}[1]{#1}" }
FUNCTION {cmd.biborganization}   { "\providecommand{\biborganization}[1]{#1}" }
FUNCTION {cmd.bibaddress}        { "\providecommand{\bibaddress}[1]{#1}" }
FUNCTION {cmd.bibpublisher}      { "\providecommand{\bibpublisher}[1]{#1}" }
FUNCTION {cmd.bibinstitution}    { "\providecommand{\bibinstitution}[1]{#1}" }
FUNCTION {cmd.bibschool}         { "\providecommand{\bibschool}[1]{#1}" }
FUNCTION {cmd.bibvolume}         { "\providecommand{\bibvolume}[1]{#1}" }
FUNCTION {cmd.bibnumber}         { "\providecommand{\bibnumber}[1]{#1}" }
FUNCTION {cmd.bibversion}        { "\providecommand{\bibversion}[1]{#1}" }
FUNCTION {cmd.bibpages}          { "\providecommand{\bibpages}[1]{#1}" }
FUNCTION {cmd.bibmodifydate}     { "\providecommand{\bibmodifydate}[1]{#1}" }
FUNCTION {cmd.bibcitedate}       { "\providecommand{\bibcitedate}[1]{#1}" }
FUNCTION {cmd.bibyear}           { "\providecommand{\bibyear}[1]{#1}" }
FUNCTION {cmd.bibdate}           { "\providecommand{\bibdate}[1]{#1}" }
FUNCTION {cmd.biburl}            { "\providecommand{\biburl}[1]{\newline\url{#1}}" }

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
                                                   %
FUNCTION {log.str} {                               % void Entry::log_str(String value, String messag
  debug.enabled {                                  %   if (debug_enabled == 1) {
    "DEBUG: " swap$ * " - '" *                     %     message = "DEBUG: " + message + " - '";
    swap$ *                                        %     message = message + value;
    "'" *                                          %     message = message + "'";
    top$                                           %     log(message);
  } {                                              %   } else {
    pop$ pop$                                      %     return;
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {log.int} {                               % int Entry::log_int(int value, String message)
  debug.enabled {                                  %   if (debug_enabled == 1) {
    "DEBUG: " swap$ * " - " *                      %     message = "DEBUG: " + message + " - ";
    swap$ int.to.str$ *                            %     message = message + int_to_str(value);
    top$                                           %     log(message);
  } {                                              %   } else {
    pop$ pop$                                      %     return;
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {not} {                                   % int Entry::not(int x) {
  {                                                %   if (x == 1) {
    false                                          %     return false;
  } {                                              %   } else {
    true                                           %     return true;
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {and} {                                   % int Entry::and(int x, int y) {
  {                                                %   if (y == 1) {
    skip$                                          %     return x;
  } {                                              %   } else {
    pop$ false                                     %     return false;
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {or} {                                    % int Entry::or(int x, int y) {
  {                                                %   if (y == 1) {
    pop$ true                                      %     return true;
  } {                                              %   } else {
```

```
    skip$                                          %     return x;
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   % //  calculate the length in characters of a str
                                                   % //  We need this function since text.length$ is
                                                   % //  the length in characters.
INTEGERS {length.i}                                % static int length_i;
FUNCTION {length} {                                % int Entry::length(String str) {
  duplicate$ empty$ {                              %   if (empty(str)) {
    pop$ #0                                        %     return 0;
  } {                                              %   } else {
    #1 'length.i :=                                %     length_i = 1;
    false                                          %     int stop = false;
    {not} {                                        %     while (! stop) {
      duplicate$ length.i #1 substring$            %       String tmp = substring(str, length_i, 1);
      "" = {                                       %       if (tmp == "") {
        true                                       %         stop = true;
      } {                                          %       } else {
        length.i #1 + 'length.i :=                 %         length_i = length_i + 1;
        false                                      %         stop = false;
      } if$                                        %       }
    } while$                                       %     }
    pop$ length.i #1 -                             %     return length_i - 1;
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {is.digit} {                              % int Entry::is_digit(String ch) {
  chr.to.int$                                      %   int ascii = chr_to_int(ch);
  duplicate$ "0" chr.to.int$ < {                   %   if (ascii < chr_to_int("0")) {
    pop$ false                                     %     return false;
  } {                                              %   } else {
    "9" chr.to.int$ > {                            %     if (ascii > chr_to_int("9")) {
      false                                        %       return false;
    } {                                            %     } else {
      true                                         %       return true;
    } if$                                          %     }
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   % // test if str is a number
FUNCTION {is.number} {                             % int Entry::is_number(String str) {
  duplicate$ empty$ not swap$                      %   int result = (! empty(str));
  { duplicate$ empty$ not} {                       %   while (! empty(str)) {
    duplicate$ #1 #1 substring$ is.digit {         %     if (is_digit(substring(str, 1, 1))) {
      #2 global.max$ substring$                    %       str = substring(str, 2, global_max);
```

```
    } {                                           %     } else {
      pop$ pop$ false                             %       result = false;
      ""                                          %       str = "";
    } if$                                         %     }
  } while$                                        %   }
  pop$                                            %   return result;
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  % // extract the number prefix of str
FUNCTION {extract.number} {                       % String Entry::extract_number(String str) {
  duplicate$                                      %   String suffix = str;
  duplicate$ length swap$                         %   int n = length(str);
  duplicate$ empty$                               %   int stop = empty(suffix);
  { not } {                                       %   while (! stop) {
    duplicate$ #1 #1 substring$ is.digit {        %     if (is_digit(substring(suffix, 1, 1))) {
      #2 global.max$ substring$                   %       suffix = substring(suffix, 2, global_max)
      duplicate$ empty$                           %       stop = empty(suffix);
    } {                                           %     } else {
      true                                        %       stop = true;
    } if$                                         %     }
  } while$                                        %   }
  length -                                        %   int n = n - length(suffix);
  #1 swap$ substring$                             %   return substring(str, 1, n);
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {get.last.chr} {                         % String Entry::get_last_chr(String str) {
  duplicate$ length                               %   int n = length(str);
  duplicate$ #0 = {                               %   if (n == 0) {
    pop$                                          %     return str;
  } {                                             %   } else {
    #1 substring$                                 %     return substring(str, n, 1);
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {get.ordinal.suffix.en} {                % String Entry::get_ordinal_suffix_en(String ch)
  duplicate$ "1" = {                              %   if (num == "1") {
    pop$ cap.st.en                                %     return cap_st_en;
  } {                                             %   } else {
    duplicate$ "2" = {                            %     if (num == "2") {
      pop$ cap.nd.en                              %       return cap_nd_en;
    } {                                           %     } else {
      duplicate$ "3" = {                          %       if (num == "3") {
        pop$ cap.rd.en                            %         return cap_rd_en;
      } {                                         %       } else {
        pop$ cap.th.en                            %         return cap_th_en;
```

```
      } if$                                       %       }
    } if$                                         %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {num.to.ordinal.en} {                    % String Entry::num_to_ordinal_en(String num) {
  duplicate$ empty$ {                             %   if (empty(num)) {
    skip$                                         %     return num;
  } {                                             %   } else {
    duplicate$ get.last.chr                       %     String ch = get_last_chr(num);
    get.ordinal.suffix.en                         %     String str = get_ordinal_suffix_en(ch);
    *                                             %     reutrn num + str;
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
STRINGS {remove.dots.result}                      % static String remove_dots_result;
                                                  %
FUNCTION {remove.dots} {                          % String Entry::remove_dots(String str) {
  "" 'remove.dots.result :=                       %   remove_dots_result = "";
  { duplicate$ empty$ not } {                     %   while (! empty(str)) {
    duplicate$ #1 #2 substring$                   %     String tmp = substring(str, 1, 2);
    "\." = {                                      %     if (tmp == "\.") {
      #3 global.max$ substring$                   %       str = substring(str, 3, global_max);
    } {                                           %     } else {
      duplicate$ #1 #1 substring$                 %       tmp = substring(str, 1, 1);
      duplicate$ "." = {                          %       if (tmp == ".") {
        pop$ #2 global.max$ substring$            %         str = substring(str, 2, global_max);
      } {                                         %       } else {
        remove.dots.result swap$ *                %         tmp = remove_dots_result + tmp;
        'remove.dots.result :=                    %         remove_dots_result = tmp;
        #2 global.max$ substring$                 %         str = substring(str, 2, global_max);
      } if$                                       %       }
    } if$                                         %     }
  } while$                                        %   }
  pop$ remove.dots.result                         %   return remove_dots_result;
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {add.brace} {                            % String Entry::add_brace(String str) {
  "{" swap$ * "}" *                               %   return "{" + str + "}";
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {add.bracket} {                          % String Entry::bracket(String str) {
```

```
⟨shenzhenbst⟩ "(" swap$ * ")\!\!" *                %   return "(" + str + ")\!\!";
⟨bst⟩ "(" swap$ * ")" *                            %   return "(" + str + ")";
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {add.squarebracket} {                     % String Entry::add_squarebracket(String str) {
⟨shenzhenbst⟩ "[" swap$ * "]" *                    %   return "[" + str + "]";
⟨bst⟩ "[" swap$ * "]" *                            %   return "[" + str + "]";
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {add.textit} {                            % String Entry::add_textit(String str) {
  "\textit{" swap$ * "}" *                         %   return "\textit{" + str + "}";
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {add.textbf} {                            % String Entry::add_textbf(String str) {
  "\textbf{" swap$ * "}" *                         %   return "\textbf{" + str + "}";
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   % // test if str contains a dash '-'
FUNCTION {contain.dash} {                          % int Entry::contain_dash(String str) {
  false swap$                                      %   int result = false;
  { duplicate$ empty$ not} {                       %   while (! empty(str)) {
    duplicate$ #1 #1 substring$ "-" = {            %     if (substring(str, 1, 1) == "-") {
      pop$ pop$ true                               %       result = true;
      ""                                           %       str = "";
    } {                                            %     } else {
      #2 global.max$ substring$                    %       str = substring(str, 2, global_max);
    } if$                                          %     }
  } while$                                         %   }
  pop$                                             %   return result;
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   % // extract the substring before the first '-'
                                                   % // returns the string itself if no '-'
FUNCTION {extract.before.first.dash} {             % String Entry::extract_before_first_dash(String
  duplicate$                                       %   String suffix = str;
  duplicate$ length swap$                          %   int n = length(str);
  duplicate$ empty$                                %   int stop = empty(suffix);
  { not } {                                        %   while (! stop) {
    duplicate$ #1 #1 substring$ "-" = {            %     if (substring(suffix, 1, 1) == "-") {
      true                                         %       stop = true;
    } {                                            %     } else {4r
```

```
      #2 global.max$ substring$                        %       suffix = substring(suffix, 2, global_max)
      duplicate$ empty$                                %       stop = empty(suffix);
    } if$                                              %     }
  } while$                                             %   }
  length -                                             %   int n = n - length(suffix);
  #1 swap$ substring$                                  %   return substring(str, 1, n);
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       % // extract the substring after the first '-'
                                                       % // returns the string itself if no '-'
FUNCTION {extract.after.first.dash} {                  % String Entry::extract_after_first_dash(String s
  duplicate$                                           %   String suffix = str;
  duplicate$ empty$                                    %   int stop = empty(suffix);
  { not } {                                            %   while (! stop) {
    duplicate$ #1 #1 substring$ "-" = {                %     if (substring(suffix, 1, 1) == "-") {
      true                                             %       stop = true;
    } {                                                %     } else {4r
      #2 global.max$ substring$                        %       suffix = substring(suffix, 2, global_max)
      duplicate$ empty$                                %       stop = empty(suffix);
    } if$                                              %     }
  } while$                                             %   }
  duplicate$ empty$ {                                  %   if (empty(suffix)) {
    pop$                                               %     return str;
  } {                                                  %   } else {
    swap$ pop$ #2 global.max$ substring$               %     return substring(suffix, 2, global_max);
  } if$                                                %   }
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       % // extract the substring after the last '-'
                                                       % // returns the empty string if no '-'
FUNCTION {extract.after.last.dash} {                   % String Entry::extract_after_last_dash(String st
  duplicate$ contain.dash not {                        %   if (! contain_dash(str)) {
    pop$ ""                                            %     return "";
  } {                                                  %   } else {
    {duplicate$ contain.dash} {                        %     while (contain_dash(str)) {
      extract.after.first.dash                         %       str = extract_after_first_dash(str);
    } while$                                           %     }
                                                       %     return str;
  } if$                                                %   }
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       %
FUNCTION {trim.start} {                                % String Entry::trim_start(String str) {
  {duplicate$ #1 #1 substring$ " " =} {                %   while (substring(str, 1, 1) == " ") {
    #2 global.max$ substring$                          %     str = substring(str, 2, global_max);
  } while$                                             %   }
                                                       %   return str;
```

```
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {trim.end} {                              % String Entry::trim_end(String str) {
  {duplicate$ get.last.chr " " =} {                %   while (get_last_chr(str) == " ") {
    duplicate$ length #1 -                         %     int n = length(str) - 1;
    #1 swap$ substring$                            %     str = substring(str, 1, n);
  } while$                                         %   }
                                                   %   return str;
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {trim} {                                  % String Entry::trim(String str) {
  trim.start                                       %   str = trim_start(str);
  trim.end                                         %   return trim_end(str);
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {start.bibitem} {                         % void Entry::start_bibitem() {
  newline$                                         %   writeln();
  "\bibitem{" cite$ * "}" * write$                  %   write("\bibitem{" + this.cite + "}");
  newline$                                         %   writeln();
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {end.bibitem} {                           % void Entry::end_bibitem() {
  cap.period write$                                %   write(cap_period);
  newline$                                         %   writeln();
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {is.in.chinese} {                         % int Entry::is_in_chinese() {
  language empty$ {                                %   if (empty(this.language)) {
    false                                          %     return false;
  } {                                              %   } else {
    language "zh" = {                              %     if (this.language == "zh") {
      true                                         %       return true;
    } {                                            %     } else {
      false                                        %       return false;
    } if$                                          %     }
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
```

```
FUNCTION {is.online} {                            % int Entry::is_online() {
  url empty$ not {                                %   if (! empty(this.url)) {
    true                                          %     return true;
  } {                                             %   } else {
    doi empty$ not {                              %     if (! empty(this.doi)) {
      true                                        %       return true;
    } {                                           %     } else {
      false                                       %       return false;
    } if$                                         %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {set.mark} {                             % void Entry::set_mark(String mark) {
  'mark :=                                        %   this.mark = mark;
  is.online {                                     %   if (is_online()) {
    mark "/OL" * 'mark :=                         %     this.mark = this.mark + "/OL";
  } {                                             %   } else {
    media empty$ not {                            %     if (! empty(this.media)) {
      mark "/" * media * 'mark :=                 %       this.mark = this.mark + "/" + this.media;
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {cap.volume} {                           % String Entry::cap_volume() {
  is.in.chinese {                                 %   if (is_in_chinese()) {
    cap.volume.zh                                 %     return cap_volume_zh;
  } {                                             %   } else {
    cap.volume.en                                 %     return cap_volume_en;
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {cap.edition} {                          % String Entry::cap_edition() {
  is.in.chinese {                                 %   if (is_in_chinese()) {
    cap.edition.zh                                %     return cap_edition_zh;
  } {                                             %   } else {
    cap.edition.en                                %     return cap_edition_en;
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {cap.anonymous} {                        % String Entry::cap_anonymous() {
  is.in.chinese {                                 %   if (is_in_chinese()) {
    cap.anonymous.zh                              %     return cap_anonymous_zh;
```

```
  } {                                                   %   } else {
    cap.anonymous.en                                    %     return cap_anonymous_en;
  } if$                                                 %   }
}                                                       % }
                                                        %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                        %
FUNCTION {cap.no.address} {                             % String Entry::cap_no_address() {
  is.in.chinese {                                       %   if (is_in_chinese()) {
    cap.no.address.zh                                   %     return cap_no_address_zh;
  } {                                                   %   } else {
    cap.no.address.en                                   %     return cap_no_address_en;
  } if$                                                 %   }
}                                                       % }
                                                        %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                        %
FUNCTION {cap.no.publisher} {                           % String Entry::cap_no_publisher() {
  is.in.chinese {                                       %   if (is_in_chinese()) {
    cap.no.publisher.zh                                 %     return cap_no_publisher_zh;
  } {                                                   %   } else {
    cap.no.publisher.en                                 %     return cap_no_publisher_en;
  } if$                                                 %   }
}                                                       % }
                                                        %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                        %
FUNCTION {cap.et.al} {                                  % String Entry::cap_et_al() {
  is.in.chinese {                                       %   if (is_in_chinese()) {
    cap.et.al.zh                                        %     return cap_et_al_zh;
  } {                                                   %   } else {
    cap.et.al.en                                        %     return cap_et_al_en;
  } if$                                                 %   }
}                                                       % }
                                                        %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                        %
FUNCTION {cap.translate} {                              % String Entry::cap_translate() {
  is.in.chinese {                                       %   if (is_in_chinese()) {
    cap.translate.zh                                    %     return cap_translate_zh;
  } {                                                   %   } else {
    cap.translate.en                                    %     return cap_translate_en;
  } if$                                                 %   }
}                                                       % }
                                                        %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                        %
FUNCTION {format.bibinfo} {                             % String Entry::format_bibinfo(String info, Strin
  swap$ add.brace swap$                                 %   info = add_brace(info);
  "\bib" swap$ * swap$ *                                %   return "\bib" + type + info;
```

```
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
INTEGERS { nameindex namecount }                  % static int nameindex, namecount;
STRINGS  { namelist nameformat }                  % static String namelist, nameformat;
STRINGS  { firstname lastname jrname vonname}     % static String firstname, lastname, jrname, vonn

FUNCTION {format.names} {                         % String Entry::format_names(String names) {
  'namelist :=                                    %   namelist = names;
  namelist num.names$ 'namecount :=               %   namecount = num_names(namelist);
  % ""                                              %   String result = "";
  "{" cap.et.al * "}" *
  #0 'nameindex :=                                %   nameindex = 0;
  % {nameindex namecount < nameindex #3 < and} {    %   while ((nameindex < namecount) && (nameinde
  {nameindex namecount <} {
    "{" *
    nameindex #1 + 'nameindex :=                  %     nameindex = nameindex + 1;
    nameindex #1 > {                              %     if (nameindex > 1) {
      cap.comma *                                 %       result = result + cap_comma;
    } 'skip$ if$                                  %     }
    namelist nameindex "{vv}" format.name$        %     String tmp = format_name(namelist, nameinde
   'vonname :=                                    %     vonname = tmp;
    namelist nameindex "{jj}" format.name$        %     tmp = format_name(namelist, nameindex, "{jj
    remove.dots 'jrname :=                        %     jrname = remove_dots(tmp);
    namelist nameindex "{f}" format.name$         %     tmp = format_name(namelist, nameindex, "{f}
    remove.dots                                   %     tmp = remove_dots(tmp);

⟨shenzhenbst⟩     "u" change.case$ 'firstname :=              %     firstname = change_case(tmp, "u'
⟨bst⟩     'firstname :=                                 %     firstname = change_case(tmp, "u");
    namelist nameindex "{ll}" format.name$        %     tmp = format_name(namelist, nameindex, "{ll

⟨shenzhenbst⟩     "u" change.case$ 'lastname :=               %     lastname = change_case(tmp, "u")
⟨bst⟩     'lastname :=                                  %     lastname = change_case(tmp, "u");
    jrname empty$ not {                           %     if (! empty(jrname)) {
      jrname * " " *                              %       result = result + jrname + " "
    } 'skip$ if$                                  %     }
    vonname empty$ not {                          %     if (! empty(vonname)) {
      vonname * " " *                             %       result = result + vonname + " "
    } 'skip$ if$                                  %     }
    lastname empty$ not {                         %     if (! empty(lastname)) {
      lastname * " " *                            %       result = result + lastname + " "
    } 'skip$ if$                                  %     }
    firstname empty$ not {                        %     if (! empty(firstname)) {
      firstname * " " *                           %       result = result + firstname + " "
    } 'skip$ if$                                  %     }
    trim.end                                      %     result = trim_end(result);
    "}" *
  } while$                                        %   }
  % nameindex namecount < {                         %   if (nameindex < namecount) {
  %   cap.et.al *                                   %     result = result + cap_et_al();
  % } 'skip$ if$                                    %   }
```

```
}                                                 % }
                                                  %
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  % // format English names
FUNCTION {format.names.en} {                      % String Entry::format_names_en(String names) {
  format.names                                    %   format_names(names);
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  % // format Chinese names
FUNCTION {format.names.zh} {                      % String Entry::format_names_zh(String names) {
  format.names                                    %   format_names(names);
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.author} {                        % String Emtry::format_author(String authors) {
  is.in.chinese {                                 %   if (is_in_chinese) {
    format.names.zh                               %     authors = format_names_zh(authors);
  } {                                             %   } else {
    format.names.en                               %     authors = format_names_en(authors);
  } if$                                           %   }
  "author" format.bibinfo                         %   return format_bibinfo(authors, "author");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.editor} {                        % String Emtry::format_author(String editors) {
  is.in.chinese {                                 %   if (is_in_chinese) {
    format.names.zh                               %     editors = format_names_zh(editors);
  } {                                             %   } else {
    format.names.en                               %     editors = format_names_en(editors);
  } if$                                           %   }
  "editor" format.bibinfo                         %   return format_bibinfo(editors, "editor");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.translator} {                    % String Emtry::format_translator(String translat
  is.in.chinese {                                 %   if (is_in_chinese) {
    duplicate$                                    %     String names = translators;
    format.names.zh                               %     translators = format_names_zh(translators);
    swap$ num.names$ #3 > {                       %     if (num_names(names) > 3) {
      cap.translate.zh *                          %       translators = translators + cap_translate
    } {                                           %     } else {
      cap.comma * cap.translate.zh *              %       translators = translators + cap_comma + c
    } if$                                         %     }
  } {                                             %   } else {
    duplicate$                                    %     String names = translators;
```

```
    format.names.en                                   %     translators = format_names_en(translators);
    swap$ num.names$ #3 > {                           %     if (num_names(names) > 3) {
      cap.translate.en *                              %       translators = translators + cap_translate
    } {                                               %     } else {
      cap.comma * cap.translate.en *                  %       translators = translators + cap_comma + c
    } if$                                             %     }
  } if$                                               %   }
  "translator" format.bibinfo                         %   return format_bibinfo(translator, "translator
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {format.title} {                             % String Emtry::format_title(String title) {
  "title" format.bibinfo                              %   return format_bibinfo(title, "title");
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {format.booktitle} {                         % String Emtry::format_booktitle(String booktitle
  "booktitle" format.bibinfo                          %   return format_bibinfo(booktitle, "booktitle")
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {format.mark} {                              % String Emtry::format_mark(String mark) {
⟨shenzhenbst⟩  "\,[" swap$ * "]" *                    %   mark = " [" + mark + "]
  ";
⟨bst⟩  "[" swap$ * "]" *                              %   mark = "[" + mark + "]";
  "mark" format.bibinfo                               %   return format_bibinfo(mark, "mark");
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {format.country} {                           % String Emtry::format_country(String country) {
  "country" format.bibinfo                            %   return format_bibinfo(country, "country");
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {format.patentid} {                          % String Emtry::format_patentid(String patentid)
  "patentid" format.bibinfo                           %   return format_bibinfo(patentid, "patentid");
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {format.edition} {                           % String Emtry::format_edition(String edition) {
  duplicate$ is.number {                              %   if (is_number(edition)) {
    is.in.chinese {                                   %     if (is_in_chinese()) {
      cap.edition.zh *                                %       edition = edition + cap_edition_zh;
```

```
    } {                                             %     } else {
      num.to.ordinal.en cap.edition.en *            %       edition = num_to_ordinal_en(edition) + ca
    } if$                                           %     }
  } 'skip$ if$                                      %   }
                                                    %   //  use a \mbox{} to prevent line break withi
  "\mbox{" swap$ * "}" *                            %   edition = "\mbox{" + edition + "}";
  "edition" format.bibinfo                          %   return format_bibinfo(edition, "edition");
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.organization} {                    % String Emtry::format_organization(String organi
  "organization" format.bibinfo                     %   return format_bibinfo(organization, "organiza
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.address} {                         % String Emtry::format_address(String address) {
  "address" format.bibinfo                          %   return format_bibinfo(address, "address");
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.publisher} {                       % String Emtry::format_publisher(String publisher
  "publisher" format.bibinfo                        %   return format_bibinfo(publisher, "publisher")
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.institution} {                     % String Emtry::format_institution(String institu
  "institution" format.bibinfo                      %   return format_bibinfo(institution, "instituti
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.school} {                          % String Emtry::format_school(String school) {
  "school" format.bibinfo                           %   return format_bibinfo(school, "school");
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.year} {                            % String Emtry::format_year(String year) {
  "year" format.bibinfo                             %   return format_bibinfo(year, "year");
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {format.date} {                            % String Emtry::format_date(String date) {
  "date" format.bibinfo                             %   return format_bibinfo(date, "date");
}                                                   % }
```

```
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.journal} {                       % String Emtry::format_journal(String journal) {
  "journal" format.bibinfo                        %   return format_bibinfo(journal, "journal");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.volume} {                        % String Emtry::format_volume(String volume) {
  "volume" format.bibinfo                         %   return format_bibinfo(volume, "volume");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.number} {                        % String Emtry::format_number(String number) {
  add.bracket                                     %   number = add_bracket(number);
  "number" format.bibinfo                         %   return format_bibinfo(number, "number");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.report.number} {                 % String Emtry::format_report_number(String numbe
  "number" format.bibinfo                         %   return format_bibinfo(number, "number");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.version} {                       % String Emtry::format_version(String version) {
  "version" format.bibinfo                        %   return format_bibinfo(version, "version");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.pages} {                         % String Emtry::format_pages(String pages) {
  "pages" format.bibinfo                          %   return format_bibinfo(pages, "pages");
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.modifydate} {                    % String Emtry::format_modifydate(String modifyda
  add.bracket                                     %   modifydate = add_bracket(modifydate);
  "modifydate" format.bibinfo                     %   return format_bibinfo(modifydate, "modifydate
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {format.citedate} {                      % String Emtry::format_citedate(String citedate)
  add.squarebracket                               %   citedate = add_squarebracket(citedate);
  "citedate" format.bibinfo                       %   return format_bibinfo(citedate, "citedate");
```

```
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
                                                  % // NOTE: do not use the format_bibinfo() for UR
                                                  % // since if the URL contains special symbols su
                                                  % // as '%', the \biburl{} will be broken.
FUNCTION {format.url} {                           % String Emtry::format_url(String url) {
  "\url{" swap$ * "}" *                           %   return "\url{" + url + "}";
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {get.full.title} {                       % String Entry::get_full_title() {
  series empty$ {                                 %     if (empty(this.series)) {
    volume empty$ {                               %       if (empty(this.volume)) {
      title                                       %         return this.title;
    } {                                           %       } else {
      title cap.colon * cap.volume * volume *     %         return this.title + cap_colon + cap_vol
    } if$                                         %       }
  } {                                             %     } else {
    volume empty$ {                               %       if (empty(this.volume)) {
      series cap.colon * title *                  %         return this.series + cap_colon + this.t
    } {                                           %       } else {
      series cap.comma * cap.volume * volume *    %         String str = this.series + cap_comma +
      cap.colon * title *                         %         return str + cap_colon + this.title;
    } if$                                         %       }
  } if$                                           %     }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {get.full.booktitle} {                   % String Entry::get_full_booktitle() {
  series empty$ {                                 %     if (empty(this.series)) {
    volume empty$ {                               %       if (empty(this.volume)) {
      booktitle                                   %         return this.booktitle;
    } {                                           %       } else {
      booktitle cap.colon * cap.volume * volume * %         return this.booktitle + cap_colon + cap
    } if$                                         %       }
  } {                                             %     } else {
    volume empty$ {                               %       if (empty(this.volume)) {
      series cap.colon * booktitle *              %         return this.series + cap_colon + this.b
    } {                                           %       } else {
      series cap.comma * cap.volume * volume *    %         String str = this.series + cap_comma +
      cap.colon * booktitle *                     %         return str + cap_colon + this.booktitle
    } if$                                         %       }
  } if$                                           %     }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
                                                  %
FUNCTION {get.pages} {                            % String Entry::get_pages() {
  pages contain.dash {                            %   if (contain_dash(this.pages)) {
    pages extract.before.first.dash               %     String p1 = extract_before_first_dash(this.
    pages extract.after.last.dash                 %     String p2 = extract_after_last_dash(this.pa
    cap.dash swap$ * *                            %     return p1 + cap_dash + p2;
  } {                                             %   } else {
    pages                                         %     return this.pages;
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.author.or.editor} {              % void Entry::output_author_or_editor(int require
  'required :=                                    %   this.required = required;
  author empty$ not {                             %   if (! empty(this.author)) {
    author format.author write$                   %     write(format_author(this.author));
    cap.period write$                             %     write(cap_period);
  } {                                             %   } else {
    editor empty$ not {                           %     if (! empty(this.editor)) {
      editor format.editor write$                 %       write(format_editor(this.editor));
      cap.period write$                           %       write(cap_period);
    } {                                           %     } else {
      required {                                  %       if (required == 1) {
        "Require author/editor: " cite$ * warning$%         warning("Require author/editor: " + thi
        cap.anonymous format.author write$        %         write(format_author(cap_anonymous()));
        cap.period write$                         %         write(cap_period);
      } 'skip$ if$                                %       }
    } if$                                         %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.author} {                        % void Entry::output_author(int required) {
  'required :=                                    %   this.required = required;
  author empty$ not {                             %   if (! empty(this.author)) {
    author format.author write$                   %     write(format_author(this.author));
    cap.period write$                             %     write(cap_period);
  } {                                             %   } else {
    required {                                    %     if (required == 1) {
      "Require author: " cite$ * warning$         %       warning("Require author: " + this.cite);
      cap.anonymous format.author write$          %       write(format_author(cap_anonymous()));
      cap.period write$                           %       write(cap_period);
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
```

```
FUNCTION {output.editor} {                     % void Entry::output_editor(int required) {
  'required :=                                 %   this.required = required;
  editor empty$ not {                          %   if (! empty(this.editor)) {
    editor format.editor write$                %     write(format_editor(this.editor));
    cap.period write$                          %     write(cap_period);
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require editor: " cite$ * warning$      %       warning("Require editor: " + this.cite);
      cap.anonymous format.editor write$       %       write(format_editor(cap_anonymous()));
      cap.period write$                        %       write(cap_period);
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
                                               %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                               %
FUNCTION {output.title} {                      % void Entry::output_title(int required) {
  'required :=                                 %   this.required = required;
  title empty$ not {                           %   if (! empty(this.title)) {
    title format.title write$                  %     write(format_title(this.title));
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require title: " cite$ * warning$       %       warning("Require title: " + this.cite);
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
                                               %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                               %
FUNCTION {output.series.volume.title} {        % void Entry::output_series_volume_title(int requ
  'required :=                                 %   this.required = required;
  title empty$ not {                           %   if (! empty(this.title)) {
    get.full.title format.booktitle write$     %     write(format_booktitle(get_full_title()));
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require title: " cite$ * warning$       %       warning("Require title: " + this.cite);
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
                                               %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                               %
FUNCTION {output.series.volume.booktitle} {    % void Entry::output_series_volume_booktitle(int
  'required :=                                 %   this.required = required;
  booktitle empty$ not {                       %   if (! empty(this.booktitle)) {
    get.full.booktitle format.booktitle write$ %     write(format_booktitle(get_full_booktitle()
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require booktitle: " cite$ * warning$   %       warning("Require booktitle: " + this.cite
    } 'skip$ if$                               %     }
```

```
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.journal} {                       % void Entry::output_journal(int required) {
  'required :=                                    %   this.required = required;
  journal empty$ not {                            %   if (! empty(this.journal)) {
    cap.period write$                             %     write(cap_period);
    journal format.journal write$                 %     write(format_journal(this.journal));
  } {                                             %   } else {
    required {                                    %     if (required == 1) {
      "Require journal: " cite$ * warning$        %       warning("Require journal: " + this.cite);
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.mark} {                          % void Entry::output_mark(int required) {
  'required :=                                    %   this.required = required;
  mark empty$ not {                               %   if (! empty(this.mark)) {
    mark format.mark write$                       %     write(format_mark(this.mark));
  } {                                             %   } else {
    required {                                    %     if (required == 1) {
      "Require mark: " cite$ * warning$           %       warning("Require mark: " + this.cite);
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.translator} {                    % void Entry::output_translator(int required) {
  'required :=                                    %   this.required = required;
  translator empty$ not {                         %   if (! empty(this.translator)) {
    cap.period write$                             %     write(cap_period);
    translator format.translator write$           %     write(format_translator(this.translator));
  } {                                             %   } else {
    required {                                    %     if (required == 1) {
      "Require translator: " cite$ * warning$     %       warning("Require translator: " + this.cit
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.edition} {                       % void Entry::output_edition(int required) {
  'required :=                                    %   this.required = required;
  edition empty$ not {                            %   if (! empty(this.edition)) {
    cap.period write$                             %     write(cap_period);
```

```
    edition format.edition write$                   %     write(format_edition(this.edition));
  } {                                               %   } else {
    required {                                      %     if (required == 1) {
      "Require edition: " cite$ * warning$          %       warning("Require edition: " + this.cite);
    } 'skip$ if$                                    %     }
  } if$                                             %   }
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {output.address} {                         % void Entry::output_address(int required) {
  'required :=                                      %   this.required = required;
  address empty$ not {                              %   if (! empty(this.address)) {
    cap.period write$                               %     write(cap_period);
    address format.address write$                   %     write(format_address(this.address));
  } {                                               %   } else {
    required {                                      %     if (required == 1) {
      "Require address: " cite$ * warning$          %       warning("Require address: " + this.cite);
      cap.period write$                             %       write(cap_period);
      cap.no.address format.address write$          %       write(format_address(cap_no_address()));
    } 'skip$ if$                                    %     }
  } if$                                             %   }
}                                                   % }
                                                    %

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%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
FUNCTION {output.inproaddress} {                    % void Entry::output_inproaddress(int required) {
  'required :=                                      %   this.required = required;
  address empty$ not {                              %   if (! empty(this.address)) {
    cap.comma write$                                %     write(cap_comma);
    address format.address write$                   %     write(format_address(this.address));
  } {                                               %   } else {
    required {                                      %     if (required == 1) {
      "Require address: " cite$ * warning$          %       warning("Require address: " + this.cite);
      cap.comma write$                              %       write(cap_comma);
      cap.no.address format.address write$          %       write(format_address(cap_no_address()));
    } 'skip$ if$                                    %     }
  } if$                                             %   }
}                                                   % }
                                                    %
⟨/shenzhenbst⟩
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {output.publisher} {                       % void Entry::output_publisher(int required) {
  'required :=                                      %   this.required = required;
  publisher empty$ not {                            %   if (! empty(this.publisher)) {
    cap.colon write$                                %     write(cap_colon);
    publisher format.publisher write$               %     write(format_publisher(this.publisher));
  } {                                               %   } else {
```

```
    required {                                        %     if (required == 1) {
      "Require publisher: " cite$ * warning$          %       warning("Require publisher: " + this.cite
      cap.colon write$                                %       write(cap_colon);
      cap.no.publisher format.publisher write$        %       write(format_publisher(cap_no_publisher()
    } 'skip$ if$                                      %     }
  } if$                                               %   }
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {output.publisher.no.address} {              % void Entry::output_publisher_no_address(int req
  'required :=                                        %   this.required = required;
  publisher empty$ not {                              %   if (! empty(this.publisher)) {
    cap.period write$                                 %     write(cap_period);
    publisher format.publisher write$                 %     write(format_publisher(this.publisher));
  } {                                                 %   } else {
    required {                                        %     if (required == 1) {
      "Require publisher: " cite$ * warning$          %       warning("Require publisher: " + this.cite
      cap.period write$                               %       write(cap_period);
      cap.no.publisher format.publisher write$        %       write(format_publisher(cap_no_publisher()
    } 'skip$ if$                                      %     }
  } if$                                               %   }
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {output.school} {                            % void Entry::output_school(int required) {
  'required :=                                        %   this.required = required;
  school empty$ not {                                 %   if (! empty(this.school)) {
    cap.colon write$                                  %     write(cap_colon);
    school format.school write$                       %     write(format_school(this.school));
  } {                                                 %   } else {
    required {                                        %     if (required == 1) {
      "Require school: " cite$ * warning$             %       warning("Require publisher: " + this.cite
      cap.colon write$                                %       write(cap_colon);
      cap.no.publisher format.school write$           %       write(format_school(cap_no_publisher()));
    } 'skip$ if$                                      %     }
  } if$                                               %   }
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {output.institution} {                       % void Entry::output_institution(int required) {
  'required :=                                        %   this.required = required;
  institution empty$ not {                            %   if (! empty(this.institution)) {
    cap.colon write$                                  %     write(cap_colon);
    institution format.institution write$             %     write(format_publisher(this.institution));
  } {                                                 %   } else {
    required {                                        %     if (required == 1) {
      "Require institution: " cite$ * warning$        %       warning("Require institution: " + this.ci
```

```
      cap.colon write$                             %       write(cap_colon);
      cap.no.publisher format.institution write$   %       write(format_institution(cap_no_publisher
    } 'skip$ if$                                   %     }
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {output.year} {                           % void Entry::output_year(int required) {
  'required :=                                     %   this.required = required;
  year empty$ not {                                %   if (! empty(this.year)) {
    year format.year write$                        %     write(format_year(this.year));
  } {                                              %   } else {
    required {                                     %     if (required == 1) {
      "Require year: " cite$ * warning$            %       warning("Require year: " + this.cite);
    } 'skip$ if$                                   %     }
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {output.pages} {                          % void Entry::output_pages(int required) {
  'required :=                                     %   this.required = required;
  pages empty$ not {                               %   if (! empty(this.pages)) {
    cap.colon write$                               %     write(cap_colon);
    get.pages format.pages write$                  %     write(format_pages(get_pages()));
  } {                                              %   } else {
    required {                                     %     if (required == 1) {
      "Require pages: " cite$ * warning$           %       warning("Require pages: " + this.cite);
    } 'skip$ if$                                   %     }
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {output.modifydate} {                     % void Entry::output_modifydate(int required) {
  'required :=                                     %   this.required = required;
  modifydate empty$ not {                          %   if (! empty(this.modifydate)) {
    cap.space write$                               %     write(cap_space);
    modifydate format.modifydate write$            %     write(format_modifydate(this.modifydate));
  } {                                              %   } else {
    required {                                     %     if (required == 1) {
      "Require modifydate: " cite$ * warning$      %       warning("Require modifydate: " + this.cit
    } 'skip$ if$                                   %     }
  } if$                                            %   }
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {output.citedate} {                       % void Entry::output_citedate(int required) {
```

```
  'required :=                                 %   this.required = required;
  citedate empty$ not {                        %   if (! empty(this.citedate)) {
    cap.space write$                           %     write(cap_space);
    citedate format.citedate write$            %     write(format_citedate(this.citedate));
  } {                                          %   } else {
    required is.online or {                    %     if ((required == 1) || (is_online())) {
      "Require citedate: " cite$ * warning$    %       warning("Require citedate: " + this.cite)
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
                                               %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                               %
FUNCTION {output.date} {                       % void Entry::output_date(int required) {
  'required :=                                 %   this.required = required;
  date empty$ not {                            %   if (! empty(this.date)) {
    date format.date write$                    %     write(format_date(this.date));
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require date: " cite$ * warning$        %       warning("Require date: " + this.cite);
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
                                               %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                               %
FUNCTION {output.volume} {                     % void Entry::output_volume(int required) {
  'required :=                                 %   this.required = required;
  volume empty$ not {                          %   if (! empty(this.volume)) {
    cap.comma write$                           %     write(cap_comma);
    volume format.volume write$                %     write(format_volume(this.volume));
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require volume: " cite$ * warning$      %       warning("Require volume: " + this.cite);
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
                                               %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                               %
FUNCTION {output.number} {                     % void Entry::output_number(int required) {
  'required :=                                 %   this.required = required;
  number empty$ not {                          %   if (! empty(this.number)) {
    number format.number write$                %     write(format_number(this.number));
  } {                                          %   } else {
    required {                                 %     if (required == 1) {
      "Require number: " cite$ * warning$      %       warning("Require number: " + this.cite);
    } 'skip$ if$                               %     }
  } if$                                        %   }
}                                              % }
```

```
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {output.report.number} {                   % void Entry::output_report_number(int required)
  'required :=                                      %   this.required = required;
  number empty$ not {                               %   if (! empty(this.number)) {
    cap.colon write$                                %     write(cap_colon);
    number format.report.number write$              %     write(format_report_number(this.number));
  } {                                               %   } else {
    required {                                      %     if (required == 1) {
      "Require number: " cite$ * warning$           %       warning("Require number: " + this.cite);
    } 'skip$ if$                                    %     }
  } if$                                             %   }
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {output.country} {                         % void Entry::output_country(int required) {
  'required :=                                      %   this.required = required;
  country empty$ not {                              %   if (! empty(this.country)) {
    cap.colon write$                                %     write(cap_colon);
    country format.country write$                   %     write(format_country(this.country));
  } {                                               %   } else {
    required {                                      %     if (required == 1) {
      "Require country: " cite$ * warning$          %       warning("Require country: " + this.cite);
    } 'skip$ if$                                    %     }
  } if$                                             %   }
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {output.patentid} {                        % void Entry::output_patentid(int required) {
  'required :=                                      %   this.required = required;
  patentid empty$ not {                             %   if (! empty(this.patentid)) {
    cap.comma write$                                %     write(cap_comma);
    patentid format.patentid write$                 %     write(format_patentid(this.patentid));
  } {                                               %   } else {
    required {                                      %     if (required == 1) {
      "Require patentid: " cite$ * warning$         %       warning("Require patentid: " + this.cite)
    } 'skip$ if$                                    %     }
  } if$                                             %   }
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {output.start.year} {                      % void Entry::output_start_year(int required) {
  'required :=                                      %   this.required = required;
  year empty$ not {                                 %   if (! empty(this.year)) {
    year extract.before.first.dash                  %     String str = extract_before_first_dash(this
    format.year write$                              %     write(format_year(str));
```

```
  } {                                        %   } else {
    required {                               %     if (required == 1) {
      "Require year: " cite$ * warning$      %       warning("Require year: " + this.cite);
    } 'skip$ if$                             %     }
  } if$                                      %   }
}                                            % }
                                             %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                             %
FUNCTION {output.start.volume} {             % void Entry::output_start_volume(int required) {
  'required :=                               %   this.required = required;
  volume empty$ not {                        %   if (! empty(this.volume)) {
    cap.comma write$                         %     write(cap_comma);
    volume extract.before.first.dash         %     String str = extract_before_first_dash(this
    format.volume write$                     %     write(format_volume(str));
  } {                                        %   } else {
    required {                               %     if (required == 1) {
      "Require volume: " cite$ * warning$    %       warning("Require volume: " + this.cite);
    } 'skip$ if$                             %     }
  } if$                                      %   }
}                                            % }
                                             %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                             %
FUNCTION {output.start.number} {             % void Entry::output_start_number(int required) {
  'required :=                               %   this.required = required;
  number empty$ not {                        %   if (! empty(this.number)) {
    number extract.before.first.dash         %     String str = extract_before_first_dash(this
    format.number write$                     %     write(format_number(str));
  } {                                        %   } else {
    required {                               %     if (required == 1) {
      "Require number: " cite$ * warning$    %       warning("Require number: " + this.cite);
    } 'skip$ if$                             %     }
  } if$                                      %   }
}                                            % }
                                             %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                             %
FUNCTION {output.end.year} {                 % void Entry::output_end_year(int required) {
  'required :=                               %   this.required = required;
  year empty$ not {                          %   if (! empty(this.year)) {
    year extract.after.last.dash             %     String str = extract_after_last_dash(this.y
    format.year write$                       %     write(format_year(str));
  } {                                        %   } else {
    required {                               %     if (required == 1) {
      "Require year: " cite$ * warning$      %       warning("Require year: " + this.cite);
    } 'skip$ if$                             %     }
  } if$                                      %   }
}                                            % }
                                             %
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.end.volume} {                    % void Entry::output_end_volume(int required) {
  'required :=                                    %   this.required = required;
  volume empty$ not {                             %   if (! empty(this.volume)) {
    cap.comma write$                              %     write(cap_comma);
    volume extract.after.last.dash                %     String str = extract_after_last_dash(this.v
    format.volume write$                          %     write(format_volume(str));
  } {                                             %   } else {
    required {                                    %     if (required == 1) {
      "Require volume: " cite$ * warning$         %       warning("Require volume: " + this.cite);
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.end.number} {                    % void Entry::output_end_number(int required) {
  'required :=                                    %   this.required = required;
  number empty$ not {                             %   if (! empty(this.number)) {
    number extract.after.last.dash                %     String str = extract_after_last_dash(this.n
    format.number write$                          %     write(format_number(str));
  } {                                             %   } else {
    required {                                    %     if (required == 1) {
      "Require number: " cite$ * warning$         %       warning("Require number: " + this.cite);
    } 'skip$ if$                                  %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {output.url.or.doi} {                    % void Entry::output_url_or_doi(int required) {
  'required :=                                    %   this.required = required;
  url empty$ not {                                %   if (! empty(this.url)) {
    cap.period write$                             %     write(cap_period);
    url format.url write$                         %     write(format_url(this.url));
  } {                                             %   } else {
    doi empty$ not {                              %     if (! empty(this.doi)) {
      cap.period write$                           %       write(cap_period);
      cap.doi.url doi * format.url write$         %       write(format_url(cap_doi_url + this.doi))
    } {                                           %     } else {
      required {                                  %       if (required == 1) {
        "Require URL or DOI: " cite$ * warning$   %         warning("Require URL or DOI: " + this.c
      } 'skip$ if$                                %       }
    } if$                                         %     }
  } if$                                           %   }
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
```

```
FUNCTION {output.url} {                              % void Entry::output_url(int required) {
  'required :=                                       %   this.required = required;
  url empty$ not {                                   %   if (! empty(this.url)) {
    cap.period write$                                %     write(cap_period);
    url format.url write$                            %     write(format_url(this.url));
  } {                                                %   } else {
    required {                                       %     if (required == 1) {
      "Require URL: " cite$ * warning$               %        warning("Require URL: " + this.cite);
    } 'skip$ if$                                     %     }
  } if$                                              %   }
}                                                    % }
                                                     %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                     %
FUNCTION {output.version} {                          % void Entry::output_version(int required) {
  'required :=                                       %   this.required = required;
  version empty$ not {                               %   if (! empty(this.version)) {
    cap.period write$                                %     write(cap_period);
    version format.version write$                    %     write(format_version(this.version));
  } {                                                %   } else {
    required {                                       %     if (required == 1) {
      "Require version: " cite$ * warning$           %       warning("Require version: " + this.cite);
    } 'skip$ if$                                     %     }
  } if$                                              %   }
}                                                    % }
                                                     %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                     %
FUNCTION {book.impl} {                               % void Entry::book_impl() {
  start.bibitem                                      %   start_bibitem();
  true output.author.or.editor                       %   output_author_or_editor(true);
  true output.series.volume.title                    %   output_series_volume_title(true);
  true output.mark                                   %   output_mark(true);
  false output.translator                            %   output_translator(false);
  false output.edition                               %   output_edition(false);
  publisher empty$ not {                             %   if (! empty(this.publisher)) {
    true output.address                              %     output_address(true);
    true output.publisher                            %     output_publisher(true);
    cap.comma write$                                 %     write(cap_comma);
  } {                                                %   } else {
    cap.period write$                                %     write(cap_period);
  } if$                                              %   }
  true output.year                                   %   output_year(true);
  false output.pages                                 %   output_pages(false);
  false output.citedate                              %   output_citedate(false);
  false output.url.or.doi                            %   output_url_or_doi(false);
  end.bibitem                                        %   end_bibitem();
}                                                    % }
                                                     %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
                                                  %
FUNCTION {book} {                                 % void Entry::book() {
  "M" set.mark                                    %   set_mark("M");
  book.impl                                       %   book_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {collection} {                           % void Entry::collection() {
  "G" set.mark                                    %   set_mark("G");
  book.impl                                       %   book_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {proceedings} {                          % void Entry::proceedings() {
  "C" set.mark                                    %   set_mark("C");
  start.bibitem                                   %   start_bibitem();
  true output.editor                              %   output_editor(true);
  true output.series.volume.title                 %   output_series_volume_title(true);
  true output.mark                                %   output_mark(true);
  false output.translator                         %   output_translator(false);
  false output.edition                            %   output_edition(false);
  publisher empty$ not {                          %   if (! empty(this.publisher)) {
    true output.address                           %     output_address(true);
    true output.publisher                         %     output_publisher(true);
    cap.comma write$                              %     write(cap_comma);
  } {                                             %   } else {
    cap.period write$                             %     write(cap_period);
  } if$                                           %   }
  true output.year                                %   output_year(true);
  false output.pages                              %   output_pages(false);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {conference} {                           % void Entry::conference() {
  proceedings                                     %   proceedings();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {thesis.impl} {                          % void Entry::thesis_impl() {
  start.bibitem                                   %   start_bibitem();
  true output.author                              %   output_author(true);
  true output.title                               %   output_title(true);
  true output.mark                                %   output_mark(true);
```

```
  false output.translator                         %   output_translator(false);
  true output.address                             %   output_address(true);
  true output.school                              %   output_school(true);
  cap.comma write$                                %   write(cap_comma);
  true output.year                                %   output_year(true);
  false output.pages                              %   output_pages(false);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {phdthesis} {                            % void Entry::phdthesis() {
  "D" set.mark                                    %   set_mark("D");
  thesis.impl                                     %   thesis_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

⟨*bst⟩
                                                  %
FUNCTION {masterthesis} {                         % void Entry::masterthesis() {
  "D" set.mark                                    %   set_mark("D");
  thesis.impl                                     %   thesis_impl();
}                                                 % }
                                                  %
⟨/bst⟩
```

此处添加 mastersthesis Entry

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {mastersthesis} {                        % void Entry::mastersthesis() {
  "D" set.mark                                    %   set_mark("D");
  thesis.impl                                     %   thesis_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {bachelorthesis} {                       % void Entry::bachelorthesis() {
  "D" set.mark                                    %   set_mark("D");
  thesis.impl                                     %   thesis_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {techreport} {                           % void Entry::techreport() {
  "R" set.mark                                    %   set_mark("R");
  start.bibitem                                   %   start_bibitem();
  true output.author                              %   output_author(true);
  true output.title                               %   output_title(true);
```

```
  false output.report.number                      %   output_report_number(false);
  true output.mark                                %   output_mark(true);
  false output.translator                         %   output_translator(false);
  false output.edition                            %   output_edition(false);
  false output.version                            %   output_version(false);
  institution empty$ not {                        %   if (! empty(this.institution)) {
    true output.address                           %     output_address(true);
    true output.institution                       %     output_institution(true);
    cap.comma write$                              %     write(cap_comma);
  } {                                             %   } else {
    cap.period write$                             %     write(cap_period);
  } if$                                           %   }
  true output.year                                %   output_year(true);
  false output.pages                              %   output_pages(false);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {standard} {                             % void Entry::standard() {
  "S" set.mark                                    %   set_mark("S");
  start.bibitem                                   %   start_bibitem();
  true output.author                              %   output_author(true);
  true output.title                               %   output_title(true);
  true output.mark                                %   output_mark(true);
  false output.translator                         %   output_translator(false);
  false output.edition                            %   output_edition(false);
  publisher empty$ not {                          %   if (! empty(this.publisher)) {
    true output.address                           %     output_address(true);
    true output.publisher                         %     output_publisher(true);
    cap.comma write$                              %     write(cap_comma);
  } {                                             %   } else {
    cap.period write$                             %     write(cap_period);
  } if$                                           %   }
  true output.year                                %   output_year(true);
  false output.pages                              %   output_pages(false);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {reference} {                            % void Entry::reference() {
  "K" set.mark                                    %   set_mark("K");
  start.bibitem                                   %   start_bibitem();
  false output.author.or.editor                   %   output_author_or_editor(false);
  true output.series.volume.title                 %   output_series_volume_title(true);
```

```
  true output.mark                                 %   output_mark(true);
  false output.translator                          %   output_translator(false);
  false output.edition                             %   output_edition(false);
  publisher empty$ not {                           %   if (! empty(this.publisher)) {
    true output.address                            %     output_address(true);
    true output.publisher                          %     output_publisher(true);
    cap.comma write$                               %     write(cap_comma);
  } {                                              %   } else {
    cap.period write$                              %     write(cap_period);
  } if$                                            %   }
  true output.year                                 %   output_year(true);
  false output.pages                               %   output_pages(false);
  false output.citedate                            %   output_citedate(false);
  false output.url.or.doi                          %   output_url_or_doi(false);
  end.bibitem                                      %   end_bibitem();
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {manual} {                                % void Entry::manual() {
  reference                                        %   reference();
}                                                  % }
                                                   %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                   %
FUNCTION {periodical.impl} {                       % void Entry::periodical_impl() {
  start.bibitem                                    %   start_bibitem();
  false output.editor                              %   output_editor(false);
  true output.title                                %   output_title(true);
  true output.mark                                 %   output_mark(true);
  cap.period write$                                %   write(cap_period);
  true output.start.year                           %   output_start_year(true);
  false output.start.volume                        %   output_start_volume(false);
  false output.start.number                        %   output_start_number(false);
  cap.dash write$                                  %   write(cap_dash);
  year contain.dash {                              %   if (contain_dash(this.year)) {
    true output.end.year                           %     output_end_year(true);
    false output.end.volume                        %     output_end_volume(false);
    false output.end.number                        %     output_end_number(false);
  } 'skip$ if$                                     %   }
  publisher empty$ not {                           %   if (! empty(this.publisher)) {
    true output.address                            %     output_address(true);
    true output.publisher                          %     output_publisher(true);
    cap.comma write$                               %     write(cap_comma);
  } {                                              %   } else {
    cap.period write$                              %     write(cap_period);
  } if$                                            %   }
  true output.start.year                           %   output_start_year(true);
  cap.dash write$                                  %   write(cap_dash);
  year contain.dash {                              %   if (contain_dash(this.year)) {
```

```
    true output.end.year                          %     output_end_year(true);
  } 'skip$ if$                                    %   }
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {periodical} {                           % void Entry::periodical() {
  "J" set.mark                                    %   set_mark("J");
  periodical.impl                                 %   periodical_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {newspaper} {                            % void Entry::newspaper() {
  "N" set.mark                                    %   set_mark("N");
  periodical.impl                                 %   periodical_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {patent} {                               % void Entry::patent() {
  "P" set.mark                                    %   set_mark("P");
  start.bibitem                                   %   start_bibitem();
  true output.author                              %   output_author(true);
  true output.title                               %   output_title(true);
  true output.country                             %   output_country(true);
  true output.patentid                            %   output_patentid(true);
  true output.mark                                %   output_mark(true);
  cap.period write$                               %   write(cap_period);
  true output.date                                %   output_date(true);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {online} {                               % void Entry::online() {
  "EB" set.mark                                   %   set_mark("EB");
  start.bibitem                                   %   start_bibitem();
  false output.author                             %   output_author(false);
  true output.title                               %   output_title(true);
  true output.mark                                %   output_mark(true);
  publisher empty$ not {                          %   if (! empty(this.publisher)) {
    address empty$ not {                          %     if (! empty(this.address)) {
      true output.address                         %       output_address(true);
      true output.publisher                       %       output_publisher(true);
```

```
      cap.comma write$                                   %       write(cap_comma);
    } {                                                  %     } else {
      true output.publisher.no.address                   %       output_publisher_no_address(true);
      cap.comma write$                                   %       write(cap_comma);
    } if$                                                %     }
  } {                                                    %   } else {
    cap.period write$                                    %     write(cap_period);
  } if$                                                  %   }
  true output.year                                       %   output_year(true);
  false output.modifydate                                %   output_modifydate(false);
  true output.citedate                                   %   output_citedate(true);
  true output.url                                        %   output_url(true);
  end.bibitem                                            %   end_bibitem();
}                                                        % }
                                                         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                         %
FUNCTION {webpage} {                                     % void Entry::online() {
  online                                                 %   online();
}                                                        % }
                                                         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                         %
FUNCTION {program.impl} {                                % void Entry::program_impl() {
  start.bibitem                                          %   start_bibitem();
  false output.author                                    %   output_author(false);
  true output.title                                      %   output_title(true);
  true output.mark                                       %   output_mark(true);
  publisher empty$ not {                                 %   if (! empty(this.publisher)) {
    true output.address                                  %     output_address(true);
    true output.publisher                                %     output_publisher(true);
    cap.comma write$                                     %     write(cap_comma);
  } {                                                    %   } else {
    cap.period write$                                    %     write(cap_period);
  } if$                                                  %   }
  true output.year                                       %   output_year(true);
  false output.citedate                                  %   output_citedate(false);
  false output.url.or.doi                                %   output_url_or_doi(false);
  end.bibitem                                            %   end_bibitem();
}                                                        % }
                                                         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                         %
FUNCTION {program} {                                     % void Entry::program() {
  "CP" set.mark                                          %   set_mark("CP");
  program.impl                                           %   program_impl();
}                                                        % }
                                                         %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                         %
```

```
FUNCTION {database} {                             % void Entry::database() {
  "DB" set.mark                                   %   set_mark("DB");
  program.impl                                    %   program_impl();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {unpublished} {                          % void Entry::unpublished() {
  "H" set.mark                                    %   set_mark("H");
  start.bibitem                                   %   start_bibitem();
  true output.author                              %   output_author(true);
  true output.title                               %   output_title(true);
  true output.mark                                %   output_mark(true);
  cap.period write$                               %   write(cap_period);
  true output.year                                %   output_year(true);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {manuscript} {                           % void Entry::manuscript() {
  unpublished                                     %   unpublished();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {inbook.impl} {                          % void Entry::inbook_impl() {
  start.bibitem                                   %   start_bibitem();
  true output.author                              %   output_author(true);
  true output.title                               %   output_title(true);
  true output.mark                                %   output_mark(true);
  false output.translator                         %   output_translator(false);
  cap.double.slash write$                         %   write(cap_double_slash);
  false output.editor                             %   output_editor(false);
  true output.series.volume.booktitle             %   output_series_volume_booktitle(true);
  false output.edition                            %   output_edition(false);
  publisher empty$ not {                          %   if (! empty(this.publisher)) {
    true output.address                           %     output_address(true);
    true output.publisher                         %     output_publisher(true);
    cap.comma write$                              %     write(cap_comma);
  } {                                             %   } else {
    cap.period write$                             %     write(cap_period);
  } if$                                           %   }
  true output.year                                %   output_year(true);
  false output.pages                              %   output_pages(false);
  false output.citedate                           %   output_citedate(false);
  false output.url.or.doi                         %   output_url_or_doi(false);
  end.bibitem                                     %   end_bibitem();
```

```
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
⟨*shenzhenbst⟩
                                                      %
FUNCTION {inproceedings.impl} {                       % void Entry::inproceedings_impl() {
  start.bibitem                                       %   start_bibitem();
  true output.author                                  %   output_author(true);
  true output.title                                   %   output_title(true);
  true output.mark                                    %   output_mark(true);
  false output.translator                             %   output_translator(false);
  cap.double.slash write$                             %   write(cap_double_slash);
  false output.editor                                 %   output_editor(false);
  true output.series.volume.booktitle                 %   output_series_volume_booktitle(true);
  false output.edition                                %   output_edition(false);
  publisher empty$ not {                              %   if (! empty(this.publisher)) {
    true output.inproaddress                          %     output_inproaddress(true);
    true output.publisher                             %     output_publisher(true);
    cap.comma write$                                  %     write(cap_comma);
  } {                                                 %   } else {
    true output.inproaddress                          %     output_inproaddress(true);
    cap.comma write$                                  %     write(cap_comma);
  } if$                                               %   }
  true output.year                                    %   output_year(true);
  false output.pages                                  %   output_pages(false);
  false output.citedate                               %   output_citedate(false);
  false output.url.or.doi                             %   output_url_or_doi(false);
  end.bibitem                                         %   end_bibitem();
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
⟨/shenzhenbst⟩
                                                      %
FUNCTION {inbook} {                                   % void Entry::inbook() {
  "M" set.mark                                        %   set_mark("M");
  inbook.impl                                         %   inbook_impl();
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {incollection} {                             % void Entry::incollection() {
  "G" set.mark                                        %   set_mark("G");
  inbook.impl                                         %   inbook_impl();
}                                                     % }
                                                      %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                      %
FUNCTION {inproceedings} {                            % void Entry::inproceedings() {
  "C" set.mark                                        %   set_mark("C");
```

```
⟨shenzhenbst⟩  inproceedings.impl                      %   inproceedings_impl();
⟨bst⟩  inbook.impl                                     %   inbook_impl();
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       %
FUNCTION {article} {                                   % void Entry::article() {
  "J" set.mark                                         %   set_mark("J");
  start.bibitem                                        %   start_bibitem();
  true output.author                                   %   output_author(true);
  true output.title                                    %   output_title(true);
  true output.mark                                     %   output_mark(true);
  true output.journal                                  %   output_journal(true);
  cap.comma write$                                     %   write(cap_comma);
  true output.year                                     %   output_year(true);
  false output.volume                                  %   output_volume(false);
  false output.number                                  %   output_number(false);
  false output.pages                                   %   output_pages(false);
  false output.citedate                                %   output_citedate(false);
  false output.url.or.doi                              %   output_url_or_doi(false);
  end.bibitem                                          %   end_bibitem();
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       %
FUNCTION {news} {                                      % void Entry::news() {
  "N" set.mark                                         %   set_mark("N");
  start.bibitem                                        %   start_bibitem();
  true output.author                                   %   output_author(true);
  true output.title                                    %   output_title(true);
  true output.mark                                     %   output_mark(true);
  true output.journal                                  %   output_journal(true);
  cap.comma write$                                     %   write(cap_comma);
  true output.date                                     %   output_date(true);
  false output.number                                  %   output_number(false);
  false output.citedate                                %   output_citedate(false);
  false output.url.or.doi                              %   output_url_or_doi(false);
  end.bibitem                                          %   end_bibitem();
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       %
FUNCTION {default.type} {                              % void Entry::default_type() {
  "Unsupported entry type for " cite$ * warning$       %   warning("Unsupported entry type for " + this.
}                                                      % }
                                                       %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                       %
FUNCTION {longest.label.pass} {                        % void longest_label_pass(Entry entry) {
  entry.count #1 + 'entry.count :=                     %   entry_count = entry_count + 1;
```

```
  entry.count int.to.str$ 'label :=                 %   this.label = int_to_str(entry_count);
  label width$ longest.label.width > {              %   if (width(this.label) > longest_label_width)
    label 'longest.label :=                         %     longest_label = this.label;
    label width$ 'longest.label.width :=            %     longest_label_width = width(this.label);
  } 'skip$ if$                                      %   }
}                                                   % }
                                                    %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                    %
FUNCTION {write.style.commands} {                   % void write_style_commands() {
  cmd.bibauthor write$                              %   write(cmd_bibauthor);
  newline$                                          %   writeln();
  cmd.bibeditor write$                              %   write(cmd_bibeditor);
  newline$                                          %   writeln();
  cmd.bibtranslator write$                          %   write(cmd_bibtranslator);
  newline$                                          %   writeln();
  cmd.bibtitle write$                               %   write(cmd_bibtitle);
  newline$                                          %   writeln();
  cmd.bibbooktitle write$                           %   write(cmd_bibbooktitle);
  newline$                                          %   writeln();
  cmd.bibjournal write$                             %   write(cmd_bibjournal);
  newline$                                          %   writeln();
  cmd.bibmark write$                                %   write(cmd_bibmark);
  newline$                                          %   writeln();
  cmd.bibcountry write$                             %   write(cmd_bibcountry);
  newline$                                          %   writeln();
  cmd.bibpatentid write$                            %   write(cmd_bibpatentid);
  newline$                                          %   writeln();
  cmd.bibedition write$                             %   write(cmd_bibedition);
  newline$                                          %   writeln();
  cmd.biborganization write$                        %   write(cmd_biborganization);
  newline$                                          %   writeln();
  cmd.bibaddress write$                             %   write(cmd_bibaddress);
  newline$                                          %   writeln();
  cmd.bibpublisher write$                           %   write(cmd_bibpublisher);
  newline$                                          %   writeln();
  cmd.bibinstitution write$                         %   write(cmd_bibinstitution);
  newline$                                          %   writeln();
  cmd.bibschool write$                              %   write(cmd_bibschool);
  newline$                                          %   writeln();
  cmd.bibvolume write$                              %   write(cmd_bibvolume);
  newline$                                          %   writeln();
  cmd.bibnumber write$                              %   write(cmd_bibnumber);
  newline$                                          %   writeln();
  cmd.bibversion write$                             %   write(cmd_bibversion);
  newline$                                          %   writeln();
  cmd.bibpages write$                               %   write(cmd_bibpages);
  newline$                                          %   writeln();
  cmd.bibmodifydate write$                          %   write(cmd_bibmodifydate);
  newline$                                          %   writeln();
```

```
  cmd.bibcitedate write$                          %   write(cmd_bibcitedate);
  newline$                                        %   writeln();
  cmd.bibyear write$                              %   write(cmd_bibyear);
  newline$                                        %   writeln();
  cmd.bibdate write$                              %   write(cmd_bibdate);
  newline$                                        %   writeln();
  cmd.biburl write$                               %   write(cmd_biburl);
  newline$                                        %   writeln();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {begin.bib} {                            % void begin_bib() {
  preamble$ empty$ not {                          %   if (! empty(premble)) {
    preamble$ write$                              %     write(premeable);
    newline$                                      %     writeln();
  } 'skip$ if$                                    %   }
  env.bibbegin write$                             %   write(env_bibbegin);
  "{" longest.label * "}" * write$                %   write("{" + longest.label + "}");
  newline$                                        %   writeln();
  write.style.commands                            %   write_style_commands();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {end.bib} {                              % void end_bib() {
  newline$                                        %   writeln();
  env.bibend write$                               %   write(env_bibend);
  newline$                                        %   writeln();
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
FUNCTION {initialize} {                           % void initialize() {
  #0 'entry.count :=                              %   entry_count = 0;
  #0 'longest.label.width :=                      %   longest_label_width = 0;
  "" 'longest.label :=                            %   longest_label = "";
}                                                 % }
                                                  %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
                                                  %
                                                  % void main() {
READ                                              %   List<Entry> entryList = read("<file>.bib");
EXECUTE {initialize}                              %   initialize();
ITERATE {longest.label.pass}                      %   for (Entry entry : entryList) {
                                                  %     longest_label_pass(entry);
                                                  %   }
EXECUTE {begin.bib}                               %   begin_bib();
ITERATE {call.type$}                              %   for (Entry entry : entryList) {
                                                  %     switch (typeof(entry)) {
```

```
                                                %     case "book":
                                                %       entry.book();
                                                %       break;
                                                %     case "article":
                                                %       entry.article();
                                                %       break;
                                                %         .
                                                %         .
                                                %         .
                                                %     case "incollection":
                                                %       entry.incollection();
                                                %       break;
                                                %     case "misc":
                                                %       entry.misc();
                                                %       break;
                                                %     default:
                                                %       entry.default_type();
                                                %     }
                                                %   }
EXECUTE {end.bib}                               %   end_bib();
                                                % }
                                                %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
⟨/bst | shenzhenbst⟩
```

我工要求的索引格式。

```
⟨*ist⟩
headings_flag 1
heading_prefix "\{\\vskip -\\baselineskip\\centering\\normalsize\\textbf\{"
heading_suffix "\}\\par\}\\nopagebreak\\wuhao\n"
delim_0 "\\hspace*{\\fill}"
delim_1 "\\hspace*{\\fill}"
⟨/ist⟩
⟨bookcls | artcls | artpluscls⟩\NeedsTeXFormat{LaTeX2e}[2023/06/01]
⟨bookcls⟩\ProvidesExplClass{hithesisbook}{2026/10/11}{v3.2a}{Harbin Institute of Technology Thesis Te
⟨artcls⟩\ProvidesExplClass{hithesisart}{2026/10/11}{v3.2a}{Harbin Institute of Technology Thesis Temp
⟨artpluscls⟩\ProvidesExplClass{hithesisartplus}{2026/10/11}{v3.2a}{Harbin Institute of Technology Thes
⟨bookcfg⟩\ProvidesExplFile{hithesisbook.cfg}{2026/10/11}{v3.2a}{Harbin Institute of Technology Thesis
⟨artcfg⟩\ProvidesExplFile{hithesisart.cfg}{2026/10/11}{v3.2a}{Harbin Institute of Technology Thesis T
⟨hithesis-style⟩\ProvidesExplPackage{hithesis}{2026/10/11}{v3.2a}{Harbin Institute of Technology Thesis

⟨*artpluscls | artcls | bookcls⟩
\RequirePackage{expl3,l3keys2e}

% Original command names remain at the document/package boundary.
\tl_const:Ne \c__hit_class_name_tl {\@currname}
\cs_new_protected:Npn \__hit_measure_width:Nn #1#2
  {
    \hbox_set:Nn \l__hit_measure_box {\color@setgroup #2\color@endgroup}
    \dim_set:Nn #1 {\box_wd:N \l__hit_measure_box}
  }
```

```
\box_new:N \l__hit_measure_box
\cs_new:Npn \__hit_month_name:n #1
  {
    \int_case:nn {#1}
      {
        {1} {January} {2} {February} {3} {March} {4} {April}
        {5} {May} {6} {June} {7} {July} {8} {August}
        {9} {September} {10} {October} {11} {November} {12} {December}
      }
  }
\cs_new_protected:Npn \__hit_bool_set_true:n #1
  {\bool_set_true:c {l__hit_#1_bool}
   \cs_set_eq:cN {ifhit@#1} \if_true:}
\cs_new_protected:Npn \__hit_bool_set_false:n #1
  {\bool_set_false:c {l__hit_#1_bool}
   \cs_set_eq:cN {ifhit@#1} \if_false:}
\cs_new_protected:Npn \__hit_bool_select:n #1
  {
    \cs_if_exist:cTF {l__hit_#1_bool}
      {\__hit_bool_set_true:n {#1}}
      {\use:c {hit@#1true}}
  }
\cs_new_protected:Npn \__hit_bool_set:nn #1#2
  {\str_if_eq:eeTF {#2} {true}
    {\__hit_bool_set_true:n {#1}} {\__hit_bool_set_false:n {#1}}}
\cs_new_protected:Npn \__hit_bool_declare:n #1
  {
    \bool_new:c {l__hit_#1_bool}
    \cs_new_eq:cN {ifhit@#1} \if_false:
    \cs_new_protected:cpn {hit@#1true}
      {\__hit_bool_set_true:n {#1}}
    \cs_new_protected:cpn {hit@#1false}
      {\__hit_bool_set_false:n {#1}}
  }
\cs_new_protected:Npn \__hit_key_define:nnn #1#2#3
  {\keys_define:nn {#1} {#2 .code:n = {#3}}}
\cs_new_protected:Npn \__hit_bool_option:nn #1#2
  {
    \__hit_bool_declare:n {#2}
    \keys_define:nn {hit}
      {
        #2 .choices:nn = {true,false}
          {\__hit_bool_set:nn {#2} {\l_keys_choice_tl}},
        #2 / unknown .code:n =
          {\ClassWarning{\c__hit_class_name_tl}
            {Value~`##1'~is~not~supported~by~option~`#2'}},
        #2 .default:n = true,
        #2 .initial:n = #1
      }
  }
```

```
\cs_new_protected:Npn \__hit_string_option_declare:n #1
  {
    \tl_new:c {l__hit_option_#1_tl}
    \cs_new:cpn {hit@#1} {\tl_use:c {l__hit_option_#1_tl}}
    \keys_define:nn {hit}
      {#1 .code:n = {\tl_set:cn {l__hit_option_#1_tl} {##1}}}
  }
\cs_new_protected:Npn \__hit_class_options_process:n #1
  {
    \keys_define:nn {hit}
      {
        unknown .code:n =
          {\exp_args:Ne \PassOptionsToClass
            {\l_keys_key_str
             \quark_if_no_value:nF {##1} {={\exp_not:n {##1}}}} {#1}}
      }
    \ProcessKeysOptions {hit}
    \keys_define:nn {hit}
      {unknown .code:n = {\msg_error:nnxx {keys} {unknown}
        {hit/\l_keys_key_str} {hit}}}
  }
\cs_new_protected:Npn \__hit_setup:nn #1#2 {\keys_set:nn {#1} {#2}}
\cs_new:Npn \__hit_bool_p:n #1 {\bool_if_p:c {l__hit_#1_bool}}
\cs_new:Npn \__hit_bool_if:nTF #1 {\bool_if:cTF {l__hit_#1_bool}}
\cs_new:Npn \__hit_bool_expr:nTF #1 {\bool_if:nTF {#1}}
\tl_new:N \l__hit_compare_a_tl
\tl_new:N \l__hit_compare_b_tl
\cs_new_protected:Npn \__hit_text_if_equal:nnTF #1#2#3#4
  {
    \group_begin:
      % Original titles contain robust LaTeX commands such as hspace.
      % Preserve them during comparison, just as ifthen's equal did.
      \protected@edef \l__hit_compare_a_tl {#1}
      \protected@edef \l__hit_compare_b_tl {#2}
      \tl_if_eq:NNTF \l__hit_compare_a_tl \l__hit_compare_b_tl
        {\group_end: #3} {\group_end: #4}
  }
\cs_new_eq:NN \__hit_engine_if_xetex:TF \sys_if_engine_xetex:TF
% Metadata is owned by token-list variables. Original hit@ names read exported
% values at the document/package boundary, retaining their non-long meaning.
\tl_const:Nn \c__hit_info_prefix_tl {hit@}
\prop_new:N \g__hit_info_exports_prop
\cs_new_protected:Npn \__hit_info_export:n #1
  {
    \cs_gset_nopar:cpe {\c__hit_info_prefix_tl #1}
      {\exp_not:v {g__hit_info_#1_tl}}
    \exp_args:NNe \prop_gput:Nnn \g__hit_info_exports_prop
      {\c__hit_info_prefix_tl #1} {g__hit_info_#1_tl}
  }
\cs_new_protected:Npn \__hit_info_set:nn #1#2
```

```
{
  \tl_if_exist:cF {g__hit_info_#1_tl}
    {\tl_new:c {g__hit_info_#1_tl}}
  \tl_gset:cn {g__hit_info_#1_tl} {#2}
  \__hit_info_export:n {#1}
}
\cs_new_protected:Npn \__hit_info_define:nn #1#2
{
  \cs_gset_nopar:cpn {#1} ##1
    {\__hit_info_set:nn {#2} {##1}}
  \use:c {#1} {}
}
\cs_new_protected:Npn \__hit_info_declare:n #1
{
  \keys_define:nn {hit}
    {#1 .code:n = {\use:c {#1} {##1}}}
  \__hit_info_define:nn {#1} {#1}
}
% Fixed vocabulary follows the declaration-table refactor from ee0fa6b.
% The family is internal; the public flat hitsetup key set is unchanged.
\prop_new:N \g__hit_terms_prop
\tl_new:N \l__hit_term_scope_tl
\cs_new_protected:Npn \__hit_term_store:nn #1#2
{
  \str_case:Vn \l__hit_term_scope_tl
    {
      {global}
        {\prop_gput:Nnn \g__hit_terms_prop {#1} {#2}
         \cs_gset_nopar:cpn {hit@#1} {#2}}
      {global-long}
        {\prop_gput:Nnn \g__hit_terms_prop {#1} {#2}
         \cs_gset:cpn {hit@#1} {#2}}
      {local}
        {\prop_put:Nnn \g__hit_terms_prop {#1} {#2}
         \cs_set_nopar:cpn {hit@#1} {#2}}
      {local-long}
        {\prop_put:Nnn \g__hit_terms_prop {#1} {#2}
         \cs_set:cpn {hit@#1} {#2}}
      {new}
        {\prop_put:Nnn \g__hit_terms_prop {#1} {#2}
         \cs_new:cpn {hit@#1} {#2}}
      {new-nopar}
        {\prop_put:Nnn \g__hit_terms_prop {#1} {#2}
         \cs_new_nopar:cpn {hit@#1} {#2}}
    }
}
\keys_define:nn {hit/internal/terms}
{
  unknown .code:n =
    {\exp_args:NV \__hit_term_store:nn \l_keys_key_str {#1}}
```

```
  }
\cs_new_protected:Npn \__hit_terms_set:nn #1#2
  {
    \tl_set:Nn \l__hit_term_scope_tl {#1}
    \keys_set:nn {hit/internal/terms} {#2}
  }
\cs_new:Npn \__hit_term:n #1
  {\exp_args:Ne \use:n {\prop_item:Nn \g__hit_terms_prop {#1}}}
\seq_new:N \l__hit_keywords_seq
\tl_new:N \l__hit_keywords_input_tl
\cs_new_protected:Npn \__hit_keywords_join:NNnnn #1#2#3#4#5
  {
    \seq_set_split_keep_spaces:Nnn #1 {,} {#4}
    \seq_map_inline:Nn #1
      {
        \tl_if_empty:NF #2 {\tl_gput_right:Nn #2 {#3}}
        \bool_if:nTF {#5}
          {\tl_gput_right:Ne #2 {\tl_trim_spaces:n {##1}}}
          {\tl_gput_right:Nn #2 {##1}}
      }
  }
\cs_generate_variant:Nn \__hit_keywords_join:NNnnn {Nc, NcnV, NcV}
\cs_new_protected:Npn \__hit_keywords_append:nn #1#2
  {
    \tl_set:No \l__hit_keywords_input_tl {#2}
    \tl_if_empty:NF \l__hit_keywords_input_tl
      {
        \__hit_keywords_join:NcnVn
          \l__hit_keywords_seq {g__hit_info_#1_tl}
          {\ignorespaces\use:c {hit@#1@separator}}
          \l__hit_keywords_input_tl {\c_false_bool}
      }
    \__hit_info_export:n {#1}
  }
\cs_new_protected:Npn \__hit_keywords_declare:n #1
  {
    \keys_define:nn {hit} {#1 .code:n = {\use:c {#1} {##1}}}
    \tl_new:c {g__hit_info_#1_tl}
    \__hit_info_export:n {#1}
    \cs_gset_nopar:cpn {#1} ##1 {\__hit_keywords_append:nn {#1} {##1}}
  }
% Apply the shared-hyperlink wiseref setup using the original class names/terms.
\cs_new:Npn \__hit_wiseref_gap:
  {\cs_if_exist:cT {l__hit_english_bool}
     {\bool_if:cT {l__hit_english_bool} {\nobreakspace}}}
\cs_new:Npn \__hit_wiseref_algorithm_name:
  {\cs_if_exist:NTF \algorithmcfname {\algorithmcfname}
    {\cs_if_exist:cTF {l__hit_english_bool}
      {\bool_if:cTF {l__hit_english_bool} {Algorithm} {算法}} {算法}}}
\cs_new:Npn \__hit_wiseref_listing_name:
```

```
  {\cs_if_exist:NTF \lstlistingname {\lstlistingname}
    {\cs_if_exist:cTF {l__hit_english_bool}
      {\bool_if:cTF {l__hit_english_bool} {Listing} {代码}} {代码}}}
\cs_new_protected:Npn \__hit_wiseref_setup:
  {
    \RequirePackage {wiseref} [2026/10/10]
    \cs_if_exist:cTF {l__hit_english_bool}
      {\wiserefsetup{lang={\bool_if:cTF{l__hit_english_bool}{en}{zh}}}}
      {\wiserefsetup{lang=zh}}
    \wiserefsetup{
      figure={prefix={\figurename\__hit_wiseref_gap:},suffix={}},
      subfigure={prefix={\figurename\__hit_wiseref_gap:},suffix={}},
      table={prefix={\tablename\__hit_wiseref_gap:},suffix={}},
      subtable={prefix={\tablename\__hit_wiseref_gap:},suffix={}},
      appendix={prefix={\appendixname\__hit_wiseref_gap:},suffix={}},
      algocf={prefix={\__hit_wiseref_algorithm_name:\__hit_wiseref_gap:},suffix={}},
      lstlisting={prefix={\__hit_wiseref_listing_name:\__hit_wiseref_gap:},suffix={}}
    }
    \cs_if_exist:NTF \equationname
      {\wiserefsetup{equation={prefix={\equationname\__hit_wiseref_gap:},suffix={},
        number-format={\textup{(##1)}}}}}
      {\wiserefsetup{equation={prefix={式},suffix={},number-format={\textup{(##1)}}}}}
  }
\AddToHook {class/hithesisbook/after} [hithesis/wiseref] {\__hit_wiseref_setup:}
\AddToHook {class/hithesisart/after} [hithesis/wiseref] {\__hit_wiseref_setup:}
\AddToHook {class/hithesisartplus/after} [hithesis/wiseref] {\__hit_wiseref_setup:}

⟨/artpluscls | artcls | bookcls⟩
```

TikZ 裸输入与 etoolbox 宏体重扫描集中使用普通 catcode；模板主体保持 expl3。

```
⟨artpluscls | bookcls⟩\ExplSyntaxOff
⟨*artpluscls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@a{\ExplSyntaxOff
\usetikzlibrary{calc}
\ExplSyntaxOn}
⟨/artpluscls⟩
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@b{\ExplSyntaxOff
\patchcmd{\NAT@citexnum}{\def@NAT@last@yr{-\NAT@penalty}}
 {%
 \ifx\NAT@last@yr\relax
 \def@NAT@last@yr{\@citea}%
 \else
 \def@NAT@last@yr{-\NAT@penalty}%
 \fi
 }%
 {\typeout{Use comma between neighboring citations}}%
 {\ClassError{hithesisbook}{fail to patch \NAT@citexnum}{}}
\ExplSyntaxOn}
⟨/bookcls⟩
```

```
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@c{\ExplSyntaxOff
\pretocmd{\@makefntext}{\let\@makefnmark\hit@@makefnmark}{}{}
\ExplSyntaxOn}
⟨/bookcls⟩
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@d{\ExplSyntaxOff
\apptocmd{\@makefntext}{\let\@makefnmark\hit@makefnmark}{}{}
\ExplSyntaxOn}
⟨/bookcls⟩
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@e{\ExplSyntaxOff
\patchcmd{\@dottedtocline}{##4}{\csname hit@toc@font\endcsname ##4}{}{}
\ExplSyntaxOn}
⟨/bookcls⟩
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@f{\ExplSyntaxOff
\patchcmd{\@dottedtocline}{\hb@xt@\@pnumwidth}{\hbox}{}{}
\ExplSyntaxOn}
⟨/bookcls⟩
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@g{\ExplSyntaxOff
\patchcmd\NAT@citexnum{%
  \@ifnum{\NAT@ctype=\z@}{%
    \if*##2*\else\NAT@cmt##2\fi
  }{}%
  \NAT@mbox{\NAT@@close}%
}{%
  \NAT@mbox{\NAT@@close}%
  \@ifnum{\NAT@ctype=\z@}{%
    \if*##2*\else\textsuperscript{##2}\fi
  }{}%
}{}{}
\ExplSyntaxOn}
⟨/bookcls⟩
⟨*bookcls⟩
\csname cs_new_protected:Npn\endcsname \hit@legacy@patch@h{\ExplSyntaxOff
\patchcmd{\NAT@citex}{%
  \if*##2*\else\NAT@cmt##2\fi
  \if\relax\NAT@date\relax\else\NAT@@close\fi
}{%
  \if\relax\NAT@date\relax\else\NAT@@close\fi
  \if*##2*\else\textsuperscript{##2}\fi
}{}{}
\ExplSyntaxOn}
⟨/bookcls⟩
⟨artpluscls | bookcls⟩\ExplSyntaxOn
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% artpluscls
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

⟨*artpluscls⟩

处理文档类选项

```
%% 处理文档类选项
\__hit_bool_declare:n{bachelor}
\__hit_bool_declare:n{master}
\__hit_bool_declare:n{doctor}
\__hit_key_define:nnn{hit}{type}{%
 \__hit_bool_set_false:n {bachelor}
 \__hit_bool_set_false:n {master}
 \__hit_bool_set_false:n {doctor}
 \__hit_bool_select:n {#1}
}

\__hit_bool_declare:n{shenzhen}
\__hit_bool_declare:n{weihai}
\__hit_bool_declare:n{harbin}
\__hit_key_define:nnn{hit}{campus}{%
 \__hit_bool_set_false:n {shenzhen}
 \__hit_bool_set_false:n {weihai}
 \__hit_bool_set_false:n {harbin}
 \__hit_bool_select:n {#1}
}
\bool_if:cTF {l__hit_weihai_bool} {\relax} {
 \bool_if:cTF {l__hit_shenzhen_bool} {\relax} {
 \__hit_bool_set_true:n {harbin}
 }
}

\__hit_bool_declare:n{opening}
\__hit_bool_declare:n{midterm}
\__hit_key_define:nnn{hit}{stage}{%
 \__hit_bool_set_false:n {opening}
 \__hit_bool_set_false:n {midterm}
 \__hit_bool_select:n {#1}
}


\bool_new:N \g_bib_authorupper_bool
\bool_set_false:N \g_bib_authorupper_bool
\__hit_key_define:nnn{hit}{bibauthorupper}{%
  \str_if_eq:nnT {#1} {full} {
    \bool_set_true:N \g_bib_authorupper_bool
  }
}

\int_new:N \g_bib_maxauthor_int
\int_set:Nn \g_bib_maxauthor_int {3}
\__hit_key_define:nnn{hit}{bibmaxauthor}{%
```

```
  \int_set:Nn \g_bib_maxauthor_int {#1}
  \int_if_zero:nT {\g_bib_maxauthor_int} {
    \int_gdecr:N \g_bib_maxauthor_int
  }
}

\str_new:N \g_bib_labelalign_str
\__hit_key_define:nnn{hit}{biblabelalign}{%
  \str_set:Nn \g_bib_labelalign_str {#1}
}


\__hit_string_option_declare:n{fontset}
\PassOptionsToPackage{no-math}{fontspec}

\__hit_class_options_process:n{ctexart}

\bool_if:cTF {l__hit_bachelor_bool} {\relax} {
 \bool_if:cTF {l__hit_master_bool} {\relax} {
 \bool_if:cTF {l__hit_doctor_bool} {\relax} {
 \ClassError{hithesisartplus}{%
 \MessageBreak Please~specify~thesis~type~in~option:~
 \MessageBreak type=[bachelor~|~master~|~doctor]~
 }~
 }
 }
}

\bool_if:cTF {l__hit_opening_bool} {\relax} {
 \bool_if:cTF {l__hit_midterm_bool} {\relax} {
 \ClassError{hithesisartplus}{%
 \MessageBreak Please~specify~stage~in~option:~
 \MessageBreak stage=<opening|midterm>~
 }~
 }
}

\bool_if:cTF {l__hit_doctor_bool} {
 \bool_if:cTF {l__hit_midterm_bool} {
 \bool_if:cTF {l__hit_shenzhen_bool} {
 \relax
 } {
 \ClassError{hithesisartplus}{%
 \MessageBreak This~document~class~only~support~midterm~report~for~doctor~
 in~shenzhen~campus~
 }~
 }
 } {
 \ClassError{hithesisartplus}{%
 \MessageBreak This~document~class~only~support~midterm~report~for~doctor~
```

```
in~shenzhen~campus~
}~
}
} {
\ClassError{hithesisartplus}{%
\MessageBreak This~document~class~only~support~midterm~report~for~doctor~
in~shenzhen~campus~
}~
}

\RequirePackage{ifthen}
\__hit_text_if_equal:nnTF{\hit@fontset}{}%
{%
\PassOptionsToPackage{AutoFakeBold=2}{xeCJK}~
}%
{%
\__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
{\relax}%
{%
\PassOptionsToPackage{AutoFakeBold=2}{xeCJK}~
}%
\PassOptionsToClass{fontset=\hit@fontset}{ctexart}~
}%
\LoadClass[a4paper,UTF8,zihao=-4,scheme=plain]{ctexart}
```

各种宏包

```

%% 各种宏包
\RequirePackage{etoolbox}
\RequirePackage{ifxetex}
\__hit_engine_if_xetex:TF{}{%
\ClassError{hithesis}{Please~use:~\MessageBreak xelatex}~
}
\RequirePackage{xparse}

\RequirePackage{amsmath}
\RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}
\RequirePackage{amssymb}
```

删除 newtxtext，由于最新一次更新 (`revision 62369`) 中与 ctex 宏包冲突，且无法解决，将正文字体替换为 TG TermesX 与 TG Heros.

```
\setmainfont{TeXGyreTermesX}[
UprightFont~=~*-Regular~,
BoldFont~=~*-Bold~,
ItalicFont~=~*-Italic~,
BoldItalicFont~=~*-BoldItalic~,
Extension~=~.otf~,
]
\setsansfont{texgyreheros}[
UprightFont~=~*-regular~,
BoldFont~=~*-bold~,
```

```
ItalicFont~=~*-italic~,
BoldItalicFont~=~*-bolditalic~,
Extension~=~.otf~,
]
```

删除 courier，将 mono 字体替换为 TG Cursor，至此将正文字体全面替换为 OpenType.

```
\setmonofont{texgyrecursor}[
UprightFont~=~*-regular~,
BoldFont~=~*-bold~,
ItalicFont~=~*-italic~,
BoldItalicFont~=~*-bolditalic~,
Extension~=~.otf~,
]

\RequirePackage{graphicx}
\RequirePackage{pdfpages}
\includepdfset{fitpaper=true}
\RequirePackage{enumitem}~% 使用 enumitem 宏包，改变列表项的格式
\RequirePackage{environ}
\RequirePackage[perpage,hang]{footmisc}
```

xeCJK 包不再自动加载 xeCJKfntef

```
\RequirePackage{xeCJKfntef}
```

newtx 更新至 v1.7 版本后与 ctex 宏包冲突，需要手动引入 ⟨*nofontspec*⟩ 选项. 判断方法为是否存在 v1.7 更新后的新宏包 newtx.sty

```

\RequirePackage{longtable}
\RequirePackage{booktabs}
```

重定义 booktabs 宏包的默认线宽，绘制三线表时不再需要显式设置，以实现更好的内容与格式分离

```
\heavyrulewidth=1.5pt
\lightrulewidth=1pt
\cmidrulewidth=0.5pt

\RequirePackage[sort&compress,numbers]{natbib}
\RequirePackage{hyperref}
\hypersetup{%
CJKbookmarks=true,~
linktoc=all,~
bookmarksnumbered=true,~
bookmarksopen=true,~
bookmarksopenlevel=1,~
breaklinks=true,~
colorlinks=false,~
plainpages=false,~
pdfborder=0~0~0~
}
\urlstyle{same}

```

```
\RequirePackage{geometry}
\geometry{% 根据 PlutoThesis 原版定义而来
 a4paper,~% 210 * 297mm
 hcentering,~
 ignoreall,~
 nomarginpar,~
 centering,~
 text={150true~mm,236true~mm},~
 left=30true~mm,~
 head=5true~mm,~
 headsep=2true~mm,~
 footskip=0true~mm,~
 foot=5.2true~mm~
}

\RequirePackage{tikzpagenodes}
\RequirePackage{eso-pic}
\RequirePackage{tikz}
\hit@legacy@patch@a

\RequirePackage{fancyhdr}
\RequirePackage{tabularx}
\RequirePackage{varwidth}
\RequirePackage{changepage}
\RequirePackage{multicol}
\RequirePackage[below]{placeins}% 允许上一个 section 的浮动图形出现在下一个 section 的开始部分，还提供\FloatBarrier 命令，使所有未处理的浮动图形立即被处理
\RequirePackage{flafter}~% 使得所有浮动体不能被放置在其浮动环境之前，以免浮动体在引述它的文本之前出现.
\RequirePackage{multirow}~% 使用 Multirow 宏包，使得表格可以合并多个 row 格
\RequirePackage{subfigure}% 支持子图 %centerlast 设置最后一行是否居中
\RequirePackage[subfigure]{ccaption}~% 支持双语标题

\RequirePackage{lipsum}%random text
```

添加字号、行距等设置

```
%% 添加字号、行距等设置
\cs_set:Npn \normalsize {%
 \@setfontsize\normalsize{12bp}{15bp}%
 \abovedisplayskip=6pt~
 \abovedisplayshortskip=6pt~
 \belowdisplayskip=\abovedisplayskip
 \belowdisplayshortskip=\abovedisplayshortskip
}

\cs_new_protected:Npn \__hit_fontsize_declare:nn #1#2
  {
    \exp_args:Nc \NewDocumentCommand {#1} { O{1.3} }
      { \fontsize {#2} { ##1 \dimexpr #2 } \selectfont }
```

```
}

\__hit_fontsize_declare:nn{dachu}{58bp}
\__hit_fontsize_declare:nn{chuhao}{42bp}
\__hit_fontsize_declare:nn{xiaochu}{36bp}
\__hit_fontsize_declare:nn{yihao}{26bp}
\__hit_fontsize_declare:nn{xiaoyi}{24bp}
\__hit_fontsize_declare:nn{erhao}{22bp}
\__hit_fontsize_declare:nn{xiaoer}{18bp}
\__hit_fontsize_declare:nn{sanhao}{16bp}
\__hit_fontsize_declare:nn{xiaosan}{15bp}
\__hit_fontsize_declare:nn{sihao}{14bp}
\__hit_fontsize_declare:nn{banxiaosi}{13bp}
\__hit_fontsize_declare:nn{xiaosi}{12bp}
\__hit_fontsize_declare:nn{dawu}{11bp}
\__hit_fontsize_declare:nn{wuhao}{10.5bp}
\__hit_fontsize_declare:nn{xiaowu}{9bp}
\__hit_fontsize_declare:nn{liuhao}{7.5bp}
\__hit_fontsize_declare:nn{xiaoliu}{6.5bp}
\__hit_fontsize_declare:nn{qihao}{5.5bp}
\__hit_fontsize_declare:nn{bahao}{5bp}
```

进行字号、行距等设置

```

%% 进行字号、行距等设置
\ctexset{%
 section={~
 afterindent=true,~
 beforeskip={7.5bp},% 上下空 0.5 行
 afterskip={7.5bp},~
 format={\normalsize},~
 aftername=\enspace,~
 fixskip=true,~
 break={},~
 },~
 subsection={~
 afterindent=true,~
 beforeskip={7bp},~
 afterskip={7bp},~
 format={\normalsize},~
 aftername=\enspace,~
 fixskip=true,~
 break={},~
 },~
 subsubsection={~
 afterindent=true,~
 beforeskip={3bp},~
 afterskip={3bp},~
 format={\normalsize},~
 aftername=\enspace,~
```

```
fixskip=true,~
break={},~
},~
paragraph/afterindent=true,~
subparagraph/afterindent=true~
}

\cs_set_eq:NN \__hit_latex_section:w \section
\RenewDocumentCommand\section{s~o~m~s}{%
 \IfBooleanF{#4}{\noindent\tikz[overlay]~\draw (-5mm,0mm)~---~(155mm,0mm);}%
 \IfBooleanTF{#1}%
 {% if \section*
 \IfNoValueTF{#2}%
 {\__hit_latex_section:w*{#3}}%
 {\__hit_latex_section:w*[#2]{#3}}%
 }%
 {% if \section
 \IfNoValueTF{#2}%
 {\__hit_latex_section:w{#3}}%
 {\__hit_latex_section:w[#2]{#3}}%
 }~
}
```

中文封面

```

%% 中文封面

\__hit_info_declare:n{ctitleone}
\__hit_info_declare:n{ctitletwo}
\__hit_info_declare:n{csubject}
\__hit_info_declare:n{cauthor}
\__hit_info_declare:n{cstudentid}
\__hit_info_declare:n{cclassid}
\__hit_info_declare:n{caffil}
\__hit_info_declare:n{csupervisor}
\__hit_info_declare:n{cdate}
\__hit_info_declare:n{cenrolldate}


\NewDocumentCommand\hitsetup{m}{\__hit_setup:nn{hit}{#1}}

\cs_new:Npn \__hit_report_titlepage_graduate: {~
 \__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
 {\xiaosi[1]\vspace*{0.65em}}%
 {\xiaosi[1]\textcolor[rgb]{1,1,1}{\songti{\__hit_term:n {hi}}}}%
 \vspace*{10mm}~
 \begin{center}~
 \songti\erhao\textbf{\__hit_term:n {cschoolname}\bool_if:cTF {l__hit_shenzhen_bool} {\__hit_term:n
 \end{center}~
 \begin{center}~
 \songti\erhao\textbf{\__hit_term:n {cthesismidtermcheck}}~
```

```
\end{center}~
\vspace{66bp}~
\parbox[b][3cm][t]{\textwidth}{~
\begin{center}\songti\sihao
\cs_set:Npn \arraystretch {1.67}~
\begin{tabular}{l@{\ \ }c}~
\textbf{\__hit_term:n {graduate@studenttitle}}~&~\textbf{\g__hit_info_cauthor_tl}\\~
\hline
\textbf{\__hit_term:n {graduate@enrolldate}}~&~\textbf{\g__hit_info_cenrolldate_tl}\\~
\hline
\textbf{\__hit_term:n {graduate@thesistitle}}~&~\textbf{\g__hit_info_ctitleone_tl}\\~
\hline
&\textbf{\g__hit_info_ctitletwo_tl}\\~
\hline
\textbf{\__hit_term:n {graduate@cafflimajor}}~&~\textbf{\g__hit_info_csubject_tl}\\~
\hline
\textbf{\__hit_term:n {graduate@datetitle}}~&~\textbf{\g__hit_info_cdate_tl}\\~
\hline
\textbf{\__hit_term:n {graduate@supervisor}}~&~\textbf{\g__hit_info_csupervisor_tl}\\~
\hline
\end{tabular}\cs_set:Npn \arraystretch {1}~
\end{center}~
}~
}

\cs_set_nopar:Npn \makecover {~
\begin{titlepage}~
\__hit_report_titlepage_graduate:
\clearpage
\__hit_term:n {shenzhen@doctor@midterm@note}
\end{titlepage}~
\AddToShipoutPicture{%
\begin{tikzpicture}[remember~picture,overlay]~
\draw ($(current~page~text~area.south~west)+(-5mm,0mm)$)~rectangle~($(current~page~text~area.north
\end{tikzpicture}~
}~
\pagestyle{fancy}~
\fancyhead{}~
\cs_set:Npn \headrulewidth {0pt}~
\cs_set:Npn \footrulewidth {0pt}~
\fancyfoot[C]{\xiaowu-\nobreakspace{}\thepage\nobreakspace{}-}~
}
```

引用和参考文献格式

```

%% 引用和参考文献格式
\cs_new:Npn \bibstyle@numerical {\bibpunct{[}{]}{,}{s}{,}{\textsuperscript{,}}}
\cs_new:Npn \bibstyle@inline {\bibpunct{[}{]}{,}{n}{,}{\hit@inline@sep}}

\citestyle{numerical}
```

```
\cs_set_protected:Npn \inlinecite {\@inlinecite}
\cs_set_nopar:Npn \@inlinecite #1{\begingroup\citestyle{inline}\cs_set_eq:NN \@cite \NAT@citenum \c
\cs_set_eq:NN \onlinecite \inlinecite


\cs_set:Npn \thebibliography #1
  {%
  \list{\@biblabel{\@arabic\c@enumiv}}{%
    \str_if_eq:VnT \g_bib_labelalign_str {left} {
      \RenewDocumentCommand\makelabel{m}{##1\hfill}
    }
    \settowidth{\labelwidth}{\@biblabel{#1}}
    \skip_set:Nn \labelsep {0.5em}
    \skip_set:Nn \itemindent {0pt}
    \skip_set:Nn \leftmargin {\labelsep+\labelwidth}
    \skip_add:Nn \itemsep {-0.8em}
    \usecounter{enumiv}%
    \cs_set_eq:NN \p@enumiv \@empty
  \cs_set:Npn \theenumiv {\@arabic\c@enumiv}}%
  \sloppy\frenchspacing
  \flushbottom
  \clubpenalty0
  \@clubpenalty \clubpenalty
  \widowpenalty0%
  \interlinepenalty-50%
  \sfcode`\.\@m
}
\cs_set:Npn \endthebibliography
  {}
%% 用以控制参考文献列表中单个作者的格式
\exp_args:NNe \cs_new:Nn \g_bib_author_cs:n {
    \bool_if:NTF \g_bib_authorupper_bool {
        \exp_not:N \text_uppercase:n {#1}
    } {
        {#1}
    }
}
%% 用以输出参考文献列表中的作者
\NewDocumentCommand{\bibauthor}{m}{
  \int_zero:N \l_tmpa_int
  \exp_args:Ne \tl_map_inline:nn {
    \exp_args:Ne \tl_tail:n {#1}
  } {
    \int_compare:nNnT
      \l_tmpa_int = \g_bib_maxauthor_int {
      \prg_break:n {\tl_head:N {#1}}
    }
    \int_incr:N \l_tmpa_int
    \g_bib_author_cs:n {##1}
```

```
  }
  \prg_break_point:
}

```

杂项

```

%% 杂项
\AtEndOfClass{\input{hithesisart.cfg}}
\AtEndOfClass{\sloppy}
⟨/artpluscls⟩
```

添加 artcls

```
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% artcls
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
⟨*artcls⟩
```

处理文档类选项

```

%% 处理文档类选项
\__hit_bool_declare:n{bachelor}
\__hit_bool_declare:n{master}
\__hit_bool_declare:n{doctor}
\__hit_key_define:nnn{hit}{type}{%
 \__hit_bool_set_false:n {bachelor}
 \__hit_bool_set_false:n {master}
 \__hit_bool_set_false:n {doctor}
 \__hit_bool_select:n {#1}
}

\__hit_bool_declare:n{shenzhen}
\__hit_bool_declare:n{weihai}
\__hit_bool_declare:n{harbin}
\__hit_key_define:nnn{hit}{campus}{%
 \__hit_bool_set_false:n {shenzhen}
 \__hit_bool_set_false:n {weihai}
 \__hit_bool_set_false:n {harbin}
 \__hit_bool_select:n {#1}
}
\bool_if:cTF {l__hit_weihai_bool} {\relax} {
 \bool_if:cTF {l__hit_shenzhen_bool} {\relax} {
 \__hit_bool_set_true:n {harbin}
 }
}

\__hit_bool_declare:n{opening}
\__hit_bool_declare:n{midterm}
\__hit_key_define:nnn{hit}{stage}{%
 \__hit_bool_set_false:n {opening}
 \__hit_bool_set_false:n {midterm}
```

```
\__hit_bool_select:n {#1}
}


\bool_new:N \g_bib_authorupper_bool
\bool_set_false:N \g_bib_authorupper_bool
\__hit_key_define:nnn{hit}{bibauthorupper}{%
  \str_if_eq:nnT {#1} {full} {
    \bool_set_true:N \g_bib_authorupper_bool
  }
}

\int_new:N \g_bib_maxauthor_int
\int_set:Nn \g_bib_maxauthor_int {3}
\__hit_key_define:nnn{hit}{bibmaxauthor}{%
  \int_set:Nn \g_bib_maxauthor_int {#1}
  \int_if_zero:nT {\g_bib_maxauthor_int} {
    \int_gdecr:N \g_bib_maxauthor_int
  }
}

\str_new:N \g_bib_labelalign_str
\__hit_key_define:nnn{hit}{biblabelalign}{%
  \str_set:Nn \g_bib_labelalign_str {#1}
}


\__hit_bool_option:nn{true}{raggedbottom}
\__hit_bool_option:nn{false}{pifootnote}
\__hit_bool_option:nn{false}{debug}
\__hit_bool_option:nn{true}{toc}
\__hit_bool_option:nn{true}{newtxmath}
\__hit_bool_option:nn{false}{print}


\__hit_string_option_declare:n{fontset}
\PassOptionsToPackage{no-math}{fontspec}

\__hit_class_options_process:n{ctexart}

\bool_if:cTF {l__hit_bachelor_bool} {\relax} {
 \bool_if:cTF {l__hit_master_bool} {\relax} {
 \bool_if:cTF {l__hit_doctor_bool} {\relax} {
 \ClassError{hithesisart}{%
 \MessageBreak Please~specify~thesis~type~in~option:~
 \MessageBreak type=[bachelor~|~master~|~doctor]~
 }~
 }
 }
```

```
}

\bool_if:cTF {l__hit_opening_bool} {\relax} {
 \bool_if:cTF {l__hit_midterm_bool} {\relax} {
 \ClassError{hithesisart}{%
 \MessageBreak Please~specify~stage~in~option:~
 \MessageBreak stage=<opening|midterm>~
 }~
 }
}

\bool_if:cTF {l__hit_doctor_bool} {
 \bool_if:cTF {l__hit_midterm_bool} {
 \bool_if:cTF {l__hit_shenzhen_bool} {
 \ClassError{hithesisart}{%
 \MessageBreak This~document~class~does~not~support~midterm~report~for~doctor~
 in~shenzhen~campus.~
 \MessageBreak please~use~\string\documentclass{hithesisartplus}~
 }~
 } {}
 } {}
} {}

\RequirePackage{ifthen}
\__hit_text_if_equal:nnTF{\hit@fontset}{}%
{%
 \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}~
}%
{%
 \__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
 {\relax}%
 {%
 \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}~
 }%
 \PassOptionsToClass{fontset=\hit@fontset}{ctexart}~
}%
\LoadClass[a4paper,UTF8,zihao=-4,scheme=plain]{ctexart}
```

各种宏包

```

%% 各种宏包
\RequirePackage{etoolbox}
\RequirePackage{ifxetex}
\__hit_engine_if_xetex:TF{}{%
 \ClassError{hithesis}{Please~use:~\MessageBreak xelatex}{}~
}
\RequirePackage{xparse}

\RequirePackage{amsmath}
\RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}
```

```
\RequirePackage{amssymb}
```

删除 newtxtext，由于最新一次更新 (revision 62369) 中与 ctex 宏包冲突，且无法解决，将正文字体替换为 TG TermesX 与 TG Heros.

```
\setmainfont{TeXGyreTermesX}[
 UprightFont~=~*-Regular~,
 BoldFont~=~*-Bold~,
 ItalicFont~=~*-Italic~,
 BoldItalicFont~=~*-BoldItalic~,
 Extension~=~.otf~,
 ]
\setsansfont{texgyreheros}[
 UprightFont~=~*-regular~,
 BoldFont~=~*-bold~,
 ItalicFont~=~*-italic~,
 BoldItalicFont~=~*-bolditalic~,
 Extension~=~.otf~,
 ]
```

删除 courier，将 mono 字体替换为 TG Cursor，至此将正文字体全面替换为 OpenType.

```
\setmonofont{texgyrecursor}[
 UprightFont~=~*-regular~,
 BoldFont~=~*-bold~,
 ItalicFont~=~*-italic~,
 BoldItalicFont~=~*-bolditalic~,
 Extension~=~.otf~,
]
```

单独使用 newtxmath 宏包改变数学字体时，会使 operators，\mathrm，\mathit，\mathbf 命令使用 CM 字体，根据 SJTUThesis 的字体设置进行调整

```
\bool_if:cTF {l__hit_newtxmath_bool} {
 \cs_set_eq:NN \oldencodingdefault \encodingdefault
 \cs_set_eq:NN \oldrmdefault \rmdefault
 \cs_set_eq:NN \oldsfdefault \sfdefault
 \cs_set_eq:NN \oldttdefault \ttdefault

 \cs_set_nopar:Npn \encodingdefault {T1}~
 \cs_set:Npn \rmdefault {ntxtlf}~
 \cs_set:Npn \sfdefault {qhv}~
 \cs_set:Npn \ttdefault {ntxtt}~
 \RequirePackage{newtxmath}~
 \cs_set_eq:NN \encodingdefault \oldencodingdefault
 \cs_set_eq:NN \rmdefault \oldrmdefault
 \cs_set_eq:NN \sfdefault \oldsfdefault
 \cs_set_eq:NN \ttdefault \oldttdefault
} {}

\RequirePackage{graphicx}
\RequirePackage{pdfpages}
\includepdfset{fitpaper=true}
\RequirePackage{enumitem}~% 使用 enumitem 宏包，改变列表项的格式
```

```
\RequirePackage{environ}
\bool_if:cTF {l__hit_raggedbottom_bool} {
 \RequirePackage[bottom,perpage,hang]{footmisc}~
 \raggedbottom
} {
 \RequirePackage[perpage,hang]{footmisc}~
}
\bool_if:cTF {l__hit_pifootnote_bool} {
 \RequirePackage{pifont}~
} {}
```

xeCJK 包不再自动加载 xeCJKfntef

```
\RequirePackage{xeCJKfntef}
```

newtx 更新至 v1.7 版本后与 ctex 宏包冲突，需要手动引入 ⟨*nofontspec*⟩ 选项. 判断方法为是否存在 v1.7 更新后的新宏包 newtx.sty

```

\RequirePackage{longtable}
\RequirePackage{booktabs}
```

重定义 booktabs 宏包的默认线宽，绘制三线表时不再需要显式设置，以实现更好的内容与格式分离

```
\heavyrulewidth=1.5pt
\lightrulewidth=1pt
\cmidrulewidth=0.5pt

\RequirePackage[sort&compress,numbers]{natbib}
\RequirePackage{hyperref}
\hypersetup{%
 CJKbookmarks=true,~
 linktoc=all,~
 bookmarksnumbered=true,~
 bookmarksopen=true,~
 bookmarksopenlevel=1,~
 breaklinks=true,~
 colorlinks=false,~
 plainpages=false,~
 pdfborder=0~0~0~
}
\urlstyle{same}

\bool_if:cTF {l__hit_debug_bool} {
 \RequirePackage[showframe]{geometry}~
} {
 \RequirePackage{geometry}~
}
\geometry{% 根据 PlutoThesis 原版定义而来
 a4paper,~% 210 * 297mm
 hcentering,~
 ignoreall,~
 nomarginpar,~
```

```
centering,~
text={150true~mm,236true~mm},~
left=30true~mm,~
head=5true~mm,~
headsep=2true~mm,~
footskip=0true~mm,~
foot=5.2true~mm~
}

\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}}%
 {~
 \bool_if:cTF {l__hit_opening_bool} { \geometry{headsep=25pt}~
 } { \geometry{headsep=17pt}~
 }
 }
 {}

\bool_if:cTF {l__hit_debug_bool} {
 \RequirePackage{layout}~
 \RequirePackage{layouts}~
 \RequirePackage{lineno}~
} {}

\RequirePackage{fancyhdr}
\RequirePackage{tabularx}
\RequirePackage{varwidth}
\RequirePackage{changepage}
\RequirePackage{multicol}
\RequirePackage[below]{placeins}% 允许上一个 section 的浮动图形出现在下一个 section 的开始部分，还提供\FloatBarrier 命令，使所有未处理的浮动图形立即被处理
\RequirePackage{flafter}~% 使得所有浮动体不能被放置在其浮动环境之前，以免浮动体在引述它的文本之前出现.
\RequirePackage{multirow}~% 使用 Multirow 宏包，使得表格可以合并多个 row 格
\RequirePackage{subfigure}% 支持子图 %centerlast 设置最后一行是否居中
\RequirePackage[subfigure]{ccaption}~% 支持双语标题
```

设置深圳校区开题报告的正文行距与毕业论文模板一致 此处修改与正文行距保持一致

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}~&&~\__hit_bool_p:n{midter
将图注实现为“图 1-1 标题”的格式
 \RequirePackage{caption}~
 \cs_set:Npn \thefigure {\thesection-\arabic{figure}}% 修改图标号为 x-x 格式
 \captionsetup[figure]{labelsep=space}% 取消图标号后面的冒号
}{}

\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}~&&~\__hit_bool_p:n{openin
 \RequirePackage{caption}~
 \cs_set:Npn \thefigure {\thesection-\arabic{figure}}~
 \cs_set:Npn \thetable {\thesection-\arabic{table}}~
 \cs_set:Npn \theequation {\thesection-\arabic{equation}}~
 \captionsetup[figure]{labelsep=space}~
```

```
\captionsetup[table]{labelsep=space}~
\@addtoreset{figure}{section}~
\@addtoreset{table}{section}~
\@addtoreset{equation}{section}~
}{}
```

添加字号、行距等设置

```

%% 添加字号、行距等设置
\cs_set:Npn \normalsize {%
 \@setfontsize\normalsize{12bp}{20.50398bp}%
 \abovedisplayskip=8pt~
 \abovedisplayshortskip=8pt~
 \belowdisplayskip=\abovedisplayskip
 \belowdisplayshortskip=\abovedisplayshortskip
}

\cs_new_protected:Npn \__hit_fontsize_declare:nn #1#2
  {
    \exp_args:Nc \NewDocumentCommand {#1} { O{1.3} }
      { \fontsize {#2} { ##1 \dimexpr #2 } \selectfont }
  }

\__hit_fontsize_declare:nn{dachu}{58bp}
\__hit_fontsize_declare:nn{chuhao}{42bp}
\__hit_fontsize_declare:nn{xiaochu}{36bp}
\__hit_fontsize_declare:nn{yihao}{26bp}
\__hit_fontsize_declare:nn{xiaoyi}{24bp}
\__hit_fontsize_declare:nn{erhao}{22bp}
\__hit_fontsize_declare:nn{xiaoer}{18bp}
\__hit_fontsize_declare:nn{sanhao}{16bp}
\__hit_fontsize_declare:nn{xiaosan}{15bp}
\__hit_fontsize_declare:nn{sihao}{14bp}
\__hit_fontsize_declare:nn{banxiaosi}{13bp}
\__hit_fontsize_declare:nn{xiaosi}{12bp}
\__hit_fontsize_declare:nn{dawu}{11bp}
\__hit_fontsize_declare:nn{wuhao}{10.5bp}
\__hit_fontsize_declare:nn{xiaowu}{9bp}
\__hit_fontsize_declare:nn{liuhao}{7.5bp}
\__hit_fontsize_declare:nn{xiaoliu}{6.5bp}
\__hit_fontsize_declare:nn{qihao}{5.5bp}
\__hit_fontsize_declare:nn{bahao}{5bp}
```

更改哈尔滨校区博士硕士开题节标题为小三号字体

进行字号、行距等设置

```

%% 进行字号、行距等设置
\skip_set:Nn \parindent {2\ccwd}
\ctexset{%
 section={~
```

```
afterindent=true,~
beforeskip={7.5bp},% 上下空 0.5 行
afterskip={7.5bp},~
format={\heiti\xiaosan[1.25]},~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
subsection={~
afterindent=true,~
beforeskip={7bp},~
afterskip={7bp},~
format={\heiti\sihao[1.25]},~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
subsubsection={~
afterindent=true,~
beforeskip={3bp},~
afterskip={3bp},~
format={\heiti\normalsize},~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
paragraph/afterindent=true,~
subparagraph/afterindent=true~
}
```

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}~&&~\__hit_bool_p:n{midter
{~
\ctexset{~
section={~
number~=~\chinese{section},~
name~=~{,、},~
aftername={},~
}~
}~
}{}
```

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{weihai}~&&~\__hit_bool_p:n{master}~&&~\__hit_bool_p:n{opening}
{~
\fancypagestyle{hit@weihai@headings@main}{%
\fancyhf{}~
\fancyfoot[C]{\xiaowu\thepage}~
\cs_set:Npn \headrule {~
\vskip 1.190132pt~
\hrule\@height2.276208pt\@width\headwidth
\vskip 0.75pt~
\hrule\@height.75pt\@width\headwidth
```

```
}~
\fancyhead[C]{\songti\xiaowu[0] 哈尔滨工业大学（威海）硕士学位论文开题报告}~
\fancyfoot[C]{-\ \thepage\ -}~
}~
\pagestyle{hit@weihai@headings@main}~
}{}
```

为深圳校区硕士开题设置章节样式与页眉页脚样式。为深圳校区硕士中期设置章节样式与页眉页脚样式。

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}}
{~
\ctexset{~
section={~
beforeskip=25bp,~
afterskip=27pt,~
format=\bool_if:cTF {l__hit_opening_bool} {\centering\xiaoer} {\xiaosan}\heiti,~
aftername=\bool_if:cTF {l__hit_opening_bool} { \quad } { \enspace },~
break=\bool_if:cTF {l__hit_opening_bool} { \clearpage } { {}~}
},~
subsection={~
beforeskip=\bool_if:cTF {l__hit_opening_bool} { 12pt~} { 15pt~},~
afterskip=\bool_if:cTF {l__hit_opening_bool} { 12pt~} { 15pt~},~
format=\heiti\bool_if:cTF {l__hit_opening_bool} { \xiaosan } { \sihao },~
fixskip=true,~
aftername=\bool_if:cTF {l__hit_opening_bool} { {\ }~} { \enspace }
},~
subsubsection={~
beforeskip=\bool_if:cTF {l__hit_opening_bool} { 12pt~} { 15pt~},~
afterskip=\bool_if:cTF {l__hit_opening_bool} { 12pt~} { 15pt~},~
format=\heiti\sihao,~
fixskip=true,~
aftername=\bool_if:cTF {l__hit_opening_bool} { {\ }~} { \enspace }
}~
}~
\fancypagestyle{hit@shenzhen@headings@main}{%
\fancyhf{}~
\fancyfoot[C]{\xiaowu\thepage}~
\cs_set:Npn \headrule {~
\vskip 1.190132pt~
\hrule\@height2.276208pt\@width\headwidth
\vskip 0.75pt~
\hrule\@height.75pt\@width\headwidth
}~
\fancyhead[C]{\songti\xiaowu[0] 哈尔滨工业大学(深圳)\bool_if:cTF {l__hit_midterm_bool} { 中
期 ~} { 硕士学位论文开题 ~} 报告}~
\fancyfoot[C]{-\ \thepage\ -}~
}~
\fancypagestyle{hit@shenzhen@headings@front}{%
\fancyhf{}~
\cs_set:Npn \headrule {~
```

```
\vskip 1.190132pt~
\hrule\@height2.276208pt\@width\headwidth
\vskip 0.75pt~
\hrule\@height.75pt\@width\headwidth
}~
\fancyhead[C]{\songti\xiaowu[O] 哈尔滨工业大学（深圳）硕士学位论文开题报告}~
}~
}{}
%     \ifboolexpr{bool {hit@midterm}}{}{\pagestyle{hit@shenzhen@headings@front}}
```

中文封面

```
%% 中文封面

\__hit_info_declare:n{ctitlecover}
\__hit_info_declare:n{ctype}
\__hit_info_declare:n{csubject}
\__hit_info_declare:n{cauthor}
\__hit_info_declare:n{cstudentid}
\__hit_info_declare:n{cclassid}
\__hit_info_declare:n{caffil}
\__hit_info_declare:n{csupervisor}
\__hit_info_declare:n{cdate}


\NewDocumentCommand\hitsetup{m}{\__hit_setup:nn{hit}{#1}}

\cs_new:Npn \__hit_report_titlepage_graduate: {~
\__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
{\xiaosi[1]\vspace*{0.65em}}%
{\xiaosi[1]\textcolor[rgb]{1,1,1}{\songti{\__hit_term:n {hi}}}}%
\vspace*{10mm}~

\begin{center}~
% \kaishu\xiaoer\textbf{\__hit_term:n {cschoolname}\ifhit@shenzhen\__hit_term:n {shenzhencampus}\f
\__hit_bool_expr:nTF{(\__hit_bool_p:n{weihai}~||~\__hit_bool_p:n{shenzhen})~&&~\__hit_bool_p:n{mas
{\ziju{1/6}}{}\kaishu\xiaoer\textbf{\__hit_term:n {cschoolname}\bool_if:cTF {l__hit_weihai_bool} {
海）} {}}~
\end{center}~
\vspace{5mm}~
\begin{center}~
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}~&&~\__hit_bool_p:n{openi
{\xiaoyi\ziju{1/8}}{\erhao}~
\songti\textbf{\__hit_term:n {cxuewei}\__hit_term:n {cthesisname}
\bool_if:cTF {l__hit_opening_bool} {
\__hit_term:n {stage@opening}
} {
\bool_if:cTF {l__hit_midterm_bool} {
\__hit_term:n {stage@midterm}
} {}
}
```

```
\__hit_term:n {stage@doctype}
}~
\end{center}~
\vspace{10mm}~
\parbox[t][3cm][t]{\textwidth}{~
\begin{center}~
\songti\xiaoer\textbf{\__hit_term:n {cthesistitleprefix}\__hit_term:n {title@csep}\g__hit_info_cti
\\[12bp]~

\par
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{opening}~&&~\__hit_bool_p:n{master
\songti\sanhao\textbf{ （\g__hit_info_ctype_tl） }~
}{}~
\end{center}~
}~
\parbox[b][3cm][t]{\textwidth}{~
\begin{center}\songti\sanhao
\cs_set:Npn \arraystretch {2.1}~
\begin{tabular}{l@{\ \ }c}~
\textbf{\__hit_term:n {graduate@caffiltitle}}~&~\underline{\makebox[6.1cm]{\textbf{\g__hit_info_ca
\textbf{\__hit_term:n {graduate@cmajortitle}}~&~\underline{\makebox[6.1cm]{\textbf{\g__hit_info_cs
\textbf{\__hit_term:n {graduate@supervisor}}~&~\underline{\makebox[6.1cm]{\textbf{\g__hit_info_csu

\textbf{\__hit_term:n {graduate@studenttitle}}~&~\underline{\makebox[6.1cm]{\textbf{\g__hit_info_c
\textbf{\__hit_term:n {graduate@studentid}}~&~\underline{\makebox[6.1cm]{\textbf{\g__hit_info_cstu
\textbf{\__hit_term:n {graduate@datetitle}}~&~\underline{\makebox[6.1cm]{\textbf{\g__hit_info_cdat
\end{tabular}\cs_set:Npn \arraystretch {1}~
\end{center}~
}~
\vfill
\bool_if:cTF {l__hit_harbin_bool} {
\__hit_term:n {harbin@schoolbottommark}
} {

\bool_if:cTF {l__hit_shenzhen_bool} {
\bool_if:cTF {l__hit_opening_bool} {
\__hit_term:n {shenzhen@master@schoolbottommark}
} {}
} {}
}
}

\cs_new:Npn \__hit_report_titlepage_bachelor: {~
\__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
{\xiaosi[1]\vspace*{0.65em}}%
{\xiaosi[1]\textcolor[rgb]{1,1,1}{\songti{\__hit_term:n {hi}}}}%
\vspace*{10mm}~
\begin{center}~
\includegraphics[width=6.2cm]{hithesis-logo}~
\end{center}~
```

```
\begin{center}~
\songti\xiaoyi\textbf{%
\bool_if:cTF {l__hit_harbin_bool} {%
\ziju{1/12}~
本科%
} {}%
\__hit_term:n {bachelor@cthesisname}
\bool_if:cTF {l__hit_opening_bool} {
\__hit_term:n {stage@opening}
} {
\bool_if:cTF {l__hit_midterm_bool} {
\__hit_term:n {stage@midterm}
} {}
}
\__hit_term:n {stage@doctype}
}~
\end{center}~
\vspace{15mm}~
\parbox[t][6.5cm][t]{\textwidth}{~
\begin{center}~
\songti\xiaoer\textbf{\__hit_term:n {cthesistitleprefix}\__hit_term:n {title@csep}\g__hit_info_cti
\end{center}~
}~
\parbox[b][6cm][t]{\textwidth}{~
\begin{center}\songti\sanhao
\cs_set:Npn \arraystretch {2.1}~

\dim_new:N \l__hit_report_subject_width_dim
\dim_new:N \l__hit_report_subject_measure_dim
\__hit_measure_width:Nn \l__hit_report_subject_measure_dim {\g__hit_info_csubject_tl}~
\dim_set:Nn \l__hit_report_subject_width_dim {\dim_compare:nNnTF {\l__hit_report_subject_measure_d
\begin{tabular}{l@{\ \ }c}~
\textbf{\__hit_term:n {bachelor@cmajortitle}}~&~\underline{\makebox[\l__hit_report_subject_width_d
\textbf{\__hit_term:n {bachelor@cstudenttitle}}~&~\underline{\makebox[\l__hit_report_subject_width
\textbf{\__hit_term:n {bachelor@cstudentidtitle}}~&~\underline{\makebox[\l__hit_report_subject_wid
\bool_if:cTF {l__hit_weihai_bool} { % 威海校区特有
\textbf{\__hit_term:n {bachelor@cclass}}~&~\underline{\makebox[\l__hit_report_subject_width_dim]{\
} {}
\textbf{\__hit_term:n {bachelor@csupervisortitle}}~&~\underline{\makebox[\l__hit_report_subject_wi
\textbf{\__hit_term:n {bachelor@cdatetitle}}~&~\underline{\makebox[\l__hit_report_subject_width_di
\end{tabular}\cs_set:Npn \arraystretch {1}~
\end{center}~
}~
\vfill
\bool_if:cTF {l__hit_weihai_bool} {
\relax
} {
\__hit_term:n {harbin@bachelor@schoolbottommark}
}
}
```

```

\cs_new:Npn \__hit_report_backpage_bachelor: {~
 \thispagestyle{empty}~
 \noindent\parbox[t][6.5cm][t]{\textwidth}{\__hit_term:n {bachelor@teachercomment}}~
 \noindent\parbox[b][6cm][t]{\textwidth}{\__hit_term:n {bachelor@teachersign}\underline{\makebox[3c
}

```

深圳校区中期模板目录中一级标题为黑体 \heiti。

深圳校区硕士开题目录有标题。深圳校区硕士中期目录也有标题。用 tocloft 宏包实现深圳校区硕士开题和中期的目录，逐步进行迁移。

```

%\ifboolexpr{ {bool {hit@shenzhen} or bool {hit@weihai}} and bool {hit@master} }{
  % renew \CTEX@toc@width@n,
  % add width of a space to numwidth (stored in \@tempdima)
  \cs_set_protected:Npn \CTEX@toc@width@n #1
  {
    \hbox_set:Nn \l__ctex_tmp_box {#1\,}
    \dim_set:Nn \@tempdima
      {
        \dim_max:nn { \@tempdima }
          { \box_wd:N \l__ctex_tmp_box }
      }
  }

\RequirePackage[subfigure]{tocloft}
\cs_set:Npn \cfttoctitlefont {\hfill\xiaoer\heiti}
\cs_set:Npn \cftaftertoctitle {\hfill\mbox{}}
\cs_set:Npn \cftsecfont {\heiti}
\cs_set:Npn \cftsecpagefont {}
\cs_set:Npn \cftsecdotsep {\cftdotsep}
\cs_set:Npn \cftsecleader {\cftdotfill{\cftsecdotsep}}
\cs_set:Npn \cftdotsep {1}
\skip_set:Nn \cftaftertoctitleskip {40pt}
\skip_set:Nn \cftbeforesecskip {1.2ex}
\skip_set:Nn \cftbeforesubsecskip {1.2ex}
\skip_set:Nn \cftbeforesubsubsecskip {1.2ex}
\skip_set:Nn \cftsubsecindent {1em}% 目录中 subsection 的缩进
\skip_set:Nn \cftsubsubsecindent {2em}% 目录中 subsubsection 的缩进
%  \setlength{\cftsecnumwidth}{1.5em}
%  \setlength{\cftsubsecnumwidth}{0em}
%  \setlength{\cftsubsubsecnumwidth}{0em}

%  \ifhit@shenzhen
%    \ifhit@midterm
\skip_set:Nn \cftsecnumwidth {1em}% 目录中的 section 条目序号和标题之间的距离
\skip_set:Nn \cftsubsecnumwidth {1.7em}% 目录中的 subsection 条目序号和标题之间的距离
\skip_set:Nn \cftsubsubsecnumwidth {2.4em}% 目录中的 subsubsection 条目序号和标题之间的
  距离
%    \fi
```

```
%  \fi
%  \ifboolexpr{ bool {hit@weihai} or bool {hit@midterm}}{\tocloftpagestyle{empty}}{\tocloftpagestyl
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}~&&~\__hit_bool_p:n{openin
%}{
% \renewcommand\tableofcontents{%
%     \thispagestyle{empty}
%     \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} and bool {hit@midterm} }%
%       {\patchcmd{\l@section}{\bfseries}{\heiti}{}{}}{}
%     \normalsize\@starttoc{toc}
%   }
%}
```

\makecover

```
\cs_set_nopar:Npn \makecover {~
 \begin{titlepage}~
 \bool_if:cTF {l__hit_bachelor_bool} {
 \__hit_report_titlepage_bachelor:
 } {
 \__hit_report_titlepage_graduate:
 }
 \clearpage
 \bool_if:cTF {l__hit_print_bool} { \thispagestyle{empty}\mbox{}~\clearpage } {}
 \bool_if:cTF {l__hit_toc_bool} {
 \tableofcontents
 \clearpage
 } {}
 \end{titlepage}~
 \__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}}{\pagestyle{hit@shenzhen
}
```

\makebackcover

```
\cs_set_nopar:Npn \makebackcover {~
 \clearpage
 \__hit_report_backpage_bachelor:
}
```

引用和参考文献格式

```

%% 引用和参考文献格式
\cs_new:Npn \bibstyle@numerical {\bibpunct{[}{]}{,}{s}{,}{\textsuperscript{,}}}
\cs_new:Npn \bibstyle@inline {\bibpunct{[}{]}{,}{n}{,}{\hit@inline@sep}}

\citestyle{numerical}
\cs_set_protected:Npn \inlinecite {\@inlinecite}
\cs_set_nopar:Npn \@inlinecite #1{\begingroup\citestyle{inline}\cs_set_eq:NN \@cite \NAT@citenum \c
\cs_set_eq:NN \onlinecite \inlinecite
```

深圳校区硕士开题部分参考文献没有序号。其他校区的提了问题再改。

```

\cs_set:Npn \thebibliography #1
```

```
{%
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen} && \__hit_bool_p:n{master} && \__hit_bool_p:n{open
{%
  \section*{参考文献}
  \addcontentsline{toc}{section}{参考文献}
}{}
\list{\@biblabel{\@arabic\c@enumiv}}{%
  \str_if_eq:VnT \g_bib_labelalign_str {left} {
    \RenewDocumentCommand\makelabel{m}{##1\hfill}
  }
  \settowidth{\labelwidth}{\@biblabel{#1}}
  \skip_set:Nn \labelsep {0.5em}
  \skip_set:Nn \itemindent {0pt}
  \skip_set:Nn \leftmargin {\labelsep+\labelwidth}
  \skip_add:Nn \itemsep {-0.8em}
  \usecounter{enumiv}%
  \cs_set_eq:NN \p@enumiv \@empty
\cs_set:Npn \theenumiv {\@arabic\c@enumiv}}%
\sloppy\frenchspacing
\flushbottom
\clubpenalty0
\@clubpenalty \clubpenalty
\widowpenalty0%
\interlinepenalty-50%
\sfcode`\.\@m
}
\cs_set:Npn \endthebibliography
{\cs_set_nopar:Npn \@noitemerr
{\@latex@warning{Empty `thebibliography' environment}}%
\endlist\frenchspacing}
%% 用以控制参考文献列表中单个作者的格式
\exp_args:NNe \cs_new:Nn \g_bib_author_cs:n {
   \bool_if:NTF \g_bib_authorupper_bool {
       \exp_not:N \text_uppercase:n {#1}
   } {
       {#1}
   }
}
%% 用以输出参考文献列表中的作者
\NewDocumentCommand{\bibauthor}{m}{
  \int_zero:N \l_tmpa_int
  \exp_args:Ne \tl_map_inline:nn {
    \exp_args:Ne \tl_tail:n {#1}
  } {
    \int_compare:nNnT
      \l_tmpa_int = \g_bib_maxauthor_int {
      \prg_break:n {\tl_head:N {#1}}
    }
    \int_incr:N \l_tmpa_int
```

```
    \g_bib_author_cs:n {##1}
  }
  \prg_break_point:
}

```

杂项

```

%% 杂项
\AtEndOfClass{\input{hithesisart.cfg}}
\AtEndOfClass{\sloppy}
⟨/artcls⟩
```

4.2 定义选项

```
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% bookcls
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
⟨*bookcls⟩
```

此处添加 book 控制项，用于 cfg 中定理等控制

```
\__hit_bool_declare:n{bachelor}
\__hit_bool_declare:n{master}
\__hit_bool_declare:n{doctor}
\__hit_bool_declare:n{postdoc}
\__hit_key_define:nnn{hit}{type}{%
 \__hit_bool_set_false:n {bachelor}
 \__hit_bool_set_false:n {master}
 \__hit_bool_set_false:n {doctor}
 \__hit_bool_set_false:n {postdoc}
 \__hit_bool_select:n {#1}
}
\bool_if:cTF {l__hit_master_bool} {\relax} {
 \bool_if:cTF {l__hit_doctor_bool} {\relax} {
 \bool_if:cTF {l__hit_postdoc_bool} {\relax} {
 \__hit_bool_set_true:n {bachelor}
 }
 }
}
```

此处设置校区，没有明确给出威海或者深圳时候，默认为哈尔滨校区。

```
\__hit_bool_declare:n{shenzhen}
\__hit_bool_declare:n{weihai}
\__hit_bool_declare:n{harbin}
\__hit_key_define:nnn{hit}{campus}{%
 \__hit_bool_set_false:n {shenzhen}
 \__hit_bool_set_false:n {weihai}
 \__hit_bool_set_false:n {harbin}
 \__hit_bool_select:n {#1}
}
\bool_if:cTF {l__hit_weihai_bool} {\relax} {
```

```
\bool_if:cTF {l__hit_shenzhen_bool} {\relax} {
 \__hit_bool_set_true:n {harbin}
}
}
```

此处添加语言选项

```
\__hit_bool_declare:n{english}
\__hit_bool_declare:n{chinese}
\__hit_key_define:nnn{hit}{language}{%
 \__hit_bool_set_false:n {english}
 \__hit_bool_set_false:n {chinese}
 \__hit_bool_select:n {#1}
}
\bool_if:cTF {l__hit_english_bool} {\relax} {
 \__hit_bool_set_true:n {chinese}
}
```

设置版芯，由于窝工版芯歧义。

```
\__hit_bool_declare:n{geometrynewone}
\__hit_bool_declare:n{geometrynewtwo}
\__hit_bool_declare:n{geometrynewno}
\__hit_key_define:nnn{hit}{newgeometry}{%
 \__hit_bool_set_false:n {geometrynewone}
 \__hit_bool_set_false:n {geometrynewtwo}
 \__hit_bool_set_false:n {geometrynewno}
 \__hit_bool_select:n {geometrynew#1}
}
```

设置字距选项，因为 word 和规范不一致

```
\__hit_bool_declare:n{zijvregu}
\__hit_bool_declare:n{zijvword}
\__hit_key_define:nnn{hit}{zijv}{%
 \__hit_bool_set_false:n {zijvregu}
 \__hit_bool_set_false:n {zijvword}
 \__hit_bool_select:n {zijv#1}
}
```

```
\__hit_bool_declare:n{citetwocomma}
\__hit_bool_declare:n{citetwoendash}
\__hit_bool_set_true:n {citetwoendash}
\__hit_key_define:nnn{hit}{citetwo}{%
 \__hit_bool_set_false:n {citetwocomma}
 \__hit_bool_set_false:n {citetwoendash}
 \__hit_bool_select:n {citetwo#1}
}
```

```


\bool_new:N \g_bib_authorupper_bool
\bool_set_false:N \g_bib_authorupper_bool
\__hit_key_define:nnn{hit}{bibauthorupper}{%
  \str_if_eq:nnT {#1} {full} {
    \bool_set_true:N \g_bib_authorupper_bool
```

```
  }
}

\int_new:N \g_bib_maxauthor_int
\int_set:Nn \g_bib_maxauthor_int {3}
\__hit_key_define:nnn{hit}{bibmaxauthor}{%
  \int_set:Nn \g_bib_maxauthor_int {#1}
  \int_if_zero:nT {\g_bib_maxauthor_int} {
    \int_gdecr:N \g_bib_maxauthor_int
  }
}

\str_new:N \g_bib_labelalign_str
\__hit_key_define:nnn{hit}{biblabelalign}{%
  \str_set:Nn \g_bib_labelalign_str {#1}
}


```

目录中英文是否用 Arial 字体（默认关闭）。

```
\__hit_bool_option:nn{false}{arialtoc}
```

章节标题中的英文是否用 Arial 字体（默认打开）。

```
\__hit_bool_option:nn{false}{arialtitle}
```

中文本科模板中章标题是否加粗，默认是

```
\__hit_bool_option:nn{true}{chapterbold}
```

⟨*raggedbottom*⟩ 选项（默认开启）。如果不开启这个选项，会出现一页中尽量上下对齐，段的间距大。如果开启，尽量使段间距保持一致，页面底部出现空白。

```
\__hit_bool_option:nn{true}{raggedbottom}
```

在脚注标记中使用 pifont 的带圈数字（默认关闭）。

```
\__hit_bool_option:nn{false}{pifootnote}
```

字体间距设置（默认关闭）。

```
\__hit_bool_option:nn{false}{glue}
```

文科生四级目录设置（默认关闭）。

```
\__hit_bool_option:nn{false}{tocfour}
```

目录中“目录”位置是否空行（默认开启）。

```
\__hit_bool_option:nn{true}{tocblank}
```

章标题是否悬挂居中（默认开启）

```
\__hit_bool_option:nn{true}{chapterhang}
```

是否是全日制学生（默认是）。

```
\__hit_bool_option:nn{true}{fulltime}
```

英文内封标题是否根据长度自动调整字号（默认关闭，即使用二号字）。

```
\__hit_bool_option:nn{false}{etitleauto}
```

是否有子标题（默认是）。

```
\__hit_bool_option:nn{false}{subtitle}
```

是否开启 debug 模式（默认否）。如果开启，载入显示行号等的包，只为开发调试用。

```
\__hit_bool_option:nn{false}{debug}
```

是否使用右开页（默认否）。

```
\__hit_bool_option:nn{false}{openright}
```

是否为提交图书馆电子版。

```
\__hit_bool_option:nn{false}{library}
```

图题和标题最后一行是否居中对齐（默认是，非规范要求）。

```
\__hit_bool_option:nn{false}{capcenterlast}
```

子图图题和标题最后一行是否居中对齐（默认是，非规范要求）。

```
\__hit_bool_option:nn{false}{subcapcenterlast}
```

中文目录中 Abstract 是否均为大写

```
\__hit_bool_option:nn{false}{absupper}
```

此处添加控制本科论文的页码横线选项 由于本科论文模板的页码格式现已统一，修改 bsmainpagenumberline 默认设置为 true

```
\__hit_bool_option:nn{true}{bsmainpagenumberline}
\bool_if:cTF {l__hit_harbin_bool} {\bool_if:cTF {l__hit_bachelor_bool} {
 \__hit_bool_option:nn{true}{bsfrontpagenumberline}~
} {\__hit_bool_option:nn{false}{bsfrontpagenumberline}}
} {\__hit_bool_option:nn{false}{bsfrontpagenumberline}}
\__hit_bool_option:nn{true}{bsheadrule}
```

数学字体是否使用新罗马

```
\__hit_bool_option:nn{true}{newtxmath}
```

此处应广大刀客要求添加一参考文献分割开关

```
\__hit_bool_option:nn{false}{splitbibitem}
```

此处添加英文目录开关

```
\__hit_bool_option:nn{false}{engtoc}
```

声明字体选项。

```
\__hit_string_option_declare:n{fontset}
```

将其余选项默认传递给 ctexbook。

解析用户传递过来的选项，并加载 ctexbook。

```
\__hit_class_options_process:n{ctexbook}
```

使用 XeTeX 引擎时，fontspec 宏包会被 xeCJK 自动调用。传递给 fontspec 宏包 ⟨*no-math*⟩ 选项，避免部分数学符号字体自动调整为 CMR。其他引擎下没有这个问题，这一行会被无视。

```
\PassOptionsToPackage{no-math}{fontspec}
```

newtx 更新至 v1.7 版本后与 ctex 宏包冲突，需要手动引入 ⟨*nofontspec*⟩ 选项. 判断方法为是否存在 v1.7 更新后的新宏包 newtx.sty 载入单双面打印设置，本、硕单面，博士双面。

```
\bool_if:cTF {l__hit_bachelor_bool} {
\PassOptionsToClass{oneside}{book}~
} {}
\bool_if:cTF {l__hit_master_bool} {
\PassOptionsToClass{oneside}{book}~
} {}
\bool_if:cTF {l__hit_doctor_bool} {
\PassOptionsToClass{twoside}{book}~
} {}
```

设置字体。由于宋体没有粗体，且我工模板的标题要求使用粗宋体，于是面临 CTeX 的经典的伪粗体 bug：“首次出现伪粗体字体之后的正常字体无法复制”。但如果使用自带宋体的思源字体，那么不必使用伪粗体。模板只给出了新 windows 字体的思源字体设置，且思源字体版本为 Adobe 版。

```
\RequirePackage{ifthen}
\__hit_text_if_equal:nnTF{\hit@fontset}{}%
{%
 \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}~
}%
{%
 \__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
 {\relax}%
 {%
 \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}~
 }%
 \PassOptionsToClass{fontset=\hit@fontset}{ctexbook}~
}%
```

使用 ctexbook 类，优于调用 ctex 宏包。

```
\LoadClass[a4paper,openany,UTF8,zihao=-4,scheme=plain]{ctexbook}
```

用户至少要提供一个选项，指定论文类型。

```
\bool_if:cTF {l__hit_bachelor_bool} {\relax} {
 \bool_if:cTF {l__hit_master_bool} {\relax} {
 \bool_if:cTF {l__hit_doctor_bool} {\relax} {
 \bool_if:cTF {l__hit_postdoc_bool} {\relax} {
 \ClassError{hithesis}{%
 \MessageBreak Please~specify~thesis~type~in~option:~
 \MessageBreak type=[bachelor~|~master~|~doctor~|~postdoc]}{}~
 }
 }
 }
}
```

设置字距默认选项

```
\bool_if:cTF {l__hit_zijvregu_bool} {\relax} {
 \bool_if:cTF {l__hit_zijvword_bool} {\relax} {
 \__hit_bool_set_true:n {zijvregu}
 }
}
```

重新设置 geometry 的默认选项

```
\bool_if:cTF {l__hit_geometrynewone_bool} {\relax} {
 \bool_if:cTF {l__hit_geometrynewtwo_bool} {\relax} {
 \bool_if:cTF {l__hit_geometrynewno_bool} {\relax} {
 \__hit_bool_set_true:n {geometrynewtwo}
 }
 }
}
```

4.3 装载宏包

引用的宏包和相应的定义。

```
\RequirePackage{etoolbox}
\RequirePackage{ifxetex}
\__hit_engine_if_xetex:TF{}{%
 \ClassError{hithesis}{Please~use:~\MessageBreak xelatex}{}~
}
\RequirePackage{xparse}
```

$\mathcal{A}\mathcal{M}\mathcal{S}$-TEX 宏包，用来排出更加漂亮的公式。

```
\RequirePackage{amsmath}
```

定理类环境宏包，其中 amsmath 选项用来兼容$\mathcal{A}\mathcal{M}\mathcal{S}$-TEX 的宏包

```
\RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}
\RequirePackage{amssymb}
```

删除 newtxtext，由于最新一次更新 (`revision 62369`) 中与 ctex 宏包冲突，且无法解决，将正文字体替换为 TG TermesX 与 TG Heros.

```
\setmainfont{TeXGyreTermesX}[
 UprightFont~=~*-Regular~,
 BoldFont~=~*-Bold~,
 ItalicFont~=~*-Italic~,
 BoldItalicFont~=~*-BoldItalic~,
 Extension~=~.otf~,
 ]
\setsansfont{texgyreheros}[
 UprightFont~=~*-regular~,
 BoldFont~=~*-bold~,
 ItalicFont~=~*-italic~,
 BoldItalicFont~=~*-bolditalic~,
 Extension~=~.otf~,
 ]
```

删除 courier，将 mono 字体替换为 TG Cursor，至此将正文字体全面替换为 OpenType.

```
\setmonofont{texgyrecursor}[
 UprightFont~=~*-regular~,
 BoldFont~=~*-bold~,
 ItalicFont~=~*-italic~,
 BoldItalicFont~=~*-bolditalic~,
 Extension~=~.otf~,
]
```

单独使用 newtxmath 宏包改变数学字体时，会使 `operators`，`\mathrm`，`\mathit`，`\mathbf` 命令使用 CM 字体，根据 SJTUThesis 的字体设置进行调整

```
\bool_if:cTF {l__hit_newtxmath_bool} {
 \cs_set_eq:NN \oldencodingdefault \encodingdefault
 \cs_set_eq:NN \oldrmdefault \rmdefault
 \cs_set_eq:NN \oldsfdefault \sfdefault
 \cs_set_eq:NN \oldttdefault \ttdefault

 \cs_set_nopar:Npn \encodingdefault {T1}~
 \cs_set:Npn \rmdefault {ntxtlf}~
 \cs_set:Npn \sfdefault {qhv}~
 \cs_set:Npn \ttdefault {ntxtt}~
```

```
\RequirePackage{newtxmath}~
\cs_set_eq:NN \encodingdefault \oldencodingdefault
\cs_set_eq:NN \rmdefault \oldrmdefault
\cs_set_eq:NN \sfdefault \oldsfdefault
\cs_set_eq:NN \ttdefault \oldttdefault
} {}
```

图形支持宏包。

```
\RequirePackage{graphicx}
```

pdfpages 宏包便于我们插入扫描后的授权页和声明页 PDF 文档。

```
\RequirePackage{pdfpages}
\includepdfset{fitpaper=true}
```

更好的列表环境。

```
\RequirePackage{enumitem}~% 使用 enumitem 宏包，改变列表项的格式
\RequirePackage{environ}
```

禁止 LaTeX 自动调整多余的页面底部空白，并保持脚注仍然在底部。脚注按页编号。

```
\bool_if:cTF {l__hit_raggedbottom_bool} {
 \RequirePackage[bottom,perpage,hang]{footmisc}~
 \raggedbottom
} {
 \RequirePackage[perpage,hang]{footmisc}~
}
```

脚注格式。

```
\bool_if:cTF {l__hit_pifootnote_bool} {
 \RequirePackage{pifont}~
} {}
```

利用 xeCJKfntef 实现汉字的下划线和盒子内两段对齐，并可以避免 `\makebox[⟨width⟩][⟨s⟩]` 可能产生的 underful boxes。

```
\RequirePackage{xeCJKfntef}
```

表格控制

```
\RequirePackage{longtable}
```

使用三线表：`\toprule`，`\midrule`，`\bottomrule`。

```
\RequirePackage{booktabs}
```

重定义 booktabs 宏包的默认线宽，绘制三线表时不再需要显式设置，以实现更好的内容与格式分离

```
\heavyrulewidth=1.5pt
\lightrulewidth=1pt
\cmidrulewidth=0.5pt
```

参考文献引用宏包。

```
% \RequirePackage[sort&compress]{natbib}
```

生成有书签的 pdf 及其开关，请结合 gbk2uni 避免书签乱码。

```
\RequirePackage{hyperref}
\hypersetup{%
 CJKbookmarks=true,~
```

```
linktoc=all,~
bookmarksnumbered=true,~
bookmarksopen=true,~
bookmarksopenlevel=1,~
breaklinks=true,~
colorlinks=false,~
plainpages=false,~
pdfborder=0~0~0~
}
```

设置 url 样式，与上下文一致

```
\urlstyle{same}
```

根据窝工 2021 年的“四月革命”，引用文献标准更新到 GBT2015

```
\RequirePackage[sort&compress]{gbt7714}
\bool_if:cTF {l__hit_citetwocomma_bool} {
 \hit@legacy@patch@b%
} {}
```

4.4 页面设置

本来这部分应该是最容易设置的，但根据我工《哈尔滨工业大学研究生学位论文撰写规范》的 3.8,3.4,3.2 节的版芯矛盾，此处设置两种版芯。

```
\prop_new:N \c__hit_book_geometry_prop
\prop_gset_from_keyval:Nn \c__hit_book_geometry_prop
  {
    two =
      {centering,text={150true~mm,236true~mm},left=30true~mm,
       head=5true~mm,headsep=2true~mm,footskip=0true~mm,foot=5.2true~mm},
    one =
      {centering,text={150true~mm,240true~mm},left=30true~mm,
       head=5true~mm,headsep=0true~mm,footskip=0true~mm,foot=0true~mm},
    no =
      {text={150true~mm,224true~mm},top=35.5true~mm,left=30true~mm,
       head=5true~mm,headsep=2.5true~mm,foot=8.5true~mm}
  }
\tl_new:N \l__hit_geometry_options_tl
\cs_new_protected:Npn \__hit_book_geometry_apply:n #1
  {
    \prop_get:NnN \c__hit_book_geometry_prop {#1} \l__hit_geometry_options_tl
    \exp_args:NV \geometry \l__hit_geometry_options_tl
  }
\cs_new_protected:Npn \__hit_book_geometry_setup:
  {
    \bool_if:cTF {l__hit_debug_bool}
      {\RequirePackage[showframe]{geometry}} {\RequirePackage{geometry}}
    \geometry{a4paper,hcentering,ignoreall,nomarginpar}
    \bool_if:cTF {l__hit_geometrynewtwo_bool}
      {\__hit_book_geometry_apply:n {two}}
      {\bool_if:cTF {l__hit_geometrynewone_bool}
```

```
      {\__hit_book_geometry_apply:n {one}} {\__hit_book_geometry_apply:n {no}}}
  \bool_lazy_and:nnT
    {\bool_if_p:c {l__hit_harbin_bool}}
    {\bool_if_p:c {l__hit_bachelor_bool}}
    {\geometry{top=36.5true~mm,headsep=1true~mm,bottom=28.8true~mm}}
 }
\__hit_book_geometry_setup:
```

添加版芯设置选项

为哈尔滨本科特意改了页眉位置。

载入显示行号的包。

```
\bool_if:cTF {l__hit_debug_bool} {%
 \RequirePackage{layout}~
 \RequirePackage{layouts}~
 \RequirePackage{lineno}~
} {}
```

利用 fancyhdr 设置页眉页脚。

```
\RequirePackage{fancyhdr}
```

其他包，表格、数学符号包

```
\RequirePackage{tabularx}
\RequirePackage{varwidth}
```

此处 changepage 环境用来控制索引页面的左右边距，规范中给出的示例的边距要大于正文。

```
\RequirePackage{changepage}
\RequirePackage{multicol}
\RequirePackage[below]{placeins}% 允许上一个 section 的浮动图形出现在下一个 section 的开始部分，还提供\FloatBarrier 命令，使所有未处理的浮动图形立即被处理
\RequirePackage{flafter}~% 使得所有浮动体不能被放置在其浮动环境之前，以免浮动体在引述它的文本之前出现.
\RequirePackage{multirow}~% 使用 Multirow 宏包，使得表格可以合并多个 row 格
\bool_if:cTF {l__hit_subcapcenterlast_bool} {
 \PassOptionsToPackage{centerlast}{subfigure}~
} {}
\RequirePackage{subfigure}% 支持子图 %centerlast 设置最后一行是否居中
\RequirePackage[subfigure]{ccaption}~% 支持双语标题
```

中英文索引包。

```
\RequirePackage[makeindex]{splitidx}
\newindex[]{china}
\newindex[]{english}
```

排版 logo。

```
⟨/bookcls⟩
```

4.5 主文档格式

4.5.1 Three matters

```
⟨*bookcls⟩
\bool_if:cTF {l__hit_english_bool} {
```

在 glossaries 中表示 \glossarystle 这个命令 Deprecated in v3.08a. Removed in v4.50.

```
\RequirePackage[xindy,order=letter]{glossaries-extra}~
\newglossarystyle{engstyle}{%
 \setglossarystyle{long}%
 \cs_set:Npn \theglossary
  {\vspace{-\intextsep}\centering\begin{longtable}{@{\hskip 1cm}p{3.5cm}p{\glsdescwidth}}}
\cs_set:Npn \endtheglossary
  {\end{longtable}}}~
\setabbreviationstyle[acronym]{long-short}~
} {
\RequirePackage{glossaries}~
\setacronymstyle{short-long}~
}

\cs_set_nopar:Npn \genacrfullformat #1 #2 {%
 \glsentrylong{#1}%
}
\bool_if:cTF {l__hit_english_bool} {
\makenoidxglossaries
} {
\makeglossaries
}
```

\cleardoublepage 对于 *openright* 选项，必须保证章首页右开，且如果前章末页无内容须清空其页眉页脚。如果 *library* 为真，则强制设置 *openright* 为真。

```
\bool_if:cTF {l__hit_library_bool} {\__hit_bool_set_false:n {openright}} {\relax}
\cs_set_eq:NN \hit@cleardoublepage \cleardoublepage
\cs_new:Npn \__hit_clear_empty_double_page:N #1
  {\clearpage{\pagestyle{hit@empty}#1}}
\cs_new:Npn \__hit_clearemptydoublepage: {%
 \__hit_clear_empty_double_page:N \hit@cleardoublepage ~
}
\cs_set_eq:NN \cleardoublepage \__hit_clearemptydoublepage:
```

\frontmatter 我们的单面和双面模式与常规的不太一样。

```
\cs_new:Npn \__hit_frontmatter:
  {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \@mainmatterfalse
 \pagenumbering{Roman}~
 \pagestyle{hit@empty}~
```

窝工深圳模板范例，一行 34 个字 添加 33 行字选项

```
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
\bool_if:cTF {l__hit_zijvword_bool} {
\ziju{0.05416667}~
} {
\bool_if:cTF {l__hit_zijvregu_bool} {
```

```
\ziju{0.05580808}~
} {}
}
}
```

\mainmatter 根据打印店（伪官方）的猛虎式操作，\mainmatter 命令的逻辑是，双面打印时第一章必须在奇数页（不看文档别怪我）。

```
\cs_set:Npn \frontmatter {\__hit_frontmatter:}
\cs_new:Npn \__hit_mainmatter:
 {%
 \bool_if:cTF {l__hit_english_bool} {
 \relax
 } {
 \bool_if:cTF {l__hit_tocblank_bool} {%
 \addtocontents{toc}{\vspace{\baselineskip}}~% 规范中并没有这一要求，此处不应该加
 \addtocontents{toe}{\vspace{\baselineskip}}~
 } {}%
 }
```

添加英文版限制

```
 \bool_if:cTF {l__hit_doctor_bool} {%
 \bool_if:cTF {l__hit_library_bool} {\clearpage} {\cleardoublepage}
 } {%
 \clearpage
 }%
 \@mainmattertrue
 \pagenumbering{arabic}~
 \pagestyle{hit@headings}~
}
```

\backmatter

```
\cs_set:Npn \mainmatter {\__hit_mainmatter:}
\cs_new:Npn \__hit_backmatter:
 {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \@mainmattertrue}
\cs_set:Npn \backmatter {\__hit_backmatter:}
⟨/bookcls⟩
```

4.5.2 字体

\normalsize 根据我工规定，正文小四号 (12bp) 字，行距为固定值 3–4mm。

```
⟨*bookcls⟩
```

1bp = 1/72 inch, 1 inch = 25.4 mm

```
\cs_set:Npn \normalsize {%
 \@setfontsize\normalsize{12bp}{\bool_if:cTF {l__hit_glue_bool} { 20.50394bp~\@plus 2.834646bp~\@mi
 \abovedisplayskip=8pt~
 \abovedisplayshortskip=8pt~
 \belowdisplayskip=\abovedisplayskip
 \belowdisplayshortskip=\abovedisplayshortskip}
```

WORD 中的字号对应该关系如下（1bp = 72.27/72 pt）：

初号	42bp	14.82mm	42.1575pt
小初	36bp	12.70mm	36.135 pt
一号	26bp	9.17mm	26.0975pt
小一	24bp	8.47mm	24.09pt
二号	22bp	7.76mm	22.0825pt
小二	18bp	6.35mm	18.0675pt
三号	16bp	5.64mm	16.06pt
小三	15bp	5.29mm	15.05625pt
四号	14bp	4.94mm	14.0525pt
小四	12bp	4.23mm	12.045pt
五号	10.5bp	3.70mm	10.59375pt
小五	9bp	3.18mm	9.03375pt
六号	7.5bp	2.56mm	
小六	6.5bp	2.29mm	
七号	5.5bp	1.94mm	
八号	5bp	1.76mm	

hit_fontsize_declare:nn 根据习惯定义字号。用法：`\hit@def@fontsize{⟨字号名称⟩}{⟨磅数⟩}` 避免了字号选择和行距的紧耦合。所有字号定义时为单倍行距，并提供选项指定行距倍数。

```
\cs_new_protected:Npn \__hit_fontsize_declare:nn #1#2
  {
    \exp_args:Nc \NewDocumentCommand {#1} { O{1.3} }
      { \fontsize {#2} { ##1 \dimexpr #2 } \selectfont }
  }
```

\dachu 一组字号定义。

\chuhao
\xiaochu
\yihao
\xiaoyi
\erhao
\xiaoer
\sanhao

```
\__hit_fontsize_declare:nn{dachu}{58bp}
\__hit_fontsize_declare:nn{chuhao}{42bp}
\__hit_fontsize_declare:nn{xiaochu}{36bp}
\__hit_fontsize_declare:nn{yihao}{26bp}
\__hit_fontsize_declare:nn{xiaoyi}{24bp}
\__hit_fontsize_declare:nn{erhao}{22bp}
\__hit_fontsize_declare:nn{xiaoer}{18bp}
\__hit_fontsize_declare:nn{sanhao}{16bp}
```

\xsanhao
\xiaosan
\sihao
\banxiaosi
\xiaosi
\dawu
\wuhao
\xiaowu
\liuhao
\xiaoliu
\qihao
\bahao

\xsanhao 为了深圳校区本科生的原创性声明标题。在规范中标题的字体为“三号”，但是如果使用 \sanhao 则不能在一行排下，故参考 HitszThesis 的做法，定义一个稍微小一些的字号。

```
\__hit_fontsize_declare:nn{xsanhao}{15.9bp}
\__hit_fontsize_declare:nn{xiaosan}{15bp}
\__hit_fontsize_declare:nn{sihao}{14bp}
\__hit_fontsize_declare:nn{banxiaosi}{13bp}
\__hit_fontsize_declare:nn{xiaosi}{12bp}
```

```
\__hit_fontsize_declare:nn{dawu}{11bp}
\__hit_fontsize_declare:nn{wuhao}{10.5bp}
\__hit_fontsize_declare:nn{xiaowu}{9bp}
\__hit_fontsize_declare:nn{liuhao}{7.5bp}
\__hit_fontsize_declare:nn{xiaoliu}{6.5bp}
\__hit_fontsize_declare:nn{qihao}{5.5bp}
\__hit_fontsize_declare:nn{bahao}{5bp}
⟨/bookcls⟩
```

4.5.3 页眉页脚

\hit@empty
\hit@plain
\hit@headings

定义四种页眉页脚格式：

- hit@empty：页眉页脚都没有
- hit@plain：只显示页脚的页码。\chapter 自动调用 \thispagestyle\{hit@plain\}。
- hit@headings：页眉页脚同时显示
- hit@scanpage：只显示页脚的页码，扫描页专用

```
⟨*bookcls⟩
\cs_set_eq:NN \hit@headrule \headrule
% Reuse the shared rule/number policies introduced in 94a3b53.
\cs_new:Npn \__hit_book_headrule:
  {~
    \skip_vertical:n {1.190132pt}~
    \tex_hrule:D height~2.276208pt~width~\headwidth
    \skip_vertical:n {0.75pt}~
    \tex_hrule:D height~0.75pt~width~\headwidth
  }
\cs_new:Npn \__hit_page_number_plain: {\thepage}
\cs_new:Npn \__hit_page_number_simple:
  {-\nobreakspace{}\thepage\nobreakspace{}-}
\cs_new:Npn \__hit_page_number_bachelor:
  {-\hspace{\l__hit_page_number_sep_skip}\thepage\hspace{\l__hit_page_number_sep_skip}-}
\cs_new:Npn \__hit_page_number_main:
  {\bool_if:cTF {l__hit_bsmainpagenumberline_bool}
    {\__hit_page_number_bachelor:} {\__hit_page_number_plain:}}
\cs_new:Npn \__hit_page_number_front:
  {\bool_if:cTF {l__hit_bsfrontpagenumberline_bool}
    {\__hit_page_number_bachelor:} {\__hit_page_number_plain:}}
\cs_new:Npn \__hit_page_number_current:
  {\legacy_if:nTF {@mainmatter}
    {\__hit_page_number_main:} {\__hit_page_number_front:}}
\fancypagestyle{hit@empty}{%
 \fancyhf{}~
 \cs_set_eq:NN \headrule \hit@headrule %
 \cs_set:Npn \headrulewidth {0pt}~
 \cs_set:Npn \footrulewidth {0pt}~
}

\fancypagestyle{hit@scanpage}{%
 \fancyhf{}~
```

```
\fancyfoot[C]{\xiaowu\__hit_page_number_simple:}~
\cs_set_eq:NN \headrule \relax
\cs_set:Npn \headrulewidth {0pt}~
\cs_set:Npn \footrulewidth {0pt}~
}
```

哈尔滨本科页脚的横线与页码的间距比原来的打，用判断来控制。

```
\skip_new:N \l__hit_page_number_sep_skip
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}
{\skip_set:Nn \l__hit_page_number_sep_skip {.3333333em}}
{\skip_set:Nn \l__hit_page_number_sep_skip {.1666667em}}
```

此处根据本科生模板的多种版本，提供选项自定义页码、页眉样式。

```
\fancypagestyle{hit@headings}{%
\fancyhf{}~
\bool_if:cTF {l__hit_english_bool} {
\fancyhead[C]{\xiaowu[0]\leftmark}~
\fancyfoot[C]{\xiaowu\__hit_page_number_simple:}~
\cs_set_eq:NN \headrule \__hit_book_headrule:
} {
```

添加英文版页眉格式控制

```
\bool_if:cTF {l__hit_postdoc_bool} {
```

添加博后页眉控制

```
\fancyhead[CO]{\songti\xiaowu[0]\leftmark}~
\fancyhead[CE]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {postdoc@documenttitlenos
} {}
\bool_if:cTF {l__hit_doctor_bool} {
\fancyhead[CO]{\songti\xiaowu[0]\leftmark}~

\bool_if:cTF {l__hit_harbin_bool} {
\fancyhead[CE]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {cxuewei}\__hit_term:n {c
} {}
\bool_if:cTF {l__hit_shenzhen_bool} {
\fancyhead[CE]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\bool_if:cTF {l__hit_doctor_bool} {} {\
} {}
\bool_if:cTF {l__hit_weihai_bool} {
\fancyhead[CE]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {weihaicampus}\__hit_term
} {}
} {
\bool_if:cTF {l__hit_master_bool} {
\bool_if:cTF {l__hit_harbin_bool} {

\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {cxuewei}\__hit_term:n {ct
} {}
\bool_if:cTF {l__hit_shenzhen_bool} {
```

根据窝工 2020 年深圳校区新规定，mainmatter 之前都用正文内容作为页眉，之后都用哈尔滨工业大学作为页眉

```
\legacy_if:nTF {@mainmatter} {
\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {cdegree}\__hit_term:n {ct
```

```
} {
\fancyhead[C]{\xiaowu[0]\leftmark}~
}
} {}
\bool_if:cTF {l__hit_weihai_bool} {
\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {weihaicampus}\__hit_term:
} {}
} {}
}
\bool_if:cTF {l__hit_bachelor_bool} {
\bool_if:cTF {l__hit_harbin_bool} {
\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {bachelor@cxuewei}\__hit_t
} {}
\bool_if:cTF {l__hit_shenzhen_bool} {
\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {shenzhencampus}\__hit_ter
} {}
\bool_if:cTF {l__hit_weihai_bool} {
\bool_if:cTF {l__hit_bachelor_bool} {
```

此处设置威海本科页眉与本部一样，窝工三个校区规范怎么这么乱???

```
\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {bachelor@cxuewei}\__hit_t
} {
\fancyhead[C]{\songti\xiaowu[0]\__hit_term:n {cschoolname}\__hit_term:n {weihaicampus}\__hit_term:
}
} {}
\fancyfoot[C]{~
\xiaowu
\__hit_page_number_current:
}~
\bool_if:cTF {l__hit_bsheadrule_bool} {
\cs_set_eq:NN \headrule \__hit_book_headrule:
} {
\cs_set:Npn \headrulewidth {0pt}~
}
} {
\fancyfoot[C]{\xiaowu\__hit_page_number_simple:}~
\cs_set_eq:NN \headrule \__hit_book_headrule:
}
```

添加一校三区的学校名

```
}
% 此处可能和 word 模板不一致
% 页眉中小五汉字,0 行距时,占用 9bt,页眉高度为 14pt，所以以下数字之和要保持等于 14pt-9bt=4.96634pt
% 根据 PlutoThesis 模板中 rule 宽度定义为 2.25， 0.75， 保持粗线和细线之间的间距为细线宽
度。
% 如果页眉是多行的情况，rule 向下溢出
\cs_set:Npn \footrulewidth {0pt}~
}
\AtBeginDocument{% 此处解决页眉经典 bug
\pagestyle{hit@empty}~
\cs_set:Npn \chaptermark #1 {\@mkboth{\CTEXthechapter\enspace#1}{}}}
```

```
⟨/bookcls⟩
```

4.5.4 段落

全文首行缩进 2 字符，标点符号用全角

```
⟨*bookcls⟩
\ctexset{%
 punct=quanjiao,~
 space=auto,~
 autoindent=true}
```

利用 enumitem 命令调整默认列表环境间的距离，以符合中文习惯。

```
\setlist{nosep}
⟨/bookcls⟩
```

4.5.5 脚注

脚注符合中文习惯，数字带圈。

```
⟨*bookcls⟩
\cs_set_nopar:Npn \__hit_textcircled:n #1{%
 \int_compare:nNnTF {\value{#1}} > {9} {
 \ClassError{hithesis}%
 {Too~many~footnotes~in~this~page.}{Keep~footnote~less~than~10.}~
 } {}
 \bool_if:cTF {l__hit_pifootnote_bool} {%
 \ding{\the\numexpr\value{#1}+171\relax}%
 } {%
 \textcircled{\xiaoliu\arabic{#1}}%
 }}
\cs_set:Npn \thefootnote {\__hit_textcircled:n{footnote}}
\cs_set:Npn \thempfootnote {\__hit_textcircled:n{mpfootnote}}
```

定义脚注分割线，字号（宋体小五），以及悬挂缩进（1.5 字符）。

```
\cs_set_nopar:Npn \footnoterule {\vskip-3\p@\hrule\@width0.3\textwidth\@height0.4\p@\vskip2.6\p@}
\cs_set_eq:NN \__hit_latex_footnotesize: \footnotesize
\cs_set:Npn \footnotesize {\__hit_latex_footnotesize:\xiaowu[1.5]}
\footnotemargin1.5em\relax
```

`\@makefnmark` 默认是上标样式，而在脚注部分要求为正文大小。利用 `\patchcmd` 动态调整 `\@makefnmark` 的定义。

```
\cs_set_eq:NN \hit@makefnmark \@makefnmark
\cs_set_nopar:Npn \hit@@makefnmark {\hbox{{\normalfont\@thefnmark}}}
\hit@legacy@patch@c
\hit@legacy@patch@d
⟨/bookcls⟩
```

4.5.6 数学相关

允许太长的公式断行、分页等。

```
⟨*bookcls⟩
\allowdisplaybreaks[4]
```

```
\predisplaypenalty=0~% 公式之前可以换页，公式出现在页面顶部
\postdisplaypenalty=0
\cs_set:Npn \theequation {\int_compare:nNnTF {\c@chapter} > {\z@} {\thechapter-} {}\@arabic\c@equat
```

公式距前后文的距离由 4 个参数控制，参见 \normalsize 的定义。同时为了让 amsmath 的 \tag* 命令得到正确的格式，我们必须修改这些代码。\make@df@tag 是定义 \tag* 和 \tag 内部命令的。\make@df@tag@@ 处理 \tag*，我们就改它！

```
\def\make@df@tag{\@ifstar\make@df@tag@@\make@df@tag@@@}
\def\make@df@tag@@#1{%
  \gdef\df@tag{\maketag@@@{#1}\def\@currentlabel{#1}}}
```

```
\cs_set_nopar:Npn \make@df@tag {\@ifstar\__hit_make_df_tag__:n\make@df@tag@@@}
\cs_set_nopar:Npn \__hit_make_df_tag__:n #1{\cs_gset_nopar:Npn \df@tag {\__hit_maketag:n{#1}\cs_set
\iffalse
\bool_if:cTF {l__hit_bachelor_bool} {
 \cs_set_nopar:Npn \__hit_maketag:n #1{\maketag@@@{%
 (\ignorespaces\text{\equationname\hskip0.5em}#1\unskip\@@italiccorr)}}~
 \cs_set_nopar:Npn \tagform@ #1{\maketag@@@{%
 (\ignorespaces\text{\equationname\hskip0.5em}#1\unskip\@@italiccorr)\equcaption{#1}}}~
} {}
\fi
\cs_set_nopar:Npn \__hit_maketag:n #1{\maketag@@@{(\ignorespaces #1\unskip\@@italiccorr)}}
\cs_set_nopar:Npn \tagform@ #1{\maketag@@@{(\ignorespaces #1\unskip\@@italiccorr)\equcaption{#1}}}
```

修改 \tagform 会影响 \eqref。

```
\cs_set:Npn \eqref #1 {\textup{(\ref{#1})}}
⟨/bookcls⟩
```

定理标题使用黑体，正文使用宋体，冒号隔开。

```
⟨*bookcfg⟩
\theorembodyfont{\normalfont}
\theoremsymbol{\ensuremath{\square}}
\bool_if:cTF {l__hit_english_bool} {
\theoremheaderfont{\normalfont\bf}~
\newtheorem*{proof}{Proof}~
} {
\theoremheaderfont{\normalfont\heiti}~
\newtheorem*{proof}{证明}~
}
```

英文版黑体加粗

```
\theoremstyle{plain}
\theoremsymbol{}
```

此处去除了冒号，（如果需要在加上这个冒号?），反正规范中没有。

```
\theoremseparator{}
\bool_if:cTF {l__hit_english_bool} {
\newtheorem{assumption}{Assumption}[chapter]~
\newtheorem{definition}{Definition}[chapter]~
\newtheorem{proposition}{Proposition}[chapter]~
\newtheorem{lemma}{Lemma}[chapter]~
\newtheorem{theorem}{Theorem}[chapter]~
```

```
\newtheorem{axiom}{Axiom}[chapter]~
\newtheorem{corollary}{Corollary}[chapter]~
\newtheorem{exercise}{exercise}[chapter]~
\newtheorem{example}{Example}[chapter]~
\newtheorem{remark}{Remark}[chapter]~
\newtheorem{problem}{Problem}[chapter]~
\newtheorem{conjecture}{Conjecture}[chapter]~
\newtheorem{fact}{Fact}[chapter]~
} {
\newtheorem{assumption}{假设}[chapter]~
\newtheorem{definition}{定义}[chapter]~
\newtheorem{proposition}{命题}[chapter]~
\newtheorem{lemma}{引理}[chapter]~
\newtheorem{theorem}{定理}[chapter]~
\newtheorem{axiom}{公理}[chapter]~
\newtheorem{corollary}{推论}[chapter]~
\newtheorem{exercise}{练习}[chapter]~
\newtheorem{example}{例}[chapter]~
\newtheorem{remark}{注释}[chapter]~
\newtheorem{problem}{问题}[chapter]~
\newtheorem{conjecture}{猜想}[chapter]~
\newtheorem{fact}{事实}[chapter]~
}
⟨/bookcfg⟩
⟨*artcfg⟩
\theorembodyfont{\normalfont}
\theoremheaderfont{\normalfont\heiti}
\theoremsymbol{\ensuremath{\square}}
\newtheorem*{proof}{证明}
\theoremstyle{plain}
\theoremsymbol{}
\theoremseparator{}
\newtheorem{assumption}{假设}
\newtheorem{definition}{定义}
\newtheorem{proposition}{命题}
\newtheorem{lemma}{引理}
\newtheorem{theorem}{定理}
\newtheorem{axiom}{公理}
\newtheorem{corollary}{推论}
\newtheorem{exercise}{练习}
\newtheorem{example}{例}
\newtheorem{remark}{注释}
\newtheorem{problem}{问题}
\newtheorem{conjecture}{猜想}
\ctexset{%
 contentsname={目\hspace{\ccwd} 录},~
 figurename= 图,~
 tablename= 表 ~
}
\cs_set_eq:NN \CJK@todaysave \today
```

```
\cs_set_nopar:Npn \CJK@todaysmall@short {\the\year 年 ~\the\month 月}
\cs_set_nopar:Npn \CJK@todaysmall {\the\year 年 ~\the\month 月 ~\the\day 日}
\cs_set_nopar:Npn \CJK@todaybig@short {\zhdigits{\the\year} 年\zhnumber{\the\month} 月}
\cs_set_nopar:Npn \CJK@todaybig {\zhdigits{\the\year} 年\zhnumber{\the\month} 月\zhnumber{\the\day} 日}
\cs_set_nopar:Npn \CJK@today {\CJK@todaysmall}
\cs_set:Npn \today {\CJK@today}
\NewDocumentCommand \CJKtoday {O{1}}
 {%
\int_case:nn {#1}
 {
   {0} {\cs_set_nopar:Npn \CJK@today {\CJK@todaysave}~
}
   {1} {\cs_set_nopar:Npn \CJK@today {\CJK@todaysmall}~
}
   {2} {\cs_set_nopar:Npn \CJK@today {\CJK@todaybig}~
}
 }}
```

```
\cdate{%
 \bool_if:cTF {l__hit_bachelor_bool} {
 \bool_if:cTF {l__hit_harbin_bool} {
 \CJK@todaysmall@short
 } {
 \CJK@todaysmall
 }
 } { \CJK@todaysmall@short }
}
\bool_if:cTF {l__hit_doctor_bool} {
\__hit_terms_set:nn {global}
 {
   cxueweishort = {博},

   cxuewei = {\__hit_term:n {cxueweishort} 士},

   cdegree = {\g__hit_info_cxueke_tl\__hit_term:n {cxuewei}},
 }
\__hit_terms_set:nn {local}
 {
   cauthortitle = {\__hit_term:n {cxueweishort} 士研究生},
 }
} {}
\bool_if:cTF {l__hit_master_bool} {
\__hit_terms_set:nn {global}
 {
   cxueweishort = {硕},

   cxuewei = {\__hit_term:n {cxueweishort} 士},

   cdegree = {\g__hit_info_cxueke_tl\__hit_term:n {cxuewei}},
```

```
  }
\__hit_terms_set:nn {local}
  {
    cauthortitle = {\__hit_term:n {cxueweishort} 士研究生},
  }
} {}
\bool_if:cTF {l__hit_bachelor_bool} {
\__hit_terms_set:nn {global}
  {
    cxuewei = {学士},
  }
} {}
\__hit_terms_set:nn {local}
  {
    stage@opening = {开题},

    stage@midterm = {中期},

    stage@doctype = {报告},

```

咱也不知道谁想的，其他校区的本科毕设叫“毕业设计（论文）”，哈尔滨的叫“毕业论文（设计）”

```
    bachelor@cxuewei = {本科},

    bachelor@cthesisname = {毕业\bool_if:cTF {l__hit_harbin_bool} { 论文（设计）} { 设计（论文）}},

    bachelor@cclass = {班号},

    bachelor@cmajortitle = {专\hspace{2\ccwd} 业},

    bachelor@cstudenttitle = {学\hspace{2\ccwd} 生},

    bachelor@cstudentidtitle = {学\hspace{2\ccwd} 号},

    bachelor@caffiltitle = {学院},

    bachelor@caffiltitlesz = {学院},

    bachelor@caffiltitlewh = {学院},

    bachelor@csupervisortitle = {指导教师},

    bachelor@cdatetitle = {日\hspace{2\ccwd} 期},

    bachelor@teachercomment = {指导教师评语：},

    bachelor@teachersign = {指导教师签字：},

```

```
    bachelor@checkdate = {检查日期：},

    cthesistitleprefix = {题\hspace{\ccwd} 目},


    graduate@caffiltitle = {\makebox[6\ccwd][s]{\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__
院（部}{院（系}}）},

    graduate@cmajortitle = {%
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{opening}~&&~\__hit_bool_p:n{master
{\makebox[8\ccwd][s]{学科/专业学位类别}}%
{\makebox[6\ccwd][s]{%
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{opening}~&&~\__hit_bool_p:n{mast
{学科\,/\,专业}%
{学科}%
}}%
},

    graduate@supervisor = {\makebox[6\ccwd][s]{导师}},

    graduate@studenttitle = {\makebox[6\ccwd][s]{研究生}},

    graduate@studentid = {\makebox[6\ccwd][s]{学号}},

    graduate@datetitle = {\bool_if:cTF {l__hit_opening_bool} {\__hit_term:n {stage@opening}
} {\bool_if:cTF {l__hit_midterm_bool} {\__hit_term:n {stage@midterm}} {}}\__hit_term:n {stage@docty
期},

    graduate@enrolldate = {\makebox[6\ccwd][s]{入学时间}},

    graduate@thesistitle = {\makebox[6\ccwd][s]{论文题目}},

    graduate@cafflimajor = {\makebox[6\ccwd][s]{学科专业}},

    cschoolname = {哈尔滨工业大学},

    shenzhencampus = {（深圳）},


    cthesisname = {\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{opening}~&&~\__h
位}{学位论文}},

    cthesismidtermcheck = {博\hspace{.125\ccwd} 士\hspace{.125\ccwd} 学\hspace{.125\ccwd}
位\hspace{.125\ccwd} 论\hspace{.125\ccwd} 文\hspace{.125\ccwd} 中\hspace{.125\ccwd} 期\hspace{.125\c
检\hspace{.125\ccwd} 查\hspace{.125\ccwd} 报\hspace{.125\ccwd} 告},

    weihaicampus = {（威海）},

    cschoolnametitle = {\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}{
校}{授予学位单位}},
```

```
    cdatetitle = {答辩日期},

    caffiltitle = {所在单位},

    csubjecttitle = {学科},

    cdegreetitle = {申请学位},

    csupervisortitle = {导师},

    cassosupervisortitle = {副导师},

    ccosupervisortitle = {联合导师},

    title@csep = {: },

    natclassifiedindextitle = {国内图书分类号},

    internatclassifiedindextitle = {国际图书分类号},

    secretlevel = {密级},

    schoolidtitle = {学校代码},

    schoolid = {10213},
  }
\__hit_terms_set:nn {new}
  {
    authorsig = {作者签名: },

    teachersig = {导师签名: },

    frontdate = {日期: },

    authorizationtitle = {学位论文使用权限},

% \newcommand{\__hit_term:n {shenzhen@schoolbottommark}}{
%     \begin{center}
%       \songti\sanhao\textbf{哈工大（深圳）制}
%     \end{center}
%     \begin{center}
%       \songti\sanhao\textbf{二〇一二年三月}
%     \end{center}
% }
```

此处删除了时间

```
    harbin@schoolbottommark = {~
\begin{center}~
\songti\sanhao\textbf{研究生院制}~
```

```
\end{center}~
},

    harbin@bachelor@schoolbottommark = {~
\begin{center}~
% \lishu\xiaoer\textbf{哈尔滨工业大学教务处制}
\includegraphics{hithesis-hrb-bachelor-bottommark.eps}~
\end{center}~
},

    shenzhen@master@schoolbottommark = {~
\begin{center}~
\songti\sanhao\textbf{深圳校区教务部\nobreakspace{} 制}~
\end{center}~
},

    shenzhen@doctor@midterm@note = {~
\thispagestyle{empty}~
{\begin{center}~
\songti\sanhao\textbf{说\hspace{4\ccwd} 明}~
\end{center}~
}~
\vspace{1cm}\songti\sihao[2]~
\begin{enumerate}[itemsep=-4bp]~
\item 博士研究生学位论文中期报告一般在入学后的第五学期末完成。~
\item 此报告由学生本人填写，请导师签字后提交一份给检查小组。答辩结束后由检查组长签署意见。~
\item 报告经中期报告检查组长签字同意后，由学科部保存，以备论文答辩时参考。研究生院学生培养处将对研究生的学位论文中期报告进行抽查。~
\item 报告统一用 A4 纸打印。~
\end{enumerate}~
},

    datefill = {\hspace{2.5em} 年\hspace{1.5em} 月\hspace{1.5em} 日},
  }
\__hit_terms_set:nn {local}
  {
    hi = {嗨! thesis},
  }
\cs_set_nopar:Npn \hithesis {\textsc{hi}\-\textsc{Thesis}}
\cs_set_nopar:Npn \hit {哈尔滨工业大学}
⟨/artcfg⟩
```

4.5.7 浮动对象以及表格

设置浮动对象和文字之间的距离，由于规范中没有明确规定，根据经验，设置成正文汉字高度。

```
⟨*bookcls⟩
\bool_if:cTF {l__hit_postdoc_bool} {
```

```
\skip_set:Nn \intextsep {10.5bp}~
\skip_set:Nn \textfloatsep {10.5bp}~
\skip_set:Nn \floatsep {10.5bp}~
```

添加博后的浮动间距设置

```
} {
\skip_set:Nn \intextsep {\bool_if:cTF {l__hit_glue_bool} { 8.50398bp~\@plus 2.83465bp~\@minus 0bp}
\skip_set:Nn \textfloatsep {\bool_if:cTF {l__hit_glue_bool} { 8.50398bp~\@plus 2.83465bp~\@minus 0b
\skip_set:Nn \floatsep {\bool_if:cTF {l__hit_glue_bool} { 12bp~\@plus 2.83465bp~\@minus 0bp} { 12bp
}
```

此处设置 float 在 p 选项时间隔，此处不设置 \@fptop 和 \@fpbot 以确保居中。下面这组命令使浮动对象的缺省值稍微宽松一点，从而防止幅度对象占据过多的文本页面，也可以防止在很大空白的浮动页上放置很小的图形。

```
\tl_gput_right:Nn \appendix {\cs_set_nopar:Npn \thefigure {\thechapter-\arabic{figure}}}
\tl_gput_right:Nn \appendix {\cs_set_nopar:Npn \thetable {\thechapter-\arabic{table}}}
\tl_gput_right:Nn \appendix {\cs_set_nopar:Npn \theequation {\thechapter-\arabic{equation}}}
\cs_set:Npn \textfraction {0.15}
\cs_set:Npn \topfraction {0.85}
\cs_set:Npn \bottomfraction {0.65}
\cs_set:Npn \floatpagefraction {0.60}
```

由于我工的双标题，导致标题之下多出一空白字符的距离，去除。

\@makecaption 根据我工规范，本科和硕博的图题序号之后的空格不一样。《哈尔滨工业大学研究生学位论文撰写规范》2.13.1 中规定："每个图均应有图题（由图序和图名组成），图题不宜有标点符号，图名在图序之后空 1 个半角字符排写。"《哈尔滨工业大学本科生毕业论文撰写规范》2.13.1 中规定："每个图均应有图题（由图序和图名组成），图题不宜有标点符号，图名在图序之后空 1 个字符排写。" 我工规范中没有明确规定是否标题是否居中对齐，这里给出一个居中选项自行调整。注意，我工只规定："居中书写"。此处不额外添加悬挂处理。

```
\box_new:N \l__hit_caption_measure_box
\box_new:N \l__hit_caption_lines_box
\box_new:N \l__hit_caption_output_box
\box_new:N \l__hit_caption_last_line_box
\cs_new:Npn \__hit_caption_separator:nn #1#2
  {\bool_if:nTF {#1} {\hskip #2} {\enskip}}
\cs_new:Npn \__hit_caption_separator:
  {\__hit_caption_separator:nn
    {\bool_if_p:c {l__hit_bachelor_bool}} {\ccwd}}
\cs_new_protected:Npn \__hit_caption_measure:n #1
  {
    % Preserve the color grouping used by the original LaTeX savebox.
    \hbox_set:Nn \l__hit_caption_measure_box
      {\color@setgroup #1\color@endgroup}
  }
\cs_new_protected:Npn \__hit_caption_center_last:n #1
  {
    \skip_vertical:n {6.3bp}
    \group_begin:
      \vbox_set:Nn \l__hit_caption_lines_box {#1}~
```

```
      \vbox_set:Nn \l__hit_caption_output_box
        {
          \vbox_unpack_drop:N \l__hit_caption_lines_box ~
          \box_set_to_last:N \l__hit_caption_last_line_box
          \hbox_to_wd:nn {\textwidth}
            {\hfill\hbox_unpack:N \l__hit_caption_last_line_box ~\unskip\unskip\hfill}~
        }~
      \vbox_unpack_drop:N \l__hit_caption_output_box
    \group_end: ~
  }
\cs_new_protected:Npn \__hit_caption_typeset:n #1
  {
    \wuhao
    \__hit_caption_measure:n {#1}
    \dim_compare:nNnTF {\box_wd:N \l__hit_caption_measure_box} > {\hsize}
      {
        \bool_if:cTF {l__hit_capcenterlast_bool}
          {\__hit_caption_center_last:n {#1}} {#1}
        \par
      }
      {
        \legacy_if_gset_false:n {@minipage}
        \hbox_to_wd:nn {\hsize}
          {\hfil\box_use_drop:N \l__hit_caption_measure_box\hfil}
      }
  }
\cs_new_protected:Npn \__hit_caption_make:nn #1#2
  {
    \skip_vertical:N \abovecaptionskip
    \__hit_caption_typeset:n {#1\__hit_caption_separator: #2}
    \skip_vertical:N \belowcaptionskip
  }
\cs_set:Npn \@makecaption #1#2 {\__hit_caption_make:nn {#1}{#2}}
```

\LT@makecaption 有关 longtable 的 caption 支持

```
% Alignment entry must expand through to longtable's multicolumn before TeX
% starts the cell; the typesetting work inside the cell remains protected.
\cs_new:Npn \__hit_longtable_caption:nnn #1#2#3
  {
    \LT@mcol\LT@cols c
      {
        \hbox_to_wd:nn {0pt}
          {
            \hss
            \parbox[t]\LTcapwidth
              {
                \__hit_caption_typeset:n {#1{#2\__hit_caption_separator: ~}#3}
                \endgraf\skip_vertical:N \belowcaptionskip
              }
            \hss
```

```
        }
    }
}
\cs_set:Npn \LT@makecaption #1#2#3
  {\__hit_longtable_caption:nnn {#1}{#2}{#3}}
```

\longbionenumcaption 长表格的双语标题是一个坑. 因为第一不能用浮动格式，只能用 longtable 包中的 tabular，这样表题只能使用表格中前两行来写。这样出现了一个问题是，中英表题的间距，标题和表第一行间距，表格内部间距等多个变量的协调问题。这个问题只要使用 tabular 的形式，就是无解的。唯一的方法就是把这些参数都给用户列出来。以下，第 2，5 参数为中英双语标题内容，1，4 为标题参数。6 为中英标题间距，7 为表题和表格间距。

```
\cs_set_nopar:Npn \longbionenumcaption #1 #2 #3 #4 #5 #6 #7 {%
\@if@contemptyarg{#1}{\caption{#2}}{\caption[#1]{#2}}%
\cs_gset_eq:NN \@cont@oldtablename \tablename
\cs_gset_nopar:Npn \tablename {#3}~
\cs_gset_eq:NN \LT@c@ption \@cont@LT@nonumintoc
\\[#6]~
\@if@contemptyarg{#4}{\caption{#5}}{\caption[#4]{#5}}%
\cs_gset_eq:NN \tablename \@cont@oldtablename
\cs_gset_eq:NN \LT@c@ption \@cont@oldLT@c@ption
\vspace{#7}}
```

\ltfontsize 我们采用 longtable 来处理跨页的表格。同样我们需要设置其默认字体为五号，行距设置为 1.3 倍行距。此处还需要提供一个设置长表格内部字体的命令。

```
\cs_set_eq:NN \__hit_longtable_array:w \LT@array
\cs_set_nopar:Npn \LT@array {\wuhao\__hit_longtable_array:w}~% set default font size
\cs_new:Npn \ltfontsize #1 {\cs_set_nopar:Npn \LT@array {#1\__hit_longtable_array:w}}
```

图表名称及格式。

```
\cs_set:Npn \thesubtable {(\alph{subtable})}
\cs_set:Npn \thefigure {\arabic{chapter}-\arabic{figure}}% 使图编号为 7-1 的格式 %\protect{~}
\cs_set:Npn \thesubfigure {(\alph{subfigure})}% 使子图编号为 a) 的格式
\exp_args:NNne \tl_set_rescan:Nnn \p@subfigure
  {\char_set_catcode_active:n {126}}
  {\exp_not:N \thefigure \c_tilde_str}
% 使子图引用为 7-1 a) 的格式，保留写入 aux 的原版活动字符 ~。
\cs_set:Npn \thetable {\arabic{chapter}-\arabic{table}}% 使表编号为 7-1 的格式
```

调整罗列环境、浮动格式、间距。

```
\setitemize{leftmargin=0em,itemsep=0em,partopsep=0em,parsep=0em,topsep=0em,itemindent=3em}
\setenumerate{leftmargin=0em,itemsep=0em,partopsep=0em,parsep=0em,topsep=0em,itemindent=3.5em}
\cs_new:Npn \citeup #1 {\textsuperscript{\cite{#1}}}
```

此处删除 hang caption 的设置

```
\captionnamefont{\wuhao}
\captiontitlefont{\wuhao}
\cs_set:Npn \subcapsize {\wuhao}
\skip_set:Nn \abovecaptionskip {0pt}% 为了双标题之间的间距，不能设置
\skip_set:Nn \belowcaptionskip {0pt}
```

```
% 自定义项目列表标签及格式 \begin{publist} 列表项 \end{publist}
\newcounter{pubctr}~% 自定义新计数器
\cs_new:Npn \publist
 {%%%%% 定义新环境
\begin{list}{[\arabic{pubctr}]}~%% 标签格式
 {~
 \usecounter{pubctr}~
 \skip_set:Nn \leftmargin {1.7em}~% 左边界 \leftmargin =\itemindent + \labelwidth + \labelsep
 \skip_set:Nn \itemindent {0em}~% 标号缩进量
 \skip_set:Nn \labelsep {0.5em}~% 标号和列表项之间的距离，默认 0.5em
 \skip_set:Nn \rightmargin {0em}~% 右边界
 \skip_set:Nn \topsep {0ex}~% 列表到上下文的垂直距离
 \skip_set:Nn \parsep {0ex}~% 段落间距
 \skip_set:Nn \itemsep {0ex}~% 标签间距
 \skip_set:Nn \listparindent {0pt}~% 段落缩进量
 }}
\cs_new:Npn \endpublist
 {\end{list}}
```

设置定理定义格式

```
\renewtheoremstyle{plain}
{\item[\hskip\labelsep \theorem@headerfont ##1\ ##2\theorem@separator]}
{\item[\hskip\labelsep \theorem@headerfont ##1\ ##2\ ##3\theorem@separator]}
\theorembodyfont{\songti\rmfamily}
\theoremheaderfont{\heiti\rmfamily}
\theoremsymbol{$\square$}
\skip_set:Nn \theorempreskipamount {0pt}
\skip_set:Nn \theorempostskipamount {-2pt}
\skip_set:Nn \parindent {2em}
\arraycolsep=1.6pt
⟨/bookcls⟩
```

4.5.8 章节标题

```
⟨*bookcfg⟩
\bool_if:cTF {l__hit_english_bool} {
\ctexset{%
 chapter/name={Chapter\enskip,},~
 appendixname={Appendix},~
 contentsname={Contents},~
 listfigurename={List~of~Figures},~
 listtablename={List~of~Tables},~
 figurename={Figure},~
 tablename={Table},~
 bibname={References},~
}~
} {
\ctexset{%
 chapter/name={第，章},~
 appendixname= 附录,~
 contentsname={目\hspace{\ccwd} 录},~
```

```
listfigurename= 插图索引,~
listtablename= 表格索引,~
figurename= 图,~
tablename= 表,~
bibname= 参考文献,~
indexname= 索引,~
}~
}
\bool_if:cTF {l__hit_postdoc_bool} {
\ctexset{~
 contentsname={目录},~
}~
} {}
```

添加 Article 和 English 版本以及 postdoc 版本标题名称设置

```
\bool_if:cTF {l__hit_english_bool} {
\cs_new:Npn \equationname {Equation}~
} {
\cs_new:Npn \equationname {公式}~
}
\cs_new:Npn \listfigureename {Index~of~figure}
\cs_new:Npn \listtableename {Index~of~table}
\cs_new:Npn \listequationename {Index~of~equation}
\cs_new:Npn \listequationname {公式索引}
```

设置英文版公式名称

```
\cs_new:Npn \cabstractename {Abstract~(In~Chinese)}
```

此处删除冗余选项

```
\cs_new:Npn \eabstractcname {Abstract}
\cs_new:Npn \eabstractename {Abstract~(In~English)}
\bool_if:cTF {l__hit_postdoc_bool} {
\cs_new:Npn \cabstractcname {摘要}~
} {
\cs_new:Npn \cabstractcname {摘\hspace{\ccwd} 要}~
}
```

添加博后摘要

```
\__hit_terms_set:nn {new}
  {
    ckeywords@title = {关键词：},
  }
\__hit_terms_set:nn {local}
  {
    ckeywords@separator = {；},

    ekeywords@separator = {,},
  }
\cs_set_eq:NN \CJK@todaysave \today
\cs_set_nopar:Npn \CJK@todaysmall@short {\the\year 年 ~\the\month 月}
\cs_set_nopar:Npn \CJK@todaysmall {\the\year 年 ~\the\month 月 ~\the\day 日}
\cs_set_nopar:Npn \CJK@todaybig@short {\zhdigits{\the\year} 年\zhnumber{\the\month} 月}
```

```
\cs_set_nopar:Npn \CJK@todaybig {\zhdigits{\the\year} 年\zhnumber{\the\month} 月\zhnumber{\the\day}日}
\cs_set_nopar:Npn \CJK@today {\CJK@todaysmall}
\cs_set:Npn \today {\CJK@today}
\NewDocumentCommand \CJKtoday {O{1}}
 {%
\int_case:nn {#1}
 {
   {0} {\cs_set_nopar:Npn \CJK@today {\CJK@todaysave}~
}
   {1} {\cs_set_nopar:Npn \CJK@today {\CJK@todaysmall}~
}
   {2} {\cs_set_nopar:Npn \CJK@today {\CJK@todaybig}~
}
 }}
```

按照 word 示范要求，此处使用阿拉伯数字

```
\cdate{\bool_if:cTF {l__hit_bachelor_bool} {\CJK@todaysmall} {\CJK@todaysmall@short}}
\edate{\__hit_month_name:n {\month}\unskip,\ \ \the\year}
⟨/bookcfg⟩
```

按照我工要求，页面中标题之下不少于一行。

```
⟨*bookcls⟩
\cs_set_nopar:Npn \__hit_title_font: {%
 \bool_if:cTF {l__hit_arialtitle_bool} {\sffamily} {\heiti}}
```

t_chapter_titleformat:n 根据 issue: #220 为英文摘要标题增加 chapterbold 的判断

```
\cs_new:Npn \__hit_chapter_titleformat:n #1 {% 开启悬挂缩进选项
 \bool_if:cTF {l__hit_english_bool} {
 \MakeUppercase{#1}~
 } {
 \__hit_text_if_equal:nnTF{#1}{\eabstractcname}%
 {\bool_if:cTF {l__hit_chapterbold_bool} {\bfseries} {} #1}%
 % 实现章标题的居中加悬挂缩进,注意,此处一定是\CTEX@chaptername\CTEX@chapter@aftername，否则是英文标题长度
  {\bool_if:cTF {l__hit_chapterhang_bool}
    {\__hit_measure_width:Nn \tex_hangindent:D {\CTEX@chaptername\CTEX@chapter@aftername}
     \int_set:Nn \tex_hangafter:D {1}} {}#1}~
 }
}
```

添加英文版目录 chapter title 控制

```
\cs_new:Npn \__hit_chapter_engformat:n #1 {% 开启悬挂缩进选项
 \begin{center}~
 \__hit_title_font:
 \legacy_if:nTF {@mainmatter} {
 \xiaoer[1.57481]~
 } {
 \sanhao[1.57481]~
 }\bfseries
 #1~
```

```
\end{center}}
\cs_new:Npn \__hit_chapter_engnameformat:n #1 {% 开启悬挂缩进选项
\begin{center}~
\MakeUppercase{#1}~
\end{center}}
\cs_new:Npn \__hit_chapter_postdocformat:n #1 {\centering\__hit_title_font:\xiaoer[1.57481]\textbf{
```

添加博后标题格式

```
\box_new:N \l__hit_afterheading_indent_box
\cs_set:Npn \@afterheading {%
\@nobreaktrue
\everypar{%
\legacy_if:nTF {@nobreak} {
\@nobreakfalse
\clubpenalty 1~
\legacy_if:nTF {@afterindent} { } {
 {\box_set_to_last:N \l__hit_afterheading_indent_box}%
}
} {
\clubpenalty 1~
\everypar{}%
}}}
```

设置一到四级标题、目录、书签格式。

按照规范中规定行距的 mm 数定义各级行距

```
\bool_if:cTF {l__hit_english_bool} {
\ctexset{%
chapter={~
afterindent=true,~
pagestyle={hit@headings},~
beforeskip={28.34646bp},% 一个空行 1.57481 × 18
afterskip={28.74646bp},%0.8 应该不计算间距 0.8 × 18 + 0.57481×18
aftername={\par},~
format={\__hit_chapter_engformat:n},~
nameformat={\__hit_chapter_engnameformat:n},%\center 会影响之后全局
numberformat=\relax,~
titleformat={\__hit_chapter_titleformat:n},~
fixskip=true,~% 添加这一行去除默认间距
%hang=true,
},~
section={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 19.84252bp~\@plus 2.834646bp~\@minus 0bp~} { 19.8425
上下空 0.5 行
afterskip={\bool_if:cTF {l__hit_glue_bool} { 19.84252bp~\@plus 2.834646bp~\@minus 0bp~} { 19.84252
format={\__hit_title_font:\bool_if:cTF {l__hit_glue_bool} {\fontsize{15bp}{21bp~\@plus 1.677267bp~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
```

```
subsection={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 17.00787bp~\@plus 2.834646bp~\@minus 0bp~} { 17.0078
afterskip={\bool_if:cTF {l__hit_glue_bool} { 17.00787bp~\@plus 2.834646bp~\@minus 0bp~} { 17.00787
format={\__hit_title_font:\bool_if:cTF {l__hit_glue_bool} {\fontsize{14bp}{18bp~\@plus 1.842609bp~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
subsubsection={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 8.503937bp~\@plus 2.834646bp~\@minus 0bp~} { 8.50393
afterskip={\bool_if:cTF {l__hit_glue_bool} { 8.503937bp~\@plus 2.834646bp~\@minus 0bp~} { 8.503937
format={\__hit_title_font:\normalsize},~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
paragraph/afterindent=true,~
subparagraph/afterindent=true~
}~
} {
\bool_if:cTF {l__hit_postdoc_bool} {
\ctexset{%
chapter={~
afterindent=true,~
pagestyle={hit@headings},~
beforeskip={28.34646bp},% 一个空行 1.57481 × 18
afterskip={28.74646bp},%0.8 应该不计算间距 0.8 × 18 + 0.57481×18
aftername=\enspace,~
format={\__hit_chapter_postdocformat:n},%\center 会影响之后全局
nameformat=\relax,~
numberformat=\relax,~
titleformat=\__hit_chapter_titleformat:n,~
fixskip=true,~% 添加这一行去除默认间距
%hang=true,
},~
section={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 19.84252bp~\@plus 2.834646bp~\@minus 0bp~} { 19.8425
上下空 0.5 行
afterskip={\bool_if:cTF {l__hit_glue_bool} { 19.84252bp~\@plus 2.834646bp~\@minus 0bp~} { 19.84252
format={\__hit_title_font:\bool_if:cTF {l__hit_glue_bool} {\fontsize{15bp}{21bp~\@plus 1.677267bp~
aftername=\enspace,~
fixskip=true,~
break={},~
},~
subsection={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 17.00787bp~\@plus 2.834646bp~\@minus 0bp~} { 17.0078
```

```
afterskip={\bool_if:cTF {l__hit_glue_bool} { 17.00787bp~\@plus 2.834646bp~\@minus 0bp~} { 17.00787
format={\__hit_title_font:\bool_if:cTF {l__hit_glue_bool} {\fontsize{14bp}{18bp~\@plus 1.842609bp~
afternameq=\enspace,~
fixskip=true,~
break={},~
},~
subsubsection={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 8.503937bp~\@plus 2.834646bp~\@minus 0bp~} { 8.50393
afterskip={\bool_if:cTF {l__hit_glue_bool} { 8.503937bp~\@plus 2.834646bp~\@minus 0bp~} { 8.503937
format={\__hit_title_font:\normalsize},~
afternameq=\enspace,~
fixskip=true,~
break={},~
},~
paragraph/afterindent=true,~
subparagraph/afterindent=true~
}~
\par
} {
\ctexset{%
chapter={~
afterindent=true,~
pagestyle={hit@headings},~
beforeskip={\__hit_bool_expr:nTF{\__hit_bool_p:n{weihai}~&&~\__hit_bool_p:n{bachelor}}{49bp}{28.34
一个空行 1.57481 × 18
afterskip={\__hit_bool_expr:nTF{\__hit_bool_p:n{weihai}~&&~\__hit_bool_p:n{bachelor}}{46bp}{28.746
应该不计算间距 0.8 × 18 + 0.57481×18
```

本部硕士，深圳本科的序号与标题间距为两个半角空格，其余设置为一个半角空格，如果其他规范中有两个半角空格，欢迎提 issues

```
afternameq=%
{%
\__hit_bool_expr:nTF{(\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{master})~||~
(\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{bachelor})}%
{\quad}{\enspace}%
},~
```

添加本科生章标题加粗选项

```
format={\centering\__hit_title_font:\xiaoer[1.57481]\bool_if:cTF {l__hit_chapterbold_bool} {\bool_
影响之后全局
nameformat=\relax,~
numberformat=\relax,~
titleformat=\__hit_chapter_titleformat:n,~
fixskip=true,~% 添加这一行去除默认间距
%hang=true,
},~
section={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 19.84252bp~\@plus 2.834646bp~\@minus 0bp~} { 19.8425
上下空 0.5 行
```

```
afterskip={\bool_if:cTF {l__hit_glue_bool} { 19.84252bp~\@plus 2.834646bp~\@minus 0bp~} { 19.84252
format={\__hit_title_font:\bool_if:cTF {l__hit_glue_bool} {\fontsize{15bp}{21bp~\@plus 1.677267bp~

afternameˆ%
{%
\__hit_bool_expr:nTF{(\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{master})~||~
((\__hit_bool_p:n{shenzhen}~||~\__hit_bool_p:n{harbin})~&&~\__hit_bool_p:n{bachelor})}%
{\quad}{\enspace}%
},~
fixskip=true,~
break={},~
},~
subsection={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 17.00787bp~\@plus 2.834646bp~\@minus 0bp~} { 17.0078
afterskip={\bool_if:cTF {l__hit_glue_bool} { 17.00787bp~\@plus 2.834646bp~\@minus 0bp~} { 17.00787
format={\__hit_title_font:\bool_if:cTF {l__hit_glue_bool} {\fontsize{14bp}{18bp~\@plus 1.842609bp~

afternameˆ%
{%
\__hit_bool_expr:nTF{(\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{master})~||~
((\__hit_bool_p:n{shenzhen}~||~\__hit_bool_p:n{harbin})~&&~\__hit_bool_p:n{bachelor})}%
{\quad}{\enspace}%
},~
fixskip=true,~
break={},~
},~
subsubsection={~
afterindent=true,~
beforeskip={\bool_if:cTF {l__hit_glue_bool} { 8.503937bp~\@plus 2.834646bp~\@minus 0bp~} { 8.50393
afterskip={\bool_if:cTF {l__hit_glue_bool} { 8.503937bp~\@plus 2.834646bp~\@minus 0bp~} { 8.503937
format={\__hit_title_font:\normalsize},~

afternameˆ%
{%
\__hit_bool_expr:nTF{(\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{master})~||~
((\__hit_bool_p:n{shenzhen}~||~\__hit_bool_p:n{harbin})~&&~\__hit_bool_p:n{bachelor})}%
{\quad}{\enspace}%
},~
fixskip=true,~
break={},~
},~
paragraph/afterindent=true,~
subparagraph/afterindent=true~
}~
}
}
```

此处添加英文版和博后的 title 设置 设置附表、附录格式。

```
\bool_if:cTF {l__hit_english_bool} {
\NewDocumentCommand{\__hit_appendix_chapter:w}{s~o~m~o}{%
```

```
\IfBooleanT{#1}%
{~
\phantomsection
\IfValueTF{#2}{~
\markboth{#2}{#2}~
}{~
\markboth{#3}{#3}~
}~
\par
\__hit_text_if_equal:nnTF{#3}{\cabstractcname}%
{\relax}~
{\addcontentsline{toc}{chapter}{\texorpdfstring{\bool_if:cTF {l__hit_arialtitle_bool} {\sffamily\h
\par
\IfValueT{#4}{\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries #4}{#4}}}~
\__hit_latex_chapter:w*{#3}~
}~
}~
} {
```

添加英文版附表格式

```
\NewDocumentCommand{\__hit_appendix_chapter:w}{s~o~m~o}{%
\IfBooleanT{#1}%
{~
\phantomsection
\IfValueTF{#2}{~
\markboth{#2}{#2}~
}{~
\markboth{#3}{#3}~
}~
\__hit_text_if_equal:nnTF{#3}{\eabstractcname}%
{\addcontentsline{toc}{chapter}{\texorpdfstring{\bool_if:cTF {l__hit_arialtitle_bool} {\sffamily\h
{\addcontentsline{toc}{chapter}{\texorpdfstring{\bool_if:cTF {l__hit_arialtitle_bool} {\sffamily\h
\IfValueT{#4}{\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries #4}{#4}}}~
\__hit_latex_chapter:w*{#3}~
}~
}~
}
\cs_new:Npn \BiAppChapter #1 #2 {\phantomsection
\chapter{#1}~
```

此处添加保护选项

```
\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries \xiaosi Appendix~\thechapter\nobreakspace
}
```

设置章节命令。s: 星号，表示在目录中出不出现序号。m: 必须要有的选项，中文章节名称也即目录中名称，页眉中名称，书签中的名称。o: 可选内容，没有就默认是正文章节，如果有，则是英文目录中显示的内容。

\chapter

```
\cs_set_eq:NN \__hit_latex_chapter:w \chapter
\RenewDocumentCommand{\chapter}{s~o~m~o}{%
```

```
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}\phantomsection%
\IfBooleanTF{#1}%
{% if \chapter*
\IfNoValueTF{#2}%
{\__hit_latex_chapter:w*{#3}}%
{\__hit_latex_chapter:w*[#2]{#3}}%
\IfValueT{#4}{%
```

此处添加保护选项

```
\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries #4}{#4}}~
}~
}%
{% if \chapter
\IfNoValueTF{#2}%
{\__hit_latex_chapter:w{#3}}%
{\__hit_latex_chapter:w[#2]{#3}}%
\IfValueT{#4}{%
```

此处需删除章节的空白 此处添加保护选项

```
\addcontentsline{toe}{chapter}~
{%
\texorpdfstring
{\bfseries\relax \__hit_engtoc_chapapp: \thechapter\hspace{0.5em}\ignorespaces #4}~
{\__hit_engtoc_chapapp: \thechapter\hspace{0.5em}\ignorespaces #4}~
}~
}~
}~
}
```

\section

```
\cs_set_eq:NN \__hit_latex_section:w \section
\RenewDocumentCommand\section{s~o~m~o}{~
\IfBooleanTF{#1}%
{% if \section*
\IfNoValueTF{#2}%
{\__hit_latex_section:w*{#3}}%
{\__hit_latex_section:w*[#2]{#3}}%
\IfValueT{#4}{%
\addcontentsline{toe}{section}{#4}~
}~
}%
{% if \section
\IfNoValueTF{#2}%
{\__hit_latex_section:w{#3}}%
{\__hit_latex_section:w[#2]{#3}}%
\IfValueT{#4}{%
```

此处需删除章节的空白

```
\addcontentsline{toe}{section}{\protect\numberline{\use:c {thesection}}\ignorespaces #4}~
}~
}~
```

```
}
```

\subsection

```
\cs_set_eq:NN \__hit_latex_subsection:w \subsection
\RenewDocumentCommand\subsection{s~o~m~o}{~
 \IfBooleanTF{#1}%
 {% if \subsection*
 \IfNoValueTF{#2}%
 {\__hit_latex_subsection:w*{#3}}%
 {\__hit_latex_subsection:w*[#2]{#3}}%
 \IfValueT{#4}{%
 \addcontentsline{toe}{subsection}{#4}~
 }~
 }%
 {% if \subsection
 \IfNoValueTF{#2}%
 {\__hit_latex_subsection:w{#3}}%
 {\__hit_latex_subsection:w[#2]{#3}}%
 \IfValueT{#4}{%
```

此处需删除章节的空白

```
 \addcontentsline{toe}{subsection}{\protect\numberline{\use:c {thesubsection}}\ignorespaces #4}~
 }~
 }~
}
```

\subsubsection

```
\cs_set_eq:NN \__hit_latex_subsubsection:w \subsubsection
\RenewDocumentCommand\subsubsection{s~o~m~o}{~
 \IfBooleanTF{#1}%
 {% if \subsubsection*
 \IfNoValueTF{#2}%
 {\__hit_latex_subsubsection:w*{#3}}%
 {\__hit_latex_subsubsection:w*[#2]{#3}}%
 \IfValueT{#4}{%
 \addcontentsline{toe}{subsubsection}{#4}~
 }~
 }%
 {% if \subsubsection
 \IfNoValueTF{#2}%
 {\__hit_latex_subsubsection:w{#3}}%
 {\__hit_latex_subsubsection:w[#2]{#3}}%
 \IfValueT{#4}{%
```

此处需删除章节的空白

```
 \addcontentsline{toe}{subsubsection}{\protect\numberline{\use:c {thesubsubsection}}\ignorespaces #
 }~
 }~
}
```

4.5.9 定义封面

封面信息。

```
\__hit_info_declare:n{statesecrets}~% 密级
\__hit_info_declare:n{natclassifiedindex}~% 国内图书分类号
\__hit_info_declare:n{intclassifiedindex}~% 国际图书分类号

\__hit_info_declare:n{ctitlecover}~% 中文标题封面
\__hit_info_declare:n{ctitle}~% 中文标题
\__hit_info_declare:n{csubtitle}~% 中文副标题
\__hit_info_declare:n{cxueke}~% 中文学科
\__hit_info_declare:n{cauthor}~% 中文作者
\__hit_info_declare:n{csupervisor}~% 中文导师
\__hit_info_declare:n{cassosupervisor}~% 中文副导师
\__hit_info_declare:n{ccosupervisor}% 中文联合导师
\__hit_info_declare:n{caffil}% 中文院系
\__hit_info_declare:n{csubject}% 中文专业
```

根据 issue: #95 增加一个变量 `szshortcdate` 来存储答辩时间。根据 issue: #226 ，将 `szshortcdate` 改为 `firstpagecdate`，只要赋值就会显示。

```
\__hit_info_declare:n{firstpagecdate}
\__hit_info_declare:n{cdate}
\__hit_info_declare:n{cnumber}
\__hit_info_declare:n{cpositionname}
```

添加博后封皮选项

```
\__hit_info_declare:n{cfinishdate}
\__hit_info_declare:n{csubmitdate}
\__hit_info_declare:n{cstartdate}
\__hit_info_declare:n{cenddate}
```

添加博后封皮的 title 选项

```

\__hit_info_declare:n{cstudentid}%
\__hit_info_declare:n{cstudenttype}%
\__hit_info_declare:n{ctitleone}%
\__hit_info_declare:n{ctitletwo}%


\__hit_info_declare:n{etitle}~% 英文标题
\__hit_info_declare:n{esubtitle}~% 英文标题
\__hit_info_declare:n{exueke}~% 英文学科
\__hit_info_declare:n{eauthor}~% 英文作者
\__hit_info_declare:n{esupervisor}~% 英文导师
\__hit_info_declare:n{eassosupervisor}~% 英文副导师
\__hit_info_declare:n{ecosupervisor}~% 英文联合导师
\__hit_info_declare:n{eaffil}
\__hit_info_declare:n{esubject}
\__hit_info_declare:n{edate}
\__hit_info_declare:n{estudenttype}
```

```
\tl_new:N \g__hit_info_cabstract_tl
\cs_new:Npn \__hit_cabstract_collect:n #1
  {\__hit_info_set:nn {cabstract} {#1}}
\cs_new:Npn \cabstract
  {\Collect@Body\__hit_cabstract_collect:n}
\cs_new:Npn \endcabstract
  {}
\tl_new:N \g__hit_info_eabstract_tl
\cs_new:Npn \__hit_eabstract_collect:n #1
  {\__hit_info_set:nn {eabstract} {#1}}
\cs_new:Npn \eabstract
  {\Collect@Body\__hit_eabstract_collect:n}
\cs_new:Npn \endeabstract
  {}
\__hit_keywords_declare:n{ckeywords}
\__hit_keywords_declare:n{ekeywords}
\NewDocumentCommand\hitsetup{m}{\__hit_setup:nn{hit}{#1}}

\AfterPreamble{%
 \tl_if_empty:NTF \g__hit_info_firstpagecdate_tl{\firstpagecdate{\g__hit_info_cdate_tl}}{}%
}
⟨/bookcls⟩
```

定义封面中用到的词汇。

```
⟨*bookcfg⟩
\bool_if:cTF {l__hit_postdoc_bool} {
\__hit_terms_set:nn {global}
  {
    cxueweishort = {博},

    exuewei = {Doctor},

    exueweier = {Doctoral},
  }
} {}
```

添加博后选项

```

\bool_if:cTF {l__hit_doctor_bool} {
\__hit_terms_set:nn {global}
  {
    cxueweishort = {博},

    exuewei = {Doctor},

    exueweier = {Doctoral},

    cxuewei = {\__hit_term:n {cxueweishort} 士},

    cdegree = {\g__hit_info_cxueke_tl\__hit_term:n {cxuewei}},

```

```
    edegree = {\__hit_term:n {exuewei} \ of~\g__hit_info_exueke_tl},
  }
\__hit_terms_set:nn {local}
  {
    cauthortitle = {\__hit_term:n {cxueweishort} 士研究生},
  }
} {}
\bool_if:cTF {l__hit_master_bool} {
\__hit_terms_set:nn {global}
  {
    cxueweishort = {硕},

    exuewei = {Master},

    exueweier = {Master's},
  }
} {}
\__hit_terms_set:nn {global}
  {
    cxuewei = {\bool_if:cTF {l__hit_bachelor_bool} { 学士 ~} { \__hit_term:n {cxueweishort} 士}},

    cdegree = {\g__hit_info_cxueke_tl\__hit_term:n {cxuewei}},

    edegree = {\__hit_term:n {exuewei} \ of~\g__hit_info_exueke_tl},
  }
\__hit_terms_set:nn {local}
  {
    cauthortitle = {\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}{本科生}{\__hit_term:n {cxueweishort} 士研究生}},
  }

\__hit_terms_set:nn {local}
  {
    postdoc@classifiedindex = {分类号},

    postdoc@secretlevel = {密级},

    postdoc@UDC = {U\hspace{0.4\ccwd}D\hspace{0.4\ccwd}C},

    stage@opening = {开题},

    stage@midterm = {中期},

    stage@doctype = {报告},
  }


\__hit_terms_set:nn {local}
  {
    postdoc@number = {编号},
```

更改博后封皮中字间距

```
  postdoc@documenttitle = {博\hspace{0.58\ccwd} 士\hspace{0.58\ccwd} 后\hspace{0.58\ccwd} 研\hspace{0.58\ccwd} 究\hspace{0.58\ccwd} 工\hspace{0.58\ccwd} 作\hspace{0.58\ccwd} 报\hspace{0.58\c
告},

  postdoc@documenttitlenospace = {博士后研究工作报告},

  postdoc@finishdate = {工作完成日期},

  postdoc@submitdate = {报告提交日期},
 }

\__hit_terms_set:nn {local}
 {
  postdoc@authorname = {博\hspace{0.5\ccwd} 士\hspace{0.5\ccwd} 后\hspace{0.5\ccwd} 姓\hspace{0.5
名},

  postdoc@supervisor = {合\hspace{\ccwd} 作\hspace{\ccwd} 导\hspace{\ccwd} 师},

  postdoc@positionname = {流\hspace{0.5\ccwd} 动\hspace{0.5\ccwd} 站\hspace{0.5\ccwd} 名\hspace{0
称},

  postdoc@major = {专\hspace{\ccwd} 业\hspace{\ccwd} 名\hspace{\ccwd} 称},

  postdoc@startdate = {研究工作起始时间},

  postdoc@enddate = {研究工作期满时间},

  postdoc@separator = {： },
 }
```

添加博后选项 咱也不知道谁想的，其他校区的本科毕设叫“毕业设计（论文）”，哈尔滨的叫“毕业论文（设计）”

```

\__hit_terms_set:nn {local}
 {
  bachelor@cxuewei = {本科},

  bachelor@cthesisname = {毕业\bool_if:cTF {l__hit_harbin_bool} { 论文（设计）} { 设计（论文）}},
 }
```

添加本科开题封皮中 title 定义

```


\__hit_terms_set:nn {local}
 {
  bachelor@caffiltitle = {\bool_if:cTF {l__hit_harbin_bool} { 学院 ~} { 院（系）}},

```

```
⟨/bookcfg⟩
```

此处添加深圳校区设置

```
⟨*bookcfg⟩
  bachelor@caffiltitlesz = {学院},

  bachelor@caffiltitlewh = {学院},

  bachelor@cstudentidtitle = {学号},

  bachelor@cmajortitle = {专业},

  bachelor@csupervisortitle = {指导教师},

  bachelor@cthesistitle = {题目},
 }
```

深圳校区本科生第二封面中是“姓名”。

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{bachelor}}
{\__hit_terms_set:nn {local}
 {
  bachelor@cstudenttitle = {姓名},
 }}
{\__hit_terms_set:nn {local}
 {
  bachelor@cstudenttitle = {学生},
 }}
\__hit_terms_set:nn {local}
 {
  cthesisname = {学位论文},
 }


\__hit_terms_set:nn {local}
 {
  bachelor@cdatetitle = {日\hspace{2\ccwd} 期},
 }

\__hit_terms_set:nn {new}
 {
  bachelor@teachercomment = {指导教师评语：},

  bachelor@teachersign = {指导教师签字：},

  bachelor@checkdate = {检查日期：},
 }


\__hit_terms_set:nn {local}
 {
  cthesistitleprefix = {题\hspace{\ccwd} 目},
```

```
}


\__hit_terms_set:nn {local}
{
  graduate@caffiltitle = {院\hspace{3\ccwd}（系）},

  graduate@cmajortitle = {学\hspace{4\ccwd} 科},

  graduate@supervisor = {导\hspace{4\ccwd} 师},

  graduate@studenttitle = {研\hspace{1.5\ccwd} 究\hspace{1.5\ccwd} 生},

  graduate@studentid = {学\hspace{4\ccwd} 号},
}


\__hit_terms_set:nn {local}
{
  graduate@datetitle = {\bool_if:cTF {l__hit_opening_bool} {\__hit_term:n {stage@opening}
} {\bool_if:cTF {l__hit_midterm_bool} {\__hit_term:n {stage@midterm}} {}}\__hit_term:n {stage@docty
期},

  graduate@enrolldate = {入\hspace{0.6666666\ccwd} 学\hspace{0.6666666\ccwd} 时\hspace{0.6666666\
间},

  graduate@thesistitle = {论\hspace{0.6666666\ccwd} 文\hspace{0.6666666\ccwd} 题\hspace{0.6666666
目},

  graduate@cafflimajor = {学\hspace{0.6666666\ccwd} 科\hspace{0.6666666\ccwd} 专\hspace{0.6666666
业},
}


\__hit_terms_set:nn {local}
{
  cschoolname = {哈尔滨工业大学},

⟨/bookcfg⟩
```

此处添加深圳校区设置

```
⟨*bookcfg⟩

  shenzhencampus = {深圳校区},

  shenzhencampus@postdoc = {（深圳）},

  weihaicampus = {（威海）},

  harbincampus = {（哈尔滨）},
}
```

添加哈尔滨校区选项

```
\__hit_terms_set:nn {local}
 {
   cschoolnametitle = {\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}{校}{授予学位单位}},

   cdatetitle = {答辩日期},

   caffiltitle = {所在单位},
 }
```

本部研究生第二封面按照书写指南进行修改。学科”改为“学科或类别”。

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{master}}
 {\__hit_terms_set:nn {local}
  {
    csubjecttitle = {学科或类别},
  }}
 {\__hit_terms_set:nn {local}
  {
    csubjecttitle = {学科},
  }}
 % \def\__hit_term:n {csubjecttitle}{学科}
\__hit_terms_set:nn {local}
 {
   cdegreetitle = {申请学位},

   csupervisortitle = {导师},

   cassosupervisortitle = {副导师},

```

虽然只是深圳的要求，但是懒得写判断了，我估计用到的人不多，还有我怕明年深圳再改一波又白写了。

```
   ccosupervisortitle = {合作导师},

   title@csep = {: },

   eauthortitle = {Candidate},

   esupervisortitle = {Supervisor},

   eassosupervisortitle = {Associate~Supervisor},

   ecosupervisortitle = {Co-Supervisor~off~Campus},

   edegreetitle = {Academic~Degree~Applied~for},

   esubjecttitle = {Specialty},

```

```
    eaffiltitle = {Affiliation},
  }
```

深圳硕士英文封面是 Defense，其他为 Defence.

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}}
 {\__hit_terms_set:nn {local}
  {
    edatetitle = {Date~of~Defense},
  }}
 {\__hit_terms_set:nn {local}
  {
    edatetitle = {Date~of~Defence},
  }}
\__hit_terms_set:nn {local}
  {
    eschoolnametitle = {Degree-Conferring-Institution},

    eschoolname = {Harbin~Institute~of~Technology},

    title@esep = {:},

    natclassifiedindextitle = {国内图书分类号},

    internatclassifiedindextitle = {国际图书分类号},

    secretlevel = {密级},

    schoolidtitle = {学校代码},

    schoolid = {10213},
  }

\bool_if:cTF {l__hit_postdoc_bool} {
\__hit_terms_set:nn {local}
  {
    conclusion@ctitle = {结论},
  }
} {
\__hit_terms_set:nn {local}
  {
    conclusion@ctitle = {结\hspace{\ccwd} 论},
  }
}

\__hit_terms_set:nn {local}
  {
    conclusion@etitle = {Conclusions},

    bibname@etitle = {References},
  }
```

```
\bool_if:cTF {l__hit_postdoc_bool} {
\__hit_terms_set:nn {local}
  {
    acknowledgement@ctitle = {致谢},
  }
} {
\__hit_terms_set:nn {local}
  {
    acknowledgement@ctitle = {致\hspace{\ccwd} 谢},
  }
}

\__hit_terms_set:nn {local}
  {
    acknowledgement@etitle = {Acknowledgements},
  }
\bool_if:cTF {l__hit_postdoc_bool} {
\__hit_terms_set:nn {local}
  {
    resume@ctitle = {博士后个人简历},
  }
} {
\__hit_terms_set:nn {local}
  {
    resume@ctitle = {个人简历},
  }
}
```

添加博后封皮 title 的选项

```


\__hit_terms_set:nn {local}
  {
    correspondingaddr@ctitle = {永久通讯地址},
  }


\__hit_terms_set:nn {local}
  {
    resume@etitle = {Resume},

    authorization@ctitle = {哈尔滨工业大学学位论文原创性声明和使用权限},

    authorization@etitle = {Statement~of~copyright~and~Letter~of~authorization},
  }


\__hit_terms_set:nn {local}
  {
    resolution@ctitle = {学位论文评阅人、答辩委员会名单及答辩决议},
```

```

    resolution@etitle = {List~of~Dissertation~Reviewers~and~Defense~Committee~and~Defense~Resolutio
  }

\__hit_terms_set:nn {new}
  {
    authorsig = {作者签名：},

    teachersig = {导师签名：},

    frontdate = {日期：},

    denotation@ctitle = {物理量名称及符号表},

    denotation@etitle = {List~of~physical~quantity~and~symbol},

    authorizationtitle = {学位论文使用权限},
  }

\__hit_terms_set:nn {new}
  {
    shenzhen@schoolbottommark = {~
 \begin{center}~
 \songti\sanhao\textbf{哈工大（深圳）制}~
 \end{center}~
 \begin{center}~
 \songti\sanhao\textbf{二〇一二年三月}~
 \end{center}~
},

    harbin@schoolbottommark = {~
 \begin{center}~
 \songti\sanhao\textbf{研究生院制}~
 \end{center}~
 \begin{center}~
 \songti\sanhao\textbf{二〇一四年九月}~
 \end{center}~
},

    harbin@bachelor@schoolbottommark = {~
 \begin{center}~
 % \lishu\xiaoer\textbf{哈尔滨工业大学教务处制}
 \includegraphics{hithesis-hrb-bachelor-bottommark.eps}~
 \end{center}~
},
  }


\__hit_terms_set:nn {new}
```

```
{
  shenzhen@doctor@midterm@note = {~
\thispagestyle{empty}~
{\begin{center}~
\songti\sanhao\textbf{说\hspace{4\ccwd} 明}~
\end{center}~
}~
\vspace{1cm}\songti\sihao[2]~
\begin{enumerate}[itemsep=-4bp]~
\item 博士研究生学位论文中期报告一般在入学后的第五学期末完成。~
\item 此报告由学生本人填写，请导师签字后提交一份给检查小组。答辩结束后由检查组长签署意见。~
\item 报告经中期报告检查组长签字同意后，由学科部保存，以备论文答辩时参考。研究生院学生培养处将对研究生的学位论文中期报告进行抽查。~
\item 报告统一用 A4 纸打印。~
\end{enumerate}~
},
}
```

添加深圳中期报告内容

```
\__hit_terms_set:nn {new}
{
  authorizationtext = {%
学位论文是研究生在哈尔滨工业大学攻读学位期间完成的成果，知识产权归属哈尔滨工业大学。学位论文的使用权限如下：~
\par
(1) 学校可以采用影印、缩印或其他复制手段保存研究生上交的学位论文，并向国家图书馆报送学位论文；(2) 学校可以将学位论文部分或全部内容编入有关数据库进行检索和提供相应阅览服务；(3) 研究生毕业后发表与此学位论文研究成果相关的学术论文和其他成果时，应征得导师同意，且第一署名单位为哈尔滨工业大学。~
\par
保密论文在保密期内遵守有关保密规定，解密后适用于此使用权限规定。~
\par
本人知悉学位论文的使用权限，并将遵守有关规定。},
}
```

添加威海校区原创性声明内容

```
\__hit_terms_set:nn {new}
{
  declarename@bachelor = {%
\bool_if:cTF {l__hit_weihai_bool} {
本科毕业设计（论文）原创性声明 ~
} {
```

深圳校区更改了原创性声明的标题

```
\bool_if:cTF {l__hit_shenzhen_bool} {
哈尔滨工业大学深圳校区本科生毕业设计（论文）原创性声明 ~
} {
```

```
哈尔滨工业大学本科毕业论文（设计）原创性声明和使用权限 ~
}}
},
```

horizationtext@bachelor

```
    authorizationtext@bachelor = {%
\bool_if:cTF {l__hit_weihai_bool} {
 \kaishu
本人呈交给哈尔滨工业大学的学位论文，除所列参考文献和世所公认的文献外，全部是本人毕业设计期间在导师指导下的研究成果。除文中已经标明引用的内容外，本论文不包含任何其他个人或集体已经发表或撰写过的研究成果。对本文的研究做出贡献的个人和集体，均已在文中以明确方式标明。本人完全意识到本声明的法律结果由本人承担。~
\par
若有不实之处，本人愿意承担相关法律责任。~
} {
 \bool_if:cTF {l__hit_harbin_bool} {
本人郑重声明：此处所提交的本科毕业论文（设计）《\g__hit_info_ctitle_tl》，是本人在导师指导下，在哈尔滨工业大学攻读学士学位期间独立进行研究工作所取得的成果，且毕业论文（设计）中除已标注引用文献的部分外不包含他人完成或已发表的研究成果。对本毕业论文（设计）的研究工作做出重要贡献的个人和集体，均已在文中以明确方式注明。~
 } {
本人郑重声明:在哈尔滨工业大学攻读学士学位期间,所提交的毕业设计(论文)《\g__hit_info_ctitle_tl》,是本人在导师指导下独立进行研究工作所取得的成果。对本文的研究工作做出重要贡献的个人和集体，均已在文中以明确方式注明，其它未注明部分不包含他人已发表或撰写过的研究成果，不存在购买、由他人代写、剽窃和伪造数据等作假行为。~
\par
本人愿为此声明承担法律责任。~
 }
}
},
```

horizationtext@bachelor

```
    second@authorizationtext@bachelor = {%
本科毕业论文（设计）是本科生在哈尔滨工业大学攻读学士学位期间完成的成果，知识产权归属哈尔滨工业大学。本科毕业论文（设计）的使用权限如下：~
\par
（1）学校可以采用影印、缩印或其他复制手段保存本科生上交的毕业论文（设计），并向有关部门报送本科毕业论文（设计）；（2）根据需要，学校可以将本科毕业论文（设计）部分或全部内容编入有关数据库进行检索和提供相应阅览服务；（3）本科生毕业后发表与此毕业论文（设计）研究成果相关的学术论文和其他成果时，应征得导师同意，且第一署名单位为哈尔滨工业大学。~
\par
保密论文在保密期内遵守有关保密规定，解密后适用于此使用权限规定。~
\par
本人知悉本科毕业论文（设计）的使用权限，并将遵守有关规定。~
},
```

__hit_term:ndeclarename

```
    declarename = {学位论文原创性声明},

__hit_term:ndeclaretext
    declaretext = {%
本人郑重声明：此处所提交的学位论文《\g__hit_info_ctitle_tl》，是本人在导师指导下，在哈尔滨工业大学攻读学位期间独立进行研究工作所取得的成果，且学位论文中除已标注引用文献的部分外不包含他人完成或已发表的研究成果。对本学位论文的研究工作做出重要贡献的个人和集体，均已在文中以明确方式注明。},
  }

\bool_if:cTF {l__hit_english_bool} {
\__hit_terms_set:nn {new}
  {
    publication@ctitle = {Author's~Publications},
  }
} {
\bool_if:cTF {l__hit_postdoc_bool} {
\__hit_terms_set:nn {new}
  {
    publication@ctitle = {博士后期间的研究成果},
  }
} {
\__hit_bool_expr:nTF{(\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master})~||~(\__hit_bool_p:n{har
 {~
 \__hit_terms_set:nn {new}
  {
    publication@ctitle = {攻读\__hit_term:n {cxuewei} 学位期间取得创新性成果},
  }
 }~
 {~
 \__hit_terms_set:nn {new}
  {
    publication@ctitle = {攻读\__hit_term:n {cxuewei} 学位期间发表的论文及其他成果},
  }
 }~
\par
}
}
\__hit_terms_set:nn {new}
  {
    doctorpublication@ctitle = {博士生期间的研究成果},
  }
```

博后和英文版附录 title

```


\__hit_terms_set:nn {new}
  {
```

```
    datefill = {\hspace{2.5em} 年\hspace{1.5em} 月\hspace{1.5em} 日},
  }
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}}
 {~
 \__hit_terms_set:nn {new}
  {
    publication@etitle = {Innovative~achievements~for~Master},
  }
 }
 {~
 \__hit_terms_set:nn {new}
  {
    publication@etitle = {Papers~published~in~the~period~of~\bool_if:cTF {l__hit_master_bool} { mas
  }
 }
\__hit_terms_set:nn {local}
  {
    index@etitle = {Index},

    hi = {嗨! thesis},

    cbraceleft = { (},

    cbraceright = {) },

    ebraceleft = {(},

    ebraceright = {)},
  }
⟨/bookcfg⟩
```

中英文封面。

```
⟨*bookcls⟩
\dim_new:N \l__hit_cover_title_width_dim
\cs_new:Npn \__hit_cover_label:nn #1#2
  {\begin{CJKfilltwosides}[b]{#1}#2\end{CJKfilltwosides}}
\cs_new:Npn \__hit_cover_label:n #1
  {\__hit_cover_label:nn {\l__hit_cover_title_width_dim} {#1}}
\NewDocumentCommand \hit@put@title {O{\l__hit_cover_title_width_dim} m}
  {\__hit_cover_label:nn {#1}{#2}}

```

将哈尔滨本科的第一封面替换为 `\__hit_first_titlepage_other:`。之后应该会逐步替换掉, 看学校又会怎么改吧。

```
\cs_set_nopar:Npn \__hit_first_titlepage: {%
 \bool_if:cTF {l__hit_postdoc_bool} {
 \__hit_first_titlepage_postdoc:
 } {
 \bool_if:cTF {l__hit_bachelor_bool} {
 \bool_if:cTF {l__hit_harbin_bool} {
```

```
\__hit_first_titlepage_other:
} {
\__hit_first_titlepage_bachelor:
}
} {
\__hit_first_titlepage_other:
}
}
}

```

继深圳之后，本部的本科模板又开始整新活了，大改一通，醉好的结局就是都统一吧。

```
\cs_set_nopar:Npn \__hit_second_titlepage: {%
\bool_if:cTF {l__hit_postdoc_bool} {
\__hit_second_titlepage_postdoc:
} {
\bool_if:cTF {l__hit_bachelor_bool} {
\bool_if:cTF {l__hit_harbin_bool} {
\__hit_second_titlepage_harbinbachelor:
} {
\__hit_second_titlepage_bachelor:
}
} {
\__hit_second_titlepage_other:
}
}
}
```

添加博后封皮选项

```
\cs_new:Npn \__hit_first_titlepage_postdoc: {~
{\songti\sihao\cs_set:Npn \arraystretch {2}\ %
\begin{tabular}{@{}r@{}l@{\hspace{7\ccwd}}r@{}l@{\hspace{3em}}r}~
\__hit_term:n {postdoc@classifiedindex}&\underline{\makebox[6\ccwd]{\g__hit_info_natclassifiedinde
\__hit_term:n {postdoc@UDC}&\underline{\makebox[6\ccwd]{\g__hit_info_intclassifiedindex_tl}}&\__hi
\end{tabular}\cs_set:Npn \arraystretch {1}}~
\parbox[t][5cm][b]{\textwidth}{\begin{center}\heiti\xiaoer[2]\__hit_term:n {cschoolname}\par
\__hit_term:n {postdoc@documenttitle}\end{center}}~
\parbox[b][4cm][b]{\textwidth}{~
\songti\xiaosan[2]\cs_set:Npn \arraystretch {1.5}~
\begin{center}~
\begin{tabular}{c}~
\makebox[9cm]{\g__hit_info_ctitleone_tl}\\~
\hline
\makebox[9cm]{\g__hit_info_ctitletwo_tl}\\~
\hline
\end{tabular}\cs_set:Npn \arraystretch {1}~
\end{center}}~
\begin{center}~
\songti\sihao[2]\centering\g__hit_info_cauthor_tl
\end{center}~
\parbox[b][4.5cm][b]{\textwidth}{~
```

```
\songti\sihao[2]\cs_set:Npn \arraystretch {1.5}~
\begin{center}~
\begin{tabular}{rl}~
\__hit_term:n {postdoc@finishdate} &~\underline{\makebox[6cm]{\g__hit_info_cfinishdate_tl}}\\~
\__hit_term:n {postdoc@submitdate} &~\underline{\makebox[6cm]{\g__hit_info_csubmitdate_tl\hfill}}\
\end{tabular}\cs_set:Npn \arraystretch {1}~
\end{center}~
}~
\vfill
{\songti\sihao[2]~
\begin{center}~
\__hit_term:n {cschoolname}%
\bool_if:cTF {l__hit_harbin_bool} {
\__hit_term:n {harbincampus}
} {}
\bool_if:cTF {l__hit_weihai_bool} {
\__hit_term:n {weihaicampus}
} {}
\bool_if:cTF {l__hit_shenzhen_bool} {
\__hit_term:n {shenzhencampus@postdoc}
} {}
\end{center}~
\begin{center}~
\g__hit_info_cdate_tl
\end{center}}~
}


\cs_new:Npn \__hit_second_titlepage_postdoc: {~
\__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
{\xiaosi[1]\vspace*{0.65em}}%
{\xiaosi[1]\songti\textcolor[rgb]{1,1,1}{{\__hit_term:n {hi}}}}%
\vspace*{1.2cm}~
\begin{center}~
\parbox[t][8cm][t]{\textwidth}{~
\begin{center}\songti\sanhao[2]\g__hit_info_ctitlecover_tl\end{center}~
\vspace*{16bp}~
\begin{center}\sihao[2]\MakeUppercase{\g__hit_info_etitle_tl}\end{center}~
}~
\parbox[t][5cm][t]{\textwidth}{~
\begin{center}\songti\sihao[2]~
\begin{tabularx}{0.6\linewidth}{l@{\__hit_term:n {postdoc@separator}}l}~
\__hit_term:n {postdoc@authorname} &~\g__hit_info_cauthor_tl \\~
\__hit_term:n {postdoc@supervisor} &~\g__hit_info_csupervisor_tl \\~
\__hit_term:n {postdoc@positionname} &~\g__hit_info_cpositionname_tl \\~
\__hit_term:n {postdoc@major} &~\g__hit_info_csubject_tl \\~
\end{tabularx}~
\begin{tabularx}{0.6\linewidth}{l@{\__hit_term:n {postdoc@separator}}l}~
\__hit_term:n {postdoc@startdate} &~\g__hit_info_cstartdate_tl \\~
```

```
\__hit_term:n {postdoc@enddate} &~\g__hit_info_cenddate_tl \\~
\end{tabularx}~
\end{center}~
}~
\end{center}~
\vfill
{\songti\sihao[2]~
\begin{center}~
\__hit_term:n {cschoolname}%
\bool_if:cTF {l__hit_harbin_bool} {
\__hit_term:n {harbincampus}
} {}
\bool_if:cTF {l__hit_weihai_bool} {
\__hit_term:n {weihaicampus}
} {}
\bool_if:cTF {l__hit_shenzhen_bool} {
\__hit_term:n {shenzhencampus@postdoc}
} {}
\end{center}~
\begin{center}~
\g__hit_info_cdate_tl
\end{center}}}
```

添加博后封皮

```
\cs_new:Npn \__hit_first_titlepage_bachelor: {~
\__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
{\xiaosi[1]\vspace*{0.65em}}%
{\xiaosi[1]\textcolor[rgb]{1,1,1}{\songti{\__hit_term:n {hi}}}}%
\vspace*{1.2cm}~
\begin{center}~
\parbox[t][3.4cm][t]{\textwidth}{~
\begin{center}\erhao[0]\heiti\g__hit_info_ctitlecover_tl\end{center}~}~
\parbox[t][9cm][t]{\textwidth}{~
\begin{center}\xiaoer[0]\songti\textbf{\g__hit_info_cauthor_tl}\end{center}~
}~
\begin{center}~
\dim_set:Nn \l__hit_cover_title_width_dim {4em}~
\heiti\xiaosi
```

此处深圳校区竟然是左对齐。另外，院系名称也有点不一样。

```
\bool_if:cTF {l__hit_shenzhen_bool} {%
\begin{tabular}{r@{}>{\normalfont\songti\bfseries}lr@{}>{\normalfont\songti\bfseries}l}%
} {%
\begin{tabular}{rcrc}%
}%
{\__hit_cover_label:n {%
\bool_if:cTF {l__hit_harbin_bool} {%
```

```
\__hit_term:n {bachelor@caffiltitle}%
} {%
\bool_if:cTF {l__hit_shenzhen_bool} {%
\__hit_term:n {bachelor@caffiltitlesz}%
```

此处删除威海本科封皮中威海校区字样

```
% \else%
%   \ifhit@weihai%
%     \__hit_term:n {bachelor@caffiltitlewh}%
%   \fi%
} {}%
}%
```

根据 issue: #129 提供的规范修改深圳校区本科生的封面格式。要求信息的左侧是黑体，右侧是宋体或 Times New Roman 加粗。

```
}\__hit_term:n {title@csep}}~&~\g__hit_info_caffil_tl &~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cmajortitle}}\__hit_term:n {title@csep}}~&\g__hit_i
{\__hit_cover_label:n {\__hit_term:n {bachelor@cstudentidtitle}}\__hit_term:n {title@csep}}~
&~\g__hit_info_cstudentid_tl
&~{\__hit_cover_label:n {\__hit_term:n {bachelor@csupervisortitle}}\__hit_term:n {title@csep}}~
&\g__hit_info_csupervisor_tl
\end{tabular}~
\end{center}~
\vspace{2.6cm}~
```

```
{\xiaosi[0]\songti\textbf{%
\g__hit_info_firstpagecdate_tl
}~
}~
\end{center}~
}
```

此处本科生使用了哈尔滨工业大学 的 logo 且本科生论文标题使用了华文新魏字体，为了方便使用，此处使用了矢量化图片作为输入。

```
ond_titlepage_bachelor:

\dim_new:N \l__hit_cover_title_one_dim %
\dim_new:N \l__hit_cover_title_two_dim %
\cs_new:Npn \__hit_second_titlepage_bachelor: {~
\vspace*{0.8cm}~
\bool_if:cTF {l__hit_shenzhen_bool} {%
```

修改“(深圳)”为“深圳校区”。

```
% \centering{\includegraphics[width=6.2cm]{hithesis-shenzhenbthesistitle}~~\raisebox{0.2em}{\kaish
\centering{\includegraphics[width=15cm]{hithesis-shenzhenbthesistitle}}~
\vspace{-.5cm}~
} {%
```

删除威海字样

```
\centering{\includegraphics[width=6.2cm]{hithesis-logo}}~
```

```
}%
\vspace{1.3cm}~
\begin{center}~
\centering\includegraphics[width=10.5cm]{hithesis-bthesistitle}~
\vfill
\parbox[t][14.2cm][b]{\textwidth}~
{\heiti\xiaosan
\begin{center}~\cs_set:Npn \arraystretch {2.5}~\heiti
\dim_set:Nn \l__hit_cover_title_width_dim {5.5em}~
```

根据 issue: #129 提供的规范修改深圳校区本科生的封面格式。要求左侧黑体，右侧宋体或 Times New Roman.

```
\begin{tabular}%
{l@{\ \  }>{\bool_if:cTF {l__hit_shenzhen_bool} { \normalfont\songti } { }}c}~
```

深圳校区本科生封面与本部不同。

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{bachelor}}~
{%
{\xiaoer \__hit_cover_label:n {\__hit_term:n {bachelor@cthesistitle}}}~
&~\underline{\makebox[6.1cm][l]{%
\__hit_measure_width:Nn \l__hit_cover_title_one_dim {\xiaoer \g__hit_info_ctitleone_tl}%
\dim_compare:nNnTF {\l__hit_cover_title_one_dim} > {6.1cm} {\sanhao} {\xiaoer}\g__hit_info_ctitleo
&~\underline{\makebox[6.1cm][l]{%
\__hit_measure_width:Nn \l__hit_cover_title_two_dim {\xiaoer \g__hit_info_ctitletwo_tl}%
\dim_compare:nNnTF {\l__hit_cover_title_two_dim} > {6.1cm} {\sanhao} {\xiaoer}\g__hit_info_ctitlet
&~\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cstudenttitle}}}~
&~\underline{\makebox[6.1cm][l]{\g__hit_info_cauthor_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cstudentidtitle}}}~
&~\underline{\makebox[6.1cm][l]{\g__hit_info_cstudentid_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@caffiltitlesz}}}~
&~\underline{\makebox[6.1cm][l]{\g__hit_info_caffil_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cmajortitle}}}~
&~\underline{\makebox[6.1cm][l]{\g__hit_info_csubject_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@csupervisortitle}}}~
&~\underline{\makebox[6.1cm][l]{\g__hit_info_csupervisor_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {cdatetitle}}}~
&~\underline{\makebox[6.1cm][l]{\g__hit_info_cdate_tl}}~
}~
{%
{\xiaoer \__hit_cover_label:n {\__hit_term:n {bachelor@cthesistitle}}}~
&~\underline{\makebox[6.1cm]{%
\__hit_measure_width:Nn \l__hit_cover_title_one_dim {\xiaoer \g__hit_info_ctitleone_tl}%
\dim_compare:nNnTF {\l__hit_cover_title_one_dim} > {6.1cm} {\sanhao} {\xiaoer}\g__hit_info_ctitleo
&~\underline{\makebox[6.1cm]{%
\__hit_measure_width:Nn \l__hit_cover_title_two_dim {\xiaoer \g__hit_info_ctitletwo_tl}%
\dim_compare:nNnTF {\l__hit_cover_title_two_dim} > {6.1cm} {\sanhao} {\xiaoer}\g__hit_info_ctitlet
&~\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cmajortitle}}}~
&~\underline{\makebox[6.1cm]{\g__hit_info_csubject_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cstudentidtitle}}}~
```

```
&~\underline{\makebox[6.1cm]{\g__hit_info_cstudentid_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@cstudenttitle}}}~
&~\underline{\makebox[6.1cm]{\g__hit_info_cauthor_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {bachelor@csupervisortitle}}}~
&~\underline{\makebox[6.1cm]{\g__hit_info_csupervisor_tl}}\\~
{\__hit_cover_label:n {\__hit_term:n {cdatetitle}}}~
&~\underline{\makebox[6.1cm]{\g__hit_info_cdate_tl}}~
}~
\end{tabular}~\cs_set:Npn \arraystretch {1}~
\end{center}~
}~
\end{center}~
}
```

又为哈尔滨本科增加一个长度命令 `\l__hit_cover_school_date_height_dim`

```
\dim_new:N \l__hit_cover_school_date_height_dim
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}
{\dim_set:Nn \l__hit_cover_school_date_height_dim {10.8mm}}
{\dim_set:Nn \l__hit_cover_school_date_height_dim {1.4cm}}

\dim_new:N \l__hit_cover_english_title_dim %
```

_first_titlepage_other:

```
\cs_new:Npn \__hit_first_titlepage_other: {~
% 封面一
\__hit_text_if_equal:nnTF{\hit@fontset}{siyuan}%
{\xiaosi[1]\vspace*{0.65em}}%
{\xiaosi[1]\textcolor[rgb]{1,1,1}{\songti{\__hit_term:n {hi}}}}%
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}~
{\vspace*{8.5mm}}{\vspace*{1.2cm}}~
\begin{center}~
\begin{center}\xiaoyi[1]\songti\textbf{%
```

修改哈尔滨本科的第一封面，看起来和研究生的要统一起来了。

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}~
{\__hit_term:n {bachelor@cxuewei}\__hit_term:n {bachelor@cthesisname}}~
{\__hit_term:n {cxuewei}\__hit_term:n {cthesisname}}~
}\end{center}~
```

修改第二行标题 根据 issue: #97 看来，issue: #149 的情报并不完全准确，深圳硕士还要加上这个 `\cstudenttype`

```
\begin{center}\xiaoer[1]\songti\bfseries
\__hit_bool_expr:nTF
{~!\__hit_bool_p:n{shenzhen}~&&~!\__hit_bool_p:n{master}~&&~\__hit_bool_p:n{fulltime}~}{}~
{~
\__hit_term:n {cbraceleft}\g__hit_info_cstudenttype_tl\__hit_term:n {cbraceright}
}~
\end{center}~
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{bachelor}}~
```

```
{\vspace{-3.5mm}}{}~
\parbox[t][7.8cm][t]{\textwidth}{%
\begin{center}\erhao\heiti\g__hit_info_ctitlecover_tl\end{center}~
\bool_if:cTF {l__hit_subtitle_bool} {\begin{center}\hspace{-4em}\xiaoer\heiti\pozhehao\g__hit_info_
\__hit_measure_width:Nn \l__hit_cover_english_title_dim {\erhao\g__hit_info_etitle_tl\bool_if:cTF
\begin{center}%
\dim_compare:nNnTF {\l__hit_cover_english_title_dim} > {250mm} {\xiaoer} {\erhao}%
\bool_if:cTF {l__hit_harbin_bool} {\bool_if:cTF {l__hit_bachelor_bool} {
\vspace{1.27cm}~
} {}} {}
\textbf{\MakeUppercase{\g__hit_info_etitle_tl}%
\bool_if:cTF {l__hit_subtitle_bool} {\__hit_term:n {title@esep}\MakeUppercase{\g__hit_info_esubtit
\par
\parbox[t][7.4cm][t]{\textwidth}{~
\begin{center}\xiaoer\songti\textbf{\g__hit_info_cauthor_tl}\end{center}}\\~
\bool_if:cTF {l__hit_harbin_bool} {\bool_if:cTF {l__hit_bachelor_bool} {
\vspace{-12.5mm}~
} {}} {}
\parbox[t][\l__hit_cover_school_date_height_dim][t]{\textwidth}{\centering\kaishu\xiaoer\textbf{\_
{\songti\xiaoer\textbf{\g__hit_info_firstpagecdate_tl}}~
\end{center}~
}
```

tlepage_harbinbachelor:

```
\cs_new:Npn \__hit_second_titlepage_harbinbachelor: {~
\begin{center}~
\vspace*{-3mm}~
\begin{flushright}~
\xiaosi
% SimSun 下效果最好
\raisebox{0em}{% 盒子高度调整，感觉 Fandol 用-.05em 比较好
\fboxsep=0pt\fbox{\rule{.7em}{0pt}\rule{0pt}{.7em}}%
\llap{\raisebox{0em}{\checkmark}}%
}\hspace{.05em} 毕业论文%
\hspace{1em}%
\raisebox{0em}{% 盒子高度调整，同上
\fboxsep=0pt\fbox{\rule{.7em}{0pt}\rule{0pt}{.7em}}%
}\hspace{.05em} 毕业设计%
\hfill%
\__hit_term:n {secretlevel}：公开%\hspace{14mm}% 右侧不再留空白
\end{flushright}~
\vspace{2.1cm}~
{\songti\bfseries\xiaoer \__hit_term:n {bachelor@cxuewei} \__hit_term:n {bachelor@cthesisname}}\\[
\parbox[t][5cm][t]{\textwidth}{%
\erhao
\begin{center}~
\heiti
\g__hit_info_ctitlecover_tl%
```

```
\end{center}~
\bool_if:cTF {l__hit_subtitle_bool} {
\begin{center}\hspace{-4em}\xiaoer\heiti\pozhehao\g__hit_info_csubtitle_tl\end{center}} {}
}~
\vspace{16mm}~
{\sihao
\dim_set:Nn \l__hit_cover_title_width_dim {6em}~
\begin{center}~\cs_set:Npn \arraystretch {1.62}~\songti
\begin{tabular}{l@{\__hit_term:n {title@csep}}l}~
{\heiti \__hit_cover_label:n {\__hit_term:n {cauthortitle}}}~&~\g__hit_info_cauthor_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {bachelor@cstudentidtitle}}}~&~\g__hit_info_cstudentid
{\heiti \__hit_cover_label:n {\__hit_term:n {bachelor@csupervisortitle}}}~&~\g__hit_info_csupervis
{\heiti \__hit_cover_label:n {\__hit_term:n {bachelor@cmajortitle}}}~&~\g__hit_info_csubject_tl \\
{\heiti \__hit_cover_label:n {\__hit_term:n {bachelor@caffiltitle}}}~&~\g__hit_info_caffil_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {cdatetitle}}}~&~\g__hit_info_cdate_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {cschoolnametitle}}}~&~\__hit_term:n {cschoolname}
\end{tabular}~\cs_set:Npn \arraystretch {1}~
\end{center}~}~
\end{center}~
}
```

second_titlepage_other:

```

% 内封
\cs_new:Npn \__hit_second_titlepage_other: {~
\begin{center}~
```

生成头部信息，使用 \hfill 将第二列信息推到右侧。本部硕士第二封面的信息的对齐方式不同。

```
{~
\songti \xiaosi
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~\__hit_bool_p:n{master}}~
{~
\begin{tabular}{l}~
\__hit_term:n {natclassifiedindextitle}: ~\g__hit_info_natclassifiedindex_tl\\~
\__hit_term:n {internatclassifiedindextitle}: ~\g__hit_info_intclassifiedindex_tl
\end{tabular}\hfill
\begin{tabular}{l}~
\__hit_term:n {schoolidtitle}: \__hit_term:n {schoolid}\\~
\__hit_term:n {secretlevel}: \g__hit_info_statesecrets_tl
\end{tabular}~
}%
{~
\begin{tabular}{@{}r@{: }l@{}}~
\__hit_term:n {natclassifiedindextitle} &~\g__hit_info_natclassifiedindex_tl\\~
\__hit_term:n {internatclassifiedindextitle} &~\g__hit_info_intclassifiedindex_tl
\end{tabular}\hfill
\begin{tabular}{@{}r@{: }l@{}}~
\__hit_term:n {schoolidtitle} &~\__hit_term:n {schoolid}\\~
\__hit_term:n {secretlevel} &~\g__hit_info_statesecrets_tl
```

```
\end{tabular}~
}%
}~
\parbox[t][3.2cm][t]{\textwidth}{\begin{center}~\end{center}~}~
```

本部硕/博士第二页设置为“硕/博士学位论文”。深圳的我把博士也一块改了，要不然要重写一下判断，如果发现博士不需要改的话再重写吧…博士在 issue: #222 还是需要改...

```
\parbox[t][2.4cm][t]{\textwidth}{~
\xiaoer[1]~
\begin{center}~
\songti\bfseries
\__hit_bool_expr:nTF{(\__hit_bool_p:n{harbin}~&&~(\__hit_bool_p:n{master}~||~\__hit_bool_p:n{docto
{\__hit_term:n {cxuewei}}{\__hit_term:n {cdegree}}\__hit_term:n {cthesisname}
\end{center}}~
\parbox[t][5cm][t]{\textwidth}{\erhao
\begin{center}\heiti\g__hit_info_ctitlecover_tl\end{center}~
\bool_if:cTF {l__hit_subtitle_bool} {\begin{center}\hspace{-4em}\xiaoer\heiti\pozhehao\g__hit_info_
\parbox[t][9.8cm][b]{\textwidth}~
{\sihao
\dim_set:Nn \l__hit_cover_title_width_dim {6em}~
\begin{center}~\cs_set:Npn \arraystretch {1.62}~\songti
\begin{tabular}{l@{\__hit_term:n {title@csep}}l}~
{\heiti \__hit_cover_label:n {\__hit_term:n {cauthortitle}}}~&~\g__hit_info_cauthor_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {csupervisortitle}}}~&~\g__hit_info_csupervisor_tl\\~
\tl_if_empty:NTF \g__hit_info_cassosupervisor_tl {} {%
{\heiti \__hit_cover_label:n {\__hit_term:n {cassosupervisortitle}}}&~\g__hit_info_cassosupervisor
}
\tl_if_empty:NTF \g__hit_info_ccosupervisor_tl {} {%
{\heiti \__hit_cover_label:n {\__hit_term:n {ccosupervisortitle}}}~&~\g__hit_info_ccosupervisor_tl
}
{\heiti \__hit_cover_label:n {\__hit_term:n {cdegreetitle}}}~&~\__hit_term:n {cdegree}\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {csubjecttitle}}}~&~\g__hit_info_csubject_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {caffiltitle}}}~&~\g__hit_info_caffil_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {cdatetitle}}}~&~\g__hit_info_cdate_tl\\~
{\heiti \__hit_cover_label:n {\__hit_term:n {cschoolnametitle}}}~&~\__hit_term:n {cschoolname}
\end{tabular}~\cs_set:Npn \arraystretch {1}~
\end{center}~}~
\end{center}~
}
```

__hit_engcover:

```
% 英文封面
\NewDocumentCommand \emultiline {O{c} m}
 {%
\cs_set:Npn \arraystretch {1}%
\begin{tabular}[#1]{@{}l@{}}#2\end{tabular}~\cs_set:Npn \arraystretch {1.3}%
}
\cs_new:Npn \__hit_engcover: {~
```

```
{%
\xiaosi[1.667]\noindent Classified~Index:~\g__hit_info_natclassifiedindex_tl \\[8pt]~
U.D.C:~\g__hit_info_intclassifiedindex_tl %
}~
\vspace*{1em}~
\begin{center}~

```

深圳硕士英文封面第一行文字不同，修改。又要修改啦，哈哈。本部硕博英文封面第一行不包含学科类别。issue: #123

```
\parbox[t][1.6cm][t]{\textwidth}{\begin{center}~\end{center}~}~
\parbox[t][3.5cm][t]{\textwidth}{\xiaoer[1]~
\begin{center}~
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~&&~\__hit_bool_p:n{master}}~
{%
Dissertation~for~the~Master~Degree~
}~
{%
\__hit_bool_expr:nTF{\__hit_bool_p:n{harbin}~&&~(\__hit_bool_p:n{master}~||~\__hit_bool_p:n{doctor
{Dissertation~for~the~{\__hit_term:n {exueweier}}~Degree}~
{Dissertation~for~the~{\__hit_term:n {exueweier}}~Degree~in~\g__hit_info_exueke_tl}~
}~
\end{center}~
\bool_if:cTF {l__hit_fulltime_bool} {\relax%
} {%
\begin{center}\__hit_term:n {ebraceleft}\g__hit_info_estudenttype_tl\__hit_term:n {ebraceright}\en
}}~% 与中文保持一致，删除 in {\g__hit_info_exueke_tl}
\parbox[t][7cm][t]{\textwidth}{%
\__hit_measure_width:Nn \l__hit_cover_english_title_dim {\erhao\g__hit_info_etitle_tl\bool_if:cTF
\begin{center}%
% \changes{v3.1e}{2026/01/07}{英文内封标题默认二号字，可通过 etitleauto 选项启用自动调整}
\bool_if:cTF {l__hit_etitleauto_bool} {
\dim_compare:nNnTF {\l__hit_cover_english_title_dim} > {450mm} {\xiaoer} {\erhao}%
} {
\erhao%
}%
\textbf{\MakeUppercase{\g__hit_info_etitle_tl}%
\bool_if:cTF {l__hit_subtitle_bool} {\__hit_term:n {title@esep}\MakeUppercase{\g__hit_info_esubtitl
%  若信息内容不太长，不会引起信息内容分行时，使用 tabular 环境，否则使用下面的 tabularx
环境。
{\sihao\cs_set:Npn \arraystretch {1.3}~
\begin{tabular}{@{}l@{\nobreakspace{}}l@{}}~
\textbf{\__hit_term:n {eauthortitle}\__hit_term:n {title@esep}}~&~\g__hit_info_eauthor_tl\\~
\textbf{\__hit_term:n {esupervisortitle}\__hit_term:n {title@esep}}~&~\g__hit_info_esupervisor_tl\
\tl_if_empty:NTF \g__hit_info_eassosupervisor_tl {} {%
\textbf{\__hit_term:n {eassosupervisortitle}\__hit_term:n {title@esep}}~&~\g__hit_info_eassosuperv
}
\tl_if_empty:NTF \g__hit_info_ecosupervisor_tl {} {%
\textbf{\__hit_term:n {ecosupervisortitle}\__hit_term:n {title@esep}}~&~\g__hit_info_ecosupervisor
}
```

```
\textbf{\__hit_term:n {edegreetitle}\__hit_term:n {title@esep}}~&~\__hit_term:n {edegree}\\~
\textbf{\__hit_term:n {esubjecttitle}\__hit_term:n {title@esep}}~&\g__hit_info_esubject_tl\\~
\textbf{\__hit_term:n {eaffiltitle}\__hit_term:n {title@esep}}~&\g__hit_info_eaffil_tl\\~
\textbf{\__hit_term:n {edatetitle}\__hit_term:n {title@esep}}~&~\g__hit_info_edate_tl\\~
\textbf{\__hit_term:n {eschoolnametitle}\__hit_term:n {title@esep}}~&~\__hit_term:n {eschoolname}
\end{tabular}\cs_set:Npn \arraystretch {1}}~
\end{center}~
}

```

\makecover

```

% \changes{v2.0.10}{2019/6/25}{此处添加提交图书馆电子版的逻辑}
% 博后没有英文封皮
% \changes{v3.0.0}{2020/05/21}{博后没有英文封皮}
\cs_new_protected:Npn \__hit_clearpage:
  { \bool_if:cTF {l__hit_openright_bool} { \cleardoublepage } { \clearpage } }
\cs_new_protected:Npn \__hit_cover_break:
  { \bool_if:cTF {l__hit_library_bool} { \clearpage } { \cleardoublepage } }
\cs_set_protected:Npn \makecover
  {
    \phantomsection
    \pdfbookmark [0] { \g__hit_info_ctitle_tl } { ctitle }
    \xiaosi [1]
    \begin { titlepage }
      \bool_lazy_and:nnF
        { \bool_if_p:c {l__hit_weihai_bool} }
        { \bool_if_p:c {l__hit_bachelor_bool} }
        { \__hit_first_titlepage: \__hit_cover_break: }
      \__hit_second_titlepage:
      \__hit_cover_break:
      \bool_lazy_or:nnF
        { \bool_if_p:c {l__hit_postdoc_bool} }
        { \bool_if_p:c {l__hit_bachelor_bool} }
        {
          \phantomsection
          \pdfbookmark [0] { \g__hit_info_etitle_tl } { etitle }
          \__hit_engcover:
          \__hit_cover_break:
        }
    \end { titlepage }
    \normalsize
    \__hit_makeabstract:
  }

```

生成参考文献和关键字。

```
\box_new:N \l__hit_keywords_label_box
% Common with local dev; callers supply their box builder and hanging policy.
```

```
\cs_new_protected:Npn \__hit_keywords_typeset:NNnnn #1#2#3#4#5
 {
   \group_begin:
     #1 #2 {#4}
     \noindent
     \bool_if:nT {#3}
       {
         \dim_set:Nn \tex_hangindent:D {\box_wd:N #2}
         \int_set:Nn \tex_hangafter:D {1}
       }
     \box_use_drop:N #2 #5\par
   \group_end:
 }
\cs_new_protected:Npn \__hit_keywords_typeset:nn #1#2
 {
   \__hit_keywords_typeset:NNnnn
     \hbox_set:Nn \l__hit_keywords_label_box {\c_true_bool} {#1} {#2}
 }

\cs_new:Npn \__hit_makeabstract: {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \bool_if:cTF {l__hit_english_bool} {
 \addtocontents{toc}{\nobreakspace{}\hfill\textbf{Page}\par}~
 \addtocontents{\ext@table}{{\noindent\sihao\textbf{Table}\nobreakspace{}\hfill\textbf{Page}}\par}%
 \addtocontents{\ext@figure}{{\noindent\sihao\textbf{Figure}\nobreakspace{}\hfill\textbf{Page}}\par
 } {}
```

英文版目录之前有 page 行

```
 \__hit_appendix_chapter:w*{\cabstractcname}[\cabstractename]~
 \pagestyle{hit@headings}~
 \pagenumbering{Roman}~
 \hit@cabstract
 \vskip12bp~
 \__hit_keywords_typeset:nn {\bool_if:cTF {l__hit_postdoc_bool} {\bfseries} {}\heiti\__hit_term:n {
```

博后关键字加粗

```
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\eabstractcname}[\eabstractename]~
 \hit@eabstract
 \vskip12bp~
 \__hit_keywords_typeset:nn {\textbf{Keywords:\enskip}}{\g__hit_info_ekeywords_tl}}
```

定义符号表。

```
\NewDocumentEnvironment {denotation} {O{2.5cm}}
 {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\__hit_term:n {denotation@ctitle}}[\__hit_term:n {denotation@etitle}]~
\setcounter{table}{0}~
\cs_set:Npn \thetable {\arabic{table}}% 使表编号为 1 的格式
 }
 {\cs_set:Npn \thetable {\arabic{chapter}-\arabic{table}}% 使表编号为 7-1 的格式
```

```
\setcounter{table}{0}}%
```

定义索引、目录格式

```
\cs_set_nopar:Npn \__hit_starttoc:n #1{% #1: float type, prepend type name in \listof*** entry.
 \cs_set_eq:NN \oldnumberline \numberline
 \cs_set_nopar:Npn \numberline ##1{\oldnumberline{\use:c {#1name}\hskip.4em~##1}}~
 \@starttoc{\use:c {ext@#1}}~
 \cs_set_eq:NN \numberline \oldnumberline }
\cs_set_nopar:Npn \__hit_listof:nn #1#2{% #1: float type
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*[\use:c {list#1name}]{\use:c {list#1name}}[#2]~
 \__hit_starttoc:n{#1}}
```

只有英文版用到，且需要 clearpage

```


\cs_set:Npn \listoffigures {\__hit_listof:nn{figure}{\listfigureename}}
\cs_set_nopar:Npn \l@figure {\addvspace{6bp}\@dottedtocline{1}{0em}{4em}}
\cs_set:Npn \listoftables {\__hit_listof:nn{table}{\listtableename}}
\cs_set_eq:NN \l@table \l@figure
\cs_set_nopar:Npn \ext@equation {loe}

\cs_set_protected:Npn \equcaption #1
  {
    \group_begin:
      % hyperref may include this anchor in the argument of tagform@.
      % It belongs to the displayed equation, not to the protected index write.
      \cs_set_eq:NN \Hy@make@anchor \prg_do_nothing:
      \addcontentsline {\ext@equation} {equation}
        {\protect\numberline {#1}}
    \group_end:
  }

\cs_new:Npn \listofequations {\__hit_listof:nn{equation}{\listequationename}}
\cs_set_eq:NN \l@equation \l@figure
```

4.5.10 目录

本科文科生要求目录有四级。

```
\setcounter{secnumdepth}{3}
\setcounter{tocdepth}{2}
\bool_if:cTF {l__hit_bachelor_bool} {\bool_if:cTF {l__hit_tocfour_bool} {\setcounter{tocdepth}{3}}
```

工大论文目录中的潜规则：目录中的目录位置是空白。

\tableofcontents

```
\cs_set:Npn \tableofcontents {%
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}

\bool_if:cTF {l__hit_english_bool} {} {
 \phantomsection
 \markboth{\contentsname}{ccontent}~
```

```
\__hit_latex_chapter:w*{\contentsname}~
\pdfbookmark[0]{\contentsname}{ccontent}~
\normalsize\@starttoc{toc}~
}
\bool_if:cTF {l__hit_doctor_bool} {
\tableofengcontents
```

有些硕士的范例中带有英文目录，这里添加手动开关

```
} {
\bool_if:cTF {l__hit_engtoc_bool} {
\tableofengcontents
} {}
}
```

将英文目录潜入中文目录命令中，进一步简化 thesis.tex 结构

```
\bool_if:cTF {l__hit_english_bool} {
\printnoidxglossary[sort=word,style=engstyle,title={Nomenclature},nopostdot,nonumberlist]~
\listoftables
\listoffigures
} {}
}
```

添加英文 toc 控制 按照我工要求的目录格式。

```
\bool_if:cTF {l__hit_arialtoc_bool} {
 \cs_set_nopar:Npn \__hit_toc_font: {\sffamily}~
} {}
\cs_set_nopar:Npn \@pnumwidth {4em}% 规定中的提前悬挂
\cs_set_nopar:Npn \@tocrmarg {\@pnumwidth}
\cs_set_nopar:Npn \@dotsep {1}
```

此处临时更改一下对齐方式。CTEX 似乎无法应对双语目录。todo:

```
\skip_set:Nn \@tempdima {4em}%
\hit@legacy@patch@e
\hit@legacy@patch@f
\cs_set_nopar:Npn \l@chapter #1 #2 {%
 \int_compare:nNnTF {\c@tocdepth} > {\m@ne} { \addpenalty{-\@highpenalty}%
 %\vskip 4bp \@plus\p@
 \begingroup
 \parindent \z@ \rightskip \@pnumwidth
 \parfillskip -\@pnumwidth
 \leavevmode
 \advance\leftskip\@tempdima
 \hskip -\leftskip
 % numberline is called here, and it uses \@tempdima
```

修改本科生论文目录格式 本科目录添加加粗

```
{\bool_if:cTF {l__hit_bachelor_bool} {\rmfamily} {\use:c {hit@toc@font}}\heiti\bool_if:cTF {l__hit
```

博后和英文版需要加粗

```
 \leaders\hbox{$\m@th\mkern \@dotsep mu\hbox{.}\mkern \@dotsep mu$}\hfill
 \nobreak{\normalfont\normalcolor #2}\par
 \penalty\@highpenalty
```

```
\endgroup
} {}}
```

按工大标准，缩小目录中各级标题之间的缩进，使它们相隔一个字符距离，也就是 12pt。

```
\cs_set_nopar:Npn \l@section {\@dottedtocline{1}{1em}{2em}}
\cs_set_nopar:Npn \l@subsection {\@dottedtocline{2}{2em}{3em}}
\cs_set_nopar:Npn \l@subsubsection {\@dottedtocline{3}{3\ccwd}{3.1em}}
```

英文目录格式。

```
\cs_set_nopar:Npn \@dotsep {0.75}~% 定义英文目录的点间距
\skip_set:Nn \leftmargini {0pt}
\skip_set:Nn \leftmarginii {0pt}
\skip_set:Nn \leftmarginiii {0pt}
\skip_set:Nn \leftmarginiv {0pt}
\skip_set:Nn \leftmarginv {0pt}
\skip_set:Nn \leftmarginvi {0pt}

\cs_set_nopar:Npn \engcontentsname {\bfseries Contents}
\cs_new:Npn \tableofengcontents {~
```

此处添加英文目录的章标题格式，默认细点

```
 \cs_set_nopar:Npn \l@chapter {\@dottedtocline{0}{0em}{5em}}% 控制英文目录：细点\@dottedtocline 粗点\@dottedtoclinebold
 \@restonecolfalse
 \chapter*{\engcontentsname %chapter* 上移一行，避免在 toc 中出现。
 \pdfbookmark[0]{Contents}{econtent}~
 \@mkboth{%
 \engcontentsname}{\engcontentsname}}~
```

此处临时更改一下对齐方式。CTEX 似乎无法应对双语目录。删除增加 \hangindent 的方法，其原因是 \numberline 多出一个空格

```
 \@starttoc{toe}%
 \legacy_if:nTF {@restonecol} {\twocolumn} {}}
\cs_set_nopar:Npn \@dotsep {0.75}~% 定义英文目录的点间距
```

目录中附录的章号格式。

```
\ctexset{%
 appendix/number=\bool_if:cTF {l__hit_bachelor_bool} {\arabic{chapter}} {\Alph{chapter}},~
}
```

设置附录、结论、参考文献等格式。

__hit_engtoc_chapapp: \hit@engtoc@chapapp 命令在英文目录正文显示为“Chapter”，在附录部分显示为“Appendix”。

```
\cs_set_eq:NN \hit@appendix \appendix
\__hit_bool_declare:n{inappendix}
\cs_set_nopar:Npn \__hit_engtoc_chapapp: {~
 \bool_if:cTF {l__hit_inappendix_bool} { Appendix~} { Chapter~}
}
```

```
\cs_set:Npn \appendix
 {%
 \cs_set_eq:NN \title \__hit_appendix_title:n
```

```
\hit@appendix
\bool_if:cTF {l__hit_bachelor_bool} {\cs_set:Npn \thechapter {\arabic{chapter}}} {}

\__hit_bool_set_true:n {inappendix}
}
\cs_set:Npn \endappendix
 {%
\cs_set_eq:NN \title \@gobble }
\cs_set_eq:NN \title \@gobble
\cs_new:Npn \__hit_appendix_title:n #1 {%
\begin{center}~
\bfseries\xiaosi #1~
\end{center}}
\newlist{translationbib}{enumerate}{1}
\setlist[translationbib]{label=[\arabic*],align=left,nosep,itemsep=6bp,~
leftmargin=10mm,labelsep=!,before=\vspace{0.5\baselineskip}\wuhao[1.3]}
```

conclusions (*env.*)

```
\cs_new:Npn \conclusions
 {%
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
\bool_if:cTF {l__hit_english_bool} {
\__hit_appendix_chapter:w*{\__hit_term:n {conclusion@etitle}}[\__hit_term:n {conclusion@etitle}]~
} {
\__hit_appendix_chapter:w*{\__hit_term:n {conclusion@ctitle}}[\__hit_term:n {conclusion@etitle}]~
}
}
\cs_new:Npn \endconclusions
 {}
```

acknowledgements (*env.*)

```
\cs_new:Npn \acknowledgements
 {%
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
\bool_if:cTF {l__hit_english_bool} {
\__hit_appendix_chapter:w*{\__hit_term:n {acknowledgement@etitle}}[\__hit_term:n {acknowledgement@
} {
\__hit_appendix_chapter:w*{\__hit_term:n {acknowledgement@ctitle}}[\__hit_term:n {acknowledgement@
}}
\cs_new:Npn \endacknowledgements
 {}
```

correspondingaddr (*env.*)

```

\cs_new:Npn \correspondingaddr
 {%
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
\__hit_appendix_chapter:w*{\__hit_term:n {correspondingaddr@ctitle}}}
\cs_new:Npn \endcorrespondingaddr
 {}
```

博后用到的通讯页面

```
\cs_new:Npn \resume
 {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\__hit_term:n {resume@ctitle}}[\__hit_term:n {resume@etitle}]}
\cs_new:Npn \endresume
 {}
\cs_new:Npn \publication
 {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\__hit_term:n {publication@ctitle}}[\__hit_term:n {publication@etitle}]
\cs_new:Npn \endpublication
 {}


\cs_new:Npn \doctorpublication
 {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\__hit_term:n {doctorpublication@ctitle}}}
\cs_new:Npn \enddoctorpublication
 {}
```

此处添加博后用到的博士生发表页面 此处中英文索引的格式设置尽量符合《哈尔滨工业大学研究生学位论文撰写规范》中给出的示例的格式。此处间距常数是人工调节的。

```
\cs_new:Npn \ceindex
 {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\indexname}[\__hit_term:n {index@etitle}]~
 \skip_set:Nn \columnsep {4em}~
 \begin{adjustwidth}{2em}{2em}~
 \begin{multicols*}{2}}
\cs_new:Npn \endceindex
 {\end{multicols*}~
 \end{adjustwidth}~
 }

\newlist{idxwordlist}{description}{3}
\setlist[idxwordlist,~1]{%
 itemsep=\baselineskip,~
 labelindent=8em,~
 font=\normalsize\bfseries,~
}
\setlist[idxwordlist,~2]{%
 nosep,~
 labelindent=2em,~
 font=\wuhao\rm,~
}
\setlist[idxwordlist,~3]{%
```

```
nosep,~
labelindent=4em,~
font=\wuhao\rm,~
}
```

it_authorization_other:

```
\cs_set_nopar:Npn \__hit_authorization_other: {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\__hit_term:n {authorization@ctitle}}[\__hit_term:n {authorization@etit
 \xiaosi[1.6]\vspace{\baselineskip}~
\begin{center}\xiaosan\heiti\__hit_term:n {declarename}\end{center}~
\par\__hit_term:n {declaretext}
\vspace{\baselineskip}~
\par\hspace{6em}\__hit_term:n {authorsig}\hfill\__hit_term:n {frontdate}\__hit_term:n {datefill}
\vspace{2\baselineskip}~
\begin{center}\xiaosan\heiti\__hit_term:n {authorizationtitle}\end{center}~
\par\__hit_term:n {authorizationtext}
\vspace{2\baselineskip}~
\par\hspace{6em}\__hit_term:n {authorsig}\hfill\__hit_term:n {frontdate}\__hit_term:n {datefill}
\bool_if:cTF {l__hit_english_bool} {\vspace{\baselineskip}} {\vspace{2\baselineskip}}
```

英文版和中文版这里的间距不一样

```
\par\hspace{6em}\__hit_term:n {teachersig}\hfill\__hit_term:n {frontdate}\__hit_term:n {datefill}
}
```

authorization_bachelor:

```
\cs_set_nopar:Npn \__hit_authorization_bachelor: {%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
```

深圳校区原创性声明标题为黑体三号。但是三号放不下，我们定义一个 15.9bp 的字号，再将字距恢复默认设置来让它放得下。

```
 \bool_if:cTF {l__hit_shenzhen_bool} {
 \ctexset{~
 chapter/format~=~{\centering\__hit_title_font:\xsanhao\ziju{0}}~
 }~
 \phantomsection
 \markboth{原创性声明}{原创性声明}~
 \addcontentsline{toc}{chapter}{原创性声明}~
 \__hit_latex_chapter:w*{\__hit_term:n {declarename@bachelor}}~
 } {
 \bool_if:cTF {l__hit_harbin_bool} {
 \ctexset{chapter/beforeskip=4mm}~
 \__hit_latex_chapter:w*{哈尔滨工业大学本科毕业论文（设计）\\~ 原创性声明和使用权限}~
 \addcontentsline{toc}{chapter}{\texorpdfstring{\bool_if:cTF {l__hit_chapterbold_bool} { \bfseries
尔滨工业大学本科毕业论文（设计）原创性声明和使用权限}{哈尔滨工业大学本科毕业论文（设计）原创
性声明和使用权限}}~
 } {
 \__hit_appendix_chapter:w*{\__hit_term:n {declarename@bachelor}}~
 }
 }
```

```
\bool_if:cTF {l__hit_harbin_bool} {
{\centering\xiaosan\heiti 本科毕业论文（设计）原创性声明\par}\vspace{3mm}~
} {}
\__hit_term:n {authorizationtext@bachelor}
\vspace{\bool_if:cTF {l__hit_harbin_bool} { 4mm~} { 2\baselineskip }}~
\bool_if:cTF {l__hit_weihai_bool} {
\par\hfill\__hit_term:n {authorsig}\hspace{6em}~
\vspace{1\baselineskip}~
\par\hfill\__hit_term:n {teachersig}\hspace{6em}~
\vspace{2\baselineskip}~
\par\hfill\__hit_term:n {datefill}
\songti
} {
\par\hspace{6em}~\__hit_term:n {authorsig}\hfill\__hit_term:n {frontdate}\__hit_term:n {datefill}
}

\bool_if:cTF {l__hit_harbin_bool} {
\par\vspace{19mm}{\centering\xiaosan\heiti 本科毕业论文(设计)使用权限\par}\vspace{4mm}~
\__hit_term:n {second@authorizationtext@bachelor}
\vspace{1\baselineskip}~
\par\hspace{6em}\__hit_term:n {authorsig}\hfill\__hit_term:n {frontdate}\__hit_term:n {datefill}
\vspace{0.7\baselineskip}~
\par\hspace{6em}\__hit_term:n {teachersig}\hfill\__hit_term:n {frontdate}\__hit_term:n {datefill}
} {}
}
```

\authorization

```
\NewDocumentCommand{\authorization}{s~o}{%
\IfNoValueTF{#2}{%
\bool_if:cTF {l__hit_bachelor_bool} {\__hit_authorization_bachelor:} {\__hit_authorization_other:}
}{%
\bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}%
\phantomsection\addcontentsline{toc}{chapter}{\bool_if:cTF {l__hit_bachelor_bool} {
```

深圳校区本科生目录中的原创性声明的部分为“原创性声明”,而不是 \hit@declarename@bachelor。

```
\bool_if:cTF {l__hit_shenzhen_bool} { 原创性声明 ~} {
\__hit_term:n {declarename@bachelor}}} {\__hit_term:n {authorization@ctitle}}}%
\bool_if:cTF {l__hit_doctor_bool} {%
\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries \__hit_term:n {authorization@etitle}}{\__
} {}%
\IfBooleanTF{#1}{% 有星号，显示页码
\includepdf[fitpaper=true,pagecommand={\thispagestyle{hit@scanpage}}]{#2}%
}{% 无星号，不显示页码
\includepdf[fitpaper=true,pagecommand={\thispagestyle{empty}}]{#2}%
}%
}%
}
```

\resolution

```
\NewDocumentCommand{\resolution}{s~o}{%
\__hit_bool_if:nTF{doctor}~
{~
 \IfNoValueTF{#2}{~
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}
 \__hit_appendix_chapter:w*{\__hit_term:n {resolution@ctitle}}[\__hit_term:n {resolution@etitle}]~
 \begin{center}~
 \includegraphics[width=\textwidth]{figures/empty-resolution.pdf}~
 \end{center}~
 }{% 有文件，读入 PDF
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}%
 \phantomsection\addcontentsline{toc}{chapter}{\__hit_term:n {resolution@ctitle}}%
 \addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries \__hit_term:n {resolution@etitle}}{\__hit
 \IfBooleanTF{#1}{% 有星号，显示页码
 \includepdf[fitpaper=true,pages=-,pagecommand={\thispagestyle{hit@scanpage}}]{#2}%
 }{% 无星号，不显示页码
 \includepdf[fitpaper=true,pages=-,pagecommand={\thispagestyle{empty}}]{#2}%
 }%
 }%
}{}~
}
```

```
\cs_new:Npn \bibstyle@numerical {\bibpunct{[}{]}{,}{s}{,}{\textsuperscript{,}}}
```

删除 inline 等定义，此命令与 gbt7714 冲突

```
% \newcommand\bibstyle@authoryear{\bibpunct{(}{)}{;}{a}{,}{,}}
```

```
% \newcommand\bibstyle@inline{\bibpunct{[}{]}{,}{n}{,}{\hit@inline@sep}}
\citestyle{numerical}
\cs_set_protected:Npn \inlinecite {\@inlinecite}
\cs_set_nopar:Npn \@inlinecite #1{\begingroup\citestyle{inline}\cs_set_eq:NN \@cite \NAT@citenum \c
\cs_set_eq:NN \onlinecite \inlinecite
```

\@biblabel 设置参考文献列表的序号中的括号为中文括号。在 [#1] 前加上 \mbox\{\} 来获得正确的序号长度，否则会因为 XeLaTeX 下的标点挤压而计算错误，这里应该整个包裹起来，否则换行后缩进会有问题。

```
\__hit_bool_expr:nTF{\__hit_bool_p:n{shenzhen}~||~(\__hit_bool_p:n{harbin}~&&~(\__hit_bool_p:n{mast
 {\cs_set_nopar:Npn \@biblabel #1{\mbox{ [#1] }}}{}
```

thebibliography (*env.*) 修改默认的 **thebibliography** 环境来适应间距的要求。

```
\cs_set:Npn \thebibliography #1
 {%
```

这里我直接贴一个 issue 的链接：CTeX-Kit #701

```
 % \xeCJKDeclareCharClass{FullRight}{"002E}%
 \bool_if:cTF {l__hit_openright_bool} {\cleardoublepage} {\clearpage}\phantomsection%
 \__hit_appendix_chapter:w*{\bibname}[\__hit_term:n {bibname@etitle}]
 \normalsize
 \list{\@biblabel{\@arabic\c@enumiv}}{%
   \str_if_eq:VnT \g_bib_labelalign_str {left} {
```

```
      \RenewDocumentCommand\makelabel{m}{##1\hfill}
    }
    \settowidth{\labelwidth}{\@biblabel{#1}}
    \bool_if:cTF {l__hit_shenzhen_bool} {
      \skip_set:Nn \labelsep {0pt}
    } {
      \skip_set:Nn \labelsep {0.5em}
    }
    \skip_set:Nn \itemindent {0pt}
    \skip_set:Nn \leftmargin {\labelsep+\labelwidth}
    \skip_add:Nn \itemsep {-0.8em}
    \usecounter{enumiv}%
    \cs_set_eq:NN \p@enumiv \@empty
  \cs_set:Npn \theenumiv {\@arabic\c@enumiv}}%
  \sloppy\frenchspacing
  \flushbottom
  \bool_if:cTF {l__hit_splitbibitem_bool} {
  \clubpenalty0
  \@clubpenalty \clubpenalty
  \widowpenalty0%
  \interlinepenalty-50%
  } {
  \clubpenalty4000
  \@clubpenalty \clubpenalty
  \widowpenalty4000%
  \interlinepenalty4000%
  }
\sfcode`\.\@m}
\cs_set:Npn \endthebibliography
  {\cs_set_nopar:Npn \@noitemerr
  {\@latex@warning{Empty `thebibliography' environment}}%
\endlist\frenchspacing}
\hit@legacy@patch@g
\cs_set:Npn \NAT@citesuper #1 #2 #3 {\ifNAT@swa
  \if*#2*\else#2\NAT@spacechar\fi
\unskip\kern\p@\textsuperscript{\NAT@@open#1\NAT@@close\if*#3*\else#3\fi}%
   \else #1\fi\endgroup}
\hit@legacy@patch@h
\cs_set:Npn \NAT@cite #1 #2 #3 {\ifNAT@swa\NAT@@open\if*#2*\else#2\NAT@spacechar\fi
        #1\NAT@@close\if*#3*\else\textsuperscript{#3}\fi\else#1\fi\endgroup}
%% 用以控制参考文献列表中单个作者的格式
\exp_args:NNe \cs_new:Nn \g_bib_author_cs:n {
    \bool_if:NTF \g_bib_authorupper_bool {
        \exp_not:N \text_uppercase:n {#1}
    } {
        {#1}
    }
```

```
}
%% 用以输出参考文献列表中的作者
\NewDocumentCommand{\bibauthor}{m}{
  \int_zero:N \l_tmpa_int
  \exp_args:Ne \tl_map_inline:nn {
    \exp_args:Ne \tl_tail:n {#1}
  } {
    \int_compare:nNnT
      \l_tmpa_int = \g_bib_maxauthor_int {
      \prg_break:n {\tl_head:N {#1}}
    }
    \int_incr:N \l_tmpa_int
    \g_bib_author_cs:n {##1}
  }
  \prg_break_point:
}

⟨/bookcls⟩
```

4.6 其它

在模板文档结束时即装入配置文件，这样用户就能在导言区进行相应的修改。

```
⟨*bookcls⟩
\AtEndOfClass{\input{hithesisbook.cfg}}
\AtEndOfClass{\sloppy}
⟨/bookcls⟩
```

4.7 DocStrip 的样式文件

```
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
% dtx-style
% %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
⟨*dtx-style⟩
\ProvidesPackage{dtx-style}
\RequirePackage{hypdoc}
% ltxdoc must scan complete expl3 names when displaying implementation macros.
\def\MakePrivateLetters{\makeatletter\catcode`\_=11\relax\catcode`\:=11\relax}
\DeclareRobustCommand\cs[1]{\texttt{\char`\\\detokenize{#1}}}
```

默认字体为 fandol

```
\RequirePackage[UTF8,scheme=chinese,fontset=fandol]{ctex}
  % \RequirePackage{newpxtext}
  % \RequirePackage{newpxmath}
\IfFontExistsTF{TeXGyrePagellaX-Regular.otf}{%
  \setmainfont{TeXGyrePagellaX}[
    Extension   = .otf,
    UprightFont = *-Regular,
    BoldFont    = *-Bold,
    ItalicFont  = *-Italic,
    BoldItalicFont = *-BoldItalic,
```

```
  ]
}{%
  \setmainfont{texgyrepagella}[
    Extension=.otf,UprightFont=*-regular,BoldFont=*-bold,
    ItalicFont=*-italic,BoldItalicFont=*-bolditalic]
}
\IfFontExistsTF{IBMPlexSansCondensed-Regular.otf}{%
  \setsansfont{IBMPlexSansCondensed}[%
    Extension      = .otf,
    UprightFont    = *-Regular,
    BoldFont       = *-Bold,
    ItalicFont     = *-Italic,
    BoldItalicFont = *-BoldItalic
  ]
}{%
  \setsansfont{texgyreheros}[
    Extension=.otf,UprightFont=*-regular,BoldFont=*-bold,
    ItalicFont=*-italic,BoldItalicFont=*-bolditalic]
}
\IfFontExistsTF{Iosevka Slab}{
  \setmonofont{Iosevka Slab}
}{
  \IfFontExistsTF{Latin Modern Mono}{
    \setmonofont{Latin Modern Mono}
  }{}
}
```

添加 fallback 字体，这样无论本机/CI/Debian/macOS 都不会炸

```
\RequirePackage[
  top=2.5cm, bottom=2.5cm,
  left=4cm, right=2cm,
  headsep=3mm]{geometry}
\RequirePackage{array,longtable,booktabs}
```

重定义 booktabs 宏包的默认线宽，绘制三线表时不再需要显式设置，以实现更好的内容与格式分离

```
\heavyrulewidth=1.5pt
\lightrulewidth=1pt
\cmidrulewidth=0.5pt
\RequirePackage{listings}
\RequirePackage{fancyhdr}
\RequirePackage{xcolor}
\RequirePackage{enumitem}
\RequirePackage{etoolbox}
\RequirePackage{metalogo}
\RequirePackage{hyperref}
```

增加 ninecolors 宏包来使用更多颜色。

```
\RequirePackage{ninecolors}

\colorlet{hit@macro}{blue!60!black}
\colorlet{hit@env}{blue!70!black}
```

```
\colorlet{hit@option}{purple}
\patchcmd{\PrintMacroName}{\MacroFont}{\MacroFont\bfseries\color{hit@macro}}{}{}
\patchcmd{\PrintDescribeMacro}{\MacroFont}{\MacroFont\bfseries\color{hit@macro}}{}{}
\patchcmd{\PrintDescribeEnv}{\MacroFont}{\MacroFont\bfseries\color{hit@env}}{}{}
\patchcmd{\PrintEnvName}{\MacroFont}{\MacroFont\bfseries\color{hit@env}}{}{}

\def\DescribeOption{%
  \leavevmode\@bsphack\begingroup\MakePrivateLetters%
  \Describe@Option}
\def\Describe@Option#1{\endgroup
  \marginpar{\raggedleft\PrintDescribeOption{#1}}%
  \hit@special@index{option}{#1}\@esphack\ignorespaces}
\def\PrintDescribeOption#1{\strut \MacroFont\bfseries\sffamily\color{hit@option} #1\ }
\def\hit@special@index#1#2{\@bsphack
  \begingroup
    \HD@target
    \let\HDorg@encapchar\encapchar
    \edef\encapchar usage{%
      \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
    }%
    \index{#2\actualchar{\string\ttfamily\space#2}
           (#1)\encapchar usage}%
    \index{#1:\levelchar#2\actualchar
           {\string\ttfamily\space#2}\encapchar usage}%
  \endgroup
  \@esphack}

\lstdefinestyle{lstStyleBase}{%
   basicstyle=\small\ttfamily,
   aboveskip=\medskipamount,
   belowskip=\medskipamount,
   lineskip=0pt,
   boxpos=c,
   showlines=false,
   extendedchars=true,
   upquote=true,
   tabsize=2,
   showtabs=false,
   showspaces=false,
   showstringspaces=false,
   numbers=none,
   linewidth=\linewidth,
   xleftmargin=4pt,
   xrightmargin=0pt,
   resetmargins=false,
   breaklines=true,
   breakatwhitespace=false,
   breakindent=0pt,
   breakautoindent=true,
   columns=flexible,
```

```
keepspaces=true,
gobble=2,
framesep=3pt,
rulesep=1pt,
framerule=1pt,
backgroundcolor=\color{gray!5},
stringstyle=\color{green!40!black!100},
keywordstyle=\bfseries\color{blue!50!black},
commentstyle=\slshape\color{black!60}}

```

修改抄录环境的高亮，使代码更易阅读。

```
\lstdefinestyle{lstStyleShell}{%
style=lstStyleBase,
frame=l,
rulecolor=\color{purple},
language=bash,
morekeywords  = [1]
{
  tlmgr, pdflatex, latexmk, xelatex, cd, dir, mkdir,
  ls, del, rm, mv, move, cp, copy, code, bibtex, biber,
  texdoc, kpsewhich, texhash, splitindex, latex, makeindex,
  make
},
 morekeywords  = [2]{action, info, option, update, install, remove, version, restore},
 otherkeywords  = {--, -s, -o, -xelatex},
 morekeywords  = [3]{--, -s, -o, -xelatex},
 keywordstyle  = [1]{\bfseries},
 keywordstyle  = [2]{\color{azure4}},
 keywordstyle  = [3]{\color{green5}}
 % moredelim     = [s][\color{green5}]{\ -}{\ },
}

\lstdefinestyle{lstStyleLaTeX}{%
 style=lstStyleBase,
 frame=l,
 rulecolor=\color{violet},
 language=[LaTeX]TeX,
 texcsstyle  =*[1]{\color{azure4}\bfseries},
 texcsstyle   =*[2]{\color{red3}\bfseries},
 moretexcs   = [1]
   {
     LaTeX, LaTex, label, ref,
     tableofcontents, bibliography, bibliographystyle,
     cite, NeedsTeXFormat, ProvidesPackage, newcommand, mycmd,
     addbibresource, printbibliography, graphicspath,
     frontmatter, mainmatter, backmatter, printsubindex,
     makecover, authorization, hitsetup, dachu,
     chuhao, xiaochu, yihao, xiaoyi, erhao, xiaoer, sanhao,
     xiaosan, sihao, banxiaosi, xiaosi, dawu, wuhao, xiaowu, liuhao, xiaoliu, qihao, bahao,
```

```
        bicaption, caption, ltfontsize, longbionenumcaption, subfigure, includegraphics,
        toprule, midrule, bottomrule, endhead, endfirsthead, endfoot
      },
    deletetexcs  = [1]{documentclass, usepackage, begin, end},
    moretexcs    = [2]{usepackage, documentclass, begin, end},
  }

\lstnewenvironment{latex}{\lstset{style=lstStyleLaTeX}}{}
\lstnewenvironment{shell}{\lstset{style=lstStyleShell}}{}

\setlist{nosep}

\DeclareDocumentCommand{\option}{}{\meta}
\DeclareDocumentCommand{\env}{m}{\textbf{\texttt{#1}}}
\DeclareDocumentCommand{\pkg}{s m}{%
  \textsf{#2}\IfBooleanF#1{\hit@special@index{package}{#2}}}
\DeclareDocumentCommand{\cls}{s m}{%
  \textsf{#2}\IfBooleanF#1{\hit@special@index{class}{#2}}}
\DeclareDocumentCommand{\file}{s m}{%
  \texttt{#2}\IfBooleanF#1{\hit@special@index{file}{#2}}}
\newcommand{\myentry}[1]{%
  \marginpar{\raggedleft\color{purple}\bfseries\strut #1}}
\newcommand{\note}[2][Note]{{%
  \color{magenta}{\bfseries #1}\emph{#2}}}
\NewDocumentCommand\issue{o}{%
  \IfValueTF{#1}
    {\href{https://github.com/hithesis/hithesis/issues/#1}{issue: \##1}}
    {\href{https://github.com/hithesis/hithesis/issues}{issues}}
}
```

增加 \hitszthesis 来使参考 HitszThesis 更加方便。

\hitszthesis

```
\def\hitszthesis{\href{https://github.com/YangLaTeX/hitszthesis}{\textsc{Hitsz}\-\textsc{Thesis}}{}
⟨/dtx-style⟩
⟨*bookcfg⟩
\cs_new:Npn \pozhehao {——}
\cs_set_nopar:Npn \hithesis {\textsc{hi}\-\textsc{Thesis}}
\cs_set_nopar:Npn \hit {哈尔滨工业大学}
\cs_set_nopar:Npn \PGR {\href{http://hitgs.hit.edu.cn/aa/fd/c3425a109309/page.htm}~
  {《\hit 研究生学位论文撰写规范》}}
\cs_set_nopar:Npn \UGR {\href{http://jwc.hit.edu.cn/2566/list.htm}~
  {《\hit 本科生毕业论文撰写规范》}}
\__hit_terms_set:nn {local}
  {
    inline@sep = {, },
  }
⟨/bookcfg⟩
⟨*dtx-style⟩
\newcommand{\pozhehao}{——}
```

```
\def\hithesis{\textsc{hi}\-\textsc{Thesis}}
\def\hit{哈尔滨工业大学}
\def\PGR{\href{http://hitgs.hit.edu.cn/aa/fd/c3425a109309/page.htm}
{《\hit 研究生学位论文撰写规范》}}
\def\UGR{\href{http://jwc.hit.edu.cn/2566/list.htm}
{《\hit 本科生毕业论文撰写规范》}}
⟨/dtx-style⟩
```

```
⟨*dtx-style⟩
  \NewDocumentEnvironment{hitrgu}{o o}
  { \IfNoValueTF{#1}{\PGR,\UGR}{#1}\IfNoValueF{#2}{#2 中}%
\color{red} 规定："}{" }
⟨/dtx-style⟩
```

5 修改记录

v1.0.01
- General: 添加了捐助、矢量化本科论文模板的图片 logo 24

v1.0.02
- General: 添加了思源字体说明 101

v1.0.03
- General: 默认开启 raggedbottom 99

v1.0.04
- General: 修正英文目录中换行时无法对齐的 bug 161
  - 将 leftskip 设置参数至于外侧，以便后续添加可以适应标题长度的 \contentsline 方法 160

v1.0.05
- General: 彻底修正英文目录中换行时无法对齐的 bug 161
  - 矫正英文目录缩进与中文目录一致的 bug 161
- \chapter: 添加 \ignorespaces 选项，矫正英文目录多出一个空白而无法对齐的 bug 131
- \section: 添加 \ignorespaces 选项，矫正英文目录多出一个空白而无法对齐的 bug 131
- \subsection: 添加 \ignorespaces 选项，矫正英文目录多出一个空白而无法对齐的 bug 132
- \subsubsection: 添加 \ignorespaces 选项，矫正英文目录多出一个空白而无法对齐的 bug 132

v1.0.06
- General: 删除 caption hang 的默认设置，因为不在规范要求中 122
  - 此处更改了选项的名称 100
  - 此处添加子图最后一行图题是否居中选项 100, 105
- \@makecaption: 此处更改了选项的名称 . . 120

v1.0.07
- \@makecaption: 优化了最后一行居中算法，使其两边对齐、单词内部断行 120

v1.0.08
- General: 修改附录中图、表、公式数字编码 120
  - 删除冗余公式符号定义 122

v1.0.09
- General: 修正 float 垂直间距 bug 119
  - 添加 debug 包 105

v1.0.10
- General: 修改了索引的间距，使其更符合规范中的示例 66, 105, 163

v1.0.11
- General: 更改的中文标题，根据反馈，在封面中标题需要自由换行且不能影响到原创性声明。此处额外设置了一个变量 ctitlecover。. 133, 150

v1.0.12
- General: 修正 float 为 p 状态时默认不居中 bug 120

v1.0.13
- General: 此处删除冗余的 Abstract 标题 . . . 124
  - 此处添加中文目录中 Abstract 是否均为大写选项 100, 129
  - 添加 \texorpdfstring 命令去除书签中带有格式时的警告 130
- \authorization: 添加 \texorpdfstring 命令去除书签中带有格式时的警告 165
- \chapter: 添加 \texorpdfstring 命令去除书签中带有格式时的警告 131

v1.0.14
General: 修正自动生成日期 bug 125
v1.0.15
General: 添加控制本科论文的页码横线选项 100
\hit@headings: 删除冗余的页面格式 110
添加控制本科论文的页码横线选项 110
v2.0.0
General: 此处删除 newgeometry 选项 100
此处添加 geometry 选项 97, 98
添加版芯设置选项 105
v2.0.01
General: 去除定理注释括号 123
v2.0.02
General: 取出了定理冒号 113
v2.0.03
General: 添加参考文献分割开关 100
设置公式前后随意断页 113
thebibliography: 添加参考文献分割开关 . 167
v2.0.04
General: 删除 \@fpsep 设置，似乎没有什么用 120
删除表段后空白距离 120
更新 \intextsep\textfloatsep\floatsep 间距为正文行间距 120
更新图段后空白距离 120
v2.0.05
General: 删除图段后空白距离 120
添加数学字体开关 100
v2.0.06
General: 在 \inlinecite 内添加空格 . 166, 173
v2.0.07
thebibliography: 添加 flushbottom 到 thebibliography 环境中 167
v2.0.08
General: 修改本科生论文目录格式（感谢 QQ: 赢政 同学）. 160
v2.0.09
General: 修正 float 垂直间距 bug 119
v2.0.10
General: 此处添加是否为提交图书馆电子版 100
\cleardoublepage: 添加 *openright* 和 *library* 逻辑 106
v2.0.11
\mainmatter: 设置第一章必须在奇数页 . . . 107
v2.1.0
General: 此处添加校区选项 . 137, 138, 149, 150
\hit@headings: 此处添加校区选项 111
v2.1.1
General: 添加 chapter 功能，使页眉、TOC 不受 protect 的命令影响 129
v3.0.0
General: 博后关键字加粗 158
博后和英文版附录 title 145
博后和英文版需要加粗 160
只有英文版用到，且需要 clearpage 159
将英文目录潜入中文目录命令中，进一步简化 thesis.tex 结构 160
更改原 cls 文件名为 hithesisbook 26
此处添加 book 控制项，用于 cfg 中定理等控制 97
此处添加博后用到的博士生发表页面 . . . 163
此处添加博后选项 97, 101
此处添加英文版和博后的 title 设置 129
此处添加语言选项 98
添加 artcls 82
添加 Article 和 English 版本以及 postdoc 版本标题名称设置 124
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