

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。

免责声明

1. 本模板的发布遵守 L^AT_EX Project Public License, 使用前请认真阅读协议内容。
2. 本模板为作者根据哈尔滨工业大学教务处颁发的《哈尔滨工业大学本科生毕业论文撰写规范》, 哈尔滨工业大学研究生院颁发的《哈尔滨工业大学研究生学位论文撰写规范》编写而成, 为方便哈尔滨工业大学学生撰写毕业论文使用。
3. 哈尔滨工业大学教务处和研究生院只提供毕业论文写作指南, 不提供官方模板 (包括 MS word), 也不会授权第三方模板为官方模板, 所以此模板仅为写作指南的参考实现, 不保证格式审查老师不提意见。任何由于使用本模板而引起的论文格式审查问题均与本模板作者无关。
4. 任何个人或组织以本模板为基础进行修改、扩展而生成的新的专用模板, 请严格遵守 L^AT_EX Project Public License 协议。由于违犯协议而引起的任何纠纷争端均与本模板作者无关。

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1 模板介绍

hiThesis (Harbin Institute of Technology L^AT_EX 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 L^AT_EX 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 xCJK 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、T_EX 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 L^AT_EX 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，否则即便使用了 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`。
- 使用 `hithesis.ins` 生成样式文件后, `examples/` 文件夹中的 `chinese/`, `english/`, `reports/` 与 `reportplus/` 文件夹均可以单独使用。

2.2 生成模板

提示: 若使用 $T_E X$ 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 hithesisbook.cls 和 hithesisbook.cfg
$ latex hithesis.ins

# 下面的命令用来生成用户手册, 可以不执行
$ xelatex hithesis.dtx
```

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。

```
$ 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
```

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 Xe₃LaTeX

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 hithesisbook.cls 和 hithesisbook.cfg
$ 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 T_EX 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.list，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 L^AT_EX 文档，并对 B^BT_EX 有一定了解。如果从来没有接触过 T_EX 和 L^AT_EX，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
%      //
%      // ,          dustincys
%      \ \ // \      Email: yanshuoc@gmail.com
%
%      - -
%      _{ ' }_
%      { \ . ! . ` }
%      ', - / Y \ - , '
%      { _ , _ }
%      |
```

```

% | | | | | 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=bachelor,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。
% 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，离工默认常用字体，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样例中是全文大写。该选项控制是否全文大写。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
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
\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}
\backmatter
\include{back/conclusion} % 结论
\bibliographystyle{gbt7714-numerical}
% \bibliographystyle{hitszthesis} % 深圳校区的同学请使用 hitszthesis 文献样式
% \bibliographystyle{hithesis} %理论上2020最新要求文献样式GB/T 7714—2015，但若院系要求文献英
文作者不全大写，可改用hithesis文献样式
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%-- 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
% \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。
% \authorization %授权
% %\authorization[scan.pdf] %添加扫描页的命令, 与上互斥
% \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}
% Local Variables:
% TeX-engine: xetex
% End:
```

```
% !Mode:: "TeX:UTF-8"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
%      ,
%     /\^/\
%    | \ / |          CONGRATULATIONS!
%    |  |  |          SPRING IS IN THE AIR!
%    \ \  /
%   ' \ \ / '
%      ||              hithesis v3          { \ . ! . ` }
%      ||              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
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

\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"
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

[illegible]

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 $\text{CT}_{\text{E}}\text{X}$ 宏包，只提供基于 $\text{x}_{\text{e}}\text{C}_{\text{J}}\text{K}$ 包，使用 $\text{X}_{\text{L}}\text{A}_{\text{T}}\text{E}_{\text{X}}$ 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` 定义秘密级别和国内国际索引号。

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

3.5.2 论文标题

论文标题 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。

```
ctitle
etitle
ctitleone
ctitletwo
csubtitle
esubtitle
\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 作者姓名。

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

3.5.4 申请学位名称

学科名称 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。

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

3.5.5 院系名称

院系名称 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。

```
caffil
eaffil \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 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。

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

3.5.7 导师

导师 直接导师。

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

副导师 副指导教师。

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

联合导师 硕士生联合指导教师，博士生联合导师。

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

3.5.8 成文日期

日期 默认为当前时间，也可以自己指定。

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

3.5.9 学生类型

学生类型 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 学号，具体要求按照入学的培养计划中学科自行填写。

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

3.5.11 摘要

摘要正文 **说明：**摘要正文只能用环境命令的形式，不支持 `\hitsetup`。

```
cabstract (env.)
eabstract (env.)
\begin{cabstract}
  摘要请写在这里...
\end{cabstract}

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

关键词 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。

```
ekeywords
\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，并没有规定居中对其。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]{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]{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]{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]{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]{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]{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}{cccc}
\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{\dau[1.667]} %设置表格内字体行间距
\dau[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	theorem	definition	proposition	lemma	conjecture	
公理	定理	定义	命题	引理	猜想	
proof	corollary	example	exercise	assumption	remark	problem
证明	推论	例子	练习	假设	注释	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},
  month     = sep,
  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.)` 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
`enumerate (env.)` 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）。
`description (env.)` 细节请参看 `enumitem` 文档，此处不再赘述。

3.7 后文

3.7.1 结论

`conclusion (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~669 JS, 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 Control 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`。

```

1 <(*bst | shenzhenbst)
2 <(shenzhenbst)%% This bst file comes from https://github.com/YangLaTeX/hitszthesis
3 ENTRY                                % class Entry {
4 {                                    % public:
5   author                            %   String author;
6   editor                            %   String editor;
7   translator                        %   String translator;
8   title                            %   String title;
9   edition                          %   String edition;
10  address                           %   String address;
11  publisher                         %   String publisher;
12  pages                             %   String pages;
13  year                             %   String year;
14  date                             %   String date;
15  modifydate                       %   String modifydate;
16  citedate                         %   String citedate;
17  url                              %   String url;
18  doi                              %   String doi;
19  language                         %   String language;
20  booktitle                        %   String booktitle;
21  journal                          %   String journal;
22  chapter                          %   String chapter;
23  series                           %   String series;
24  volume                           %   String volume;
25  number                           %   String number;
26  version                          %   String version;
27  month                            %   String month;
28  school                           %   String school;
29  institution                       %   String institution;
30  organization                     %   String organization;
31  type                             %   String type;
32  howpublished                     %   String howpublished;
33  eid                              %   String eid;
34  key                              %   String key;
35  country                          %   String country;
36  patentid                         %   String patentid;
37  media                            %   String media;
38 } {                                %   // declare integer variables
39   required                         %   int required; // withther the bibfield is require
40 } {                                %   // declare String variables
41   label                           %   String label;           // label for the entry
42   mark                            %   String mark;             // mark for the entry
43                                 %   // there is ahidden entry variable sort.key$
44                                 %   String sort_key;
45 }                                % }
```

```

46                                     %
47 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
48                                     %
49 INTEGERS {                          % // declare global int variables
50   entry.count                       % static int entry_count;          // number of entries
51   longest.label.width               % static int longest_label_width; // width of the longest label
52   i                                % static int i;
53   j                                % static int j;
54   k                                % static int k;
55 }                                   %
56                                     %
57 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
58                                     %
59 STRINGS {                           % // declare global String variables
60   longest.label                    % static String longest_label;    // the longest label
61   s                                % static String s;
62   t                                % static String t;
63 }                                   %
64                                     %
65 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
66
67 % define global static constants
68 FUNCTION {true}                     {#1}
69 FUNCTION {false}                    {#0}
70 FUNCTION {debug.enabled}             {true}
71 FUNCTION {cap.volume.en}             {"Vol~"}
72 FUNCTION {cap.volume.zh}             {" 卷"}
73 FUNCTION {cap.edition.en}            {"~ed"}
74 FUNCTION {cap.edition.zh}            {" 版"}
75 FUNCTION {cap.anonymous.en}          {"Anon"}
76 FUNCTION {cap.anonymous.zh}          {" 佚名"}
77 < *shenzhenbst>
78 FUNCTION {cap.no.address.en}         {" [S.l.] "}
79 FUNCTION {cap.no.address.zh}         {" [出版地不详] "}
80 FUNCTION {cap.no.publisher.en}       {" [s.n.] "}
81 FUNCTION {cap.no.publisher.zh}       {" [出版者不详] "}
82 FUNCTION {cap.et.al.en}              {" , et~al"}
83 FUNCTION {cap.et.al.zh}              {" , 等"}
84 < /shenzhenbst>
85 < *bst>
86 FUNCTION {cap.no.address.en}         {" [S.l.]"}
87 FUNCTION {cap.no.address.zh}         {" [出版地不详]"}
88 FUNCTION {cap.no.publisher.en}       {" [s.n.]"}
89 FUNCTION {cap.no.publisher.zh}       {" [出版者不详]"}
90 FUNCTION {cap.et.al.en}              {" , et~al"}
91 FUNCTION {cap.et.al.zh}              {" , 等"}
92 < /bst>
93 FUNCTION {cap.translate.en}          {"~trans"}
94 FUNCTION {cap.translate.zh}          {" 译"}

```

```

95 FUNCTION {cap.doi.url}      {"http://dx.doi.org/"}
96 FUNCTION {cap.st.en}      {"st"}
97 FUNCTION {cap.nd.en}      {"nd"}
98 FUNCTION {cap.rd.en}      {"rd"}
99 FUNCTION {cap.th.en}      {"th"}
100
101 FUNCTION {cap.space}      {" "}

102 <*shenzhenbst>
103 FUNCTION {cap.comma}      {"\@, "}
104 FUNCTION {cap.colon}      {"\thinspace{}\textnormal{:} "}
105 </shenzhenbst>
106 <*bst>
107 FUNCTION {cap.comma}      {"\@, "}
108 FUNCTION {cap.colon}      {"\textnormal{:} "}
109 </bst>

    似乎 GBT2005 冒号前面不需要有空格，此处删除
110 FUNCTION {cap.period}      {"\@. "}
111 FUNCTION {cap.double.slash} {" //\thinspace{}"}
112 FUNCTION {cap.dash}      {"\textnormal{-}"}
113
114 % Predefined latex command used to format the style of bibitems
115 FUNCTION {env.bibbegin}    {"\begin{thebibliography}" }
116 FUNCTION {env.bibend}     {"\end{thebibliography}" }
117 FUNCTION {cmd.bibauthor}  {"\providecommand{\bibauthor}[1]{#1}" }
118 FUNCTION {cmd.bibeditor}  {"\providecommand{\bibeditor}[1]{#1}" }
119 FUNCTION {cmd.bibtranslator} {"\providecommand{\bibtranslator}[1]{#1}" }
120 FUNCTION {cmd.bibtitle}   {"\providecommand{\bibtitle}[1]{#1}" }
121 FUNCTION {cmd.bibbooktitle} {"\providecommand{\bibbooktitle}[1]{#1}" }
122 FUNCTION {cmd.bibjournal} {"\providecommand{\bibjournal}[1]{#1}" }
123 FUNCTION {cmd.bibmark}    {"\providecommand{\bibmark}[1]{\mbox{#1}}" }
124 FUNCTION {cmd.bibcountry} {"\providecommand{\bibcountry}[1]{#1}" }
125 FUNCTION {cmd.bibpatentid} {"\providecommand{\bibpatentid}[1]{#1}" }
126 FUNCTION {cmd.bibedition} {"\providecommand{\bibedition}[1]{#1}" }
127 FUNCTION {cmd.biborganization} {"\providecommand{\biborganization}[1]{#1}" }
128 FUNCTION {cmd.bibaddress} {"\providecommand{\bibaddress}[1]{#1}" }
129 FUNCTION {cmd.bibpublisher} {"\providecommand{\bibpublisher}[1]{#1}" }
130 FUNCTION {cmd.bibinstitution} {"\providecommand{\bibinstitution}[1]{#1}" }
131 FUNCTION {cmd.bibschool} {"\providecommand{\bibschooll}[1]{#1}" }
132 FUNCTION {cmd.bibvolume} {"\providecommand{\bibvolume}[1]{#1}" }
133 FUNCTION {cmd.bibnumber} {"\providecommand{\bibnumber}[1]{#1}" }
134 FUNCTION {cmd.bibversion} {"\providecommand{\bibversion}[1]{#1}" }
135 FUNCTION {cmd.bibpages} {"\providecommand{\bibpages}[1]{#1}" }
136 FUNCTION {cmd.bibmodifydate} {"\providecommand{\bibmodifydate}[1]{#1}" }
137 FUNCTION {cmd.bibcitedate} {"\providecommand{\bibcitedate}[1]{#1}" }
138 FUNCTION {cmd.bibyear} {"\providecommand{\bibyear}[1]{#1}" }
139 FUNCTION {cmd.bibdate} {"\providecommand{\bibdate}[1]{#1}" }
140 FUNCTION {cmd.biburl} {"\providecommand{\biburl}[1]{\newline\url{#1}}" }
141
142 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

143                                     %
144 FUNCTION {log.str} {               % void Entry::log_str(String value, String message)
145   debug.enabled {                 %   if (debug_enabled = 1) {
146     "DEBUG: " swap$ * " - '" *    %     message = "DEBUG: " + message + " - '"';
147     swap$ *                       %     message = message + value;
148     "'"' *                        %     message = message + "'";
149     top$                          %     log(message);
150   } {                             %   } else {
151     pop$ pop$                     %     return;
152   } if$                           %   }
153 }                                  % }
154                                   %
155 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
156                                   %
157 FUNCTION {log.int} {              % int Entry::log_int(int value, String message)
158   debug.enabled {                 %   if (debug_enabled = 1) {
159     "DEBUG: " swap$ * " - " *     %     message = "DEBUG: " + message + " - ";
160     swap$ int.to.str$ *           %     message = message + int_to_str(value);
161     top$                          %     log(message);
162   } {                             %   } else {
163     pop$ pop$                     %     return;
164   } if$                           %   }
165 }                                  % }
166                                   %
167 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
168                                   %
169 FUNCTION {not} {                  % int Entry::not(int x) {
170   {                               %   if (x = 1) {
171     false                         %     return false;
172   } {                             %   } else {
173     true                          %     return true;
174   } if$                           %   }
175 }                                  % }
176                                   %
177 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
178                                   %
179 FUNCTION {and} {                  % int Entry::and(int x, int y) {
180   {                               %   if (y = 1) {
181     skip$                         %     return x;
182   } {                             %   } else {
183     pop$ false                    %     return false;
184   } if$                           %   }
185 }                                  % }
186                                   %
187 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
188                                   %
189 FUNCTION {or} {                   % int Entry::or(int x, int y) {
190   {                               %   if (y = 1) {
191     pop$ true                      %     return true;
192   } {                             %   } else {

```

```

193     skip$                                %    return x;
194 } if$                                    %    }
195 }                                        % }
196                                         %
197 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
198                                         % // calculate the length in characters of a string
199                                         % // We need this function since text.length$ is NOT
200                                         % // the length in characters.
201 INTEGERS {length.i}                    % static int length_i;
202 FUNCTION {length} {                    % int Entry::length(String str) {
203     duplicate$ empty$ {                %   if (empty(str)) {
204         pop$ #0                        %       return 0;
205     } {                                %   } else {
206         #1 'length.i :=                %       length_i = 1;
207         false                          %       int stop = false;
208         {not} {                        %       while (! stop) {
209             duplicate$ length.i #1 substring$ %           String tmp = substring(str, length_i, 1);
210             "" = {                    %           if (tmp == "") {
211                 true                  %               stop = true;
212             } {                        %           } else {
213                 length.i #1 + 'length.i := %               length_i = length_i + 1;
214                 false                %               stop = false;
215             } if$                      %           }
216         } while$                      %       }
217         pop$ length.i #1 -              %       return length_i - 1;
218     } if$                              %   }
219 }                                        % }
220                                         %
221 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
222                                         %
223 FUNCTION {is.digit} {                  % int Entry::is_digit(String ch) {
224     chr.to.int$                        %   int ascii = chr_to_int(ch);
225     duplicate$ "0" chr.to.int$ < {     %   if (ascii < chr_to_int("0")) {
226         pop$ false                    %       return false;
227     } {                                %   } else {
228         "9" chr.to.int$ > {            %       if (ascii > chr_to_int("9")) {
229             false                    %           return false;
230         } {                            %       } else {
231             true                     %           return true;
232         } if$                          %       }
233     } if$                              %   }
234 }                                        % }
235                                         %
236 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
237                                         % // test if str is a number
238 FUNCTION {is.number} {                  % int Entry::is_number(String str) {
239     duplicate$ empty$ not swap$        %   int result = (! empty(str));
240     { duplicate$ empty$ not} {          %   while (! empty(str)) {
241         duplicate$ #1 #1 substring$ is.digit { %       if (is_digit(substring(str, 1, 1))) {
242         #2 global.max$ substring$      %       str = substring(str, 2, global_max);

```

```

243     } {
244         pop$ pop$ false
245         ""
246     } if$
247 } while$
248 pop$
249 }
250
251 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
252                                     % // extract the number prefix of str
253 FUNCTION {extract.number} {
254     duplicate$
255     duplicate$ length swap$
256     duplicate$ empty$
257     { not } {
258         duplicate$ #1 #1 substring$ is.digit {
259             #2 global.max$ substring$
260             duplicate$ empty$
261         } {
262             true
263         } if$
264     } while$
265     length -
266     #1 swap$ substring$
267 }
268
269 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
270                                     %
271 FUNCTION {get.last.chr} {
272     duplicate$ length
273     duplicate$ #0 = {
274         pop$
275     } {
276         #1 substring$
277     } if$
278 }
279
280 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
281                                     %
282 FUNCTION {get.ordinal.suffix.en} {
283     duplicate$ "1" = {
284         pop$ cap.st.en
285     } {
286         duplicate$ "2" = {
287             pop$ cap.nd.en
288         } {
289             duplicate$ "3" = {
290                 pop$ cap.rd.en
291             } {
292                 pop$ cap.th.en

```

```

293     } if$                                %     }
294     } if$                                %     }
295 } if$                                    % }
296 }                                        % }
297                                         %
298 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
299                                         %
300 FUNCTION {num.to.ordinal.en} {           % String Entry::num_to_ordinal_en(String num) {
301     duplicate$ empty$ {                  %     if (empty(num)) {
302         skip$                            %         return num;
303     } {                                   %     } else {
304         duplicate$ get.last.chr           %         String ch = get_last_chr(num);
305         get.ordinal.suffix.en            %         String str = get_ordinal_suffix_en(ch);
306         *                                %         reutrn num + str;
307     } if$                                %     }
308 }                                        % }
309                                         %
310 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
311                                         %
312 STRINGS {remove.dots.result}            % static String remove_dots_result;
313                                         %
314 FUNCTION {remove.dots} {                 % String Entry::remove_dots(String str) {
315     "" 'remove.dots.result :=            %     remove_dots_result = "";
316     { duplicate$ empty$ not } {           %     while (! empty(str)) {
317         duplicate$ #1 #2 substring$       %         String tmp = substring(str, 1, 2);
318         "\" = {                           %         if (tmp = "\" ) {
319             #3 global.max$ substring$     %             str = substring(str, 3, global_max);
320         } {                               %         } else {
321             duplicate$ #1 #1 substring$    %             tmp = substring(str, 1, 1);
322             duplicate$ "." = {            %             if (tmp = ".") {
323                 pop$ #2 global.max$ substring$ %                 str = substring(str, 2, global_max);
324             } {                           %             } else {
325                 remove.dots.result swap$ * %                 tmp = remove_dots_result + tmp;
326                 'remove.dots.result :=     %                 remove_dots_result = tmp;
327                 #2 global.max$ substring$ %                 str = substring(str, 2, global_max);
328             } if$                         %             }
329         } if$                             %         }
330     } while$                             %     }
331     pop$ remove.dots.result              %     return remove_dots_result;
332 }                                        % }
333                                         %
334 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
335                                         %
336 FUNCTION {add.brace} {                   % String Entry::add_brace(String str) {
337     "{" swap$ * "}" *                    %     return "{" + str + "}";
338 }                                        % }
339                                         %
340 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
341                                         %
342 FUNCTION {add.bracket} {                 % String Entry::bracket(String str) {

```

```

343 (shenzhenbst) "(" swap$ * ")!\!" * % return "(" + str + ")!\!";
344 (bst) "(" swap$ * ") " * % return "(" + str + ")";
345 } % }
346 %
347 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
348 %
349 FUNCTION {add.squarebracket} { % String Entry::add_squarebracket(String str) {
350 (shenzhenbst) " [" swap$ * " ] " * % return " [" + str + " ] ";
351 (bst) "[" swap$ * "]" * % return "[" + str + "]";
352 } % }
353 %
354 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
355 %
356 FUNCTION {add.textit} { % String Entry::add_textit(String str) {
357 "\textit{" swap$ * "}" * % return "\textit{" + str + "}";
358 } % }
359 %
360 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
361 %
362 FUNCTION {add.textbf} { % String Entry::add_textbf(String str) {
363 "\textbf{" swap$ * "}" * % return "\textbf{" + str + "}";
364 } % }
365 %
366 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
367 % // test if str contains a dash '-'
368 FUNCTION {contain.dash} { % int Entry::contain_dash(String str) {
369 false swap$ % int result = false;
370 { duplicate$ empty$ not$ } { % while (! empty(str)) {
371 duplicate$ #1 #1 substring$ "-" = { % if (substring(str, 1, 1) == "-") {
372 pop$ pop$ true % result = true;
373 "" % str = "";
374 } { % } else {
375 #2 global.max$ substring$ % str = substring(str, 2, global_max);
376 } if$ % }
377 } while$ % }
378 pop$ % return result;
379 } % }
380 %
381 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
382 % // extract the substring before the first '-'
383 % // returns the string itself if no '-'
384 FUNCTION {extract.before.first.dash} { % String Entry::extract_before_first_dash(String str)
385 duplicate$ % String suffix = str;
386 duplicate$ length swap$ % int n = length(str);
387 duplicate$ empty$ % int stop = empty(suffix);
388 { not } { % while (! stop) {
389 duplicate$ #1 #1 substring$ "-" = { % if (substring(suffix, 1, 1) == "-") {
390 true % stop = true;
391 } { % } else {4r

```



```

392     #2 global.max$ substring$           %      suffix = substring(suffix, 2, global_max);
393     duplicate$ empty$                   %      stop = empty(suffix);
394   } if$                                %    }
395 } while$                               %    }
396 length -                               %    int n = n - length(suffix);
397 #1 swap$ substring$                     %    return substring(str, 1, n);
398 }                                       %  }
399                                       %
400 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
401                                       % // extract the substring after the first '-'
402                                       % // returns the string itself if no '-'
403 FUNCTION {extract.after.first.dash} {    % String Entry::extract_after_first_dash(String str) {
404   duplicate$                             %   String suffix = str;
405   duplicate$ empty$                     %   int stop = empty(suffix);
406   { not } {                             %   while (! stop) {
407     duplicate$ #1 #1 substring$ "-" = {  %     if (substring(suffix, 1, 1) == "-") {
408       true                               %       stop = true;
409     } {                                  %     } else {4r
410       #2 global.max$ substring$         %       suffix = substring(suffix, 2, global_max);
411       duplicate$ empty$                 %       stop = empty(suffix);
412     } if$                               %     }
413   } while$                             %   }
414   duplicate$ empty$ {                   %   if (empty(suffix)) {
415     pop$                                %     return str;
416   } {                                  %   } else {
417     swap$ pop$ #2 global.max$ substring$ %     return substring(suffix, 2, global_max);
418   } if$                                %   }
419 }                                       % }
420                                       %
421 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
422                                       % // extract the substring after the last '-'
423                                       % // returns the empty string if no '-'
424 FUNCTION {extract.after.last.dash} {    % String Entry::extract_after_last_dash(String str) {
425   duplicate$ contain.dash not {         %   if (! contain_dash(str)) {
426     pop$ ""                             %     return "";
427   } {                                  %   } else {
428     {duplicate$ contain.dash} {         %     while (contain_dash(str)) {
429       extract.after.first.dash         %       str = extract_after_first_dash(str);
430     } while$                           %     }
431                                       %     return str;
432   } if$                                %   }
433 }                                       % }
434                                       %
435 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
436                                       %
437 FUNCTION {trim.start} {                 % String Entry::trim_start(String str) {
438   {duplicate$ #1 #1 substring$ " " =} { %   while (substring(str, 1, 1) == " ") {
439     #2 global.max$ substring$         %     str = substring(str, 2, global_max);
440   } while$                             %   }
441                                       %   return str;

```

```

442 } % }
443 %
444 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
445 %
446 FUNCTION {trim.end} { % String Entry::trim_end(String str) {
447   {duplicate$ get.last.chr " " =} { % while (get_last_chr(str) == " ") {
448     duplicate$ length #1 - % int n = length(str) - 1;
449     #1 swap$ substring$ % str = substring(str, 1, n);
450   } while$ % }
451 % return str;
452 } % }
453 %
454 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
455 %
456 FUNCTION {trim} { % String Entry::trim(String str) {
457   trim.start % str = trim_start(str);
458   trim.end % return trim_end(str);
459 } % }
460 %
461 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
462 %
463 FUNCTION {start.bibitem} { % void Entry::start_bibitem() {
464   newline$ % writeln();
465   "\bibitem{" cite$ * "}" * write$ % write("\bibitem{" + this.cite + "}");
466   newline$ % writeln();
467 } % }
468 %
469 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
470 %
471 FUNCTION {end.bibitem} { % void Entry::end_bibitem() {
472   cap.period write$ % write(cap_period);
473   newline$ % writeln();
474 } % }
475 %
476 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
477 %
478 FUNCTION {is.in.chinese} { % int Entry::is_in_chinese() {
479   language empty$ { % if (empty(this.language)) {
480     false % return false;
481   } { % } else {
482     language "zh" = { % if (this.language == "zh") {
483       true % return true;
484     } { % } else {
485       false % return false;
486     } if$ % }
487   } if$ % }
488 } % }
489 %
490 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
491 %

```

```

492 FUNCTION {is.online} {
493   url empty$ not {
494     true
495   } {
496     doi empty$ not {
497       true
498     } {
499       false
500     } if$
501   } if$
502 }
503
504 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
505 %
506 FUNCTION {set.mark} {
507   'mark :=
508   is.online {
509     mark "/OL" * 'mark :=
510   } {
511     media empty$ not {
512       mark "/" * media * 'mark :=
513     } 'skip$ if$
514   } if$
515 }
516 %
517 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
518 %
519 FUNCTION {cap.volume} {
520   is.in.chinese {
521     cap.volume.zh
522   } {
523     cap.volume.en
524   } if$
525 }
526 %
527 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
528 %
529 FUNCTION {cap.edition} {
530   is.in.chinese {
531     cap.edition.zh
532   } {
533     cap.edition.en
534   } if$
535 }
536 %
537 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
538 %
539 FUNCTION {cap.anonymous} {
540   is.in.chinese {
541     cap.anonymous.zh

```

```

% int Entry::is_online() {
%   if (! empty(this.url)) {
%     return true;
%   } else {
%     if (! empty(this.doi)) {
%       return true;
%     } else {
%       return false;
%     }
%   }
% }
%
% void Entry::set_mark(String mark) {
%   this.mark = mark;
%   if (is_online()) {
%     this.mark = this.mark + "/OL";
%   } else {
%     if (! empty(this.media)) {
%       this.mark = this.mark + "/" + this.media;
%     }
%   }
% }
%
% String Entry::cap_volume() {
%   if (is_in_chinese()) {
%     return cap_volume_zh;
%   } else {
%     return cap_volume_en;
%   }
% }
%
% String Entry::cap_edition() {
%   if (is_in_chinese()) {
%     return cap_edition_zh;
%   } else {
%     return cap_edition_en;
%   }
% }
%
% String Entry::cap_anonymous() {
%   if (is_in_chinese()) {
%     return cap_anonymous_zh;

```

```

542 } { % } else {
543     cap.anonymous.en % return cap_anonymous_en;
544 } if$ % }
545 } % }
546 %
547 %%%%%%%%%%%
548 %
549 FUNCTION {cap.no.address} { % String Entry::cap_no_address() {
550     is.in.chinese { % if (is_in_chinese()) {
551         cap.no.address.zh % return cap_no_address_zh;
552     } { % } else {
553         cap.no.address.en % return cap_no_address_en;
554     } if$ % }
555 } % }
556 %
557 %%%%%%%%%%%
558 %
559 FUNCTION {cap.no.publisher} { % String Entry::cap_no_publisher() {
560     is.in.chinese { % if (is_in_chinese()) {
561         cap.no.publisher.zh % return cap_no_publisher_zh;
562     } { % } else {
563         cap.no.publisher.en % return cap_no_publisher_en;
564     } if$ % }
565 } % }
566 %
567 %%%%%%%%%%%
568 %
569 FUNCTION {cap.et.al} { % String Entry::cap_et_al() {
570     is.in.chinese { % if (is_in_chinese()) {
571         cap.et.al.zh % return cap_et_al_zh;
572     } { % } else {
573         cap.et.al.en % return cap_et_al_en;
574     } if$ % }
575 } % }
576 %
577 %%%%%%%%%%%
578 %
579 FUNCTION {cap.translate} { % String Entry::cap_translate() {
580     is.in.chinese { % if (is_in_chinese()) {
581         cap.translate.zh % return cap_translate_zh;
582     } { % } else {
583         cap.translate.en % return cap_translate_en;
584     } if$ % }
585 } % }
586 %
587 %%%%%%%%%%%
588 %
589 FUNCTION {format.bibinfo} { % String Entry::format_bibinfo(String info, String typ
590     swap$ add.brace swap$ % info = add_brace(info);
591     "\bib" swap$ * swap$ * % return "\bib" + type + info;

```

```

592 } % }
593 %
594 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
595 INTEGERS { nameindex namecount } % static int nameindex, namecount;
596 STRINGS { namelist nameformat } % static String namelist, nameformat;
597 STRINGS { firstname lastname jname vonname } % static String firstname, lastname, jname, vonname;
598 %
599 FUNCTION {format.names} { % String Entry::format_names(String names) {
600   'namelist := % namelist = names;
601   namelist num.names$ 'namecount := % namecount = num_names(namelist);
602   "" % String result = "";
603   #0 'nameindex := % nameindex = 0;
604   {nameindex namecount < nameindex #3 < and} { % while ((nameindex < namecount) && (nameindex < 3)) {
605     nameindex #1 + 'nameindex := % nameindex = nameindex + 1;
606     nameindex #1 > { % if (nameindex > 1) {
607       cap.comma * % result = result + cap_comma;
608     } 'skip$ if$ % }
609     namelist nameindex "{vv}" format.name$ % String tmp = format_name(namelist, nameindex, "{
610     'vonname := % vonname = tmp;
611     namelist nameindex "{jj}" format.name$ % tmp = format_name(namelist, nameindex, "{jj}");
612     remove.dots 'jname := % jname = remove_dots(tmp);
613     namelist nameindex "{f}" format.name$ % tmp = format_name(namelist, nameindex, "{f}");
614     remove.dots % tmp = remove_dots(tmp);

615     <shenzhenbst> "u" change.case$ 'firstname := % firstname = change_case(tmp, "u");
616     <bst> 'firstname := % firstname = change_case(tmp, "u");
617     namelist nameindex "{ll}" format.name$ % tmp = format_name(namelist, nameindex, "{ll}");

618     <shenzhenbst> "u" change.case$ 'lastname := % lastname = change_case(tmp, "u");
619     <bst> 'lastname := % lastname = change_case(tmp, "u");
620     jname empty$ not { % if (! empty(jname)) {
621       jname * " " * % result = result + jname + " "
622     } 'skip$ if$ % }
623     vonname empty$ not { % if (! empty(vonname)) {
624       vonname * " " * % result = result + vonname + " "
625     } 'skip$ if$ % }
626     lastname empty$ not { % if (! empty(lastname)) {
627       lastname * " " * % result = result + lastname + " "
628     } 'skip$ if$ % }
629     firstname empty$ not { % if (! empty(firstname)) {
630       firstname * " " * % result = result + firstname + " "
631     } 'skip$ if$ % }
632     trim.end % result = trim_end(result);
633   } while$ % }
634   nameindex namecount < { % if (nameindex < namecount) {
635     cap.et.al * % result = result + cap_et_al();
636   } 'skip$ if$ % }
637 } % }
638 %
639 %
640 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

641                                     % // format English names
642 FUNCTION {format.names.en} {
643     format.names
644 }
645                                     %
646 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
647                                     % // format Chinese names
648 FUNCTION {format.names.zh} {
649     format.names
650 }
651                                     %
652 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
653                                     %
654 FUNCTION {format.author} {
655     is.in.chinese {
656         format.names.zh
657     } {
658         format.names.en
659     } if$
660     "author" format.bibinfo
661 }
662                                     %
663 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
664                                     %
665 FUNCTION {format.editor} {
666     is.in.chinese {
667         format.names.zh
668     } {
669         format.names.en
670     } if$
671     "editor" format.bibinfo
672 }
673                                     %
674 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
675                                     %
676 FUNCTION {format.translator} {
677     is.in.chinese {
678         duplicate$
679         format.names.zh
680         swap$ num.names$ #3 > {
681             cap.translate.zh *
682         } {
683             cap.comma * cap.translate.zh *
684         } if$
685     } {
686         duplicate$
687         format.names.en
688         swap$ num.names$ #3 > {
689             cap.translate.en *
690         } {

```

```

691     cap.comma * cap.translate.en *           %      translators = translators + cap_comma + cap_tr
692   } if$                                     %      }
693 } if$                                       %      }
694 "translator" format.bibinfo                %      return format_bibinfo(translator, "translator");
695 }                                           %      }
696                                           %
697 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
698                                           %
699 FUNCTION {format.title} {                  % String Emtry::format_title(String title) {
700   "title" format.bibinfo                    %      return format_bibinfo(title, "title");
701 }                                           %      }
702                                           %
703 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
704                                           %
705 FUNCTION {format.booktitle} {              % String Emtry::format_booktitle(String booktitle) {
706   "booktitle" format.bibinfo                %      return format_bibinfo(booktitle, "booktitle");
707 }                                           %      }
708                                           %
709 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
710                                           %
711 FUNCTION {format.mark} {                   % String Emtry::format_mark(String mark) {
712   <shenzhenbst> "\, [" swap$ * " ] " *      %      mark = " [" + mark + " ] ";
713   <bst> "[ " swap$ * " ] " *                 %      mark = "[ " + mark + " ] ";
714   "mark" format.bibinfo                     %      return format_bibinfo(mark, "mark");
715 }                                           %      }
716                                           %
717 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
718                                           %
719 FUNCTION {format.country} {                % String Emtry::format_country(String country) {
720   "country" format.bibinfo                  %      return format_bibinfo(country, "country");
721 }                                           %      }
722                                           %
723 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
724                                           %
725 FUNCTION {format.patentid} {               % String Emtry::format_patentid(String patentid) {
726   "patentid" format.bibinfo                 %      return format_bibinfo(patentid, "patentid");
727 }                                           %      }
728                                           %
729 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
730                                           %
731 FUNCTION {format.edition} {                % String Emtry::format_edition(String edition) {
732   duplicate$ is.number {                   %      if (is_number(edition)) {
733     is.in.chinese {                        %          if (is_in_chinese()) {
734       cap.edition.zh *                     %          edition = edition + cap_edition_zh;
735     } {                                     %      } else {
736       num.to.ordinal.en cap.edition.en *   %          edition = num_to_ordinal_en(edition) + cap_edi
737     } if$                                   %      }
738   } 'skip$ if$                             %      }
739                                           %      // use a \mbox{} to prevent line break within edi

```

```

740 "\mbox{" swap$ * "}" *           % edition = "\mbox{" + edition + "}";
741 "edition" format.bibinfo           % return format_bibinfo(edition, "edition");
742 }                                  % }
743                                   %
744 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
745                                   %
746 FUNCTION {format.organization} {    % String Emtry::format_organization(String organization) {
747   "organization" format.bibinfo     % return format_bibinfo(organization, "organization");
748 }                                  % }
749                                   %
750 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
751                                   %
752 FUNCTION {format.address} {         % String Emtry::format_address(String address) {
753   "address" format.bibinfo          % return format_bibinfo(address, "address");
754 }                                  % }
755                                   %
756 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
757                                   %
758 FUNCTION {format.publisher} {       % String Emtry::format_publisher(String publisher) {
759   "publisher" format.bibinfo        % return format_bibinfo(publisher, "publisher");
760 }                                  % }
761                                   %
762 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
763                                   %
764 FUNCTION {format.institution} {     % String Emtry::format_institution(String institution) {
765   "institution" format.bibinfo      % return format_bibinfo(institution, "institution");
766 }                                  % }
767                                   %
768 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
769                                   %
770 FUNCTION {format.school} {          % String Emtry::format_school(String school) {
771   "school" format.bibinfo           % return format_bibinfo(school, "school");
772 }                                  % }
773                                   %
774 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
775                                   %
776 FUNCTION {format.year} {            % String Emtry::format_year(String year) {
777   "year" format.bibinfo             % return format_bibinfo(year, "year");
778 }                                  % }
779                                   %
780 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
781                                   %
782 FUNCTION {format.date} {            % String Emtry::format_date(String date) {
783   "date" format.bibinfo             % return format_bibinfo(date, "date");
784 }                                  % }
785                                   %
786 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
787                                   %
788 FUNCTION {format.journal} {         % String Emtry::format_journal(String journal) {
789   "journal" format.bibinfo          % return format_bibinfo(journal, "journal");

```



```

790 } % }
791 %
792 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
793 %
794 FUNCTION {format.volume} { % String Entry::format_volume(String volume) {
795   "volume" format.bibinfo %   return format_bibinfo(volume, "volume");
796 } % }
797 %
798 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
799 %
800 FUNCTION {format.number} { % String Entry::format_number(String number) {
801   add.bracket %   number = add_bracket(number);
802   "number" format.bibinfo %   return format_bibinfo(number, "number");
803 } % }
804 %
805 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
806 %
807 FUNCTION {format.report.number} { % String Entry::format_report_number(String number) {
808   "number" format.bibinfo %   return format_bibinfo(number, "number");
809 } % }
810 %
811 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
812 %
813 FUNCTION {format.version} { % String Entry::format_version(String version) {
814   "version" format.bibinfo %   return format_bibinfo(version, "version");
815 } % }
816 %
817 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
818 %
819 FUNCTION {format.pages} { % String Entry::format_pages(String pages) {
820   "pages" format.bibinfo %   return format_bibinfo(pages, "pages");
821 } % }
822 %
823 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
824 %
825 FUNCTION {format.modifydate} { % String Entry::format_modifydate(String modifydate) {
826   add.bracket %   modifydate = add_bracket(modifydate);
827   "modifydate" format.bibinfo %   return format_bibinfo(modifydate, "modifydate");
828 } % }
829 %
830 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
831 %
832 FUNCTION {format.citedate} { % String Entry::format_citedate(String citedate) {
833   add.squarebracket %   citedate = add_squarebracket(citedate);
834   "citedate" format.bibinfo %   return format_bibinfo(citedate, "citedate");
835 } % }
836 %
837 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
838 %
839 % // NOTE: do not use the format_bibinfo() for URL,

```

```

840                                     % // since if the URL contains special symbols such
841                                     % // as '%', the \biburl{} will be broken.
842 FUNCTION {format.url} {
843   "\url{" swap$ * "}" *
844 }
845                                     % }
846 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
847                                     %
848 FUNCTION {get.full.title} {
849   series empty$ {
850     volume empty$ {
851       title
852     } {
853       title cap.colon * cap.volume * volume *
854     } if$
855   } {
856     volume empty$ {
857       series cap.colon * title *
858     } {
859       series cap.comma * cap.volume * volume *
860       cap.colon * title *
861     } if$
862   } if$
863 }
864                                     % }
865 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
866                                     %
867 FUNCTION {get.full.booktitle} {
868   series empty$ {
869     volume empty$ {
870       booktitle
871     } {
872       booktitle cap.colon * cap.volume * volume *
873     } if$
874   } {
875     volume empty$ {
876       series cap.colon * booktitle *
877     } {
878       series cap.comma * cap.volume * volume *
879       cap.colon * booktitle *
880     } if$
881   } if$
882 }
883                                     % }
884 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
885                                     %
886 FUNCTION {get.pages} {
887   pages contain.dash {
888     pages extract.before.first.dash
889     pages extract.after.last.dash

```

```

890     cap.dash swap$ * *                                %    return p1 + cap_dash + p2;
891 } {                                                    % } else {
892     pages                                              %    return this.pages;
893 } if$                                                 % }
894 }                                                     % }
895                                                     %
896 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
897                                                     %
898 FUNCTION {output.author.or.editor} {                  % void Entry::output_author_or_editor(int required) {
899     'required :=                                       %    this.required = required;
900     author empty$ not {                               %    if (! empty(this.author)) {
901         author format.author write$                  %        write(format_author(this.author));
902         cap.period write$                             %        write(cap_period);
903     } {                                               %    } else {
904         editor empty$ not {                           %        if (! empty(this.editor)) {
905             editor format.editor write$              %            write(format_editor(this.editor));
906             cap.period write$                         %            write(cap_period);
907         } {                                           %        } else {
908             required {                                %            if (required = 1) {
909                 "Require author/editor: " cite$ * warning$ %                warning("Require author/editor: " + this.cite);
910                 cap.anonymous format.author write$   %                write(format_author(cap_anonymous()));
911                 cap.period write$                     %                write(cap_period);
912             } 'skip$ if$                              %            }
913         } if$                                         %        }
914     } if$                                             %    }
915 }                                                     % }
916                                                     %
917 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
918                                                     %
919 FUNCTION {output.author} {                            % void Entry::output_author(int required) {
920     'required :=                                       %    this.required = required;
921     author empty$ not {                               %    if (! empty(this.author)) {
922         author format.author write$                  %        write(format_author(this.author));
923         cap.period write$                             %        write(cap_period);
924     } {                                               %    } else {
925         required {                                    %        if (required = 1) {
926             "Require author: " cite$ * warning$      %            warning("Require author: " + this.cite);
927             cap.anonymous format.author write$       %            write(format_author(cap_anonymous()));
928             cap.period write$                         %            write(cap_period);
929         } 'skip$ if$                                  %        }
930     } if$                                             %    }
931 }                                                     % }
932                                                     %
933 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
934                                                     %
935 FUNCTION {output.editor} {                            % void Entry::output_editor(int required) {
936     'required :=                                       %    this.required = required;
937     editor empty$ not {                               %    if (! empty(this.editor)) {
938         editor format.editor write$                  %        write(format_editor(this.editor));
939         cap.period write$                             %        write(cap_period);

```

```

940 } { % } else {
941     required { % if (required = 1) {
942         "Require editor: " cite$ * warning$ % warning("Require editor: " + this.cite);
943         cap.anonymous format.editor write$ % write(format_editor(cap_anonymous()));
944         cap.period write$ % write(cap_period);
945     } 'skip$ if$ % }
946 } if$ % }
947 } % }
948 %
949 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
950 %
951 FUNCTION {output.title} { % void Entry::output_title(int required) {
952     'required := % this.required = required;
953     title empty$ not { % if (! empty(this.title)) {
954         title format.title write$ % write(format_title(this.title));
955     } { % } else {
956         required { % if (required = 1) {
957             "Require title: " cite$ * warning$ % warning("Require title: " + this.cite);
958         } 'skip$ if$ % }
959     } if$ % }
960 } % }
961 %
962 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
963 %
964 FUNCTION {output.series.volume.title} { % void Entry::output_series_volume_title(int required)
965     'required := % this.required = required;
966     title empty$ not { % if (! empty(this.title)) {
967         get.full.title format.booktitle write$ % write(format_booktitle(get_full_title()));
968     } { % } else {
969         required { % if (required = 1) {
970             "Require title: " cite$ * warning$ % warning("Require title: " + this.cite);
971         } 'skip$ if$ % }
972     } if$ % }
973 } % }
974 %
975 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
976 %
977 FUNCTION {output.series.volume.booktitle} { % void Entry::output_series_volume_booktitle(int requi
978     'required := % this.required = required;
979     booktitle empty$ not { % if (! empty(this.booktitle)) {
980         get.full.booktitle format.booktitle write$ % write(format_booktitle(get_full_booktitle()));
981     } { % } else {
982         required { % if (required = 1) {
983             "Require booktitle: " cite$ * warning$ % warning("Require booktitle: " + this.cite);
984         } 'skip$ if$ % }
985     } if$ % }
986 } % }
987 %
988 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
989 %

```

```

990 FUNCTION {output.journal} {                                % void Entry::output_journal(int required) {
991   'required :=                                              %   this.required = required;
992   journal empty$ not {                                       %   if (! empty(this.journal)) {
993     cap.period write$                                         %     write(cap_period);
994     journal format.journal write$                             %     write(format_journal(this.journal));
995   } {                                                         %   } else {
996     required {                                                %     if (required = 1) {
997       "Require journal: " cite$ * warning$                   %       warning("Require journal: " + this.cite);
998     } 'skip$ if$                                              %     }
999   } if$                                                       %   }
1000 }                                                            % }
1001                                                            %
1002 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1003                                                            %
1004 FUNCTION {output.mark} {                                     % void Entry::output_mark(int required) {
1005   'required :=                                              %   this.required = required;
1006   mark empty$ not {                                          %   if (! empty(this.mark)) {
1007     mark format.mark write$                                   %     write(format_mark(this.mark));
1008   } {                                                         %   } else {
1009     required {                                                %     if (required = 1) {
1010       "Require mark: " cite$ * warning$                       %       warning("Require mark: " + this.cite);
1011     } 'skip$ if$                                              %     }
1012   } if$                                                       %   }
1013 }                                                            % }
1014                                                            %
1015 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1016                                                            %
1017 FUNCTION {output.translator} {                               % void Entry::output_translator(int required) {
1018   'required :=                                              %   this.required = required;
1019   translator empty$ not {                                     %   if (! empty(this.translator)) {
1020     cap.period write$                                         %     write(cap_period);
1021     translator format.translator write$                       %     write(format_translator(this.translator));
1022   } {                                                         %   } else {
1023     required {                                                %     if (required = 1) {
1024       "Require translator: " cite$ * warning$                 %       warning("Require translator: " + this.cite);
1025     } 'skip$ if$                                              %     }
1026   } if$                                                       %   }
1027 }                                                            % }
1028                                                            %
1029 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1030                                                            %
1031 FUNCTION {output.edition} {                                   % void Entry::output_edition(int required) {
1032   'required :=                                              %   this.required = required;
1033   edition empty$ not {                                        %   if (! empty(this.edition)) {
1034     cap.period write$                                         %     write(cap_period);
1035     edition format.edition write$                             %     write(format_edition(this.edition));
1036   } {                                                         %   } else {
1037     required {                                                %     if (required = 1) {
1038       "Require edition: " cite$ * warning$                     %       warning("Require edition: " + this.cite);
1039     } 'skip$ if$                                              %     }

```

```

1040 } if$ % }
1041 } % }
1042 %
1043 %%%%%%%%%%%
1044 %
1045 FUNCTION {output.address} { % void Entry::output_address(int required) {
1046   'required := % this.required = required;
1047   address empty$ not { % if (! empty(this.address)) {
1048     cap.period write$ % write(cap_period);
1049     address format.address write$ % write(format_address(this.address));
1050   } { % } else {
1051     required { % if (required = 1) {
1052       "Require address: " cite$ * warning$ % warning("Require address: " + this.cite);
1053       cap.period write$ % write(cap_period);
1054       cap.no.address format.address write$ % write(format_address(cap_no_address()));
1055     } 'skip$ if$ % }
1056   } if$ % }
1057 } % }
1058 %
1059 <*shenzhenbst>
1060 %%%%%%%%%%%
1061 FUNCTION {output.inproaddress} { % void Entry::output_inproaddress(int required) {
1062   'required := % this.required = required;
1063   address empty$ not { % if (! empty(this.address)) {
1064     cap.comma write$ % write(cap_comma);
1065     address format.address write$ % write(format_address(this.address));
1066   } { % } else {
1067     required { % if (required = 1) {
1068       "Require address: " cite$ * warning$ % warning("Require address: " + this.cite);
1069       cap.comma write$ % write(cap_comma);
1070       cap.no.address format.address write$ % write(format_address(cap_no_address()));
1071     } 'skip$ if$ % }
1072   } if$ % }
1073 } % }
1074 %
1075 </shenzhenbst>
1076 %%%%%%%%%%%
1077 %
1078 FUNCTION {output.publisher} { % void Entry::output_publisher(int required) {
1079   'required := % this.required = required;
1080   publisher empty$ not { % if (! empty(this.publisher)) {
1081     cap.colon write$ % write(cap_colon);
1082     publisher format.publisher write$ % write(format_publisher(this.publisher));
1083   } { % } else {
1084     required { % if (required = 1) {
1085       "Require publisher: " cite$ * warning$ % warning("Require publisher: " + this.cite);
1086       cap.colon write$ % write(cap_colon);
1087       cap.no.publisher format.publisher write$ % write(format_publisher(cap_no_publisher()));
1088     } 'skip$ if$ % }

```

```

1089 } if$ % }
1090 } % }
1091 %
1092 %%%%%%%%%%%
1093 %
1094 FUNCTION {output.publisher.no.address} { % void Entry::output_publisher_no_address(int required) {
1095   'required := % this.required = required;
1096   publisher empty$ not { % if (! empty(this.publisher)) {
1097     cap.period write$ % write(cap_period);
1098     publisher format.publisher write$ % write(format_publisher(this.publisher));
1099   } { % } else {
1100     required { % if (required = 1) {
1101       "Require publisher: " cite$ * warning$ % warning("Require publisher: " + this.cite);
1102       cap.period write$ % write(cap_period);
1103       cap.no.publisher format.publisher write$ % write(format_publisher(cap_no_publisher()));
1104     } 'skip$ if$ % }
1105   } if$ % }
1106 } % }
1107 %
1108 %%%%%%%%%%%
1109 %
1110 FUNCTION {output.school} { % void Entry::output_school(int required) {
1111   'required := % this.required = required;
1112   school empty$ not { % if (! empty(this.school)) {
1113     cap.colon write$ % write(cap_colon);
1114     school format.school write$ % write(format_school(this.school));
1115   } { % } else {
1116     required { % if (required = 1) {
1117       "Require school: " cite$ * warning$ % warning("Require publisher: " + this.cite);
1118       cap.colon write$ % write(cap_colon);
1119       cap.no.publisher format.school write$ % write(format_school(cap_no_publisher()));
1120     } 'skip$ if$ % }
1121   } if$ % }
1122 } % }
1123 %
1124 %%%%%%%%%%%
1125 %
1126 FUNCTION {output.institution} { % void Entry::output_institution(int required) {
1127   'required := % this.required = required;
1128   institution empty$ not { % if (! empty(this.institution)) {
1129     cap.colon write$ % write(cap_colon);
1130     institution format.institution write$ % write(format_publisher(this.institution));
1131   } { % } else {
1132     required { % if (required = 1) {
1133       "Require institution: " cite$ * warning$ % warning("Require institution: " + this.cite);
1134       cap.colon write$ % write(cap_colon);
1135       cap.no.publisher format.institution write$ % write(format_institution(cap_no_publisher()));
1136     } 'skip$ if$ % }
1137   } if$ % }
1138 } % }

```

```

1139                                     %
1140 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1141                                     %
1142 FUNCTION {output.year} {              % void Entry::output_year(int required) {
1143     'required :=                      %   this.required = required;
1144     year empty$ not {                 %   if (! empty(this.year)) {
1145         year format.year write$      %       write(format_year(this.year));
1146     } {                               %   } else {
1147         required {                   %       if (required = 1) {
1148             "Require year: " cite$ * warning$ %           warning("Require year: " + this.cite);
1149         } 'skip$ if$                  %       }
1150     } if$                             %   }
1151 }                                     % }
1152                                     %
1153 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1154                                     %
1155 FUNCTION {output.pages} {            % void Entry::output_pages(int required) {
1156     'required :=                      %   this.required = required;
1157     pages empty$ not {                %   if (! empty(this.pages)) {
1158         cap.colon write$              %       write(cap_colon);
1159         get.pages format.pages write$ %       write(format_pages(get_pages()));
1160     } {                               %   } else {
1161         required {                   %       if (required = 1) {
1162             "Require pages: " cite$ * warning$ %           warning("Require pages: " + this.cite);
1163         } 'skip$ if$                  %       }
1164     } if$                             %   }
1165 }                                     % }
1166                                     %
1167 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1168                                     %
1169 FUNCTION {output.modifydate} {        % void Entry::output_modifydate(int required) {
1170     'required :=                      %   this.required = required;
1171     modifydate empty$ not {           %   if (! empty(this.modifydate)) {
1172         cap.space write$              %       write(cap_space);
1173         modifydate format.modifydate write$ %       write(format_modifydate(this.modifydate));
1174     } {                               %   } else {
1175         required {                   %       if (required = 1) {
1176             "Require modifydate: " cite$ * warning$ %           warning("Require modifydate: " + this.cite);
1177         } 'skip$ if$                  %       }
1178     } if$                             %   }
1179 }                                     % }
1180                                     %
1181 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1182                                     %
1183 FUNCTION {output.citedate} {          % void Entry::output_citedate(int required) {
1184     'required :=                      %   this.required = required;
1185     citedate empty$ not {             %   if (! empty(this.citedate)) {
1186         cap.space write$              %       write(cap_space);
1187         citedate format.citedate write$ %       write(format_citedate(this.citedate));
1188     } {                               %   } else {

```



```

1189     required is.online or {                %    if ((required == 1) || (is_online())) {
1190         "Require citedate: " cite$ * warning$ %        warning("Require citedate: " + this.cite);
1191     } 'skip$ if$                            %    }
1192 } if$                                       %    }
1193 }                                           % }
1194                                           %
1195 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1196                                           %
1197 FUNCTION {output.date} {                  % void Entry::output_date(int required) {
1198     'required :=                            %     this.required = required;
1199     date empty$ not {                      %     if (! empty(this.date)) {
1200         date format.date write$            %         write(format_date(this.date));
1201     } {                                     %     } else {
1202         required {                          %         if (required == 1) {
1203             "Require date: " cite$ * warning$ %             warning("Require date: " + this.cite);
1204         } 'skip$ if$                        %         }
1205     } if$                                  %     }
1206 }                                           % }
1207                                           %
1208 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1209                                           %
1210 FUNCTION {output.volume} {                % void Entry::output_volume(int required) {
1211     'required :=                            %     this.required = required;
1212     volume empty$ not {                    %     if (! empty(this.volume)) {
1213         cap.comma write$                   %         write(cap_comma);
1214         volume format.volume write$        %         write(format_volume(this.volume));
1215     } {                                     %     } else {
1216         required {                          %         if (required == 1) {
1217             "Require volume: " cite$ * warning$ %             warning("Require volume: " + this.cite);
1218         } 'skip$ if$                        %         }
1219     } if$                                  %     }
1220 }                                           % }
1221                                           %
1222 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1223                                           %
1224 FUNCTION {output.number} {                % void Entry::output_number(int required) {
1225     'required :=                            %     this.required = required;
1226     number empty$ not {                    %     if (! empty(this.number)) {
1227         number format.number write$        %         write(format_number(this.number));
1228     } {                                     %     } else {
1229         required {                          %         if (required == 1) {
1230             "Require number: " cite$ * warning$ %             warning("Require number: " + this.cite);
1231         } 'skip$ if$                        %         }
1232     } if$                                  %     }
1233 }                                           % }
1234                                           %
1235 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1236                                           %
1237 FUNCTION {output.report.number} {          % void Entry::output_report_number(int required) {
1238     'required :=                            %     this.required = required;

```

```

1239 number empty$ not { % if (! empty(this.number)) {
1240     cap.colon write$ % write(cap_colon);
1241     number format.report.number write$ % write(format_report_number(this.number));
1242 } { % } else {
1243     required { % if (required = 1) {
1244         "Require number: " cite$ * warning$ % warning("Require number: " + this.cite);
1245     } 'skip$ if$ % }
1246 } if$ % }
1247 } % }
1248 %
1249 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1250 %
1251 FUNCTION {output.country} { % void Entry::output_country(int required) {
1252     'required := % this.required = required;
1253     country empty$ not { % if (! empty(this.country)) {
1254         cap.colon write$ % write(cap_colon);
1255         country format.country write$ % write(format_country(this.country));
1256     } { % } else {
1257         required { % if (required = 1) {
1258             "Require country: " cite$ * warning$ % warning("Require country: " + this.cite);
1259         } 'skip$ if$ % }
1260     } if$ % }
1261 } % }
1262 %
1263 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1264 %
1265 FUNCTION {output.patentid} { % void Entry::output_patentid(int required) {
1266     'required := % this.required = required;
1267     patentid empty$ not { % if (! empty(this.patentid)) {
1268         cap.comma write$ % write(cap_comma);
1269         patentid format.patentid write$ % write(format_patentid(this.patentid));
1270     } { % } else {
1271         required { % if (required = 1) {
1272             "Require patentid: " cite$ * warning$ % warning("Require patentid: " + this.cite);
1273         } 'skip$ if$ % }
1274     } if$ % }
1275 } % }
1276 %
1277 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1278 %
1279 FUNCTION {output.start.year} { % void Entry::output_start_year(int required) {
1280     'required := % this.required = required;
1281     year empty$ not { % if (! empty(this.year)) {
1282         year extract.before.first.dash % String str = extract_before_first_dash(this.year
1283         format.year write$ % write(format_year(str));
1284     } { % } else {
1285         required { % if (required = 1) {
1286             "Require year: " cite$ * warning$ % warning("Require year: " + this.cite);
1287         } 'skip$ if$ % }
1288     } if$ % }

```

```

1289 } % }
1290 %
1291 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1292 %
1293 FUNCTION {output.start.volume} { % void Entry::output_start_volume(int required) {
1294   'required := % this.required = required;
1295   volume empty$ not { % if (! empty(this.volume)) {
1296     cap.comma write$ % write(cap_comma);
1297     volume extract.before.first.dash % String str = extract_before_first_dash(this.vol
1298     format.volume write$ % write(format_volume(str));
1299   } { % } else {
1300     required { % if (required = 1) {
1301       "Require volume: " cite$ * warning$ % warning("Require volume: " + this.cite);
1302     } 'skip$ if$ % }
1303   } if$ % }
1304 } % }
1305 %
1306 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1307 %
1308 FUNCTION {output.start.number} { % void Entry::output_start_number(int required) {
1309   'required := % this.required = required;
1310   number empty$ not { % if (! empty(this.number)) {
1311     number extract.before.first.dash % String str = extract_before_first_dash(this.numb
1312     format.number write$ % write(format_number(str));
1313   } { % } else {
1314     required { % if (required = 1) {
1315       "Require number: " cite$ * warning$ % warning("Require number: " + this.cite);
1316     } 'skip$ if$ % }
1317   } if$ % }
1318 } % }
1319 %
1320 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1321 %
1322 FUNCTION {output.end.year} { % void Entry::output_end_year(int required) {
1323   'required := % this.required = required;
1324   year empty$ not { % if (! empty(this.year)) {
1325     year extract.after.last.dash % String str = extract_after_last_dash(this.year);
1326     format.year write$ % write(format_year(str));
1327   } { % } else {
1328     required { % if (required = 1) {
1329       "Require year: " cite$ * warning$ % warning("Require year: " + this.cite);
1330     } 'skip$ if$ % }
1331   } if$ % }
1332 } % }
1333 %
1334 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1335 %
1336 FUNCTION {output.end.volume} { % void Entry::output_end_volume(int required) {
1337   'required := % this.required = required;
1338   volume empty$ not { % if (! empty(this.volume)) {

```

```

1339 cap.comma write$ % write(cap_comma);
1340 volume extract.after.last.dash % String str = extract_after_last_dash(this.volume);
1341 format.volume write$ % write(format_volume(str));
1342 } { % } else {
1343 required { % if (required == 1) {
1344 "Require volume: " cite$ * warning$ % warning("Require volume: " + this.cite);
1345 } 'skip$ if$ % }
1346 } if$ % }
1347 } % }
1348 %
1349 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1350 %
1351 FUNCTION {output.end.number} { % void Entry::output_end_number(int required) {
1352 'required := % this.required = required;
1353 number empty$ not { % if (! empty(this.number)) {
1354 number extract.after.last.dash % String str = extract_after_last_dash(this.number);
1355 format.number write$ % write(format_number(str));
1356 } { % } else {
1357 required { % if (required == 1) {
1358 "Require number: " cite$ * warning$ % warning("Require number: " + this.cite);
1359 } 'skip$ if$ % }
1360 } if$ % }
1361 } % }
1362 %
1363 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1364 %
1365 FUNCTION {output.url.or.doi} { % void Entry::output_url_or_doi(int required) {
1366 'required := % this.required = required;
1367 url empty$ not { % if (! empty(this.url)) {
1368 cap.period write$ % write(cap_period);
1369 url format.url write$ % write(format_url(this.url));
1370 } { % } else {
1371 doi empty$ not { % if (! empty(this.doi)) {
1372 cap.period write$ % write(cap_period);
1373 cap.doi.url doi * format.url write$ % write(format_url(cap_doi_url + this.doi));
1374 } { % } else {
1375 required { % if (required == 1) {
1376 "Require URL or DOI: " cite$ * warning$ % warning("Require URL or DOI: " + this.cite);
1377 } 'skip$ if$ % }
1378 } if$ % }
1379 } if$ % }
1380 } % }
1381 %
1382 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1383 %
1384 FUNCTION {output.url} { % void Entry::output_url(int required) {
1385 'required := % this.required = required;
1386 url empty$ not { % if (! empty(this.url)) {
1387 cap.period write$ % write(cap_period);
1388 url format.url write$ % write(format_url(this.url));

```

```

1389 } { % } else {
1390     required { % if (required = 1) {
1391         "Require URL: " cite$ * warning$ % warning("Require URL: " + this.cite);
1392     } 'skip$ if$ % }
1393 } if$ % }
1394 } % }
1395 %
1396 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1397 %
1398 FUNCTION {output.version} { % void Entry::output_version(int required) {
1399     'required := % this.required = required;
1400     version empty$ not { % if (! empty(this.version)) {
1401         cap.period write$ % write(cap_period);
1402         version format.version write$ % write(format_version(this.version));
1403     } { % } else {
1404         required { % if (required = 1) {
1405             "Require version: " cite$ * warning$ % warning("Require version: " + this.cite);
1406         } 'skip$ if$ % }
1407     } if$ % }
1408 } % }
1409 %
1410 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1411 %
1412 FUNCTION {book.impl} { % void Entry::book_impl() {
1413     start.bibitem % start_bibitem();
1414     true output.author.or.editor % output_author_or_editor(true);
1415     true output.series.volume.title % output_series_volume_title(true);
1416     true output.mark % output_mark(true);
1417     false output.translator % output_translator(false);
1418     false output.edition % output_edition(false);
1419     publisher empty$ not { % if (! empty(this.publisher)) {
1420         true output.address % output_address(true);
1421         true output.publisher % output_publisher(true);
1422         cap.comma write$ % write(cap_comma);
1423     } { % } else {
1424         cap.period write$ % write(cap_period);
1425     } if$ % }
1426     true output.year % output_year(true);
1427     false output.pages % output_pages(false);
1428     false output.citedate % output_citedate(false);
1429     false output.url.or.doi % output_url_or_doi(false);
1430     end.bibitem % end_bibitem();
1431 } % }
1432 %
1433 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1434 %
1435 FUNCTION {book} { % void Entry::book() {
1436     "M" set.mark % set_mark("M");
1437     book.impl % book_impl();
1438 } % }

```

```

1439                                     %
1440 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1441                                     %
1442 FUNCTION {collection} {               % void Entry::collection() {
1443     "G" set.mark                       %   set_mark("G");
1444     book.impl                          %   book_impl();
1445 }                                     % }
1446                                     %
1447 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1448                                     %
1449 FUNCTION {proceedings} {             % void Entry::proceedings() {
1450     "C" set.mark                       %   set_mark("C");
1451     start.bibitem                     %   start_bibitem();
1452     true output.editor                %   output_editor(true);
1453     true output.series.volume.title   %   output_series_volume_title(true);
1454     true output.mark                  %   output_mark(true);
1455     false output.translator           %   output_translator(false);
1456     false output.edition              %   output_edition(false);
1457     publisher empty$ not {            %   if (! empty(this.publisher)) {
1458         true output.address            %       output_address(true);
1459         true output.publisher          %       output_publisher(true);
1460         cap.comma write$              %       write(cap_comma);
1461     } {                                %   } else {
1462         cap.period write$              %       write(cap_period);
1463     } if$                             %   }
1464     true output.year                  %   output_year(true);
1465     false output.pages                %   output_pages(false);
1466     false output.citedate             %   output_citedate(false);
1467     false output.url.or.doi           %   output_url_or_doi(false);
1468     end.bibitem                      %   end_bibitem();
1469 }                                     % }
1470                                     %
1471 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1472                                     %
1473 FUNCTION {conference} {              % void Entry::conference() {
1474     proceedings                       %   proceedings();
1475 }                                     % }
1476                                     %
1477 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1478                                     %
1479 FUNCTION {thesis.impl} {             % void Entry::thesis_impl() {
1480     start.bibitem                     %   start_bibitem();
1481     true output.author                %   output_author(true);
1482     true output.title                 %   output_title(true);
1483     true output.mark                  %   output_mark(true);
1484     false output.translator           %   output_translator(false);
1485     true output.address               %   output_address(true);
1486     true output.school                %   output_school(true);
1487     cap.comma write$                  %   write(cap_comma);
1488     true output.year                  %   output_year(true);

```

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1489 false output.pages           % output_pages(false);
1490 false output.citedate         % output_citedate(false);
1491 false output.url.or.doi       % output_url_or_doi(false);
1492 end.bibitem                   % end_bibitem();
1493 }                             % }
1494                               %
1495 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1496                               %
1497 FUNCTION {phdthesis} {        % void Entry::phdthesis() {
1498     "D" set.mark              % set_mark("D");
1499     thesis.impl               % thesis_impl();
1500 }                             % }
1501                               %
1502 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1503 <*bst>
1504                               %
1505 FUNCTION {masterthesis} {     % void Entry::masterthesis() {
1506     "D" set.mark              % set_mark("D");
1507     thesis.impl               % thesis_impl();
1508 }                             % }
1509                               %
1510 </bst>

```

此处添加 mastersthesis Entry

```

1511 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1512                               %
1513 FUNCTION {mastersthesis} {    % void Entry::mastersthesis() {
1514     "D" set.mark              % set_mark("D");
1515     thesis.impl               % thesis_impl();
1516 }                             % }
1517                               %
1518 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1519                               %
1520 FUNCTION {bachelorthesis} {   % void Entry::bachelorthesis() {
1521     "D" set.mark              % set_mark("D");
1522     thesis.impl               % thesis_impl();
1523 }                             % }
1524                               %
1525 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1526                               %
1527 FUNCTION {techreport} {      % void Entry::techreport() {
1528     "R" set.mark              % set_mark("R");
1529     start.bibitem             % start_bibitem();
1530     true output.author         % output_author(true);
1531     true output.title          % output_title(true);
1532     false output.report.number % output_report_number(false);
1533     true output.mark           % output_mark(true);
1534     false output.translator    % output_translator(false);
1535     false output.edition       % output_edition(false);
1536     false output.version       % output_version(false);

```

```

1537 institution empty$ not { % if (! empty(this.institution)) {
1538     true output.address % output_address(true);
1539     true output.institution % output_institution(true);
1540     cap.comma write$ % write(cap_comma);
1541 } { % } else {
1542     cap.period write$ % write(cap_period);
1543 } if$ % }
1544 true output.year % output_year(true);
1545 false output.pages % output_pages(false);
1546 false output.citedate % output_citedate(false);
1547 false output.url.or.doi % output_url_or_doi(false);
1548 end.bibitem % end_bibitem();
1549 } % }
1550 %
1551 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1552 %
1553 FUNCTION {standard} { % void Entry::standard() {
1554     "S" set.mark % set_mark("S");
1555     start.bibitem % start_bibitem();
1556     true output.author % output_author(true);
1557     true output.title % output_title(true);
1558     true output.mark % output_mark(true);
1559     false output.translator % output_translator(false);
1560     false output.edition % output_edition(false);
1561     publisher empty$ not { % if (! empty(this.publisher)) {
1562         true output.address % output_address(true);
1563         true output.publisher % output_publisher(true);
1564         cap.comma write$ % write(cap_comma);
1565     } { % } else {
1566         cap.period write$ % write(cap_period);
1567     } if$ % }
1568     true output.year % output_year(true);
1569     false output.pages % output_pages(false);
1570     false output.citedate % output_citedate(false);
1571     false output.url.or.doi % output_url_or_doi(false);
1572     end.bibitem % end_bibitem();
1573 } % }
1574 %
1575 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1576 %
1577 FUNCTION {reference} { % void Entry::reference() {
1578     "K" set.mark % set_mark("K");
1579     start.bibitem % start_bibitem();
1580     false output.author.or.editor % output_author_or_editor(false);
1581     true output.series.volume.title % output_series_volume_title(true);
1582     true output.mark % output_mark(true);
1583     false output.translator % output_translator(false);
1584     false output.edition % output_edition(false);
1585     publisher empty$ not { % if (! empty(this.publisher)) {
1586         true output.address % output_address(true);

```



```

1587     true output.publisher           %    output_publisher(true);
1588     cap.comma write$                %    write(cap_comma);
1589 } {                                % } else {
1590     cap.period write$               %    write(cap_period);
1591 } if$                               % }
1592 true output.year                    %    output_year(true);
1593 false output.pages                  %    output_pages(false);
1594 false output.citedate               %    output_citedate(false);
1595 false output.url.or.doi             %    output_url_or_doi(false);
1596 end.bibitem                         %    end_bibitem();
1597 }                                   % }
1598                                   %
1599 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1600                                   %
1601 FUNCTION {manual} {                 % void Entry::manual() {
1602     reference                        %    reference();
1603 }                                   % }
1604                                   %
1605 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1606                                   %
1607 FUNCTION {periodical.impl} {        % void Entry::periodical_impl() {
1608     start.bibitem                    %    start_bibitem();
1609     false output.editor              %    output_editor(false);
1610     true output.title                %    output_title(true);
1611     true output.mark                 %    output_mark(true);
1612     cap.period write$                %    write(cap_period);
1613     true output.start.year           %    output_start_year(true);
1614     false output.start.volume        %    output_start_volume(false);
1615     false output.start.number        %    output_start_number(false);
1616     cap.dash write$                  %    write(cap_dash);
1617     year contain.dash {              %    if (contain_dash(this.year)) {
1618         true output.end.year          %        output_end_year(true);
1619         false output.end.volume        %        output_end_volume(false);
1620         false output.end.number        %        output_end_number(false);
1621     } 'skip$ if$                     %    }
1622     publisher empty$ not {           %    if (! empty(this.publisher)) {
1623         true output.address            %        output_address(true);
1624         true output.publisher          %        output_publisher(true);
1625         cap.comma write$              %        write(cap_comma);
1626     } {                               %    } else {
1627         cap.period write$              %        write(cap_period);
1628     } if$                             %    }
1629     true output.start.year           %    output_start_year(true);
1630     cap.dash write$                  %    write(cap_dash);
1631     year contain.dash {              %    if (contain_dash(this.year)) {
1632         true output.end.year          %        output_end_year(true);
1633     } 'skip$ if$                     %    }
1634     false output.citedate            %    output_citedate(false);
1635     false output.url.or.doi          %    output_url_or_doi(false);
1636     end.bibitem                      %    end_bibitem();

```

```

1637 } % }
1638 %
1639 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1640 %
1641 FUNCTION {periodical} { % void Entry::periodical() {
1642   "J" set.mark % set_mark("J");
1643   periodical.impl % periodical_impl();
1644 } % }
1645 %
1646 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1647 %
1648 FUNCTION {newspaper} { % void Entry::newspaper() {
1649   "N" set.mark % set_mark("N");
1650   periodical.impl % periodical_impl();
1651 } % }
1652 %
1653 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1654 %
1655 FUNCTION {patent} { % void Entry::patent() {
1656   "P" set.mark % set_mark("P");
1657   start.bibitem % start_bibitem();
1658   true output.author % output_author(true);
1659   true output.title % output_title(true);
1660   true output.country % output_country(true);
1661   true output.patentid % output_patentid(true);
1662   true output.mark % output_mark(true);
1663   cap.period write$ % write(cap_period);
1664   true output.date % output_date(true);
1665   false output.citedate % output_citedate(false);
1666   false output.url.or.doi % output_url_or_doi(false);
1667   end.bibitem % end_bibitem();
1668 } % }
1669 %
1670 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1671 %
1672 FUNCTION {online} { % void Entry::online() {
1673   "EB" set.mark % set_mark("EB");
1674   start.bibitem % start_bibitem();
1675   false output.author % output_author(false);
1676   true output.title % output_title(true);
1677   true output.mark % output_mark(true);
1678   publisher empty$ not { % if (! empty(this.publisher)) {
1679     address empty$ not { % if (! empty(this.address)) {
1680       true output.address % output_address(true);
1681       true output.publisher % output_publisher(true);
1682       cap.comma write$ % write(cap_comma);
1683     } { % } else {
1684       true output.publisher.no.address % output_publisher_no_address(true);
1685       cap.comma write$ % write(cap_comma);
1686     } if$ % }

```

```

1687 } { % } else {
1688     cap.period write$ % write(cap_period);
1689 } if$ % }
1690 true output.year % output_year(true);
1691 false output.modifydate % output_modifydate(false);
1692 true output.citedate % output_citedate(true);
1693 true output.url % output_url(true);
1694 end.bibitem % end_bibitem();
1695 } % }
1696 %
1697 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1698 %
1699 FUNCTION {webpage} { % void Entry::online() {
1700     online % online();
1701 } % }
1702 %
1703 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1704 %
1705 FUNCTION {program.impl} { % void Entry::program_impl() {
1706     start.bibitem % start_bibitem();
1707     false output.author % output_author(false);
1708     true output.title % output_title(true);
1709     true output.mark % output_mark(true);
1710     publisher empty$ not { % if (! empty(this.publisher)) {
1711         true output.address % output_address(true);
1712         true output.publisher % output_publisher(true);
1713         cap.comma write$ % write(cap_comma);
1714     } { % } else {
1715         cap.period write$ % write(cap_period);
1716     } if$ % }
1717     true output.year % output_year(true);
1718     false output.citedate % output_citedate(false);
1719     false output.url.or.doi % output_url_or_doi(false);
1720     end.bibitem % end_bibitem();
1721 } % }
1722 %
1723 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1724 %
1725 FUNCTION {program} { % void Entry::program() {
1726     "CP" set.mark % set_mark("CP");
1727     program.impl % program_impl();
1728 } % }
1729 %
1730 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1731 %
1732 FUNCTION {database} { % void Entry::database() {
1733     "DB" set.mark % set_mark("DB");
1734     program.impl % program_impl();
1735 } % }
1736 %

```

```

1737 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1738 %
1739 FUNCTION {unpublished} {
1740     "H" set.mark
1741     start.bibitem
1742     true output.author
1743     true output.title
1744     true output.mark
1745     cap.period write$
1746     true output.year
1747     false output.citedate
1748     false output.url.or.doi
1749     end.bibitem
1750 }
1751 %
1752 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1753 %
1754 FUNCTION {manuscript} {
1755     unpublished
1756 }
1757 %
1758 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1759 %
1760 FUNCTION {inbook.impl} {
1761     start.bibitem
1762     true output.author
1763     true output.title
1764     true output.mark
1765     false output.translator
1766     cap.double.slash write$
1767     false output.editor
1768     true output.series.volume.booktitle
1769     false output.edition
1770     publisher empty$ not {
1771         true output.address
1772         true output.publisher
1773         cap.comma write$
1774     } {
1775         cap.period write$
1776     } if$
1777     true output.year
1778     false output.pages
1779     false output.citedate
1780     false output.url.or.doi
1781     end.bibitem
1782 }
1783 %
1784 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1785 (*shenzhenbst)

```

```

1786                                     %
1787 FUNCTION {inproceedings.impl} {      % void Entry::inproceedings_impl() {
1788     start.bibitem                     %     start_bibitem();
1789     true output.author                 %     output_author(true);
1790     true output.title                 %     output_title(true);
1791     true output.mark                  %     output_mark(true);
1792     false output.translator           %     output_translator(false);
1793     cap.double.slash write$          %     write(cap_double_slash);
1794     false output.editor               %     output_editor(false);
1795     true output.series.volume.booktitle %     output_series_volume_booktitle(true);
1796     false output.edition              %     output_edition(false);
1797     publisher empty$ not {            %     if (! empty(this.publisher)) {
1798         true output.inproaddress       %         output_inproaddress(true);
1799         true output.publisher           %         output_publisher(true);
1800         cap.comma write$               %         write(cap_comma);
1801     } {                                %     } else {
1802         true output.inproaddress       %         output_inproaddress(true);
1803         cap.comma write$               %         write(cap_comma);
1804     } if$                             %     }
1805     true output.year                  %     output_year(true);
1806     false output.pages                %     output_pages(false);
1807     false output.citedate             %     output_citedate(false);
1808     false output.url.or.doi           %     output_url_or_doi(false);
1809     end.bibitem                       %     end_bibitem();
1810 }                                     % }
1811                                     %
1812 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1813 </shenzhenbst>
1814                                     %
11815 FUNCTION {inbook} {                 % void Entry::inbook() {
1816     "M" set.mark                      %     set_mark("M");
1817     inbook.impl                       %     inbook_impl();
1818 }                                     % }
1819                                     %
1820 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1821                                     %
1822 FUNCTION {incollection} {             % void Entry::incollection() {
1823     "G" set.mark                      %     set_mark("G");
1824     inbook.impl                       %     inbook_impl();
1825 }                                     % }
1826                                     %
1827 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1828                                     %
1829 FUNCTION {inproceedings} {            % void Entry::inproceedings() {
1830     "C" set.mark                      %     set_mark("C");
1831     <shenzhenbst> inproceedings.impl    %         inproceedings_impl();
1832     <bst> inbook.impl                  %         inbook_impl();
1833 }                                     % }
1834                                     %

```

```

1835 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1836                                     %
1837 FUNCTION {article} {               % void Entry::article() {
1838     "J" set.mark                    %   set_mark("J");
1839     start.bibitem                   %   start_bibitem();
1840     true output.author              %   output_author(true);
1841     true output.title               %   output_title(true);
1842     true output.mark                %   output_mark(true);
1843     true output.journal             %   output_journal(true);
1844     cap.comma write$                %   write(cap_comma);
1845     true output.year                %   output_year(true);
1846     false output.volume             %   output_volume(false);
1847     false output.number             %   output_number(false);
1848     false output.pages              %   output_pages(false);
1849     false output.citedate           %   output_citedate(false);
1850     false output.url.or.doi         %   output_url_or_doi(false);
1851     end.bibitem                    %   end_bibitem();
1852 }                                   % }
1853                                     %
1854 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1855                                     %
1856 FUNCTION {news} {                  % void Entry::news() {
1857     "N" set.mark                    %   set_mark("N");
1858     start.bibitem                   %   start_bibitem();
1859     true output.author              %   output_author(true);
1860     true output.title               %   output_title(true);
1861     true output.mark                %   output_mark(true);
1862     true output.journal             %   output_journal(true);
1863     cap.comma write$                %   write(cap_comma);
1864     true output.date                %   output_date(true);
1865     false output.number             %   output_number(false);
1866     false output.citedate           %   output_citedate(false);
1867     false output.url.or.doi         %   output_url_or_doi(false);
1868     end.bibitem                    %   end_bibitem();
1869 }                                   % }
1870                                     %
1871 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1872                                     %
1873 FUNCTION {default.type} {          % void Entry::default_type() {
1874     "Unsupported entry type for " cite$ * warning$ %   warning("Unsupported entry type for " + this.cite)
1875 }                                   % }
1876                                     %
1877 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1878                                     %
1879 FUNCTION {longest.label.pass} {     % void longest_label_pass(Entry entry) {
1880     entry.count #1 + 'entry.count := %   entry_count = entry_count + 1;
1881     entry.count int.to.str$ 'label := %   this.label = int_to_str(entry_count);
1882     label width$ longest.label.width > { %   if (width(this.label) > longest_label_width) {
1883         label 'longest.label :=      %       longest_label = this.label;
1884         label width$ 'longest.label.width := %       longest_label_width = width(this.label);

```

```

1885 } 'skip$ if$ % }
1886 } % }
1887 %
1888 %%%%%%%%%%%
1889 %
1890 FUNCTION {write.style.commands} { % void write_style_commands() {
1891   cmd.bibauthor write$ % write(cmd_bibauthor);
1892   newline$ % writeln();
1893   cmd.bibeditor write$ % write(cmd_bibeditor);
1894   newline$ % writeln();
1895   cmd.bibtranslator write$ % write(cmd_bibtranslator);
1896   newline$ % writeln();
1897   cmd.bibtitle write$ % write(cmd_bibtitle);
1898   newline$ % writeln();
1899   cmd.bibbooktitle write$ % write(cmd_bibbooktitle);
1900   newline$ % writeln();
1901   cmd.bibjournal write$ % write(cmd_bibjournal);
1902   newline$ % writeln();
1903   cmd.bibmark write$ % write(cmd_bibmark);
1904   newline$ % writeln();
1905   cmd.bibcountry write$ % write(cmd_bibcountry);
1906   newline$ % writeln();
1907   cmd.bibpatentid write$ % write(cmd_bibpatentid);
1908   newline$ % writeln();
1909   cmd.bibedition write$ % write(cmd_bibedition);
1910   newline$ % writeln();
1911   cmd.biborganization write$ % write(cmd_biborganization);
1912   newline$ % writeln();
1913   cmd.bibaddress write$ % write(cmd_bibaddress);
1914   newline$ % writeln();
1915   cmd.bibpublisher write$ % write(cmd_bibpublisher);
1916   newline$ % writeln();
1917   cmd.bibinstitution write$ % write(cmd_bibinstitution);
1918   newline$ % writeln();
1919   cmd.bibschool write$ % write(cmd_bibschool);
1920   newline$ % writeln();
1921   cmd.bibvolume write$ % write(cmd_bibvolume);
1922   newline$ % writeln();
1923   cmd.bibnumber write$ % write(cmd_bibnumber);
1924   newline$ % writeln();
1925   cmd.bibversion write$ % write(cmd_bibversion);
1926   newline$ % writeln();
1927   cmd.bibpages write$ % write(cmd_bibpages);
1928   newline$ % writeln();
1929   cmd.bibmodifydate write$ % write(cmd_bibmodifydate);
1930   newline$ % writeln();
1931   cmd.bibcitedate write$ % write(cmd_bibcitedate);
1932   newline$ % writeln();
1933   cmd.bibyear write$ % write(cmd_bibyear);
1934   newline$ % writeln();

```

```

1935 cmd.bibdate write$ % write(cmd_bibdate);
1936 newline$ % writeln();
1937 cmd.biburl write$ % write(cmd_biburl);
1938 newline$ % writeln();
1939 } % }
1940 %
1941 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1942 %
1943 FUNCTION {begin.bib} { % void begin_bib() {
1944   preamble$ empty$ not { % if (! empty(preamble)) {
1945     preamble$ write$ % write(preamble);
1946     newline$ % writeln();
1947   } 'skip$ if$ % }
1948   env.bibbegin write$ % write(env_bibbegin);
1949   "{" longest.label * "}" * write$ % write "{" + longest.label + "}";
1950   newline$ % writeln();
1951   write.style.commands % write_style_commands();
1952 } % }
1953 %
1954 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1955 %
1956 FUNCTION {end.bib} { % void end_bib() {
1957   newline$ % writeln();
1958   env.bibend write$ % write(env_bibend);
1959   newline$ % writeln();
1960 } % }
1961 %
1962 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1963 %
1964 FUNCTION {initialize} { % void initialize() {
1965   #0 'entry.count := % entry_count = 0;
1966   #0 'longest.label.width := % longest_label_width = 0;
1967   "" 'longest.label := % longest_label = "";
1968 } % }
1969 %
1970 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
1971 %
1972 % void main() {
1973 READ % List<Entry> entryList = read("<file>.bib");
1974 EXECUTE {initialize} % initialize();
1975 ITERATE {longest.label.pass} % for (Entry entry : entryList) {
1976 %   longest_label_pass(entry);
1977 % }
1978 EXECUTE {begin.bib} % begin_bib();
1979 ITERATE {call.type$} % for (Entry entry : entryList) {
1980 %   switch (typeof(entry)) {
1981 %     case "book":
1982 %       entry.book();
1983 %       break;
1984 %     case "article":

```



```

1985 % entry.article();
1986 % break;
1987 % .
1988 % .
1989 % .
1990 % case "incollection":
1991 % entry.incollection();
1992 % break;
1993 % case "misc":
1994 % entry.misc();
1995 % break;
1996 % default:
1997 % entry.default_type();
1998 % }
1999 % }
2000 EXECUTE {end.bib} % end_bib();
2001 % }
2002 %
2003 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2004 </bst | shenzhenbst>

```

我工要求的索引格式。

```

2005 <*ist>
2006 headings_flag 1
2007 heading_prefix "\\{\\vskip -\\baselineskip\\centering\\normalsize\\textbf{"
2008 heading_suffix "\\}\\par}\\nopagebreak\\wuhao\\n"
2009 delim_0 "\\hspace*{\\fill}"
2010 delim_1 "\\hspace*{\\fill}"
2011 </ist>
2012 <bookcls | artcls | artpluscls>\\NeedsTeXFormat{LaTeX2e}[1999/12/01]
2013 <bookcls>\\ProvidesClass{hithesisbook}
2014 <artcls>\\ProvidesClass{hithesisart}
2015 <artpluscls>\\ProvidesClass{hithesisartplus}
2016 <bookcfg>\\ProvidesFile{hithesisbook.cfg}
2017 <artcfg>\\ProvidesFile{hithesisart.cfg}
2018 <hithesis-style>\\ProvidesPackage{hithesis}
2019 <artpluscls | artcls | bookcls | bookcfg | artcfg | hithesis-style>[2023/04/16 v3.1c Harbin Institute of Technology Thesi
2020 % %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2021 % artpluscls
2022 % %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2023 <*artpluscls>

```

处理文档类选项

```

2024
2025 %% 处理文档类选项
2026 \\RequirePackage{kvoptions}
2027 \\SetupKeyvalOptions{
2028 family=hit,
2029 prefix=hit@,
2030 setkeys=\\kvsetkeys
2031 }

```

```

2032
2033 \newif\ifhit@bachelor
2034 \newif\ifhit@master
2035 \newif\ifhit@doctor
2036 \define@key{hit}{type}{%
2037   \hit@bachelorfalse
2038   \hit@masterfalse
2039   \hit@doctorfalse
2040   \expandafter\csname hit@#1true\endcsname
2041 }
2042
2043 \newif\ifhit@shenzhen
2044 \newif\ifhit@weihai
2045 \newif\ifhit@harbin
2046 \define@key{hit}{campus}{%
2047   \hit@shenzhenfalse
2048   \hit@weihaifalse
2049   \hit@harbinfalse
2050   \expandafter\csname hit@#1true\endcsname
2051 }
2052 \ifhit@weihai\relax\else
2053   \ifhit@shenzhen\relax\else
2054     \hit@harbintrue
2055   \fi
2056 \fi
2057
2058 \newif\ifhit@opening
2059 \newif\ifhit@midterm
2060 \define@key{hit}{stage}{%
2061   \hit@openingfalse
2062   \hit@midtermfalse
2063   \expandafter\csname hit@#1true\endcsname
2064 }
2065
2066 \DeclareStringOption{fontset}
2067 \DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{ctexart}}
2068 \PassOptionsToPackage{no-math}{fontspec}
2069
2070 \ProcessKeyvalOptions*
2071
2072 \ifhit@bachelor\relax\else
2073   \ifhit@master\relax\else
2074     \ifhit@doctor\relax\else
2075       \ClassError{hithesisartplus}{%
2076         \MessageBreak Please specify thesis type in option:
2077         \MessageBreak type=[bachelor | master | doctor]
2078       }
2079     \fi
2080   \fi
2081 \fi

```

```

2082
2083 \ifhit@opening\relax\else
2084   \ifhit@midterm\relax\else
2085     \ClassError{hithesisartplus}{%
2086       \MessageBreak Please specify stage in option:
2087       \MessageBreak stage=<opening|midterm>
2088     }
2089   \fi
2090 \fi
2091
2092 \ifhit@doctor
2093   \ifhit@midterm
2094     \ifhit@shenzhen
2095       \relax
2096     \else
2097       \ClassError{hithesisartplus}{%
2098         \MessageBreak This document class only support midterm report for doctor
2099         in shenzhen campus
2100       }
2101     \fi
2102   \else
2103     \ClassError{hithesisartplus}{%
2104       \MessageBreak This document class only support midterm report for doctor
2105       in shenzhen campus
2106     }
2107   \fi
2108 \else
2109   \ClassError{hithesisartplus}{%
2110     \MessageBreak This document class only support midterm report for doctor
2111     in shenzhen campus
2112   }
2113 \fi
2114
2115 \RequirePackage{ifthen}
2116 \ifthenelse
2117 {\equal{\hit@fontset}{}}{%
2118 {%
2119   \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}
2120 }%
2121 {%
2122   \ifthenelse
2123   {\equal{\hit@fontset}{siyuan}}{%
2124     {\relax}%
2125   }%
2126   \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}
2127 }%
2128 \PassOptionsToClass{fontset=\hit@fontset}{ctexart}
2129 }%
2130 \LoadClass[a4paper,UTF8,zihao=-4,scheme=plain]{ctexart}

```

各种宏包

```

2131
2132 %% 各种宏包
2133 \RequirePackage{etoolbox}
2134 \RequirePackage{ifxetex}
2135 \ifxetex
2136 \else
2137   \ClassError{hithesis}{Please use: \MessageBreak xelatex}
2138 \fi
2139 \RequirePackage{xparse}
2140
2141 \RequirePackage{amsmath}
2142 \RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}
2143 \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.

```

2144 \setmainfont{TeXGyreTermesX}[
2145   UprightFont = *-Regular ,
2146   BoldFont = *-Bold ,
2147   ItalicFont = *-Italic ,
2148   BoldItalicFont = *-BoldItalic ,
2149   Extension = .otf ,
2150 ]
2151 \setsansfont{texgyreheros}[
2152   UprightFont = *-regular ,
2153   BoldFont = *-bold ,
2154   ItalicFont = *-italic ,
2155   BoldItalicFont = *-bolditalic ,
2156   Extension = .otf ,
2157 ]

```

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.

```

2158 \setmonofont{texgyrecursor}[
2159   UprightFont = *-regular ,
2160   BoldFont = *-bold ,
2161   ItalicFont = *-italic ,
2162   BoldItalicFont = *-bolditalic ,
2163   Extension = .otf ,
2164 ]
2165
2166 \RequirePackage{graphicx}
2167 \RequirePackage{pdfpages}
2168 \includepdfset{fitpaper=true}
2169 \RequirePackage{enumitem}      % 使用 enumitem 宏包, 改变列表项的格式
2170 \RequirePackage{environ}
2171 \RequirePackage[perpage,hang]{footmisc}

    xeCJK 包不再自动加载 xeCJKfntef
2172 \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

2173

2174 \RequirePackage{longtable}

2175 \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

2176 \heavyrulewidth=1.5pt

2177 \lightrulewidth=1pt

2178 \cmidrulewidth=0.5pt

2179

2180 \RequirePackage[sort&compress,numbers]{natbib}

2181 \RequirePackage{hyperref}

2182 \hypersetup{%

2183 CJKbookmarks=true,

2184 linktoc=all,

2185 bookmarksnumbered=true,

2186 bookmarksopen=true,

2187 bookmarksopenlevel=1,

2188 breaklinks=true,

2189 colorlinks=false,

2190 plainpages=false,

2191 pdfborder=0 0 0

2192 }

2193 \urlstyle{same}

2194

2195 \RequirePackage{geometry}

2196 \geometry{% 根据 PlutoThesis 原版定义而来

2197 a4paper, % 210 * 297mm

2198 hcentering,

2199 ignoreall,

2200 nomarginpar,

2201 centering,

2202 text={150true mm,236true mm},

2203 left=30true mm,

2204 head=5true mm,

2205 headsep=2true mm,

2206 footskip=0true mm,

2207 foot=5.2true mm

2208 }

2209

2210 \RequirePackage{tikzpagenodes}

2211 \RequirePackage{eso-pic}

2212 \RequirePackage{tikz}

2213 \usetikzlibrary{calc}

2214

2215 \RequirePackage{fancyhdr}

2216 \RequirePackage{tabularx}

2217 \RequirePackage{varwidth}

```

2218 \RequirePackage{changepage}
2219 \RequirePackage{multicol}
2220 \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
2221 \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.
2222 \RequirePackage{multirow}         % 使用 Multirow 宏包, 使得表格可以合并多个 row 格
2223 \RequirePackage{subfigure}% 支持子图 %centerlast 设置最后一行是否居中
2224 \RequirePackage[subfigure]{ccaption} % 支持双语标题

```

2225

```
2226 \RequirePackage{lipsum}%random text
```

添加字号、行距等设置

2227

2228 %% 添加字号、行距等设置

```

2229 \renewcommand\normalsize{%
2230   \@setfontsize\normalsize{12bp}{15bp}%
2231   \abovedisplayskip=6pt
2232   \abovedisplayshortskip=6pt
2233   \belowdisplayskip=\abovedisplayskip
2234   \belowdisplayshortskip=\abovedisplayshortskip
2235 }
2236 \def\hit@def@fontsize#1#2{%
2237   \expandafter\newcommand\csname #1\endcsname[1][1.3]{%
2238     \fontsize{#2}{##1\dimexpr #2}\selectfont
2239   }
2240 }
2241 \hit@def@fontsize{dachu}{58bp}
2242 \hit@def@fontsize{chuhao}{42bp}
2243 \hit@def@fontsize{xiaochu}{36bp}
2244 \hit@def@fontsize{yihao}{26bp}
2245 \hit@def@fontsize{xiaoyi}{24bp}
2246 \hit@def@fontsize{erhao}{22bp}
2247 \hit@def@fontsize{xiaoeer}{18bp}
2248 \hit@def@fontsize{sanhao}{16bp}
2249 \hit@def@fontsize{xiaosan}{15bp}
2250 \hit@def@fontsize{sihao}{14bp}
2251 \hit@def@fontsize{banxiaosi}{13bp}
2252 \hit@def@fontsize{xiaosi}{12bp}
2253 \hit@def@fontsize{dau}{11bp}
2254 \hit@def@fontsize{wuhao}{10.5bp}
2255 \hit@def@fontsize{xiaowu}{9bp}
2256 \hit@def@fontsize{liuhao}{7.5bp}
2257 \hit@def@fontsize{xiaoliu}{6.5bp}
2258 \hit@def@fontsize{qihao}{5.5bp}
2259 \hit@def@fontsize{bahao}{5bp}

```

进行字号、行距等设置

2260

2261 %% 进行字号、行距等设置

```

2262 \ctexset{%
2263   section={
2264     afterindent=true,
2265     beforeskip={7.5bp},% 上下空 0.5 行
2266     afterskip={7.5bp},
2267     format={\normalsize},
2268     aftername=\enspace,
2269     fixskip=true,
2270     break={},
2271   },
2272   subsection={
2273     afterindent=true,
2274     beforeskip={7bp},
2275     afterskip={7bp},
2276     format={\normalsize},
2277     aftername=\enspace,
2278     fixskip=true,
2279     break={},
2280   },
2281   subsubsection={
2282     afterindent=true,
2283     beforeskip={3bp},
2284     afterskip={3bp},
2285     format={\normalsize},
2286     aftername=\enspace,
2287     fixskip=true,
2288     break={},
2289   },
2290   paragraph/afterindent=true,
2291   subparagraph/afterindent=true
2292 }
2293
2294 \let\hit@section\section
2295 \RenewDocumentCommand\section{s o m s}{%
2296   \IfBooleanF{#4}{\noindent\tikz[overlay] \draw (-5mm,0mm) -- (155mm,0mm);} %
2297   \IfBooleanTF{#1}%
2298   {% if \section*
2299     \IfNoValueTF{#2}%
2300     {\hit@section*{#3}}%
2301     {\hit@section*[#2]{#3}}%
2302   }%
2303   {% if \section
2304     \IfNoValueTF{#2}%
2305     {\hit@section{#3}}%
2306     {\hit@section[#2]{#3}}%
2307   }
2308 }

```

中文封面

2309

```

2310 %% 中文封面
2311 \def\hit@def@term#1{%
2312   \define@key{hit}{#1}{\csname #1\endcsname{##1}}
2313   \expandafter\gdef\csname #1\endcsname##1{%
2314     \expandafter\gdef\csname hit@#1\endcsname{##1}
2315   }
2316   \csname #1\endcsname{}
2317 }
2318
2319 \hit@def@term{ctitlecover}
2320 \hit@def@term{ctitleone}
2321 \hit@def@term{ctitletwo}
2322 \hit@def@term{csubject}
2323 \hit@def@term{cauthor}
2324 \hit@def@term{cstudentid}
2325 \hit@def@term{cclassid}
2326 \hit@def@term{caffil}
2327 \hit@def@term{csupervisor}
2328 \hit@def@term{cdate}
2329 \hit@def@term{cenrolldate}
2330
2331 \def\hit@parse@keywords#1{
2332   \define@key{hit}{#1}{\csname #1\endcsname{##1}}
2333   \expandafter\gdef\csname hit@#1\endcsname{}
2334   \expandafter\gdef\csname #1\endcsname##1{
2335     \@for\reserved@a:=#1\do{
2336       \expandafter\ifx\csname hit@#1\endcsname\@empty\else
2337         \expandafter\g@addto@macro\csname hit@#1\endcsname{%
2338           \ignorespaces\csname hit@#1@separator\endcsname}
2339       \fi
2340       \expandafter\expandafter\expandafter\g@addto@macro%
2341       \expandafter\csname hit@#1\expandafter\endcsname\expandafter{\reserved@a}
2342     }
2343   }
2344 }
2345
2346 \def\hitsetup{\kvsetkeys{hit}}
2347
2348 \newcommand{\hit@report@titlepage@graduate}{
2349   \ifthenelse
2350   {\equal{\hit@fontset}{siyuan}}%
2351   {\xiaosi[1]\vspace*{0.65em}}%
2352   {\xiaosi[1]\textcolor{rgb}{1,1,1}{\songti{\hit@hi}}}%
2353   \vspace*{10mm}
2354   \begin{center}
2355     \songti\erhao\textbf{\hit@cschoolname\ifhit@shenzhen\hit@shenzhencampus\fi}
2356   \end{center}
2357   \begin{center}
2358     \songti\erhao\textbf{\hit@cthesis midtermcheck}
2359   \end{center}

```



```

2360 \vspace{66bp}
2361 \parbox[b][3cm][t]{\textwidth}{
2362   \begin{center}\songti\sihao
2363     \renewcommand{\arraystretch}{1.67}
2364     \begin{tabular}{l@{\ \ }c}
2365       \textbf{\hit@graduate@studenttitle} & \textbf{\hit@cauthor}\\
2366       \hline
2367       \textbf{\hit@graduate.enrolldate} & \textbf{\hit@cenrolldate}\\
2368       \hline
2369       \textbf{\hit@graduate.thesistitle} & \textbf{\hit@ctitleone}\\
2370       \hline
2371       & \textbf{\hit@ctitletwo}\\
2372       \hline
2373       \textbf{\hit@graduate.cafflimajor} & \textbf{\hit@csubject}\\
2374       \hline
2375       \textbf{\hit@graduate.datetitle} & \textbf{\hit@cdate}\\
2376       \hline
2377       \textbf{\hit@graduate.supervisor} & \textbf{\hit@csupervisor}\\
2378       \hline
2379     \end{tabular}\renewcommand{\arraystretch}{1}
2380   \end{center}
2381 }
2382 }
2383
2384 \def\makecover{
2385   \begin{titlepage}
2386     \hit@report@titlepage@graduate
2387     \clearpage
2388     \hit@shenzhen@doctor@midterm@note
2389   \end{titlepage}
2390   \AddToShipoutPicture{%
2391     \begin{tikzpicture}[remember picture,overlay]
2392       \draw ($(current page text area.south west)+(-5mm,0mm)$) rectangle ($(current page text area.north
2393     \end{tikzpicture}
2394   }
2395   \pagestyle{fancy}
2396   \fancyhead{}
2397   \renewcommand{\headrulewidth}{0pt}
2398   \renewcommand{\footrulewidth}{0pt}
2399   \fancyfoot[C]{\xiaowu~\thepage~}
2400 }

```

引用和参考文献格式

```

2401
2402 %% 引用和参考文献格式
2403 \newcommand\bibstyle@numerical{\bibpunct{[]{}{}{s}{},{}{\textsuperscript{}}{}}}
2404 \newcommand\bibstyle@inline{\bibpunct{[]{}{}{n}{},{}{\hit@inline@sep}}}
2405
2406 \citestyle{numerical}
2407 \DeclareRobustCommand\inlinecite{\@inlinecite}

```

```

2408 \def\@inlinecite#1{\begingroup\citestyle{inline}\let\@cite\NAT@citenum\citep{#1}\endgroup}
2409 \let\onlinecite\inlinecite
2410
2411 \renewenvironment{thebibliography}[1]{%
2412   \list{\@biblabel{\@arabic{c@enumiv}}}%
2413   {\renewcommand{\makelabel}[1]{##1\hfill}
2414     \settowidth{\labelwidth}{\@biblabel{#1}}
2415     \setlength{\labelsep}{0.5em}
2416     \setlength{\itemindent}{0pt}
2417     \setlength{\leftmargin}{\labelsep+\labelwidth}
2418     \addtolength{\itemsep}{-0.8em}
2419     \usecounter{enumiv}%
2420     \let\p@enumiv@empty
2421   \renewcommand\theenumiv{\@arabic{c@enumiv}}}%
2422   \sloppy\flushbottom
2423   \flushbottom
2424   \clubpenalty0
2425   \@clubpenalty \clubpenalty
2426   \widowpenalty0%
2427   \interlinepenalty-50%
2428   \sfcode\.\@m
2429 }

```

杂项

```

2430
2431 %% 杂项
2432 \AtEndOfClass{\input{hithesisart.cfg}}
2433 \AtEndOfClass{\sloppy}
2434 \artpluscls

```

添加 artcls

```

2435 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2436 % artcls
2437 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
2438 (*artcls)

```

处理文档类选项

```

2439
2440 %% 处理文档类选项
2441 \RequirePackage{kvoptions}
2442 \SetupKeyvalOptions{
2443   family=hit,
2444   prefix=hit@,
2445   setkeys=\kvsetkeys
2446 }
2447
2448 \newif\ifhit@bachelor
2449 \newif\ifhit@master
2450 \newif\ifhit@doctor
2451 \define@key{hit}{type}{%
2452   \hit@bachelorfalse

```

```

2453 \hit@masterfalse
2454 \hit@doctorfalse
2455 \expandafter\csname hit@#1true\endcsname
2456 }
2457
2458 \newif\ifhit@shenzhen
2459 \newif\ifhit@weihai
2460 \newif\ifhit@harbin
2461 \define@key{hit}{campus}{%
2462   \hit@shenzhenfalse
2463   \hit@weihaifalse
2464   \hit@harbinfalse
2465   \expandafter\csname hit@#1true\endcsname
2466 }
2467 \ifhit@weihai\relax\else
2468   \ifhit@shenzhen\relax\else
2469     \hit@harbintrue
2470   \fi
2471 \fi
2472
2473 \newif\ifhit@opening
2474 \newif\ifhit@midterm
2475 \define@key{hit}{stage}{%
2476   \hit@openingfalse
2477   \hit@midtermfalse
2478   \expandafter\csname hit@#1true\endcsname
2479 }
2480
2481 \DeclareBoolOption[true]{raggedbottom}
2482 \DeclareBoolOption[false]{pifootnote}
2483 \DeclareBoolOption[false]{debug}
2484 \DeclareBoolOption[true]{toc}
2485 \DeclareBoolOption[true]{newtxmath}
2486 \DeclareBoolOption[false]{print}
2487
2488
2489 \DeclareStringOption{fontset}
2490 \DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{ctexart}}
2491 \PassOptionsToPackage{no-math}{fontspec}
2492
2493 \ProcessKeyvalOptions*
2494
2495 \ifhit@bachelor\relax\else
2496   \ifhit@master\relax\else
2497     \ifhit@doctor\relax\else
2498       \ClassError{hithesisart}{%
2499         \MessageBreak Please specify thesis type in option:
2500         \MessageBreak type=[bachelor | master | doctor]
2501       }

```

```

2502   \fi
2503   \fi
2504 \fi
2505
2506 \ifhit@opening\relax\else
2507   \ifhit@midterm\relax\else
2508     \ClassError{hithesisart}{%
2509       \MessageBreak Please specify stage in option:
2510       \MessageBreak stage=<opening|midterm>
2511     }
2512   \fi
2513 \fi
2514
2515 \ifhit@doctor
2516   \ifhit@midterm
2517     \ifhit@shenzhen
2518       \ClassError{hithesisart}{%
2519         \MessageBreak This document class does not support midterm report for doctor
2520         in shenzhen campus.
2521         \MessageBreak please use \string\documentclass{hithesisartplus}
2522       }
2523     \fi
2524   \fi
2525 \fi
2526
2527 \RequirePackage{ifthen}
2528 \ifthenelse
2529 {\equal{\hit@fontset}{}}{%
2530 {%
2531   \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}
2532 }%
2533 {%
2534   \ifthenelse
2535   {\equal{\hit@fontset}{siyuan}}{%
2536     {\relax}%
2537   }%
2538   \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}
2539 }%
2540 \PassOptionsToClass{fontset=\hit@fontset}{ctexart}
2541 }%
2542 \LoadClass[a4paper,UTF8,zihao=-4,scheme=plain]{ctexart}

```

各种宏包

```

2543
2544 %% 各种宏包
2545 \RequirePackage{etoolbox}
2546 \RequirePackage{ifxetex}
2547 \ifxetex
2548 \else
2549   \ClassError{hithesis}{Please use: \MessageBreak xelatex}{}

```

```

2550 \fi
2551 \RequirePackage{xparse}
2552
2553 \RequirePackage{amsmath}
2554 \RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}
2555 \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.

```

2556 \setmainfont{TeXGyreTermesX}[
2557   UprightFont = *-Regular ,
2558   BoldFont = *-Bold ,
2559   ItalicFont = *-Italic ,
2560   BoldItalicFont = *-BoldItalic ,
2561   Extension = .otf ,
2562 ]
2563 \setsansfont{texgyreheros}[
2564   UprightFont = *-regular ,
2565   BoldFont = *-bold ,
2566   ItalicFont = *-italic ,
2567   BoldItalicFont = *-bolditalic ,
2568   Extension = .otf ,
2569 ]

```

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.

```

2570 \setmonofont{texgyrecursor}[
2571   UprightFont = *-regular ,
2572   BoldFont = *-bold ,
2573   ItalicFont = *-italic ,
2574   BoldItalicFont = *-bolditalic ,
2575   Extension = .otf ,
2576 ]

```

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

```

2577 \ifhit@newtxmath
2578   \let\oldencodingdefault\encodingdefault
2579   \let\oldrmdefault\rmdefault
2580   \let\oldsfdefault\sfdefault
2581   \let\oldttdefault\ttdefault
2582   \def\encodingdefault{T1}
2583   \renewcommand{\rmdefault}{ntxtlf}
2584   \renewcommand{\sfdefault}{qhv}
2585   \renewcommand{\ttdefault}{ntxtt}
2586   \RequirePackage{newtxmath}
2587   \let\encodingdefault\oldencodingdefault
2588   \let\rmdefault\oldrmdefault
2589   \let\sfdefault\oldsfdefault
2590   \let\ttdefault\oldttdefault
2591 \fi

```

```

2592
2593 \RequirePackage{graphicx}
2594 \RequirePackage{pdfpages}
2595 \includepdfset{fitpaper=true}
2596 \RequirePackage{enumitem}          % 使用 enumitem 宏包, 改变列表项的格式
2597 \RequirePackage{environ}
2598 \ifhit@raggedbottom
2599   \RequirePackage[bottom,perpage,hang]{footmisc}
2600   \raggedbottom
2601 \else
2602   \RequirePackage[perpage,hang]{footmisc}
2603 \fi
2604 \ifhit@pifootnote
2605   \RequirePackage{pifont}
2606 \fi

```

xeCJK 包不再自动加载 xeCJKfntef

```

2607 \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

```

2608
2609 \RequirePackage{longtable}
2610 \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

```

2611 \heavyrulewidth=1.5pt
2612 \lightrulewidth=1pt
2613 \cmidrulewidth=0.5pt
2614
2615 \RequirePackage[sort&compress,numbers]{natbib}
2616 \RequirePackage{hyperref}
2617 \hypersetup{%
2618   CJKbookmarks=true,
2619   linktoc=all,
2620   bookmarksnumbered=true,
2621   bookmarksopen=true,
2622   bookmarksopenlevel=1,
2623   breaklinks=true,
2624   colorlinks=false,
2625   plainpages=false,
2626   pdfborder=0 0 0
2627 }
2628 \urlstyle{same}
2629
2630 \ifhit@debug
2631   \RequirePackage[showframe]{geometry}
2632 \else
2633   \RequirePackage{geometry}
2634 \fi

```

```

2635 \geometry{% 根据 PlutoThesis 原版定义而来
2636   a4paper, % 210 * 297mm
2637   hcentering,
2638   ignoreall,
2639   nomarginpar,
2640   centering,
2641   text={150true mm,236true mm},
2642   left=30true mm,
2643   head=5true mm,
2644   headsep=2true mm,
2645   footskip=0true mm,
2646   foot=5.2true mm
2647 }

2648 \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} }{%
2649   {
2650     \ifhit@opening \geometry{headsep=25pt}
2651     \else \geometry{headsep=17pt}
2652     \fi
2653   }
2654   {}
2655
2656 \ifhit@debug
2657   \RequirePackage{layout}
2658   \RequirePackage{layouts}
2659   \RequirePackage{lineno}
2660 \fi
2661
2662 \RequirePackage{fancyhdr}
2663 \RequirePackage{tabularx}
2664 \RequirePackage{varwidth}
2665 \RequirePackage{changepage}
2666 \RequirePackage{multicol}
2667 \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
2668 \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.
2669 \RequirePackage{multirow}          % 使用 Multirow 宏包, 使得表格可以合并多个 row 格
2670 \RequirePackage{subfigure}% 支持子图 %centerlast 设置最后一行是否居中
2671 \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

    添加字号、行距等设置
2672
2673 %% 添加字号、行距等设置
2674 \renewcommand\normalsize{%
2675   \@setfontsize\normalsize{12bp}{20.50398bp}%
2676   \abovedisplayskip=8pt
2677   \abovedisplayshortskip=8pt
2678   \belowdisplayskip=\abovedisplayskip

```

```

2679 \belowdisplayshortskip=\abovedisplayshortskip
2680 }
2681 \def\hit@def@fontsize#1#2{%
2682   \expandafter\newcommand\csname #1\endcsname[1][1.3]{%
2683     \fontsize{#2}{##1\dimexpr #2}\selectfont
2684   }
2685 }
2686 \hit@def@fontsize{dachu}{58bp}
2687 \hit@def@fontsize{chuhao}{42bp}
2688 \hit@def@fontsize{xiaochu}{36bp}
2689 \hit@def@fontsize{yihao}{26bp}
2690 \hit@def@fontsize{xiaoyi}{24bp}
2691 \hit@def@fontsize{erhao}{22bp}
2692 \hit@def@fontsize{xiaoer}{18bp}
2693 \hit@def@fontsize{sanhao}{16bp}
2694 \hit@def@fontsize{xiaosan}{15bp}
2695 \hit@def@fontsize{sihao}{14bp}
2696 \hit@def@fontsize{banxiaosi}{13bp}
2697 \hit@def@fontsize{xiaosi}{12bp}
2698 \hit@def@fontsize{dawu}{11bp}
2699 \hit@def@fontsize{wuhao}{10.5bp}
2700 \hit@def@fontsize{xiaowu}{9bp}
2701 \hit@def@fontsize{liuhao}{7.5bp}
2702 \hit@def@fontsize{xiaoliu}{6.5bp}
2703 \hit@def@fontsize{qihao}{5.5bp}
2704 \hit@def@fontsize{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

```

2705
2706 %% 进行字号、行距等设置
2707 \ctexset{%
2708   section={
2709     afterindent=true,
2710     beforekip={7.5bp},% 上下空 0.5 行
2711     afterskip={7.5bp},
2712     format={\heiti\xiaosan[1.25]},
2713     aftername=\enspace,
2714     fixskip=true,
2715     break={},
2716   },
2717   subsection={
2718     afterindent=true,
2719     beforekip={7bp},
2720     afterskip={7bp},
2721     format={\heiti\sihao[1.25]},
2722     aftername=\enspace,
2723     fixskip=true,
2724     break={},
2725   },

```



```

2726 subsubsection={
2727     afterindent=true,
2728     beforekip={3bp},
2729     afterskip={3bp},
2730     format={\heiti\normalsize},
2731     aftername=\enspace,
2732     fixskip=true,
2733     break={},
2734 },
2735 paragraph/afterindent=true,
2736 subparagraph/afterindent=true
2737 }

```

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。

```

2738 \ifboolexpr{bool {hit@shenzhen} and bool {hit@master} }
2739 {
2740     \ctexset{
2741         section={
2742             beforekip=25bp,
2743             afterskip=27pt,
2744             format=\ifhit@opening\centering\fi\heiti\xiaoer,
2745             aftername=\quad,
2746             break=\ifhit@opening \clearpage \else {} \fi
2747         },
2748         subsection={
2749             beforekip=12pt,
2750             afterskip=12pt,
2751             format=\heiti\xiaosan,
2752             fixskip=true,
2753             aftername={\ }
2754         },
2755         subsubsection={
2756             beforekip=18pt,
2757             afterskip=21pt,
2758             format=\heiti\sihao,
2759             fixskip=true,
2760             aftername={\ }
2761         }
2762     }
2763     \fancypagestyle{hit@shenzhen@headings@main}{%
2764     \fancyhf{}
2765     \fancyfoot[C]{\xiaowu\thepage}
2766     \renewcommand{\headrule}{
2767         \vskip 1.190132pt
2768         \hrule\@height2.276208pt\@width\headwidth
2769         \vskip 0.75pt
2770         \hrule\@height.75pt\@width\headwidth
2771     }
2772     \fancyhead[C]{\songti\xiaowu[0] 哈尔滨工业大学 (深圳) \ifhit@midterm 中期 \else 硕士学

```

```

位论文开题 \fi 报告}
2773 \fancyfoot[C]{-\ \thepage\ -}
2774 }
2775 \fancypagestyle{hit@shenzhen@headings@front}{%
2776 \fancyhf{}
2777 \renewcommand{\headrule}{
2778 \vskip 1.190132pt
2779 \hrule\@height2.276208pt\@width\headwidth
2780 \vskip 0.75pt
2781 \hrule\@height.75pt\@width\headwidth
2782 }
2783 \fancyhead[C]{\songti\xiaowu[0] 哈尔滨工业大学（深圳）硕士学位论文开题报告}
2784 }
2785 \ifboolexpr{bool {hit@midterm}}{\pagestyle{hit@shenzhen@headings@front}}
2786 }{}

```

中文封面

```

2787
2788 %% 中文封面
2789 \def\hit@def@term#1{%
2790 \define@key{hit}{#1}{\csname #1\endcsname{##1}}
2791 \expandafter\gdef\csname #1\endcsname##1{%
2792 \expandafter\gdef\csname hit@#1\endcsname{##1}
2793 }
2794 \csname #1\endcsname{}
2795 }
2796
2797 \hit@def@term{ctitlecover}
2798 \hit@def@term{csubject}
2799 \hit@def@term{cauthor}
2800 \hit@def@term{cstudentid}
2801 \hit@def@term{cclassid}
2802 \hit@def@term{caffil}
2803 \hit@def@term{csupervisor}
2804 \hit@def@term{cdate}
2805
2806 \def\hit@parse@keywords#1{
2807 \define@key{hit}{#1}{\csname #1\endcsname{##1}}
2808 \expandafter\gdef\csname hit@#1\endcsname{}
2809 \expandafter\gdef\csname #1\endcsname##1{
2810 \@for\reserved@a:=#1\do{
2811 \expandafter\ifx\csname hit@#1\endcsname\@empty\else
2812 \expandafter\g@addto@macro\csname hit@#1\endcsname{%
2813 \ignorespaces\csname hit@#1@separator\endcsname}
2814 \fi
2815 \expandafter\expandafter\expandafter\g@addto@macro%
2816 \expandafter\csname hit@#1\endcsname\expandafter\expandafter{\reserved@a}
2817 }
2818 }
2819 }

```

```

2820
2821 \def\hitsetup{\kvsetkeys{hit}}
2822
2823 \newcommand{\hit@report@titlepage@graduate}{
2824   \ifthenelse
2825     {\equal{\hit@fontset}{siyuan}}%
2826     {\xiaosi[1]\vspace*{0.65em}}%
2827     {\xiaosi[1]\textcolor{rgb}{1,1,1}{\songti{\hit@hi}}}%
2828   \vspace*{10mm}
2829   \begin{center}
2830     % \kaishu\xiaoer\textbf{\hit@cschoolname\ifhit@shenzhen\hit@shenzhencampus\fi}
2831     \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} }%
2832       {\ziju{1/6}}{\kaishu\xiaoer\textbf{\hit@cschoolname}}
2833   \end{center}
2834   \vspace{5mm}
2835   \begin{center}
2836     \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} and bool {hit@opening} }%
2837       {\xiaoyi\ziju{1/8}}{\erhao}
2838     \songti\textbf{\hit@cxuwei\hit@cthesisname}
2839     \ifhit@opening
2840       \hit@stage@opening
2841     \else
2842       \ifhit@midterm
2843         \hit@stage@midterm
2844       \fi
2845     \fi
2846     \hit@stage@doctype
2847   }
2848 \end{center}
2849 \vspace{10mm}
2850 \parbox[t][3cm][t]{\textwidth}{
2851   \begin{center}
2852     \songti\xiaoer\textbf{\hit@cthesisprefix\hit@title@csep\hit@ctitlecover}
2853   \end{center}
2854 }
2855 \parbox[b][3cm][t]{\textwidth}{
2856   \begin{center}\songti\sanhao
2857     \renewcommand{\arraystretch}{2.1}
2858     \begin{tabular}{l@{\ \ }c}
2859       \textbf{\hit@graduate@caffiltitle} & \underline{\makebox[6.1cm]{\textbf{\hit@caffil}}}\\\
2860       \textbf{\hit@graduate@cmajortitle} & \underline{\makebox[6.1cm]{\textbf{\hit@csubject}}}\\\
2861       \textbf{\hit@graduate@supervisor} & \underline{\makebox[6.1cm]{\textbf{\hit@csupervisor}}}\\\
2862       \textbf{\hit@graduate@studenttitle} & \underline{\makebox[6.1cm]{\textbf{\hit@cauthor}}}\\\
2863       \textbf{\hit@graduate@studentid} & \underline{\makebox[6.1cm]{\textbf{\hit@cstudentid}}}\\\
2864       \textbf{\hit@graduate@datetitle} & \underline{\makebox[6.1cm]{\textbf{\hit@cdate}}}\\\
2865     \end{tabular}\renewcommand{\arraystretch}{1}
2866   \end{center}
2867 }
2868 \vfill

```

```

2869 \ifhit@harbin
2870 \hit@harbin@schoolbottommark
2871 \else

2872 \ifhit@shenzhen
2873 \ifhit@opening
2874 \hit@shenzhen@master@schoolbottommark
2875 \fi
2876 \fi
2877 \fi
2878 }
2879
2880 \newcommand{\hit@report@titlepage@bachelor}{
2881 \ifthenelse%
2882 {\equal{\hit@fontset}{siyuan}}%
2883 {\xiaosi[1]\vspace*{0.65em}}%
2884 {\xiaosi[1]\textcolor{rgb}{1,1,1}{\songti{\hit@hi}}}%
2885 \vspace*{10mm}
2886 \begin{center}
2887 \includegraphics[width=6.2cm]{hitlogo}
2888 \end{center}
2889 \begin{center}
2890 \songti\xiaoyi\textbf{\hit@bachelor@cthesisname}
2891 \ifhit@opening
2892 \hit@stage@opening
2893 \else
2894 \ifhit@midterm
2895 \hit@stage@midterm
2896 \fi
2897 \fi
2898 \hit@stage@doctype
2899 }
2900 \end{center}
2901 \vspace{15mm}
2902 \parbox[t][6.5cm][t]{\textwidth}{
2903 \begin{center}
2904 \songti\xiaoer\textbf{\hit@cthesistitleprefix\hit@title@cssep\hit@ctitlecover}
2905 \end{center}
2906 }
2907 \parbox[b][6cm][t]{\textwidth}{
2908 \begin{center}\songti\sanhao
2909 \renewcommand{\arraystretch}{2.1}
2910 \begin{tabular}{l@{\ }c}
2911 \textbf{\hit@bachelor@cmajortitle} & \underline{\makebox[6.1cm]{\textbf{\hit@csubject}}}\\\
2912 \textbf{\hit@bachelor@cstudenttitle} & \underline{\makebox[6.1cm]{\textbf{\hit@cauthor}}}\\\
2913 \textbf{\hit@bachelor@cstudentidtitle} & \underline{\makebox[6.1cm]{\textbf{\hit@cstudentid}}}\\\
2914 \ifhit@weihai % 威海校区特有
2915 \textbf{\hit@bachelor@cclass} & \underline{\makebox[6.1cm]{\textbf{\hit@cclassid}}}\\\
2916 \fi
2917 \textbf{\hit@bachelor@csupervisortitle} & \underline{\makebox[6.1cm]{\textbf{\hit@csupervisor}}}\\\

```

```

2918 \textbf{\hit@bachelor@cdate\title} & \underline{\makebox[6.1cm]{\textbf{\hit@cdate}}}\
2919 \end{tabular}\renewcommand{\arraystretch}{1}
2920 \end{center}
2921 }
2922 \vfill
2923 \ifhit@weihai
2924 \relax
2925 \else
2926 \hit@harbin@bachelor@schoolbottommark
2927 \fi
2928 }
2929
2930 \newcommand{\hit@report@backpage@bachelor}{
2931 \thispagestyle{empty}
2932 \noindent\parbox[t][6.5cm][t]{\textwidth}{\hit@bachelor@teachercomment}
2933 \noindent\parbox[b][6cm][t]{\textwidth}{\hit@bachelor@teachersign\underline{\makebox[3cm]{} }\hfill\hit
2934 }
2935

```

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。

```

2936 \ExplSyntaxOn
2937 \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} }
2938 {
2939 % renew \CTEX@toc@width@n,
2940 % add width of a space to numwidth (stored in \@tempdima)
2941 \cs_set_protected:Npn \CTEX@toc@width@n #1
2942 {
2943 \hbox_set:Nn \l__ctex_tmp_box {#1\},
2944 \dim_set:Nn \@tempdima
2945 {
2946 \dim_max:nn { \@tempdima }
2947 { \box_wd:N \l__ctex_tmp_box }
2948 }
2949 }
2950 \RequirePackage[subfigure]{tocloft}
2951 \renewcommand{\cfttoctitlefont}{\hfill\xiaoer\heiti}
2952 \renewcommand{\cftaftertoctitle}{\hfill\mbox{}}
2953 \renewcommand{\cftsecfont}{\heiti}
2954 \renewcommand{\cftsecpagefont}{}
2955 \renewcommand{\cftsecdotsep}{\cftdotsep}
2956 \renewcommand{\cftsecleader}{\cftdotfill{\cftsecdotsep}}
2957 \renewcommand{\cftdotsep}{1}
2958 \setlength{\cftaftertoctitleskip}{40pt}
2959 \setlength{\cftbeforesecskip}{1.2ex}
2960 \setlength{\cftbeforesubsecskip}{1.2ex}
2961 \setlength{\cftbeforesubsubsecskip}{1.2ex}
2962 \setlength{\cftsubsecindent}{1em}
2963 \setlength{\cftsubsubsecindent}{2em}

```

```

2964 \setlength{\cftsecnumwidth}{1.5em}
2965 \setlength{\cftsubsecnumwidth}{0em}
2966 \setlength{\cftsubsubsecnumwidth}{0em}
2967 \ifboolexpr{bool {hit@midterm}}{\tocloftpagestyle{empty}}{\tocloftpagestyle{hit@shenzhen@headings@from
2968 }}{
2969 % \renewcommand\tableofcontents{%
2970 % \thispagestyle{empty}
2971 % \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} and bool {hit@midterm} }%
2972 % {\patchcmd{\l@section}{\bfseries}{\heiti}{}}{}{}
2973 % \normalize\@starttoc{toc}
2974 % }
2975 }
2976 \ExplSyntaxOff

```

\makecover

```

2977 \def\makecover{
2978 \begin{titlepage}
2979 \ifhit@bachelor
2980 \hit@report@titlepage@bachelor
2981 \else
2982 \hit@report@titlepage@graduate
2983 \fi
2984 \clearpage

2985 \ifhit@print \thispagestyle{empty}\mbox{} \clearpage \fi
2986 \ifhit@toc
2987 \tableofcontents
2988 \clearpage
2989 \fi
2990 \end{titlepage}
2991 \ifboolexpr{ bool {hit@shenzhen} and bool {hit@master} }{\pagestyle{hit@shenzhen@headings@main}}{}{}
2992 }

```

\makebackcover

```

2993 \def\makebackcover{
2994 \clearpage
2995 \hit@report@backpage@bachelor
2996 }

```

引用和参考文献格式

```

2997
2998 %% 引用和参考文献格式
2999 \newcommand\bibstyle@numerical{\bibpunct{[]{}{}{,}{s}{,}}{\textsuperscript{,}}}
3000 \newcommand\bibstyle@inline{\bibpunct{[]{}{}{,}{n}{,}}{\hit@inline@sep}}
3001
3002 \citestyle{numerical}
3003 \DeclareRobustCommand\inlinecite{\@inlinecite}
3004 \def\@inlinecite#1{\begingroup\citestyle{inline}\let\@cite\NAT@citenum\citep{#1}\endgroup}
3005 \let\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。

```

3006 \renewenvironment{thebibliography}[1]{%
3007   \ifbool{expr{ bool {hit@shenzhen} and bool {hit@master} and bool {hit@opening} }}{
3008     {%
3009       \section*{参考文献}
3010       \addcontentsline{toc}{section}{参考文献}
3011     }{}
3012   \list{\@biblabel{\@arabic{c@enumiv}}}%
3013   {\renewcommand{\makelabel}[1]{##1\hfill}
3014    \settowidth{\labelwidth}{\@biblabel{#1}}
3015    \setlength{\labelsep}{0.5em}
3016    \setlength{\itemindent}{0pt}
3017    \setlength{\leftmargin}{\labelsep+\labelwidth}
3018    \addtolength{\itemsep}{-0.8em}
3019    \usecounter{enumiv}%
3020    \let\p@enumiv\@empty
3021   \renewcommand{\theenumiv}{\@arabic{c@enumiv}}}%
3022   \sloppy\flushbottom
3023   \clubpenalty0
3024   \@clubpenalty \clubpenalty
3025   \widowpenalty0%
3026   \interlinepenalty-50%
3027   \sfcode\.\@m
3028 }
3029 }
3030 {\def\@noitemerr
3031  {\@latex@warning{Empty `thebibliography' environment}}}%
3032 \endlist\flushbottom

```

杂项

```

3033
3034 %% 杂项
3035 \AtEndOfClass{\input{hithesisart.cfg}}
3036 \AtEndOfClass{\sloppy}
3037 \artcls

```

4.2 定义选项

```

3038 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3039 % bookcls
3040 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
3041 \bookcls

```

此处添加 book 控制项，用于 cfg 中定理等控制

```

3042 \RequirePackage{kvoptions}
3043 \SetupKeyvalOptions{
3044   family=hit,
3045   prefix=hit@,
3046   setkeys=\kvsetkeys
3047 }
3048
3049 \newif\ifhit@bachelor

```

```

3050 \newif\ifhit@master
3051 \newif\ifhit@doctor
3052 \newif\ifhit@postdoc
3053 \define@key{hit}{type}{%
3054   \hit@bachelorfalse
3055   \hit@masterfalse
3056   \hit@doctorfalse
3057   \hit@postdocfalse
3058   \expandafter\csname hit@#1true\endcsname
3059 }

```

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。

```

3060 \newif\ifhit@shenzhen
3061 \newif\ifhit@weihai
3062 \newif\ifhit@harbin
3063 \define@key{hit}{campus}{%
3064   \hit@shenzhenfalse
3065   \hit@weihaifalse
3066   \hit@harbinfalse
3067   \expandafter\csname hit@#1true\endcsname
3068 }
3069 \ifhit@weihai\relax\else
3070   \ifhit@shenzhen\relax\else
3071     \hit@harbintrue
3072   \fi
3073 \fi

```

此处添加语言选项

```

3074 \newif\ifhit@english
3075 \newif\ifhit@chinese
3076 \define@key{hit}{language}{%
3077   \hit@englishfalse
3078   \hit@chinesefalse
3079   \expandafter\csname hit@#1true\endcsname
3080 }
3081 \ifhit@english\relax\else
3082   \hit@chinesetrue
3083 \fi

```

设置版芯，由于窝工版芯歧义。

```

3084 \newif\ifhit@geometrynewone
3085 \newif\ifhit@geometrynewtwo
3086 \newif\ifhit@geometrynewno
3087 \define@key{hit}{newgeometry}{%
3088   \hit@geometrynewonefalse
3089   \hit@geometrynewtwofalse
3090   \hit@geometrynewnofalse
3091   \expandafter\csname hit@geometrynew#1true\endcsname
3092 }

```

设置字距选项，因为 word 和规范不一致

```

3093 \newif\ifhit@zijvregu

```



```

3094 \newif\ifhit@zijvword
3095 \define@key{hit}{zijv}{%
3096   \hit@zijvregufalse
3097   \hit@zijvwordfalse
3098   \expandafter\csname hit@zijv#1true\endcsname
3099 }

3100 \newif\ifhit@citetwocomma
3101 \newif\ifhit@citetwoendash
3102 \hit@citetwoendashtrue
3103 \define@key{hit}{citetwo}{%
3104   \hit@citetwocommafalse
3105   \hit@citetwoendashfalse
3106   \expandafter\csname hit@citetwo#1true\endcsname
3107 }

```

目录中英文是否用 Arial 字体（默认关闭）。

```
3108 \DeclareBoolOption[false]{arialtoc}
```

章节标题中的英文是否用 Arial 字体（默认打开）。

```
3109 \DeclareBoolOption[false]{arialtitle}
```

中文本科模板中章标题是否加粗，默认是

```
3110 \DeclareBoolOption[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。

```
3111 \DeclareBoolOption[true]{raggedbottom}
```

在脚注标记中使用 pifont 的带圈数字（默认关闭）。

```
3112 \DeclareBoolOption[false]{pifootnote}
```

字体间距设置（默认关闭）。

```
3113 \DeclareBoolOption[false]{glue}
```

文科生四级目录设置（默认关闭）。

```
3114 \DeclareBoolOption[false]{tocfour}
```

目录中“目录”位置是否空行（默认开启）。

```
3115 \DeclareBoolOption[true]{tocblank}
```

章标题是否悬挂居中（默认开启）

```
3116 \DeclareBoolOption[true]{chapterhang}
```

是否是全日制学生（默认是）。

```
3117 \DeclareBoolOption[true]{fulltime}
```

是否有子标题（默认是）。

```
3118 \DeclareBoolOption[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。

```
3119 \DeclareBoolOption[false]{debug}
```

是否使用右开页（默认否）。

```
3120 \DeclareBoolOption[false]{openright}
```

是否为提交图书馆电子版。

```
3121 \DeclareBoolOption[false]{library}
```

图题和标题最后一行是否居中对其（默认是，非规范要求）。

```
3122 \DeclareBoolOption[false]{capcenterlast}
```

子图图题和标题最后一行是否居中对其（默认是，非规范要求）。

```
3123 \DeclareBoolOption[false]{subcapcenterlast}
```

中文目录中 Abstract 是否均为大写

```
3124 \DeclareBoolOption[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`

```
3125 \DeclareBoolOption[true]{bsmainpagenumberline}
```

```
3126 \DeclareBoolOption[false]{bsfrontpagenumberline}
```

```
3127 \DeclareBoolOption[true]{bsheadrule}
```

数学字体是否使用新罗马

```
3128 \DeclareBoolOption[true]{newtxmath}
```

此处应广大刀客要求添加一参考文献分割开关

```
3129 \DeclareBoolOption[false]{splitbibitem}
```

此处添加英文目录开关

```
3130 \DeclareBoolOption[false]{engtoc}
```

声明字体选项。

```
3131 \DeclareStringOption{fontset}
```

将其余选项默认传递给 `ctexbook`。

```
3132 \DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{ctexbook}}
```

解析用户传递过来的选项，并加载 `ctexbook`。

```
3133 \ProcessKeyvalOptions*
```

使用 \LaTeX 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。

```
3134 \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。

```
3135 \ifhit@bachelor
```

```
3136 \PassOptionsToClass{oneside}{book}
```

```
3137 \fi
```

```
3138 \ifhit@master
```

```
3139 \PassOptionsToClass{oneside}{book}
```

```
3140 \fi
```

```
3141 \ifhit@doctor
```

```
3142 \PassOptionsToClass{twoside}{book}
```

```
3143 \fi
```

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。

```
3144 \RequirePackage{ifthen}
```

```
3145 \ifthenelse%
```

```
3146 {\equal{\hit@fontset}{}}%
```

```
3147 {%
```

```

3148 \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}
3149 }%
3150 {%
3151 \ifthenelse%
3152 {\equal{\hit@fontset}{siyuan}}%
3153 {\relax}%
3154 {%
3155 \PassOptionsToPackage{AutoFakeBold=2}{xeCJK}
3156 }%
3157 \PassOptionsToClass{fontset=\hit@fontset}{ctexbook}
3158 }%

```

使用 ctexbook 类，优于调用 ctex 宏包。

```
3159 \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。

```

3160 \ifhit@bachelor\relax\else
3161 \ifhit@master\relax\else
3162 \ifhit@doctor\relax\else
3163 \ifhit@postdoc\relax\else
3164 \ClassError{hithesis}{%
3165 \MessageBreak Please specify thesis type in option:
3166 \MessageBreak type=[bachelor | master | doctor | postdoc]{}
3167 \fi
3168 \fi
3169 \fi
3170 \fi

```

设置字距默认选项

```

3171 \ifhit@zijvregu\relax\else
3172 \ifhit@zijvword\relax\else
3173 \hit@zijvregutru
3174 \fi
3175 \fi

```

重新设置 geometry 的默认选项

```

3176 \ifhit@geometrynewone\relax\else
3177 \ifhit@geometrynewtwo\relax\else
3178 \ifhit@geometrynewno\relax\else
3179 \hit@geometrynewtwotrue
3180 \fi
3181 \fi
3182 \fi

```

4.3 装载宏包

引用的宏包和相应的定义。

```

3183 \RequirePackage{etoolbox}
3184 \RequirePackage{ifxetex}
3185 \ifxetex
3186 \else
3187 \ClassError{hithesis}{Please use: \MessageBreak xelatex}{}
3188 \fi

```

```
3189 \RequirePackage{xparse}
```

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

```
3190 \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

```
3191 \RequirePackage[amsmath,thmmarks,hyperref]{ntheorem}
```

```
3192 \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.

```
3193 \setmainfont{TeXGyreTermesX}[
```

```
3194   UprightFont = *-Regular ,
```

```
3195   BoldFont = *-Bold ,
```

```
3196   ItalicFont = *-Italic ,
```

```
3197   BoldItalicFont = *-BoldItalic ,
```

```
3198   Extension = .otf ,
```

```
3199 ]
```

```
3200 \setsansfont{texgyreheros}[
```

```
3201   UprightFont = *-regular ,
```

```
3202   BoldFont = *-bold ,
```

```
3203   ItalicFont = *-italic ,
```

```
3204   BoldItalicFont = *-bolditalic ,
```

```
3205   Extension = .otf ,
```

```
3206 ]
```

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.

```
3207 \setmonofont{texgyrecursor}[
```

```
3208   UprightFont = *-regular ,
```

```
3209   BoldFont = *-bold ,
```

```
3210   ItalicFont = *-italic ,
```

```
3211   BoldItalicFont = *-bolditalic ,
```

```
3212   Extension = .otf ,
```

```
3213 ]
```

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

```
3214 \ifhit@newtxmath
```

```
3215   \let\oldencodingdefault\encodingdefault
```

```
3216   \let\oldrmdefault\rmdefault
```

```
3217   \let\oldsfdefault\sfdefault
```

```
3218   \let\oldttdefault\ttdefault
```

```
3219   \def\encodingdefault{T1}
```

```
3220   \renewcommand{\rmdefault}{ntxtlf}
```

```
3221   \renewcommand{\sfdefault}{qhv}
```

```
3222   \renewcommand{\ttdefault}{ntxtt}
```

```
3223   \RequirePackage{newtxmath}
```

```
3224   \let\encodingdefault\oldencodingdefault
```

```
3225   \let\rmdefault\oldrmdefault
```

```
3226   \let\sfdefault\oldsfdefault
```

```
3227   \let\ttdefault\oldttdefault
```

```
3228 \fi
```

图形支持宏包。

```
3229 \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。

```
3230 \RequirePackage{pdfpages}
```

```
3231 \includepdfset{fitpaper=true}
```

更好的列表环境。

```
3232 \RequirePackage{enumitem}
```

% 使用 enumitem 宏包, 改变列表项的格式

```
3233 \RequirePackage{environ}
```

禁止 L^AT_EX 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。

```
3234 \ifhit@raggedbottom
```

```
3235 \RequirePackage[bottom,perpage,hang]{footmisc}
```

```
3236 \raggedbottom
```

```
3237 \else
```

```
3238 \RequirePackage[perpage,hang]{footmisc}
```

```
3239 \fi
```

脚注格式。

```
3240 \ifhit@pifootnote
```

```
3241 \RequirePackage{pifont}
```

```
3242 \fi
```

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。

```
3243 \RequirePackage{xeCJKfntef}
```

表格控制

```
3244 \RequirePackage{longtable}
```

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

```
3245 \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

```
3246 \heavyrulewidth=1.5pt
```

```
3247 \lightrulewidth=1pt
```

```
3248 \cmidrulewidth=0.5pt
```

参考文献引用宏包。

```
3249 % \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。

```
3250 \RequirePackage{hyperref}
```

```
3251 \hypersetup{%
```

```
3252 CJKbookmarks=true,
```

```
3253 linktoc=all,
```

```
3254 bookmarksnumbered=true,
```

```
3255 bookmarksopen=true,
```

```
3256 bookmarksopenlevel=1,
```

```
3257 breaklinks=true,
```

```
3258 colorlinks=false,
```

```
3259 plainpages=false,
```

```

3260 pdfborder=0 0 0
3261 }

```

设置 url 样式，与上下文一致

```

3262 \urlstyle{same}

```

根据窝工 2021 年的“四月革命”，引用文献标准更新到 GBT2015

```

3263 \RequirePackage[sort&compress]{gbt7714}
3264 \ifhit@citetwocomma
3265   \patchcmd{\NAT@citexnum}{\def@NAT@last@yr{-\NAT@penalty}}
3266   {%
3267     \ifx\NAT@last@yr\relax
3268     \def@NAT@last@yr{\@citea}%
3269     \else
3270     \def@NAT@last@yr{-\NAT@penalty}%
3271     \fi
3272   }%
3273   {\typeout{Use comma between neighboring citations}}}%
3274   {\ClassError{hithesisbook}{fail to patch \NAT@citexnum}{}}}%
3275 \fi

```

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。

```

3276 \ifhit@debug\RequirePackage[showframe]{geometry}\else\RequirePackage{geometry}\fi
3277 \geometry{% 根据 PlutoThesis 原版定义而来
3278   a4paper, % 210 * 297mm
3279   hcentering,
3280   ignoreall,
3281   nomarginpar,
3282 }

```

添加版芯设置选项

```

3283 \ifhit@geometrynewtwo
3284   \geometry{
3285     centering,
3286     text={150true mm,236true mm},
3287     left=30true mm,
3288     head=5true mm,
3289     headsep=2true mm,
3290     footskip=0true mm,
3291     foot=5.2true mm
3292   }
3293 \else
3294   \ifhit@geometrynewone
3295     \geometry{
3296       centering,
3297       text={150true mm,240true mm},
3298       left=30true mm,
3299       head=5true mm,

```

```

3300     headsep=0true mm,
3301     footskip=0true mm,
3302     foot=0true mm
3303   }
3304 \else
3305   \geometry{% 根据 PlutoThesis 原版定义而来
3306     text={150true mm,224true mm},
3307     top=35.5true mm,
3308     left=30true mm,
3309     head=5true mm,
3310     headsep=2.5true mm,
3311     foot=8.5true mm
3312   }
3313 \fi
3314 \fi

```

载入显示行号的包。

```

3315 \ifhit@debug%
3316   \RequirePackage{layout}
3317   \RequirePackage{layouts}
3318   \RequirePackage{lineno}
3319 \fi

```

利用 fancyhdr 设置页眉页脚。

```
3320 \RequirePackage{fancyhdr}
```

其他包，表格、数学符号包

```

3321 \RequirePackage{tabularx}
3322 \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。

```

3323 \RequirePackage{changepage}
3324 \RequirePackage{multicol}
3325 \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
3326 \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。
3327 \RequirePackage{multirow}         % 使用 Multirow 宏包，使得表格可以合并多个 row 格
3328 \ifhit@subcapcenterlast
3329   \PassOptionsToPackage{centerlast}{subfigure}
3330 \fi
3331 \RequirePackage{subfigure}% 支持子图 %centerlast 设置最后一行是否居中
3332 \RequirePackage[subfigure]{ccaption} % 支持双语标题

```

中英文索引包。

```

3333 \RequirePackage[makeindex]{splitidx}
3334 \newindex[]{}{china}
3335 \newindex[]{}{english}

```

排版 logo。

```
3336 </bookcls>
```

4.5 主文档格式

4.5.1 Three matters

`\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。

```

3337 <*bookcls>
3338 \ifhit@english
3339 \RequirePackage[xindy,order=letter]{glossaries-extra}
3340 \newglossarystyle{engstyle}{%
3341   \glossarystyle{long}%
3342   \renewenvironment{theglossary}%
3343     {\vspace{-\intextsep}\centering\begin{longtable}{@{\hskip 1cm}p{3.5cm}p{\glsgdescwidth}}}%
3344     {\end{longtable}}}
3345 \setabbreviationstyle[acronym]{long-short}
3346 \else
3347 \RequirePackage{glossaries}
3348 \setacronymstyle{short-long}
3349 \fi
3350
3351 \renewcommand*{\genacrfullformat}[2]{%
3352   \glstrylong{#1}%
3353 }
3354 \ifhit@english
3355 \makenoidxglossaries
3356 \else
3357 \makeglossaries
3358 \fi

3359 \ifhit@library\hit@openrightfalse\else\relax\fi
3360 \let\hit@cleardoublepage\cleardoublepage
3361 \newcommand{\hit@clearempydoublepage}{%
3362   \clearpage{\pagestyle{\hit@empty}}\hit@cleardoublepage}
3363 }
3364 \let\cleardoublepage\hit@clearempydoublepage

```

`\frontmatter` 我们的单面和双面模式与常规的不太一样。

```

3365 \renewcommand\frontmatter{%
3366   \ifhit@openright\cleardoublepage\else\clearpage\fi
3367   \@mainmatterfalse
3368   \pagenumbering{Roman}
3369   \pagestyle{\hit@empty}

```

窝工深圳模板范例，一行 34 个字 添加 33 行字选项

```

3370 \ifhit@openright\cleardoublepage\else\clearpage\fi
3371 \ifhit@zijvword
3372 \ziju{0.05416667}
3373 \else
3374 \ifhit@zijvregu
3375 \ziju{0.05580808}
3376 \fi

```



```
3377 \fi
3378 }
```

`\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）。

```
3379 \renewcommand\mainmatter{%
3380   \ifhit@english
3381   \relax
3382   \else
3383   \ifhit@tocblank%
3384   \addtocontents{toc}{\vspace{\baselineskip}} % 规范中并没有这一要求，此处不应该加
3385   \addtocontents{toe}{\vspace{\baselineskip}}
3386   \fi%
3387   \fi
```

添加英文版限制

```
3388   \ifhit@doctor%
3389     \ifhit@library\clearpage\else\cleardoublepage\fi
3390     \else%
3391     \clearpage
3392   \fi%
3393   \@mainmattertrue
3394   \pagenumbering{arabic}
3395   \pagestyle{hit@headings}
3396 }
```

`\backmatter`

```
3397 \renewcommand\backmatter{%
3398   \ifhit@openright\cleardoublepage\else\clearpage\fi
3399   \@mainmattertrue}
3400 \</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。

```
3401 \<*bookcls>
```

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

```
3402 \renewcommand\normalsize{%
3403   \@setfontsize\normalsize{12bp}{\ifhit@glue 20.50394bp \@plus 2.834646bp \@minus 0bp\else 20.50394bp\fi}
3404   \abovedisplayskip=8pt
3405   \abovedisplayshortskip=8pt
3406   \belowdisplayskip=\abovedisplayskip
3407   \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@def@fontsize` 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。

```
3408 \def\hit@def@fontsize#1#2{%
3409   \expandafter\newcommand\csname #1\endcsname[1][1.3]{%
3410     \fontsize{#2}{##1\dimexpr #2}\selectfont}}
```

`\dachu` 一组字号定义。

```
\chuhao 3411 \hit@def@fontsize{dachu}{58bp}
\xiaochu 3412 \hit@def@fontsize{chuhao}{42bp}
\yihao 3413 \hit@def@fontsize{xiaochu}{36bp}
3414 \hit@def@fontsize{yihao}{26bp}
\xiaoyi 3415 \hit@def@fontsize{xiaoyi}{24bp}
\erhao 3416 \hit@def@fontsize{erhao}{22bp}
\xiaoer 3417 \hit@def@fontsize{xiaoer}{18bp}
\sanhao 3418 \hit@def@fontsize{sanhao}{16bp}
```

`\xanhao` `\xanhao` 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，定义一个稍微小一点的字 `\sihao` 号。

```
\banxiaosi 3419 \hit@def@fontsize{xanhao}{15.9bp}
\xiaosi 3420 \hit@def@fontsize{xiaosan}{15bp}
\dawu 3421 \hit@def@fontsize{sihao}{14bp}
\wuhao 3422 \hit@def@fontsize{banxiaosi}{13bp}
3423 \hit@def@fontsize{xiaosi}{12bp}
\xiaowu 3424 \hit@def@fontsize{dawu}{11bp}
3425 \hit@def@fontsize{wuhao}{10.5bp}
\xiaoliu 3426 \hit@def@fontsize{xiaowu}{9bp}
3427 \hit@def@fontsize{liuhao}{7.5bp}
\bahao 3428 \hit@def@fontsize{xiaoliu}{6.5bp}
3429 \hit@def@fontsize{qihao}{5.5bp}
```

```

3430 \hit@def@fontsize{bahao}{5bp}
3431 </bookcls>

```

4.5.3 页眉页脚

\hit@empty 定义三种页眉页脚格式：

- \hit@plain • hit@empty: 页眉页脚都没有
- \hit@headings • 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

```

3432 <*bookcls>
3433 \let\hit@headrule\headrule
3434 \fancypagestyle{hit@empty}{%
3435   \fancyhf{}
3436   \let\headrule\hit@headrule%
3437   \renewcommand{\headrulewidth}{0pt}
3438   \renewcommand{\footrulewidth}{0pt}
3439 }

```

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。

```

3440 \fancypagestyle{hit@headings}{%
3441   \fancyhf{}
3442   \ifhit@english
3443     \fancyhead[C]{\xiaowu[0]\leftmark}
3444     \fancyfoot[C]{\xiaowu~\thepage~}
3445     \renewcommand{\headrule}{
3446       \vskip 1.190132pt
3447       \hrule\@height2.276208pt\@width\headwidth
3448       \vskip 0.75pt
3449       \hrule\@height.75pt\@width\headwidth
3450     }
3451   \else

```

添加英文版页眉格式控制

```

3452   \ifhit@postdoc

```

添加博后页眉控制

```

3453   \fancyhead[C0]{\songti\xiaowu[0]\leftmark}
3454   \fancyhead[CE]{\songti\xiaowu[0]\hit@cschoolname\hit@postdoc@documenttitlenospace}
3455   \fi
3456   \ifhit@doctor
3457   \fancyhead[C0]{\songti\xiaowu[0]\leftmark}
3458   \ifhit@harbin
3459     \fancyhead[CE]{\songti\xiaowu[0]\hit@cschoolname\hit@cxuewei\hit@cthesisname}
3460   \fi
3461   \ifhit@shenzhen
3462     \fancyhead[CE]{\songti\xiaowu[0]\hit@cschoolname\hit@shenzhencampus\hit@cdegree\hit@cthesisname}
3463   \fi
3464   \ifhit@weihai
3465     \fancyhead[CE]{\songti\xiaowu[0]\hit@cschoolname\hit@weihaicampus\hit@cdegree\hit@cthesisname}
3466   \fi

```

```

3467 \else
3468 \ifhit@master
3469 \ifhit@harbin
3470 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@cxuewei\hit@cthesisname}
3471 \fi
3472 \ifhit@shenzhen

```

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

```

3473 \if@mainmatter
3474 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@cdegree\hit@cthesisname}
3475 \else
3476 \fancyhead[C]{\xiaowu[0]\leftmark}
3477 \fi
3478 \fi
3479 \ifhit@weihai
3480 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@weihaicampus\hit@cdegree\hit@cthesisname}
3481 \fi
3482 \fi
3483 \fi
3484 \ifhit@bachelor
3485 \ifhit@harbin
3486 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@bachelor@cxuewei\hit@bachelor@cthesisname}%
3487 \fi
3488 \ifhit@shenzhen
3489 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@shenzhencampus\hit@bachelor@cxuewei\hit@bach
3490 \fi
3491 \ifhit@weihai
3492 \ifhit@bachelor

```

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???

```

3493 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@bachelor@cxuewei\hit@bachelor@cthesisname}
3494 \else
3495 \fancyhead[C]{\songti\xiaowu[0]\hit@cschoolname\hit@weihaicampus\hit@bachelor@cxuewei\hit@bach
3496 \fi
3497 \fi
3498 \fancyfoot[C]{\xiaowu\if@mainmatter\ifhit@bsmainpagenumberline~~\thepage~~\else\thepage\fi\else\if
3499 \ifhit@bsheadrule
3500 \renewcommand{\headrule}{
3501 \vskip 1.190132pt
3502 \hrule\@height2.276208pt\@width\headwidth
3503 \vskip 0.75pt
3504 \hrule\@height.75pt\@width\headwidth
3505 }
3506 \else
3507 \renewcommand{\headrulewidth}{0pt}
3508 \fi
3509 \else
3510 \fancyfoot[C]{\xiaowu~~\thepage~~}
3511 \renewcommand{\headrule}{

```

```

3512     \vskip 1.190132pt
3513     \hrule\@height2.276208pt\@width\headwidth
3514     \vskip 0.75pt
3515     \hrule\@height.75pt\@width\headwidth
3516   }
3517   \fi

   添加一校三区的学校名

3518   \fi
3519   % 此处可能和 word 模板不一致
3520   % 页眉中小五汉字,0 行距时,占用 9pt,页眉高度为 14pt,所以下数字之和要保持等于 14pt-9pt=4.96634pt
3521   % 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。
3522   % 如果页眉是多行的情况, rule 向下溢出
3523   \renewcommand{\footrulewidth}{0pt}
3524 }
3525 \AtBeginDocument{% 此处解决页眉经典 bug
3526   \pagestyle{hit@empty}
3527   \renewcommand{\chaptermark}[1]{\@mkboth{\CTEXthechapter\enspace#1}{}}
3528 \</bookcls>

```

4.5.4 段落

全文首行缩进 2 字符, 标点符号用全角

```

3529 \<*bookcls>
3530 \ctexset{%
3531   punct=quanjiao,
3532   space=auto,
3533   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。

```

3534 \setlist{nosep}
3535 \</bookcls>

```

4.5.5 脚注

脚注符合中文习惯, 数字带圈。

```

3536 \<*bookcls>
3537 \def\hit@textcircled#1{%
3538   \ifnum\value{#1} >9
3539     \ClassError{hithesis}%
3540     {Too many footnotes in this page.}{Keep footnote less than 10.}
3541   \fi
3542   \ifhit@pifootnote%
3543     \ding{\the\numexpr\value{#1}+171\relax}%
3544   \else%
3545     \textcircled{\xiaoliu\arabic{#1}}%
3546   \fi}
3547 \renewcommand{\thefootnote}{\hit@textcircled{footnote}}
3548 \renewcommand{\thempfootnote}{\hit@textcircled{mpfootnote}}

```

定义脚注分割线, 字号 (宋体小五), 以及悬挂缩进 (1.5 字符)。

```

3549 \def\footnoterule{\vskip-3\p@\hrule\@width0.3\textwidth\@height0.4\p@\vskip2.6\p@}
3550 \let\hit@footnotesize\footnotesize
3551 \renewcommand\footnotesize{\hit@footnotesize\xiaowu[1.5]}
3552 \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。

```

3553 \let\hit@makefnmark\@makefnmark
3554 \def\hit@makefnmark{\hbox{\normalfont\@thefnmark}}
3555 \pretocmd{\@makefnmark}{\let\hit@makefnmark\hit@makefnmark}{}{}
3556 \apptocmd{\@makefnmark}{\let\hit@makefnmark\hit@makefnmark}{}{}
3557 \bookcls

```

4.5.6 数学相关

允许太长的公式断行、分页等。

```

3558 \bookcls
3559 \allowdisplaybreaks[4]
3560 \predisplaypenalty=0 % 公式之前可以换页，公式出现在页面顶部
3561 \postdisplaypenalty=0
3562 \renewcommand\theequation{\ifnum \c@chapter>\z@ \thechapter-\fi\@arabic\c@equation}

```

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}}}

3563 \def\make@df@tag{\@ifstar\hit@make@df@tag@@\make@df@tag@@@}
3564 \def\hit@make@df@tag@@#1{\gdef\df@tag{\hit@maketag{#1}\def\@currentlabel{#1}}}
3565 \iffalse
3566 \ifhit@bachelor
3567   \def\hit@maketag#1{\maketag@@@{#1}
3568     (\ignorespaces\text{equationname\hskip0.5em}#1\unskip\@italiccorr)}}
3569   \def\tagform#1{\maketag@@@{#1}
3570     (\ignorespaces\text{equationname\hskip0.5em}#1\unskip\@italiccorr)\eqcaption{#1}}
3571 \fi
3572 \fi
3573 \def\hit@maketag#1{\maketag@@@{(\ignorespaces #1\unskip\@italiccorr)}}
3574 \def\tagform#1{\maketag@@@{(\ignorespaces #1\unskip\@italiccorr)\eqcaption{#1}}}

```

修改 `\tagform` 会影响 `\eqref`。

```

3575 \renewcommand{\eqref}[1]{\textup{(\ref{#1})}}
3576 \bookcls

```

定理标题使用黑体，正文使用宋体，冒号隔开。

```

3577 \bookcfg
3578 \theorembodyfont{\normalfont}
3579 \theoremsymbol{\ensuremath{\square}}
3580 \ifhit@english

```

```

3581 \theoremheaderfont{\normalfont\bf}
3582 \newtheorem*{proof}{Proof}
3583 \else
3584 \theoremheaderfont{\normalfont\heiti}
3585 \newtheorem*{proof}{证明}
3586 \fi

```

英文版黑体加粗

```

3587 \theoremstyle{plain}
3588 \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。

```

3589 \theoremseparator{}
3590 \ifhit@english
3591 \newtheorem{assumption}{Assumption}[chapter]
3592 \newtheorem{definition}{Definition}[chapter]
3593 \newtheorem{proposition}{Proposition}[chapter]
3594 \newtheorem{lemma}{Lemma}[chapter]
3595 \newtheorem{theorem}{Theorem}[chapter]
3596 \newtheorem{axiom}{Axiom}[chapter]
3597 \newtheorem{corollary}{Corollary}[chapter]
3598 \newtheorem{exercise}{exercise}[chapter]
3599 \newtheorem{example}{Example}[chapter]
3600 \newtheorem{remark}{Remark}[chapter]
3601 \newtheorem{problem}{Problem}[chapter]
3602 \newtheorem{conjecture}{Conjecture}[chapter]
3603 \newtheorem{fact}{Fact}[chapter]
3604 \else
3605 \newtheorem{assumption}{假设}[chapter]
3606 \newtheorem{definition}{定义}[chapter]
3607 \newtheorem{proposition}{命题}[chapter]
3608 \newtheorem{lemma}{引理}[chapter]
3609 \newtheorem{theorem}{定理}[chapter]
3610 \newtheorem{axiom}{公理}[chapter]
3611 \newtheorem{corollary}{推论}[chapter]
3612 \newtheorem{exercise}{练习}[chapter]
3613 \newtheorem{example}{例}[chapter]
3614 \newtheorem{remark}{注释}[chapter]
3615 \newtheorem{problem}{问题}[chapter]
3616 \newtheorem{conjecture}{猜想}[chapter]
3617 \newtheorem{fact}{事实}[chapter]
3618 \fi
3619 </bookcfg>
3620 <*artcfg>
3621 \theorembodyfont{\normalfont}
3622 \theoremheaderfont{\normalfont\heiti}
3623 \theoremsymbol{\ensuremath{\square}}
3624 \newtheorem*{proof}{证明}
3625 \theoremstyle{plain}
3626 \theoremsymbol{}
3627 \theoremseparator{}

```

```

3628 \newtheorem{assumption}{假设}
3629 \newtheorem{definition}{定义}
3630 \newtheorem{proposition}{命题}
3631 \newtheorem{lemma}{引理}
3632 \newtheorem{theorem}{定理}
3633 \newtheorem{axiom}{公理}
3634 \newtheorem{corollary}{推论}
3635 \newtheorem{exercise}{练习}
3636 \newtheorem{example}{例}
3637 \newtheorem{remark}{注释}
3638 \newtheorem{problem}{问题}
3639 \newtheorem{conjecture}{猜想}
3640 \ctexset{%
3641   contentsname={目\hspace{\ccwd} 录},
3642   figurename= 图,
3643   tablename= 表
3644 }
3645 \let\CJK@today@save=\today
3646 \def\CJK@today@small@short{\the\year 年 \the\month 月}
3647 \def\CJK@today@small{\the\year 年 \the\month 月 \the\day 日}
3648 \def\CJK@today@big@short{\zhdigits{\the\year} 年\zhnumber{\the\month} 月}
3649 \def\CJK@today@big{\zhdigits{\the\year} 年\zhnumber{\the\month} 月\zhnumber{\the\day} 日}
3650 \def\CJK@today{\CJK@today@small}
3651 \renewcommand\today{\CJK@today}
3652 \newcommand\CJKtoday[1][1]{%
3653   \ifcase#1\def\CJK@today{\CJK@today@save}
3654   \or\def\CJK@today{\CJK@today@small}
3655   \or\def\CJK@today{\CJK@today@big}
3656   \fi}
3657 \cdate{\ifhit@bachelor\CJK@today@small\else\CJK@today@small@short\fi}
3658 \ifhit@doctor
3659 \gdef\hit@cxuweishort{博}
3660 \gdef\hit@cxuewei{\hit@cxuweishort 士}
3661 \gdef\hit@cdegree{\hit@cxueke\hit@cxuewei}
3662 \def\hit@cauthortitle{\hit@cxuweishort 士研究生}
3663 \fi
3664 \ifhit@master
3665 \gdef\hit@cxuweishort{硕}
3666 \gdef\hit@cxuewei{\hit@cxuweishort 士}
3667 \gdef\hit@cdegree{\hit@cxueke\hit@cxuewei}
3668 \def\hit@cauthortitle{\hit@cxuweishort 士研究生}
3669 \fi
3670 \ifhit@bachelor
3671 \gdef\hit@cxuewei{学士}
3672 \fi
3673 \def\hit@stage@opening{开题}
3674 \def\hit@stage@midterm{中期}
3675 \def\hit@stage@doctype{报告}
3676 \def\hit@bachelor@cxuewei{本科}
3677 \def\hit@bachelor@cthesisname{毕业设计（论文）}

```



```

3678 \def\hit@bachelor@cmajortitle{专\hspace{2\ccwd} 业}
3679 \def\hit@bachelor@cstudenttitle{学\hspace{2\ccwd} 生}
3680 \def\hit@bachelor@cstudentidtitle{学\hspace{2\ccwd} 号}
3681 \def\hit@bachelor@cclass{班\hspace{2\ccwd} 号}
3682 \def\hit@bachelor@caffilttitle{院（系）}
3683 \def\hit@bachelor@caffiltitlesz{学院}
3684 \def\hit@bachelor@caffilttitlewh{学院}
3685 \def\hit@bachelor@csupervisortitle{指导教师}
3686 \def\hit@bachelor@cdatetitle{日\hspace{2\ccwd} 期}
3687 \def\hit@bachelor@teachercomment{指导教师评语：}
3688 \def\hit@bachelor@teachersign{指导教师签字：}
3689 \def\hit@bachelor@checkdate{检查日期：}
3690 \def\hit@cthesis titleprefix{题\hspace{\ccwd} 目}

3691 \def\hit@graduate@caffilttitle{\makebox[6\ccwd][s]{院（系）}}
3692 \def\hit@graduate@cmajortitle{\makebox[6\ccwd][s]{\ifbool expr{ bool {hit@shenzhen} and bool {hit@opening
科\,/ \, 专业}{学科}}}
3693 \def\hit@graduate@supervisor{\makebox[6\ccwd][s]{导师}}
3694 \def\hit@graduate@studenttitle{\makebox[6\ccwd][s]{研究生}}
3695 \def\hit@graduate@studentid{\makebox[6\ccwd][s]{学号}}
3696 \def\hit@graduate@datetitle{\ifhit@opening\hit@stage@opening
3697 \else\ifhit@midterm\hit@stage@midterm\fi\fi\hit@stage@doctype 日期}
3698 \def\hit@graduate@enrolldate{\makebox[6\ccwd][s]{入学时间}}
3699 \def\hit@graduate@thesistitle{\makebox[6\ccwd][s]{论文题目}}
3700 \def\hit@graduate@cafflimajor{\makebox[6\ccwd][s]{学科专业}}
3701 \def\hit@cschoolname{哈尔滨工业大学}
3702 \def\hit@shenzhencampus{（深圳）}
3703 \def\hit@cthesisname{学位论文}
3704 \def\hit@cthesis midtermcheck{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\ccwd} 检\hspace{.125\ccwd}
查\hspace{.125\ccwd} 报\hspace{.125\ccwd} 告}
3705 \def\hit@weihaicampus{（威海）}
3706 \def\hit@cschoolnametitle{授予学位单位}
3707 \def\hit@cdatetitle{答辩日期}
3708 \def\hit@caffilttitle{所在单位}
3709 \def\hit@csubjecttitle{学科}
3710 \def\hit@cdegreetitle{申请学位}
3711 \def\hit@csupervisortitle{导师}
3712 \def\hit@cassosupervisortitle{副导师}
3713 \def\hit@ccosupervisortitle{联合导师}
3714 \def\hit@title@csep{:}
3715 \def\hit@natclassifiedindextitle{国内图书分类号}
3716 \def\hit@internatclassifiedindextitle{国际图书分类号}
3717 \def\hit@secretlevel{密级}
3718 \def\hit@schoolidtitle{学校代码}
3719 \def\hit@schoolid{10213}
3720 \newcommand{\hit@authorsig}{作者签名：}
3721 \newcommand{\hit@teachersig}{导师签名：}
3722 \newcommand{\hit@frontdate}{日期：}
3723 \newcommand{\hit@authorizationtitle}{学位论文使用权限}

```

```

3724 % \newcommand{\hit@shenzhen@schoolbottommark}{
3725 %     \begin{center}
3726 %         \songti\sanhao\textbf{哈工大（深圳）制}
3727 %     \end{center}
3728 %     \begin{center}
3729 %         \songti\sanhao\textbf{二〇一二年三月}
3730 %     \end{center}
3731 % }

```

此处删除了时间

```

3732 \newcommand{\hit@harbin@schoolbottommark}{
3733     \begin{center}
3734         \songti\sanhao\textbf{研究生院制}
3735     \end{center}
3736 }

```

```

3737 \newcommand{\hit@harbin@bachelor@schoolbottommark}{
3738     \begin{center}
3739     % \lishu\xiaoer\textbf{哈尔滨工业大学教务处制}
3740     \includegraphics{hrb-bachelor-bottommark.eps}
3741     \end{center}
3742 }

```

```

3743 \newcommand{\hit@shenzhen@master@schoolbottommark}{
3744     \begin{center}
3745         \songti\sanhao\textbf{深圳校区教务部 ~ 制}
3746     \end{center}
3747 }

```

```

3748 \newcommand{\hit@shenzhen@doctor@midterm@note}{
3749 \thispagestyle{empty}
3750 {\begin{center}
3751 \songti\sanhao\textbf{说\hspace{4\ccwd} 明}
3752 \end{center}
3753 }

```

```

3754 \vspace{1cm}\songti\sihao[2]

```

```

3755 \begin{enumerate}[itemsep=-4bp]

```

```

3756 \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。

```

```

3757 \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。

```

```

3758 \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。

```

```

3759 \item 报告统一用 A4 纸打印。

```

```

3760 \end{enumerate}

```

```

3761 }

```

```

3762 \newcommand{\hit@datefill}{\hspace{2.5em} 年\hspace{1.5em} 月\hspace{1.5em} 日}

```

```

3763 \def\hit@hi{嗨! thesis}

```

```

3764 \def\hithesis{\textsc{hi}}-\textsc{Thesis}}

```

```

3765 \def\hit{哈尔滨工业大学}

```

```

3766 </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。

```
3767 <*bookcls>
3768 \ifhit@postdoc
3769 \setlength{\intextsep}{10.5bp}
3770 \setlength{\textfloatsep}{10.5bp}
3771 \setlength{\floatsep}{10.5bp}
```

添加博后的浮动间距设置

```
3772 \else
3773 \setlength{\intextsep}{\ifhit@glue 8.50398bp \@plus 2.83465bp \@minus 0bp\else 8.50398bp\fi}
3774 \setlength{\textfloatsep}{\ifhit@glue 8.50398bp \@plus 2.83465bp \@minus 0bp\else 8.50398bp\fi}
3775 \setlength{\floatsep}{\ifhit@glue 12bp \@plus 2.83465bp \@minus 0bp\else 12bp\fi}
3776 \fi
```

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。

```
3777 \g@addto\macro\appendix{\renewcommand*{\thefigure}{\thechapter-\arabic{figure}}}
3778 \g@addto\macro\appendix{\renewcommand*{\thetable}{\thechapter-\arabic{table}}}
3779 \g@addto\macro\appendix{\renewcommand*{\theequation}{\thechapter-\arabic{equation}}}
3780 \renewcommand{\textfraction}{0.15}
3781 \renewcommand{\topfraction}{0.85}
3782 \renewcommand{\bottomfraction}{0.65}
3783 \renewcommand{\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。

```
3784 \long\def\@makecaption#1#2{%
3785   \vskip\abovcaptionskip
3786   \wuhao\sbox\@tempboxa{#1\ifhit@bachelor\hskip\ccwd\else\enskip\fi#2}%
3787   \ifdim \wd\@tempboxa >\hsize
3788     \ifhit@capcenterlast%
3789       \vskip 6.3bp%
3790       {\setbox0=\vbox{#1\ifhit@bachelor\hskip\ccwd\else\enskip\fi#2}
3791        \setbox1=\vbox{%
3792          \unvbox0
3793          \setbox2=\lastbox
3794          \hbox to \textwidth{\hfill\unhcopy2 \unskip\unskip\hfill}
3795        }
3796        \unvbox1}
3797   \else%
```

```

3798      #1\ifhit@bachelor\hskip\ccwd\else\enskip\fi#2%
3799      \fi%
3800      \par
3801      \else
3802      \global \@minipagefalse
3803      \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
3804      \fi
3805      \vskip\belowcaptionskip}

```

`\LT@makecaption` 有关 `longtable` 的 `caption` 支持

```

3806 \long\def\LT@makecaption#1#2#3{%
3807 \LT@mc\LT@cols c{\hbox to\z@{\hss\parbox[t]{\LTcapwidth{%
3808 \wuhao\sbox\@tempboxa{#1#2\ifhit@bachelor\hskip\ccwd\else\enskip\fi }#3}%
3809 \ifdim\wd\@tempboxa>\hsize
3810 \ifhit@capcenterlast%
3811 \vskip 6.3bp%
3812 {\setbox0=\vbox{#1#2\ifhit@bachelor\hskip\ccwd\else\enskip\fi }#3}
3813 \setbox1=\vbox{%
3814 \unvbox0
3815 \setbox2=\lastbox
3816 \hbox to \textwidth{\hfill\unhcopy2 \unskip\unskip\hfill}
3817 }
3818 \unvbox1}
3819 \else%
3820 #1#2\ifhit@bachelor\hskip\ccwd\else\enskip\fi }#3%
3821 \fi%
3822 \par
3823 \else
3824 \global \@minipagefalse
3825 \hbox to\hsize{\hfil\box\@tempboxa\hfil}
3826 \fi
3827 \endgraf\vskip\belowcaptionskip}%
3828 \hss}}

```

`\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.

```

3829 \renewcommand*{\longbionenumcaption}[7]{%
3830 \@if@contemptyarg{#1}{\caption{#2}}{\caption[#1]{#2}}%
3831 \global\let\@cont@oldtablename\tablename
3832 \gdef\tablename{#3}
3833 \global\let\LT@c@ption\@cont@LT@nonumintoc
3834 \[\[ #6]
3835 \@if@contemptyarg{#4}{\caption{#5}}{\caption[#4]{#5}}%
3836 \global\let\tablename\@cont@oldtablename
3837 \global\let\LT@c@ption\@cont@oldLT@c@ption
3838 \vspace{#7}}

```

`\lftontsize` 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。

```
3839 \let\hit@LT@array\LT@array
3840 \def\LT@array{\wuhao\hit@LT@array} % set default font size
3841 \newcommand{\lftontsize}[1]{\def\LT@array{#1\hit@LT@array}}
```

图表名称及格式。

```
3842 \renewcommand{\thesubtable}{(\alph{subtable})}
3843 \renewcommand{\thefigure}{\arabic{chapter}-\arabic{figure}}% 使图编号为 7-1 的格式 %\protect{~}

3844 \renewcommand{\thesubfigure}{(\alph{subfigure})}% 使子图编号为 a) 的格式
3845 \renewcommand{\p@subfigure}{\thefigure~} % 使子图引用为 7-1 a) 的格式，母图编号和子图编号之
    间用 ~ 加一个空格
3846 \renewcommand{\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。

```
3847 \setitemize{leftmargin=0em,itemsep=0em,partopsep=0em,parsep=0em,topsep=0em,itemindent=3em}
3848 \setenumerate{leftmargin=0em,itemsep=0em,partopsep=0em,parsep=0em,topsep=0em,itemindent=3.5em}
3849 \newcommand{\citeup}[1]{\textsuperscript{\cite{#1}}}
```

此处删除 `hang caption` 的设置

```
3850 \captionnamefont{\wuhao}
3851 \captiontitlefont{\wuhao}
3852 \renewcommand{\subcapsize}{\wuhao}
3853 \setlength{\abovecaptionskip}{0pt}% 为了双标题之间的间距，不能设置
3854 \setlength{\belowcaptionskip}{0pt}
3855 % 自定义项目列表标签及格式 \begin{publist} 列表项 \end{publist}
3856 \newcounter{pubctr} % 自定义新计数器
3857 \newenvironment{publist}{}{}% 定义新环境
3858 \begin{list}{}[\arabic{pubctr}] % 标签格式
3859 {
3860     \usecounter{pubctr}
3861     \setlength{\leftmargin}{1.7em} % 左边界 \leftmargin = \itemindent + \labelwidth + \labelsep
3862     \setlength{\itemindent}{0em} % 标号缩进量
3863     \setlength{\labelsep}{0.5em} % 标号和列表项之间的距离，默认 0.5em
3864     \setlength{\rightmargin}{0em} % 右边界
3865     \setlength{\topsep}{0ex} % 列表到上下文的垂直距离
3866     \setlength{\parsep}{0ex} % 段落间距
3867     \setlength{\itemsep}{0ex} % 标签间距
3868     \setlength{\listparindent}{0pt} % 段落缩进量
3869 }
3870 {\end{list}}
```

设置定理定义格式

```
3871 \renewtheoremstyle{plain}
3872 {\item[\hskip\labelsep \theorem@headerfont ##1\ ##2\theorem@separator]}
3873 {\item[\hskip\labelsep \theorem@headerfont ##1\ ##2\ ##3\theorem@separator]}
3874 \theorembodyfont{\songti\rmfamily}
3875 \theoremheaderfont{\heiti\rmfamily}
3876 \theoremsymbol{$\square$}
3877 \setlength{\theorempreskipamount}{0pt}
```

```

3878 \setlength{\theorempostskipamount}{-2pt}
3879 \setlength{\parindent}{2em}
3880 \arraycolsep=1.6pt
3881 \bookcls

```

4.5.8 章节标题

```

3882 \bookcfg
3883 \ifhit@english
3884 \ctexset{%
3885   chapter/name={Chapter\enskip},,
3886   appendixname={Appendix},
3887   contentsname={Contents},
3888   listfigurename={List of Figures},
3889   listtablename={List of Tables},
3890   figurename={Figure},
3891   tablename={Table},
3892   bibname={References},
3893 }
3894 \else
3895 \ctexset{%
3896   chapter/name={第, 章},
3897   appendixname= 附录,
3898   contentsname={目\hspace{\ccwd} 录},
3899   listfigurename= 插图索引,
3900   listtablename= 表格索引,
3901   figurename= 图,
3902   tablename= 表,
3903   bibname= 参考文献,
3904   indexname= 索引,
3905 }
3906 \fi
3907 \ifhit@postdoc
3908 \ctexset{
3909   contentsname={目录},
3910 }
3911 \fi

```

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

```

3912 \ifhit@english
3913 \newcommand\equationname{Equation}
3914 \else
3915 \newcommand\equationname{公式}
3916 \fi
3917 \newcommand\listfigurename{Index of figure}
3918 \newcommand\listtablename{Index of table}
3919 \newcommand\listequationname{Index of equation}
3920 \newcommand\listequationname{公式索引}

```

设置英文版公式名称

```

3921 \newcommand{\cabstractename}{Abstract (In Chinese)}

```

此处删除冗余选项

```

3922 \newcommand{\eabstractname}{Abstract}
3923 \newcommand{\eabstractename}{Abstract (In English)}
3924 \ifhit@postdoc
3925 \newcommand{\cabstractname}{摘要}
3926 \else
3927 \newcommand{\cabstractname}{摘\hspace{\ccwd} 要}
3928 \fi

```

添加博后摘要

```

3929 \newcommand{\hit@ckeywords@title}{关键词: }
3930 \def\hit@ckeywords@separator{; }
3931 \def\hit@ekeywords@separator{,}
3932 \let\CJK@todaysave=\today
3933 \def\CJK@todaysmall@short{\the\year 年 \the\month 月}
3934 \def\CJK@todaysmall{\the\year 年 \the\month 月 \the\day 日}
3935 \def\CJK@todaybig@short{\zhdigits{\the\year} 年\zhnumber{\the\month} 月}
3936 \def\CJK@todaybig{\zhdigits{\the\year} 年\zhnumber{\the\month} 月\zhnumber{\the\day} 日}
3937 \def\CJK@today{\CJK@todaysmall}
3938 \renewcommand\today{\CJK@today}
3939 \newcommand\CJKtoday[1][1]{%
3940   \ifcase#1\def\CJK@today{\CJK@todaysave}
3941   \or\def\CJK@today{\CJK@todaysmall}
3942   \or\def\CJK@today{\CJK@todaybig}
3943   \fi}

```

按照 word 示范要求, 此处使用阿拉伯数字

```

3944 \cdate{\ifhit@bachelor\CJK@todaysmall\else\CJK@todaysmall@short\fi}
3945 \edate{\ifcase \month \or January\or February\or March\or April\or May%
3946   \or June\or July \or August\or September\or October\or November
3947   \or December\fi\unskip,\ \ \the\year}
3948 </bookcfg>

```

按照我工要求, 页面中标题之下不少于一行。

```

3949 <*bookcls>
3950 \def\hit@title@font{%
3951   \ifhit@arialtitle\sffamily\else\heiti\fi}
3952 \newcommand\hit@chapter@titleformat[1]{% 开启悬挂缩进选项
3953   \ifhit@english
3954     \MakeUppercase{#1}
3955   \else
3956     \ifthenelse%
3957     {\equal{#1}{\eabstractname}}%
3958     {\bfseries #1}%
3959     % 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
3960     {\ifhit@chapterhang\settowidth{\hangindent}{\CTEX@chaptername\CTEX@chapter@aftername}\hangafter=1\fi}
3961   \fi
3962 }

```

添加英文版目录 chapter title 控制

```

3963 \newcommand\hit@chapter@engformat[1]{% 开启悬挂缩进选项

```

```

3964 \begin{center}
3965   \hit@title@font
3966   \if@mainmatter
3967   \xiaoer[1.57481]
3968   \else
3969   \sanhao[1.57481]
3970   \fi\bfseries
3971   #1
3972 \end{center}}
3973 \newcommand\hit@chapter@engnameformat[1]{% 开启悬挂缩进选项
3974   \begin{center}
3975     \MakeUppercase{#1}
3976   \end{center}}
3977 \newcommand\hit@chapter@postdocformat[1]{\centering\hit@title@font\xiaoer[1.57481]\textbf{#1}}

```

添加博后标题格式

```

3978 \renewcommand\@afterheading{%
3979   \@nobreaktrue
3980   \everypar{%
3981     \if@nobreak
3982       \@nobreakfalse
3983       \clubpenalty 1
3984       \if@afterindent \else
3985         {\setbox\z@\lastbox}%
3986       \fi
3987     \else
3988       \clubpenalty 1
3989       \everypar{}}%
3990   \fi}}

```

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

```

3991 \ifhit@english
3992   \ctexset{%
3993     chapter={
3994       afterindent=true,
3995       pagestyle={hit@headings},
3996       beforeskip={\ifboolexpr{ bool {hit@weihai} and bool {hit@bachelor}}{49bp}{28.34646bp}},%
        一个空行 1.57481 × 18
3997       afterskip={\ifboolexpr{ bool {hit@weihai} and bool {hit@bachelor}}{46bp}{28.74646bp}},%0.8
        应该不计算间距 0.8 × 18 + 0.57481×18
3998       aftername={\par},
3999       format={\hit@chapter@engformat},
4000       nameformat={\hit@chapter@engnameformat},%\center 会影响之后全局
4001       numberformat=\relax,
4002       titleformat={\hit@chapter@titleformat},
4003       fixskip=true, % 添加这一行去除默认间距
4004       %hang=true,
4005     },
4006     section={
4007       afterindent=true,

```



```

4008     beforeskip={\ifhit@glue 19.84252bp \@plus 2.834646bp \@minus 0bp \else 19.84252bp \fi},%
      上下空 0.5 行
4009     afterskip={\ifhit@glue 19.84252bp \@plus 2.834646bp \@minus 0bp \else 19.84252bp \fi},
4010     format={\hit@title@font\ifhit@glue\fontsize{15bp}{21bp \@plus 1.677267bp \@minus 1.157391bp}\else\
4011     aftername=\enspace,
4012     fixskip=true,
4013     break={},
4014   },
4015   subsection={
4016     afterindent=true,
4017     beforeskip={\ifhit@glue 17.00787bp \@plus 2.834646bp \@minus 0bp \else 17.00787bp \fi},
4018     afterskip={\ifhit@glue 17.00787bp \@plus 2.834646bp \@minus 0bp \else 17.00787bp \fi},
4019     format={\hit@title@font\ifhit@glue\fontsize{14bp}{18bp \@plus 1.842609bp \@minus 0.9920497bp}\else\
4020     aftername=\enspace,
4021     fixskip=true,
4022     break={},
4023   },
4024   subsubsection={
4025     afterindent=true,
4026     beforeskip={\ifhit@glue 8.503937bp \@plus 2.834646bp \@minus 0bp \else 8.503937bp \fi},
4027     afterskip={\ifhit@glue 8.503937bp \@plus 2.834646bp \@minus 0bp \else 8.503937bp \fi},
4028     format={\hit@title@font\normalsize},
4029     aftername=\enspace,
4030     fixskip=true,
4031     break={},
4032   },
4033   paragraph/afterindent=true,
4034   subparagraph/afterindent=true
4035 }
4036 \else
4037 \ifhit@postdoc
4038   \ctexset{%
4039     chapter={
4040       afterindent=true,
4041       pagestyle={hit@headings},
4042       beforeskip={28.34646bp},% 一个空行 1.57481 × 18
4043       afterskip={28.74646bp},%0.8 应该不计算间距 0.8 × 18 + 0.57481×18
4044       aftername=\enspace,
4045       format={\hit@chapter@postdocformat},%\center 会影响之后全局
4046       nameformat=\relax,
4047       numberformat=\relax,
4048       titleformat=\hit@chapter@titleformat,
4049       fixskip=true, % 添加这一行去除默认间距
4050       %hang=true,
4051     },
4052     section={
4053       afterindent=true,
4054       beforeskip={\ifhit@glue 19.84252bp \@plus 2.834646bp \@minus 0bp \else 19.84252bp \fi},%
      上下空 0.5 行
4055       afterskip={\ifhit@glue 19.84252bp \@plus 2.834646bp \@minus 0bp \else 19.84252bp \fi},

```

```

4056     format={\hit@title@font\ifhit@glue\fontsize{15bp}{21bp \@plus 1.677267bp \@minus 1.157391bp}\else\
4057     aftername=\enspace,
4058     fixskip=true,
4059     break={},
4060   },
4061   subsection={
4062     afterindent=true,
4063     beforeskip={\ifhit@glue 17.00787bp \@plus 2.834646bp \@minus 0bp \else 17.00787bp \fi},
4064     afterskip={\ifhit@glue 17.00787bp \@plus 2.834646bp \@minus 0bp \else 17.00787bp \fi},
4065     format={\hit@title@font\ifhit@glue\fontsize{14bp}{18bp \@plus 1.842609bp \@minus 0.9920497bp}\else\
4066     aftername=\enspace,
4067     fixskip=true,
4068     break={},
4069   },
4070   subsubsection={
4071     afterindent=true,
4072     beforeskip={\ifhit@glue 8.503937bp \@plus 2.834646bp \@minus 0bp \else 8.503937bp \fi},
4073     afterskip={\ifhit@glue 8.503937bp \@plus 2.834646bp \@minus 0bp \else 8.503937bp \fi},
4074     format={\hit@title@font\normalsize},
4075     aftername=\enspace,
4076     fixskip=true,
4077     break={},
4078   },
4079   paragraph/afterindent=true,
4080   subparagraph/afterindent=true
4081 }
4082
4083 \else
4084 \ctexset{%
4085   chapter={
4086     afterindent=true,
4087     pagestyle={hit@headings},
4088     beforeskip={28.34646bp},% 一个空行  $1.57481 \times 18$ 
4089     afterskip={28.74646bp},%  $0.8$  应该不计算间距  $0.8 \times 18 + 0.57481 \times 18$ 

```

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](#)

```

4090     aftername=%
4091     {%
4092       \ifboolexpr{(bool {hit@harbin} and
4093         bool {hit@master}) or
4094         (bool {hit@shenzhen} and
4095         bool {hit@bachelor})}%
4096       {\quad}{\enspace}%
4097     },

```

添加本科生章标题加粗选项

```

4098     format={\centering\hit@title@font\xiaoer[1.57481]\ifhit@chapterbold\ifhit@bachelor\bfseries\fi\fi}

```

影响之后全局

```

4099     nameformat=\relax,
4100     numberformat=\relax,

```

```

4101     titleformat=\hit@chapter@titleformat,
4102     fixskip=true, % 添加这一行去除默认间距
4103     %hang=true,
4104 },
4105 section={
4106     afterindent=true,
4107     beforeskip={\ifhit@glue 19.84252bp \@plus 2.834646bp \@minus 0bp \else 19.84252bp \fi},%
    上下空 0.5 行
4108     afterskip={\ifhit@glue 19.84252bp \@plus 2.834646bp \@minus 0bp \else 19.84252bp \fi},
4109     format={\hit@title@font\ifhit@glue\fontsize{15bp}{21bp \@plus 1.677267bp \@minus 1.157391bp}\else\
4110     aftername=%
4111     {%
4112         \ifboolexpr{(bool {hit@harbin} and
4113                     bool {hit@master}) or
4114                     (bool {hit@shenzhen} and
4115                     bool {hit@bachelor})}%
4116         {\quad}{\enspace}%
4117     },
4118     fixskip=true,
4119     break={},
4120 },
4121 subsection={
4122     afterindent=true,
4123     beforeskip={\ifhit@glue 17.00787bp \@plus 2.834646bp \@minus 0bp \else 17.00787bp \fi},
4124     afterskip={\ifhit@glue 17.00787bp \@plus 2.834646bp \@minus 0bp \else 17.00787bp \fi},
4125     format={\hit@title@font\ifhit@glue\fontsize{14bp}{18bp \@plus 1.842609bp \@minus 0.9920497bp}\else\
4126     aftername=%
4127     {%
4128         \ifboolexpr{(bool {hit@harbin} and
4129                     bool {hit@master}) or
4130                     (bool {hit@shenzhen} and
4131                     bool {hit@bachelor})}%
4132         {\quad}{\enspace}%
4133     },
4134     fixskip=true,
4135     break={},
4136 },
4137 subsubsection={
4138     afterindent=true,
4139     beforeskip={\ifhit@glue 8.503937bp \@plus 2.834646bp \@minus 0bp \else 8.503937bp \fi},
4140     afterskip={\ifhit@glue 8.503937bp \@plus 2.834646bp \@minus 0bp \else 8.503937bp \fi},
4141     format={\hit@title@font\normalsize},
4142     aftername=%
4143     {%
4144         \ifboolexpr{(bool {hit@harbin} and
4145                     bool {hit@master}) or
4146                     (bool {hit@shenzhen} and
4147                     bool {hit@bachelor})}%
4148         {\quad}{\enspace}%

```

```

4149     },
4150     fixskip=true,
4151     break={},
4152   },
4153   paragraph/afterindent=true,
4154   subparagraph/afterindent=true
4155 }
4156 \fi
4157 \fi

```

此处添加英文版和博后的 title 设置 设置附表、附录格式。

```

4158 \ifhit@english
4159 \NewDocumentCommand{\hit@appendix@chapter}{s o m o}{%
4160   \IfBooleanT{#1}%
4161   {
4162     \phantomsection
4163     \IfValueTF{#2}{
4164       \markboth{#2}{#2}
4165     }{
4166       \markboth{#3}{#3}
4167     }
4168
4169     \ifthenelse%
4170     {\equal{#3}{\cabstractcname}}{%
4171       {\relax}
4172       {\addcontentsline{toc}{chapter}{\texorpdfstring{\ifhit@arialtitle\sffamily\heiti\else\heiti\fi #3}{#3}}
4173
4174       \IfValueT{#4}{\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries #4}{#4}}}
4175       \hit@chapter*{#3}
4176     }
4177   }
4178 \else

```

添加英文版附表格式

```

4179 \NewDocumentCommand{\hit@appendix@chapter}{s o m o}{%
4180   \IfBooleanT{#1}%
4181   {
4182     \phantomsection
4183     \IfValueTF{#2}{
4184       \markboth{#2}{#2}
4185     }{
4186       \markboth{#3}{#3}
4187     }
4188
4189     \ifthenelse%
4190     {\equal{#3}{\eabstractcname}}{%
4191       {\addcontentsline{toc}{chapter}{\texorpdfstring{\ifhit@arialtitle\sffamily\heiti\else\heiti\fi \if
4192       {\addcontentsline{toc}{chapter}{\texorpdfstring{\ifhit@arialtitle\sffamily\heiti\else\heiti\fi #3}{#3}}
4193       \IfValueT{#4}{\addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries #4}{#4}}}
4194       \hit@chapter*{#3}
4195     }
4196   }

```

```

4196 \fi
4197 \newcommand{\BiAppChapter}[2]    % 该附录命令适用于有章节的完整附录
4198 {\phantomsection
4199  \chapter{#1}

    此处添加保护选项
4200 \addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries \xiaosi Appendix \thechapter~#2}{Appendix \th
4201 }}

```

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`

```

4202 \let\hit@chapter\chapter
4203 \RenewDocumentCommand{\chapter}{s o m o}{%
4204  \ifhit@openright\cleardoublepage\else\clearpage\fi\phantomsection%
4205  \IfBooleanTF{#1}%
4206  {% if \chapter*
4207   \IfNoValueTF{#2}%
4208   {\hit@chapter*{#3}}%
4209   {\hit@chapter*[#2]{#3}}%
4210   \IfValueT{#4}{%

    此处添加保护选项
4211     \addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries #4}{#4}}
4212   }
4213 }%
4214 {% if \chapter
4215  \IfNoValueTF{#2}%
4216  {\hit@chapter{#3}}%
4217  {\hit@chapter[#2]{#3}}%
4218  \IfValueT{#4}{%

    此处需删除章节的空白 此处添加保护选项
4219  \addcontentsline{toe}{chapter}
4220  {
4221    \texorpdfstring
4222    {\bfseries\relax \hit@engtoc@chapapp \thechapter\hspace{0.5em}\ignorespaces #4}
4223    {\hit@engtoc@chapapp \thechapter\hspace{0.5em}\ignorespaces #4}
4224  }
4225  }
4226 }
4227 }

```

`\section`

```

4228 \let\hit@section\section
4229 \RenewDocumentCommand\section{s o m o}{
4230  \IfBooleanTF{#1}%
4231  {% if \section*
4232   \IfNoValueTF{#2}%
4233   {\hit@section*{#3}}%

```

```

4234     {\hit@section*{#2}{#3}}%
4235     \IfValueT{#4}{%
4236         \addcontentsline{toe}{section}{#4}
4237     }
4238 }%
4239 {% if \section
4240     \IfNoValueTF{#2}%
4241     {\hit@section{#3}}%
4242     {\hit@section[#2]{#3}}%
4243     \IfValueT{#4}{%

```

此处需删除章节的空白

```

4244     \addcontentsline{toe}{section}{\protect\numberline{\csname thesection\endcsname}\ignorespaces #4}
4245     }
4246 }
4247 }

```

`\subsection`

```

4248 \let\hit@subsection\subsection
4249 \RenewDocumentCommand\subsection{s o m o}{
4250     \IfBooleanTF{#1}%
4251     {% if \subsection*
4252         \IfNoValueTF{#2}%
4253         {\hit@subsection*{#3}}%
4254         {\hit@subsection*{#2}{#3}}%
4255         \IfValueT{#4}{%
4256             \addcontentsline{toe}{subsection}{#4}
4257         }
4258     }%
4259     {% if \subsection
4260         \IfNoValueTF{#2}%
4261         {\hit@subsection{#3}}%
4262         {\hit@subsection[#2]{#3}}%
4263         \IfValueT{#4}{%

```

此处需删除章节的空白

```

4264     \addcontentsline{toe}{subsection}{\protect\numberline{\csname thesubsection\endcsname}\ignorespaces #4}
4265     }
4266 }
4267 }

```

`\subsubsection`

```

4268 \let\hit@subsubsection\subsubsection
4269 \RenewDocumentCommand\subsubsection{s o m o}{
4270     \IfBooleanTF{#1}%
4271     {% if \subsubsection*
4272         \IfNoValueTF{#2}%
4273         {\hit@subsubsection*{#3}}%
4274         {\hit@subsubsection*{#2}{#3}}%
4275         \IfValueT{#4}{%
4276             \addcontentsline{toe}{subsubsection}{#4}

```

```

4277     }
4278 }%
4279 {% if \subsubsection
4280   \IfNoValueTF{#2}%
4281   {\hit@subsubsection{#3}}%
4282   {\hit@subsubsection[#2]{#3}}%
4283   \IfValueT{#4}{%
      此处需删除章节的空白
4284   \addcontentsline{toe}{subsubsection}{\protect\numberline{\csname thesubsubsection\endcsname}\ignorespaces}
4285   }
4286 }
4287 }

```

4.5.9 定义封面

封面信息。

```

4288 \def\hit@def@term#1{%
4289   \define@key{hit}{#1}{\csname #1\endcsname{##1}}
4290   \expandafter\gdef\csname #1\endcsname##1{%
4291     \expandafter\gdef\csname hit@#1\endcsname{##1}}
4292   \csname #1\endcsname{}}
4293
4294 \hit@def@term{statesecrets} % 密级
4295 \hit@def@term{natclassifiedindex} % 国内图书分类号
4296 \hit@def@term{intclassifiedindex} % 国际图书分类号
4297
4298 \hit@def@term{ctitlecover} % 中文标题封面
4299 \hit@def@term{ctitle} % 中文标题
4300 \hit@def@term{csubtitle} % 中文副标题
4301 \hit@def@term{cxueke} % 中文学科
4302 \hit@def@term{cauthor} % 中文作者
4303 \hit@def@term{csupervisor} % 中文导师
4304 \hit@def@term{cassosupervisor} % 中文副导师
4305 \hit@def@term{ccosupervisor}% 中文联合导师
4306 \hit@def@term{caffil}% 中文院系
4307 \hit@def@term{csubject}% 中文专业

```

根据 [issue: #95](#) 增加一个变量 `szshortcdate` 来存储答辩时间。

```

4308 \hit@def@term{szshortcdate}
4309 \hit@def@term{cdate}
4310 \hit@def@term{cnumber}
4311 \hit@def@term{cpositionname}

```

添加博后封皮选项

```

4312 \hit@def@term{cfinishdate}
4313 \hit@def@term{csubmitdate}
4314 \hit@def@term{cstartdate}
4315 \hit@def@term{cenddate}

```

添加博后封皮的 `title` 选项

```

4316
4317 \hit@def@term{cstudentid}%
4318 \hit@def@term{cstudenttype}%
4319 \hit@def@term{ctitleone}%
4320 \hit@def@term{ctitletwo}%
4321
4322
4323 \hit@def@term{etitle} % 英文标题
4324 \hit@def@term{esubtitle} % 英文标题
4325 \hit@def@term{exueke} % 英文学科
4326 \hit@def@term{eauthor} % 英文作者
4327 \hit@def@term{esupervisor} % 英文导师
4328 \hit@def@term{eassosupervisor} % 英文副导师
4329 \hit@def@term{ecosupervisor} % 英文联合导师
4330 \hit@def@term{eaffil}
4331 \hit@def@term{esubject}
4332 \hit@def@term{edate}
4333 \hit@def@term{estudenttype}
4334 \newcommand{\hit@cabstrack}[1]{\long\gdef\hit@cabstrack{#1}}
4335 \newenvironment{cabstrack}{\Collect@Body\hit@cabstrack}{}
4336 \newcommand{\hit@eabstrack}[1]{\long\gdef\hit@eabstrack{#1}}
4337 \newenvironment{eabstrack}{\Collect@Body\hit@eabstrack}{}
4338 \def\hit@parse@keywords#1{
4339   \define@key{hit}{#1}{\csname #1\endcsname{##1}}
4340   \expandafter\gdef\csname hit@#1\endcsname{}
4341   \expandafter\gdef\csname #1\endcsname##1{
4342     \@for\reserved@a:=#1\do{
4343       \expandafter\ifx\csname hit@#1\endcsname\@empty\else
4344         \expandafter\g@addto@macro\csname hit@#1\endcsname{%
4345           \ignorespaces\csname hit@#1@separator\endcsname}
4346       \fi
4347       \expandafter\expandafter\expandafter\g@addto@macro%
4348         \expandafter\csname hit@#1\expandafter\endcsname\expandafter{\reserved@a}}}}
4349 \hit@parse@keywords{ckeywords}
4350 \hit@parse@keywords{ekeywords}
4351 \def\hitsetup{\kvsetkeys{hit}}
4352 \</bookcls>

```

定义封面中用到的词汇。

```

4353 \<bookcfg>
4354 \ifhit@postdoc
4355 \gdef\hit@cxuweishort{博}
4356 \gdef\hit@exuewei{Doctor}
4357 \gdef\hit@exuweier{Doctoral}
4358 \gdef\hit@cxuewei{\hit@cxuweishort 士}
4359 \gdef\hit@cdegree{\hit@cxueke\hit@cxuewei}
4360 \gdef\hit@edegree{\hit@exuewei \ of \hit@exueke}
4361 \def\hit@cauthortitle{\hit@cxuweishort 士研究生}
4362 \fi

```

添加博后选项


```

4363
4364 \ifhit@doctor
4365 \gdef\hit@cxuweishort{博}
4366 \gdef\hit@exuewei{Doctor}
4367 \gdef\hit@exuweier{Doctoral}
4368 \gdef\hit@cxuewei{\hit@cxuweishort 士}
4369 \gdef\hit@cdegree{\hit@cxueke\hit@cxuewei}
4370 \gdef\hit@edegree{\hit@exuewei \ of \hit@exueke}
4371 \def\hit@cauthortitle{\hit@cxuweishort 士研究生}
4372 \fi
4373 \ifhit@master
4374 \gdef\hit@cxuweishort{硕}
4375 \gdef\hit@exuewei{Master}
4376 \gdef\hit@exuweier{Master's}
4377 \gdef\hit@cxuewei{\hit@cxuweishort 士}
4378 \gdef\hit@cdegree{\hit@cxueke\hit@cxuewei}
4379 \gdef\hit@edegree{\hit@exuewei \ of \hit@exueke}
4380 \def\hit@cauthortitle{\hit@cxuweishort 士研究生}
4381 \fi
4382 \ifhit@bachelor
4383 \gdef\hit@cxuewei{学士}
4384 \fi
4385
4386
4387 \def\hit@postdoc@classifiedindex{分类号}
4388 \def\hit@postdoc@secretlevel{密级}
4389 \def\hit@postdoc@UDC{U\hspace{0.4\ccwd}D\hspace{0.4\ccwd}C}
4390 \def\hit@stage@opening{开题}
4391 \def\hit@stage@midterm{中期}
4392 \def\hit@stage@doctype{报告}
4393
4394
4395 \def\hit@postdoc@number{编号}

```

更改博后封皮中文字间距

```

4396 \def\hit@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\ccwd}
    告}
4397 \def\hit@postdoc@documenttitlenospace{博士后研究工作报告}
4398 \def\hit@postdoc@finishdate{工作完成日期}
4399 \def\hit@postdoc@submitdate{报告提交日期}
4400
4401 \def\hit@postdoc@authorname{博\hspace{0.5\ccwd} 士\hspace{0.5\ccwd} 后\hspace{0.5\ccwd} 姓\hspace{0.5\ccwd}
    名}
4402 \def\hit@postdoc@supervisor{合\hspace{\ccwd} 作\hspace{\ccwd} 导\hspace{\ccwd} 师}
4403 \def\hit@postdoc@positionname{流\hspace{0.5\ccwd} 动\hspace{0.5\ccwd} 站\hspace{0.5\ccwd} 名\hspace{0.5\ccwd}
    称}
4404 \def\hit@postdoc@major{专\hspace{\ccwd} 业\hspace{\ccwd} 名\hspace{\ccwd} 称}
4405 \def\hit@postdoc@startdate{研究工作起始时间}
4406 \def\hit@postdoc@enddate{研究工作期满时间}

```

```
4407 \def\hit@postdoc@separator{: }
```

添加博后选项

```
4408
```

```
4409
```

```
4410 \def\hit@bachelor@cxuewei{本科}
```

```
4411 \def\hit@bachelor@cthesisname{毕业设计（论文）}
```

```
4412
```

```
4413
```

```
4414
```

```
4415 \def\hit@bachelor@cmajortitle{专\hspace{2\ccwd} 业}
```

```
4416 \def\hit@bachelor@cstudenttitle{学\hspace{2\ccwd} 生}
```

```
4417 \def\hit@bachelor@cstudentidtitle{学\hspace{2\ccwd} 号}
```

```
4418 \def\hit@bachelor@cclass{班\hspace{2\ccwd} 号}
```

添加本科开题封皮中 title 定义

```
4419
```

```
4420
```

```
4421
```

```
4422 \def\hit@bachelor@caffilttitle{院（系）}
```

```
4423 </bookcfg>
```

此处添加深圳校区设置

```
4424 <*bookcfg>
```

```
4425 \def\hit@bachelor@caffilttitlesz{学院}
```

```
4426 \def\hit@bachelor@caffilttitlewh{学院}
```

```
4427 \def\hit@bachelor@cstudentidtitle{学号}
```

```
4428 \def\hit@bachelor@cmajortitle{专业}
```

```
4429 \def\hit@bachelor@csupervisortitle{指导教师}
```

```
4430 \def\hit@bachelor@cthesisitle{题目}
```

深圳校区本科生第二封面中是“姓名”。

```
4431 \ifboolexpr{bool {hit@shenzhen} and bool {hit@bachelor}}
```

```
4432 { \def\hit@bachelor@cstudenttitle{姓名}}
```

```
4433 { \def\hit@bachelor@cstudenttitle{学生}}
```

```
4434 \def\hit@cthesisname{学位论文}
```

```
4435
```

```
4436
```

```
4437 \def\hit@bachelor@cdateititle{日\hspace{2\ccwd} 期}
```

```
4438
```

```
4439 \newcommand{\hit@bachelor@teachercomment}{指导教师评语: }
```

```
4440 \newcommand{\hit@bachelor@teachersign}{指导教师签字: }
```

```
4441 \newcommand{\hit@bachelor@checkdate}{检查日期: }
```

```
4442
```

```
4443
```

```
4444 \def\hit@cthesisitleprefix{题\hspace{\ccwd} 目}
```

```
4445
```

```
4446
```

```
4447 \def\hit@graduate@caffilttitle{院\hspace{3\ccwd} (系) }
```

```
4448 \def\hit@graduate@cmajortitle{学\hspace{4\ccwd} 科}
```

```
4449 \def\hit@graduate@supervisor{导\hspace{4\ccwd} 师}
```

```
4450 \def\hit@graduate@studenttitle{研\hspace{1.5\ccwd} 究\hspace{1.5\ccwd} 生}
```

```

4451 \def\hit@graduate@studentid{学\hspace{4\ccwd} 号}
4452
4453
4454 \def\hit@graduate@datetitle{\ifhit@opening\hit@stage@opening
4455 \else\ifhit@midterm\hit@stage@midterm\fi\fi\hit@stage@doctype 日期}
4456 \def\hit@graduate@enrolldate{入\hspace{0.666666\ccwd} 学\hspace{0.666666\ccwd} 时\hspace{0.666666\ccwd}
    间}
4457 \def\hit@graduate@thesistitle{论\hspace{0.666666\ccwd} 文\hspace{0.666666\ccwd} 题\hspace{0.666666\ccwd}
    目}
4458 \def\hit@graduate@cafflimajor{学\hspace{0.666666\ccwd} 科\hspace{0.666666\ccwd} 专\hspace{0.666666\ccwd}
    业}
4459
4460
4461 \def\hit@cschoolname{哈尔滨工业大学}
4462 </bookcfg>

```

此处添加深圳校区设置

```

4463 <*bookcfg>
4464 \def\hit@shenzhencampus{深圳校区}
4465 \def\hit@shenzhencampus@postdoc{(深圳)}
4466 \def\hit@weihaicampus{(威海)}
4467 \def\hit@harbincampus{(哈尔滨)}

```

添加哈尔滨校区选项

```

4468
4469 \def\hit@cschoolnametitle{授予学位单位}
4470 \def\hit@cdate{答辩日期}
4471 \def\hit@caffilttitle{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”。

```

4472 \ifboolexpr{bool {hit@harbin} and bool {hit@master}}
4473 {\def\hit@csubjecttitle{学科或类别}}
4474 {\def\hit@csubjecttitle{学科}}
4475 % \def\hit@csubjecttitle{学科}
4476 \def\hit@cdegreetitle{申请学位}
4477 \def\hit@csupervisortitle{导师}
4478 \def\hit@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。

```

4479 \def\hit@ccosupervisortitle{合作导师}
4480 \def\hit@title@csep{: }
4481 \def\hit@eauthortitle{Candidate}
4482 \def\hit@esupervisortitle{Supervisor}
4483 \def\hit@eassosupervisortitle{Associate Supervisor}

4484 \def\hit@ecosupervisortitle{Co-Supervisor off Campus}
4485 \def\hit@edegreetitle{Academic Degree Applied for}
4486 \def\hit@esubjecttitle{Specialty}
4487 \def\hit@eaffilttitle{Affiliation}

```

深圳硕士英文封面是 Defense, 其他为 Defence.

```

4488 \ifboolexpr{bool {hit@shenzhen} and bool {hit@master}}
4489   {\def\hit@edatetitle{Date of Defense}}
4490   {\def\hit@edatetitle{Date of Defence}}
4491 \def\hit@eschoolnametitle{Degree-Conferring-Institution}
4492 \def\hit@eschoolname{Harbin Institute of Technology}
4493 \def\hit@title@esep{:}
4494 \def\hit@natclassifiedindextitle{国内图书分类号}
4495 \def\hit@internatclassifiedindextitle{国际图书分类号}
4496 \def\hit@secretlevel{密级}
4497 \def\hit@schoolidtitle{学校代码}
4498 \def\hit@schoolid{10213}

```

4499

```

4500 \ifhit@postdoc
4501 \def\hit@conclusion@ctitle{结论}
4502 \else
4503 \def\hit@conclusion@ctitle{结\hspace{\ccwd} 论}
4504 \fi
4505
4506 \def\hit@conclusion@etitle{Conclusions}
4507 \def\hit@bibname@etitle{References}
4508
4509 \ifhit@postdoc
4510 \def\hit@acknowledgement@ctitle{致谢}
4511 \else
4512 \def\hit@acknowledgement@ctitle{致\hspace{\ccwd} 谢}
4513 \fi
4514
4515 \def\hit@acknowledgement@etitle{Acknowledgements}
4516 \ifhit@postdoc
4517 \def\hit@resume@ctitle{博士后个人简历}
4518 \else
4519 \def\hit@resume@ctitle{个人简历}
4520 \fi

```

添加博后封皮 title 的选项

```

4521
4522
4523 \def\hit@correspondingaddr@ctitle{永久通讯地址}
4524
4525
4526 \def\hit@resume@etitle{Resume}
4527 \def\hit@authorization@ctitle{哈尔滨工业大学学位论文原创性声明和使用权限}
4528 \def\hit@authorization@etitle{Statement of copyright and Letter of authorization}
4529
4530
4531
4532 \newcommand{\hit@authorsig}{作者签名: }
4533 \newcommand{\hit@teachersig}{导师签名: }
4534 \newcommand{\hit@frontdate}{日期: }

```

```

4535 \newcommand{\hit@denotation@ctitle}{物理量名称及符号表}
4536 \newcommand{\hit@denotation@etitle}{List of physical quantity and symbol}
4537 \newcommand{\hit@authorizationtitle}{学位论文使用权限}
4538
4539 \newcommand{\hit@shenzhen@schoolbottommark}{
4540     \begin{center}
4541         \songti\sanhao\textbf{哈工大（深圳）制}
4542     \end{center}
4543     \begin{center}
4544         \songti\sanhao\textbf{二〇一二年三月}
4545     \end{center}
4546 }
4547 \newcommand{\hit@harbin@schoolbottommark}{
4548     \begin{center}
4549         \songti\sanhao\textbf{研究生院制}
4550     \end{center}
4551     \begin{center}
4552         \songti\sanhao\textbf{二〇一四年九月}
4553     \end{center}
4554 }
4555 \newcommand{\hit@harbin@bachelor@schoolbottommark}{
4556     \begin{center}
4557         % \lishu\xiaoer\textbf{哈尔滨工业大学教务处制}
4558         \includegraphics{hrb-bachelor-bottommark.eps}
4559     \end{center}
4560 }
4561
4562
4563 \newcommand{\hit@shenzhen@doctor@midterm@note}{
4564 \thispagestyle{empty}
4565 {\begin{center}
4566 \songti\sanhao\textbf{说\hspace{4\ccwd} 明}
4567 \end{center}
4568 }
4569 \vspace{1cm}\songti\sihao[2]
4570 \begin{enumerate}[itemsep=-4bp]
4571 \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。
4572 \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。
4573 \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。
4574 \item 报告统一用 A4 纸打印。
4575 \end{enumerate}
4576 }

      添加深圳中期报告内容

4577
4578
4579
4580 \newcommand{\hit@authorizationtext}{%

```

4581 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：

4582

4583 (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。

4584

4585 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。

4586

4587 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

4588

4589 \newcommand{\hit@declarename@bachelor}{%

4590 \ifhit@weihai

4591 本科毕业设计（论文）原创性声明

4592 \else

深圳校区更改了原创性声明的标题

4593 \ifhit@shenzhen

4594 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

4595 \else

4596 哈尔滨工业大学本科毕业设计（论文）原创性声明

4597 \fi\fi

4598 }

4599 \newcommand{\hit@authorizationtext@bachelor}{%

4600 \ifhit@weihai

4601 \kaishu

4602 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。

4603

4604 若有不实之处，本人愿意承担相关法律责任。

4605 \else

4606 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）《\hit@ctitle》，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。

4607

4608 本人愿为此声明承担法律责任。

4609 \fi

4610 }

4611 \newcommand{\hit@declarename}{学位论文原创性声明}

4612 \newcommand{\hit@declaretext}{%

4613 本人郑重声明：此处所提交的学位论文《\hit@ctitle》，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。}

4614

4615

```

4616 \ifhit@english
4617 \newcommand{\hit@publication@ctitle}{Author's Publications}
4618 \else
4619 \ifhit@postdoc
4620 \newcommand{\hit@publication@ctitle}{博士后期间的研究成果}
4621 \else

4622 \ifbool{expr{bool {hit@shenzhen} and bool {hit@master}}}
4623 {
4624   \newcommand{\hit@publication@ctitle}{%
4625     {攻读\hit@cxuewei 学位期间取得创新性成果}
4626   }
4627 {
4628   \newcommand{\hit@publication@ctitle}{%
4629     {攻读\hit@cxuewei 学位期间发表的论文及其他成果}
4630   }
4631
4632 \fi
4633 \fi
4634 \newcommand{\hit@doctorpublication@ctitle}{博士生期间的研究成果}

```

博后和英文版附录 title

```

4635
4636
4637 \newcommand{\hit@datefill}{\hspace{2.5em} 年\hspace{1.5em} 月\hspace{1.5em} 日}

4638 \ifbool{expr{bool {hit@shenzhen} and bool {hit@master}}}
4639 {
4640   \newcommand{\hit@publication@etitle}{%
4641     {Innovative achievements for Master}
4642   }
4643 {
4644   \newcommand{\hit@publication@etitle}{%
4645     {Papers published in the period of \ifhit@master master \else Ph.D. \fi education}
4646   }
4647 \def\hit@index@etitle{Index}
4648 \def\hit@hi{嗨! thesis}
4649 \def\hit@cbraceleft{ (}
4650 \def\hit@cbraceright{ ) }
4651 \def\hit@ebraceleft{ {
4652 \def\hit@ebraceright{ } }
4653 </bookcfg>

```

中英文封面。

```

4654 <*bookcls>
4655 \newlength{\hit@title@width}
4656 \newcommand{\hit@put@title}[2][\hit@title@width]{%
4657   \begin{CJKfilltwosides}[b]{#1}#2\end{CJKfilltwosides}}
4658
4659 \def\hit@first@titlepage{%
4660   \ifhit@postdoc\hit@first@titlepage@postdoc\else\ifhit@bachelor\hit@first@titlepage@bachelor\else\hit@f

```

```

4661
4662 \def\hit@second@titlepage{%
4663   \ifhit@postdoc\hit@second@titlepage@postdoc\else\ifhit@bachelor\hit@second@titlepage@bachelor\else\hit
      添加博后封皮选项
4664 \newcommand{\hit@first@titlepage@postdoc}{
4665   {\songti\sihao\renewcommand{\arraystretch}{2}\
4666     \begin{tabular}{@{}r@{}l@{\hspace{7\ccwd}}r@{}l@{\hspace{3em}}r}
4667       \hit@postdoc@classifiedindex&\underline{\makebox[6\ccwd]{\hit@natclassifiedindex}}&\hit@postdoc@se
4668       \hit@postdoc@UDC&\underline{\makebox[6\ccwd]{\hit@intclassifiedindex}}&\hit@postdoc@number&\underl
4669     \end{tabular}\renewcommand{\arraystretch}{1}}
4670 \parbox[t][5cm][b]{\textwidth}{\begin{center}\heiti\xiaoer[2]\hit@cschoolname\par
4671   \hit@postdoc@documenttitle\end{center}}
4672 \parbox[b][4cm][b]{\textwidth}{
4673   \songti\xiaosan[2]\renewcommand{\arraystretch}{1.5}
4674   \begin{center}
4675     \begin{tabular}{c}
4676       \makebox[9cm]{\hit@ctitleone}\\
4677       \hline
4678       \makebox[9cm]{\hit@ctitletwo}\\
4679       \hline
4680     \end{tabular}\renewcommand{\arraystretch}{1}
4681   \end{center}}
4682   \begin{center}
4683     \songti\sihao[2]\centering\hit@cauthor
4684   \end{center}
4685 \parbox[b][4.5cm][b]{\textwidth}{
4686   \songti\sihao[2]\renewcommand{\arraystretch}{1.5}
4687   \begin{center}
4688     \begin{tabular}{rl}
4689       \hit@postdoc@finishdate & \underline{\makebox[6cm]{\hit@cfinishdate}}\\
4690       \hit@postdoc@submitdate & \underline{\makebox[6cm]{\hit@csubmitdate\hfill}}\\
4691     \end{tabular}\renewcommand{\arraystretch}{1}
4692   \end{center}
4693   }
4694   \vfill
4695   {\songti\sihao[2]
4696     \begin{center}
4697       \hit@cschoolname%
4698       \ifhit@harbin
4699       \hit@harbincampus
4700       \fi
4701       \ifhit@weihai
4702       \hit@weihaicampus
4703       \fi
4704       \ifhit@shenzhen
4705       \hit@shenzhencampus@postdoc
4706       \fi
4707     \end{center}
4708     \begin{center}

```



```

4709     \hit@cdate
4710 \end{center}}
4711 }
4712
4713
4714
4715 \newcommand{\hit@second@titlepage@postdoc}{
4716 \ifthenelse%
4717 {\equal{\hit@fontset}{siyuan}}%
4718 {\xiaosi[1]\vspace*{0.65em}}%
4719 {\xiaosi[1]\songti\textcolor{rgb}{1,1,1}{\hit@hi}}%
4720 \vspace*{1.2cm}
4721 \begin{center}
4722 \parbox[t][8cm][t]{\textwidth}{
4723 \begin{center}\songti\sanhao[2]\hit@ctitlecover\end{center}
4724 \vspace*{16bp}
4725 \begin{center}\sihao[2]\MakeUppercase{\hit@etitle}\end{center}
4726 }
4727 \parbox[t][5cm][t]{\textwidth}{
4728 \begin{center}\songti\sihao[2]
4729 \begin{tabularx}{0.6\linewidth}{1@{\hit@postdoc@separator}l}
4730 \hit@postdoc@authorname & \hit@cauthor \\
4731 \hit@postdoc@supervisor & \hit@csupervisor \\
4732 \hit@postdoc@positionname & \hit@cpositionname \\
4733 \hit@postdoc@major & \hit@csubject \\
4734 \end{tabularx}
4735 \begin{tabularx}{0.6\linewidth}{1@{\hit@postdoc@separator}l}
4736 \hit@postdoc@startdate & \hit@cstartdate \\
4737 \hit@postdoc@enddate & \hit@cenddate \\
4738 \end{tabularx}
4739 \end{center}
4740 }
4741 \end{center}
4742 \vfill
4743 {\songti\sihao[2]
4744 \begin{center}
4745 \hit@cschoolname%
4746 \ifhit@harbin
4747 \hit@harbincampus
4748 \fi
4749 \ifhit@weihai
4750 \hit@weihaicampus
4751 \fi
4752 \ifhit@shenzhen
4753 \hit@shenzhencampus@postdoc
4754 \fi
4755 \end{center}
4756 \begin{center}
4757 \hit@cdate
4758 \end{center}}}

```

添加博后封皮

```

4759
4760
4761
4762
4763 \newcommand{\hit@first@titlepage@bachelor}{
4764 \ifthenelse%
4765 {\equal{\hit@fontset}{siyuan}}%
4766 {\xiaosi[1]\vspace*{0.65em}}%
4767 {\xiaosi[1]\textcolor{rgb}{1,1,1}{\songti{\hit@hi}}}%
4768 \vspace*{1.2cm}
4769 \begin{center}
4770 \parbox[t][3.4cm][t]{\textwidth}{
4771 \begin{center}\erhao[0]\heiti\hit@ctitlecover\end{center} }
4772 \parbox[t][9cm][t]{\textwidth}{
4773 \begin{center}\xiaoer[0]\songti\textbf{\hit@cauthor}\end{center}
4774 }
4775 \begin{center}
4776 \setlength{\hit@title@width}{4em}
4777 \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。

```

4778 \ifhit@shenzhen%
4779 \begin{tabular}{r@{>{\normalfont\songti\bfseries}lr@{>{\normalfont\songti\bfseries}l}}%
4780 \else%
4781 \begin{tabular}{rcrc}%
4782 \fi%
4783 {\hit@put@title}%
4784 \ifhit@harbin%
4785 \hit@bachelor@caffiltitle%
4786 \else%
4787 \ifhit@shenzhen%
4788 \hit@bachelor@caffiltitlesz%

```

此处删除威海本科封皮中威海校区字样

```

4789 % \else%
4790 % \ifhit@weihai%
4791 % \hit@bachelor@caffiltitlewh%
4792 % \fi%
4793 \fi%
4794 \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。

```

4795 }\hit@title@csep} & \hit@cafil &
4796 {\hit@put@title{\hit@bachelor@cmajortitle}\hit@title@csep} & \hit@csubject\\[14pt]
4797 {\hit@put@title{\hit@bachelor@cstudentidtitle}\hit@title@csep}
4798 & \hit@cstudentid
4799 & {\hit@put@title{\hit@bachelor@csupervisortitle}\hit@title@csep}
4800 & \hit@csupervisor
4801 \end{tabular}

```

```

4802 \end{center}
4803 \vspace{2.6cm}

4804 {\xiaosi[0]\songti\textbf{%
4805 \ifhit@shenzhen \hit@szshortcdate \else \hit@cdate \fi
4806 }
4807 }
4808 \end{center}
4809 }

```

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。

second@titlepage@bachelor

```

4810
4811
4812 \newlength{\hit@ctitleonlength}%
4813 \newlength{\hit@ctitletwolength}%
4814 \newcommand{\hit@second@titlepage@bachelor}{%
4815 \vspace*{0.8cm}
4816 \ifhit@shenzhen%
4817 % \centering{\includegraphics[width=6.2cm]{shenzhenbthesistitle}~~\raisebox{0.2em}{\kaishu\yihao\hit@s
4818 \centering{\includegraphics[width=15cm]{shenzhenbthesistitle}}
4819 \vspace{-.5cm}
4820 \else%
4821 删除威海字样
4822 \centering{\includegraphics[width=6.2cm]{hitlogo}}
4823 \fi%
4824 \vspace{1.3cm}
4825 \begin{center}
4826 \centering\includegraphics[width=10.5cm]{bthesistitle}
4827 \vfill
4828 \parbox[t][14.2cm][b]{\textwidth}
4829 {\heiti\xiaosan
4830 \begin{center} \renewcommand{\arraystretch}{2.5} \heiti
4831 \setlength{\hit@title@width}{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。

```

4831 \begin{tabular}%
4832 {l@{\ \ }>{\ifhit@shenzhen \normalfont\songti \else \fi}c}

```

深圳校区本科生封面与本部不同。

```

4833 \ifboolexpr{bool {hit@shenzhen} and bool {hit@bachelor}}
4834 {%
4835 {\xiaor \hit@put@title{\hit@bachelor@cthesistitle}}
4836 & \underline{\makebox[6.1cm][l]{%
4837 \settowidth{\hit@ctitleonlength}{\xiaor \hit@ctitleone}%
4838 \ifdim\hit@ctitleonlength>6.1cm\sanhao\else\xiaor\fi\hit@ctitleone}}\

```

```

4839      & \underline{\makebox[6.1cm][l]{%
4840          \settowidth{\hit@ctitletwolength}{\xiaer \hit@ctitletwo}%
4841          \ifdim\hit@ctitletwolength>6.1cm\sanhao\else\xiaer\fi\hit@ctitletwo}}\
4842      & \
4843      {\hit@put@title{\hit@bachelor@cstudenttitle}}
4844      & \underline{\makebox[6.1cm][l]{\hit@cauthor}}\
4845      {\hit@put@title{\hit@bachelor@cstudentidtitle}}
4846      & \underline{\makebox[6.1cm][l]{\hit@cstudentid}}\
4847      {\hit@put@title{\hit@bachelor@caffiltitlesz}}
4848      & \underline{\makebox[6.1cm][l]{\hit@caffil}}\
4849      {\hit@put@title{\hit@bachelor@cmajortitle}}
4850      & \underline{\makebox[6.1cm][l]{\hit@csubject}}\
4851      {\hit@put@title{\hit@bachelor@csupervisortitle}}
4852      & \underline{\makebox[6.1cm][l]{\hit@csupervisor}}\
4853      {\hit@put@title{\hit@cdate}}
4854      & \underline{\makebox[6.1cm][l]{\hit@cdate}}
4855      }
4856      {%
4857      {\xiaer \hit@put@title{\hit@bachelor@cthesisistitle}}
4858      & \underline{\makebox[6.1cm]{%
4859          \settowidth{\hit@ctitleonelength}{\xiaer \hit@ctitleone}%
4860          \ifdim\hit@ctitleonelength>6.1cm\sanhao\else\xiaer\fi\hit@ctitleone}}\
4861      & \underline{\makebox[6.1cm]{%
4862          \settowidth{\hit@ctitletwolength}{\xiaer \hit@ctitletwo}%
4863          \ifdim\hit@ctitletwolength>6.1cm\sanhao\else\xiaer\fi\hit@ctitletwo}}\
4864      & \
4865      {\hit@put@title{\hit@bachelor@cmajortitle}}
4866      & \underline{\makebox[6.1cm]{\hit@csubject}}\
4867      {\hit@put@title{\hit@bachelor@cstudentidtitle}}
4868      & \underline{\makebox[6.1cm]{\hit@cstudentid}}\
4869      {\hit@put@title{\hit@bachelor@cstudenttitle}}
4870      & \underline{\makebox[6.1cm]{\hit@cauthor}}\
4871      {\hit@put@title{\hit@bachelor@csupervisortitle}}
4872      & \underline{\makebox[6.1cm]{\hit@csupervisor}}\
4873      {\hit@put@title{\hit@cdate}}
4874      & \underline{\makebox[6.1cm]{\hit@cdate}}
4875      }
4876      \end{tabular} \renewcommand{\arraystretch}{1}
4877      \end{center}
4878      }
4879      \end{center}
4880  }
4881
4882
4883      \newlength{\hit@etitlelength}%
4884      \newcommand{\hit@first@titlepage@other}{
4885          % 封面一
4886      \ifthenelse%

```

it@first@titlepage@other

```

4887 {\equal{\hit@fontset}{siyuan}}%
4888 {\xiaosi[1]\vspace*{0.65em}}%
4889 {\xiaosi[1]\textcolor{rgb}{1,1,1}{\songti{\hit@hi}}}%
4890 \vspace*{1.2cm}
4891 \begin{center}
4892 \begin{center}\xiaoyi[1]\songti\textbf{\hit@cxuewei\hit@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`

```

4893 \begin{center}\xiaoer[1]\songti\bfseries
4894 \ifboolexpr
4895 {
4896 (not bool {\hit@shenzhen}) and
4897 (not bool {\hit@master}) and
4898 bool {\hit@fulltime}
4899 }{}
4900 {
4901 \hit@cbraceleft\hit@cstudenttype\hit@cbraceright
4902 }
4903 \end{center}
4904 \parbox[t][7.8cm][t]{\textwidth}{%
4905 \begin{center}\erhao\heiti\hit@ctitlecover\end{center}
4906 \ifhit@subtitle\begin{center}\hspace{-4em}\xiaoer\heiti\pozhehao\hit@csubtitle\end{center}\fi
4907 \begin{center}%
4908 \settowidth{\hit@etitlelength}{\erhao\hit@etitle\ifhit@subtitle\hit@title@esep\hit@esubtitle\fi}%
4909 \ifdim\hit@etitlelength>450mm\xiaoer\else\erhao\fi%
4910 \textbf{\MakeUppercase{\hit@etitle}}%
4911 \ifhit@subtitle\hit@title@esep\MakeUppercase{\hit@esubtitle}\fi}\end{center}}
4912
4913 \parbox[t][7.4cm][t]{\textwidth}{
4914 \begin{center}\xiaoer\songti\textbf{\hit@cauthor}\end{center}}
4915 \parbox[t][1.4cm][t]{\textwidth}{
4916 \begin{center}\kaishu\xiaoer\textbf{\hit@cschoolname}\end{center}}
4917 {\songti\xiaoer\textbf{\hit@cdate}}
4918 \end{center}
4919 }
4920

```

t@second@titlepage@other

```

4921
4922 % 内封
4923 \newcommand{\hit@second@titlepage@other}{
4924 \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。

```

4925 {
4926 \songti \xiaosi
4927 \ifboolexpr{bool {\hit@harbin} and bool {\hit@master}}
4928 {

```

```

4929     \begin{tabular}{l}
4930         \hit@natclassifiedindextitle: \hit@natclassifiedindex\\
4931         \hit@internatclassifiedindextitle: \hit@intclassifiedindex
4932     \end{tabular}\hfill
4933     \begin{tabular}{l}
4934         \hit@schoolidtitle: \hit@schoolid\\
4935         \hit@secretlevel: \hit@statesecrets
4936     \end{tabular}
4937 }%
4938 {
4939     \begin{tabular}{@{}r@{: }l@{}}
4940         \hit@natclassifiedindextitle & \hit@natclassifiedindex\\
4941         \hit@internatclassifiedindextitle & \hit@intclassifiedindex
4942     \end{tabular}\hfill
4943     \begin{tabular}{@{}r@{: }l@{}}
4944         \hit@schoolidtitle & \hit@schoolid\\
4945         \hit@secretlevel & \hit@statesecrets
4946     \end{tabular}
4947 }%
4948 }
4949 \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…

```

4950     \parbox[t][2.4cm][t]{\textwidth}{
4951         \xiaoer[1]
4952     \begin{center}
4953         \songti\bfseries
4954         \ifboolexpr{(bool {hit@harbin} or bool {hit@shenzhen}) and ( bool {hit@master} or bool {hit@doctor}
4955             {\hit@cxuewei}{\hit@cdegree}{\hit@cthesisname
4956     \end{center}}
4957     \parbox[t][5cm][t]{\textwidth}{\erhao
4958     \begin{center}\heiti\hit@ctitlecover\end{center}
4959     \ifhit@subtitle\begin{center}\hspace{-4em}\xiaoer\heiti\pozhehao\hit@csubtitle\end{center}\fi}
4960     \parbox[t][9.8cm][b]{\textwidth}
4961     {\sihao
4962         \setlength{\hit@title@width}{6em}
4963         \begin{center} \renewcommand{\arraystretch}{1.62} \songti
4964     \begin{tabular}{l@{\hit@title@csep}l}
4965         {\heiti \hit@put@title{\hit@cauthorortitle}} & \hit@cauthor\\
4966         {\heiti \hit@put@title{\hit@csupervisortitle}} & \hit@csupervisor\\
4967         \ifx\hit@cassosupervisor\@empty\else%
4968         {\heiti \hit@put@title{\hit@cassosupervisortitle}}& \hit@cassosupervisor\\
4969         \fi
4970         \ifx\hit@ccosupervisor\@empty\else%
4971         {\heiti \hit@put@title{\hit@ccosupervisortitle}} & \hit@ccosupervisor\\
4972         \fi
4973         {\heiti \hit@put@title{\hit@cdegreetitle}} & \hit@cdegree\\
4974         {\heiti \hit@put@title{\hit@csubjecttitle}} & \hit@csubject\\
4975         {\heiti \hit@put@title{\hit@caffilttitle}} & \hit@caffil\\

```

```

4976     {\heiti \hit@put@title{\hit@cdatetitle}} & \hit@cdate\\
4977     {\heiti \hit@put@title{\hit@cschoolnametitle}} & \hit@cschoolname
4978 \end{tabular} \renewcommand{\arraystretch}{1}
4979 \end{center} }
4980 \end{center}
4981 }
4982

```

\hit@engcover

```

4983
4984 % 英文封面
4985 \newcommand{\emultiline}[2][c]%
4986 {%
4987     \renewcommand{\arraystretch}{1}%
4988     \begin{tabular}[#1]{0}{10}{#2}\end{tabular} \renewcommand{\arraystretch}{1.3}%
4989 }
4990 \newcommand{\hit@engcover}{%
4991 {%
4992     \xiaosi[1.667]\noindent Classified Index: \hit@natclassifiedindex \\\[8pt]
4993     U.D.C: \hit@intclassifiedindex %
4994 }
4995 \vspace*{1em}
4996 \begin{center}
4997

```

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**

```

4998 \parbox[t][1.6cm][t]{\textwidth}\begin{center} \end{center} }
4999 \parbox[t][3.5cm][t]{\textwidth}{\xiaoe[1]
5000 \begin{center}
5001     \ifboolexpr{bool {hit@shenzhen} and bool {hit@master}}
5002     {%
5003         Dissertation for the Master Degree
5004     }
5005     {%
5006         \ifboolexpr{bool {hit@harbin} and (bool {hit@master} or bool {hit@doctor})}
5007         {Dissertation for the {\hit@exuweier} Degree}
5008         {Dissertation for the {\hit@exuweier} Degree in \hit@exueke}
5009     }
5010 \end{center}
5011 \ifhit@fulltime\relax%
5012 \else%
5013     \begin{center}\hit@ebraceleft\hit@estudenttype\hit@ebraceright\end{center}%
5014 \fi} % 与中文保持一致，删除 in {\hit@exueke}
5015 \parbox[t][7cm][t]{\textwidth}{%
5016 \begin{center}%
5017     \settowidth{\hit@etitlelength}{\erhao\hit@etitle\ifhit@subtitle\hit@title@esep\hit@esubtitle\fi}%
5018     \ifdim\hit@etitlelength>450mm\xiaoer\else\erhao\fi%
5019     \textbf{\MakeUppercase{\hit@etitle}}%
5020 \ifhit@subtitle\hit@title@esep\MakeUppercase{\hit@esubtitle}\fi}\end{center}}

```

5021 %★★★★ 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。

```
5022 {\siahao\renewcommand{\arraystretch}{1.3}
5023 \begin{tabular}{@{}l@{~}l@{}}
5024 \textbf{\hit@eauthortitle\hit@title@esep} & \hit@author\\
5025 \textbf{\hit@supervisortitle\hit@title@esep} & \hit@supervisor\\
5026 \ifx\hit@eassosupervisor\@empty\else%
5027 \textbf{\hit@eassosupervisortitle\hit@title@esep} & \hit@eassosupervisor\\
5028 \fi
5029 \ifx\hit@ecosupervisor\@empty\else%
5030 \textbf{\hit@ecosupervisortitle\hit@title@esep} & \hit@ecosupervisor\\
5031 \fi
5032 \textbf{\hit@edegreetitle\hit@title@esep} & \hit@edegree\\
5033 \textbf{\hit@esubjecttitle\hit@title@esep} & \hit@esubject\\
5034 \textbf{\hit@eaffiltitle\hit@title@esep} & \hit@eaffil\\
5035 \textbf{\hit@edatetitle\hit@title@esep} & \hit@edate\\
5036 \textbf{\hit@eschoolnametitle\hit@title@esep} & \hit@eschoolname
5037 \end{tabular}\renewcommand{\arraystretch}{1}}
5038 \end{center}
5039 }
```

\makecover

```
5041
5042 \def\makecover{
5043 \phantomsection
5044 \pdfbookmark[0]{\hit@ctitle}{ctitle}
5045 \xiaosi[1]%
5046 \begin{titlepage}
5047 \ifhit@weihai
5048 \ifhit@bachelor
5049 \relax
5050 \else
5051 \hit@first@titlepage
5052 \ifhit@library\clearpage\else\cleardoublepage\fi
5053 \fi
5054 \else
5055 \hit@first@titlepage
5056 \ifhit@library\clearpage\else\cleardoublepage\fi
5057 \fi
5058 \hit@second@titlepage
5059 \ifhit@library\clearpage\else\cleardoublepage\fi
5060 \ifhit@postdoc
5061 \relax
5062 \else
```

博后没有英文封皮

```
5063 \ifhit@bachelor
5064 \relax
5065 \else
```



```

5066 \phantomsection
5067 \pdfbookmark[0]{\hit@etitle}{etitle}
5068 \hit@engcover
5069 \ifhit@library\clearpage\else\cleardoublepage\fi
5070 \fi
5071 \fi
5072 \end{titlepage}
5073 \normalsize
5074 \hit@makeabstract}

```

生成参考文献和关键字。

```

5075 \newbox\hit@kw
5076 \newcommand\hit@put@keywords[2]{%
5077 \begin{group}
5078 \setbox\hit@kw=\hbox{\#1}
5079 \noindent\hangindent\wd\hit@kw\hangafter1%
5080 \box\hit@kw\#2\par
5081 \end{group}}
5082
5083 \newcommand{\hit@makeabstract}{%
5084 \ifhit@openright\cleardoublepage\else\clearpage\fi
5085 \ifhit@english
5086 \addtocontents{toc}{~\hfill\textbf{Page}}\par}
5087 \addtocontents{\ext@table}{~\noindent\sihao\textbf{Table}~\hfill\textbf{Page}}\par}%
5088 \addtocontents{\ext@figure}{~\noindent\sihao\textbf{Figure}~\hfill\textbf{Page}}\par}%
5089 \fi

```

英文版目录之前有 page 行

```

5090 \hit@appendix@chapter*{\cabstracname}{\cabstracname}
5091 \pagestyle{hit@headings}
5092 \pagenumbering{Roman}
5093 \hit@cabstrac
5094 \vskip12bp
5095 \hit@put@keywords{\ifhit@postdoc\bfseries\fi\heiti\hit@ckeywords@title}{\hit@ckeywords}

```

博后关键字加粗

```

5096 \ifhit@openright\cleardoublepage\else\clearpage\fi
5097 \hit@appendix@chapter*{\eabstracname}{\eabstracname}
5098 \hit@eabstrac
5099 \vskip12bp
5100 \hit@put@keywords{\textbf{Keywords:\enskip}}{\hit@ekeywords}

```

定义符号表。

```

5101 \newenvironment{denotation}[1][2.5cm]{%
5102 \ifhit@openright\cleardoublepage\else\clearpage\fi
5103 \hit@appendix@chapter*{\hit@denotation@ctitle}{\hit@denotation@etitle}
5104 \setcounter{table}{0}}
5105 \renewcommand{\thetable}{\arabic{table}}% 使表编号为 1 的格式
5106 {\renewcommand{\thetable}{\arabic{chapter}-\arabic{table}}}% 使表编号为 7-1 的格式
5107 \setcounter{table}{0}}%

```

定义索引、目录格式

```

5108 \def\hit@starttoc#1{% #1: float type, prepend type name in \listof*** entry.
5109   \let\oldnumberline\numberline
5110   \def\numberline##1{\oldnumberline{\csname #1name\endcsname\hskip.4em ##1}}
5111   \@starttoc{\csname ext@#1\endcsname}
5112   \let\numberline\oldnumberline}
5113 \def\hit@listof#1#2{% #1: float type
5114   \ifhit@openright\cleardoublepage\else\clearpage\fi
5115   \hit@appendix@chapter*[\csname list#1name\endcsname]{\csname list#1name\endcsname}[\#2]
5116   \hit@starttoc{#1}}

```

只有英文版用到，且需要 clearpage

```

5117
5118
5119 \renewcommand\listoffigures{\hit@listof{figure}{\listfigurename}}
5120 \renewcommand*\l@figure{\addvspace{6bp}\@dottedtocline{1}{0em}{4em}}
5121 \renewcommand\listoftables{\hit@listof{table}{\listtablename}}
5122 \let\l@table\l@figure
5123 \def\ext@equation{loe}
5124 \def\equcaption#1{%
5125   \addcontentsline{\ext@equation}{equation}%
5126   {\protect\numberline{#1}}}
5127 \newcommand\listofequations{\hit@listof{equation}{\listequationname}}
5128 \let\l@equation\l@figure

```

4.5.10 目录

本科文科生要求目录有四级。

```

5129 \setcounter{secnumdepth}{3}
5130 \setcounter{tocdepth}{2}
5131 \ifhit@bachelor\ifhit@tocfour\setcounter{tocdepth}{3}\fi\fi

```

工大论文目录中的潜规则：目录中的目录位置是空白。

```

5132 \renewcommand\tableofcontents{%
5133   \ifhit@openright\cleardoublepage\else\clearpage\fi
5134   \phantomsection
5135   \markboth{\contentsname}{ccontent}
5136   \hit@chapter*{\contentsname}
5137   \pdfbookmark[0]{\contentsname}{ccontent}
5138   \normalsize\@starttoc{toc}
5139   \ifhit@doctor
5140   \tableofengcontents

```

有些硕士的范例中带有英文目录，这里添加手动开关

```

5141 \else
5142 \ifhit@engtoc
5143 \tableofengcontents
5144 \fi
5145 \fi

```

将英文目录潜入中文目录命令中，进一步简化 thesis.tex 结构

```

5146 \ifhit@english

```

```

5147 \printnoidxglossary[sort=word,style=engstyle,title={Nomenclature},nopostdot,nonumberlist]
5148 \listoftables
5149 \listoffigures
5150 \fi
5151 }

```

添加英文 toc 控制 按照我工要求的目录格式。

```

5152 \ifhit@arialtoc
5153   \def\hit@toc@font{\sffamily}
5154 \fi
5155 \def\@pnumwidth{4em}% 规定中的提前悬挂
5156 \def\@tocrmarg{\@pnumwidth}
5157 \def\@dotsep{1}

```

此处临时更改一下对齐方式。CT_EX 似乎无法应对双语目录。todo:

```

5158 \setlength\@tempdima{4em}%
5159 \patchcmd{\@dottedtocline}{#4}{\csname hit@toc@font\endcsname #4}{}{}
5160 \patchcmd{\@dottedtocline}{\hb@xt@\@pnumwidth}{\hbox}{}{}
5161 \renewcommand*\l@chapter[2]{%
5162   \ifnum \c@tocdepth > \m@ne
5163     \addpenalty{-\@highpenalty}%
5164     %\vskip 4bp \@plus\p@
5165     \begingroup
5166       \parindent \z@ \rightskip \@pnumwidth
5167       \parfillskip -\@pnumwidth
5168       \leavevmode
5169       \advance\leftskip\@tempdima
5170       \hskip -\leftskip
5171       % 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

```

5172   {\ifhit@bachelor\rmfamily\else\csname
5173     hit@toc@font\endcsname\fi\heiti\ifhit@postdoc\bfseries\fi\ifhit@chapterbold\ifhit@bachelor\bfseries

```

博后和英文版需要加粗

```

5174     \leaders\hbox{$\m@th\mkern \@dotsep mu\hbox{.}\mkern \@dotsep mu$}\hfill
5175     \nobreak{\normalfont\normalcolor #2}\par
5176     \penalty\@highpenalty
5177   \endgroup
5178 \fi}

```

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。

```

5179 \renewcommand*\l@section{\@dottedtocline{1}{1em}{1.8em}}
5180 \renewcommand*\l@subsection{\@dottedtocline{2}{2em}{2.5em}}
5181 \renewcommand*\l@subsubsection{\@dottedtocline{3}{3\ccwd}{3.1em}}

```

英文目录格式。

```

5182 \def\@dotsep{0.75} % 定义英文目录的点间距
5183 \setlength\leftmargini {0pt}
5184 \setlength\leftmarginii {0pt}
5185 \setlength\leftmarginiii {0pt}
5186 \setlength\leftmarginiv {0pt}

```

```

5187 \setlength\leftmarginv {0pt}
5188 \setlength\leftmarginvi {0pt}
5189
5190 \def\engcontentsname{\bfseries Contents}
5191 \newcommand\tableofengcontents{
    此处添加英文目录的章标题格式，默认细点
5192 \def\l@chapter{\@dottedtocline{0}{0em}{5em}}% 控制英文目录：细点\@dottedtocline 粗点\@dottedtoclinebo
5193 \@restonecolfalse
5194 \chapter*{\engcontentsname %chapter* 上移一行，避免在 toc 中出现。
5195 \pdfbookmark[0]{Contents}{econtent}
5196 \@mkboth{}%
5197 \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
5198 \@starttoc{toe}%
5199 \if@restonecol\twocolumn\fi
5200 \def\@dotsep{0.75} % 定义英文目录的点间距
    目录中附录的章号格式。
5201 \ctexset{%
5202   appendix/number=\ifhit@bachelor\arabic{chapter}\else\Alph{chapter}\fi,
5203 }
    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”。
5204 \let\hit@appendix\appendix
5205 \newif\ifhit@inappendix
5206 \def\hit@engtoc@chapapp{
5207   \ifhit@inappendix Appendix \else Chapter \fi
5208 }
5209 \renewenvironment{appendix}{%
5210   \let\title\hit@appendix@title
5211   \hit@appendix
5212   \ifhit@bachelor\renewcommand{\thechapter}{\arabic{chapter}}\fi
5213   \hit@inappendixtrue
5214 }{%
5215   \let\title\@gobble}
5216 \let\title\@gobble
5217 \newcommand{\hit@appendix@title}[1]{%
5218   \begin{center}
5219     \bfseries\xiaosi #1
5220   \end{center}}
5221 \newlist{translationbib}{enumerate}{1}
5222 \setlist[translationbib]{label=[\arabic*],align=left,nosep,itemsep=6bp,
5223   leftmargin=10mm,labelsep=!,before=\vspace{0.5\baselineskip}\wuhao[1.3]}
5224
5225
5226 \newenvironment{conclusions}{%

```

```

5227 \ifhit@openright\cleardoublepage\else\clearpage\fi
5228 \ifhit@english
5229 \hit@appendix@chapter*{\hit@conclusion@etitle}
5230 \else
5231 \hit@appendix@chapter*{\hit@conclusion@ctitle}[\hit@conclusion@etitle]
5232 \fi
5233 }{}
5234 \newenvironment{acknowledgements}{%
5235 \ifhit@openright\cleardoublepage\else\clearpage\fi
5236 \ifhit@english
5237 \hit@appendix@chapter*{\hit@acknowledgement@etitle}
5238 \else
5239 \hit@appendix@chapter*{\hit@acknowledgement@ctitle}[\hit@acknowledgement@etitle]
5240 \fi}{}
5241
5242 \newenvironment{correspondingaddr}{%
5243 \ifhit@openright\cleardoublepage\else\clearpage\fi
5244 \hit@appendix@chapter*{\hit@correspondingaddr@ctitle}{}{}

```

博后用到的通讯页面

```

5245
5246
5247 \newenvironment{resume}{%
5248 \ifhit@openright\cleardoublepage\else\clearpage\fi
5249 \hit@appendix@chapter*{\hit@resume@ctitle}[\hit@resume@etitle]}{}
5250 \newenvironment{publication}{%
5251 \ifhit@openright\cleardoublepage\else\clearpage\fi
5252 \hit@appendix@chapter*{\hit@publication@ctitle}[\hit@publication@etitle]}{}
5253
5254
5255 \newenvironment{doctorpublication}{%
5256 \ifhit@openright\cleardoublepage\else\clearpage\fi
5257 \hit@appendix@chapter*{\hit@doctorpublication@ctitle}{}{}

```

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。

```

5258 \newenvironment{ceindex}{%
5259 \ifhit@openright\cleardoublepage\else\clearpage\fi
5260 \hit@appendix@chapter*{\indexname}[\hit@index@etitle]
5261 \setlength{\columnsep}{4em}
5262 \begin{adjustwidth}{2em}{2em}
5263 \begin{multicols*}{2}}{\end{multicols*}
5264 \end{adjustwidth}
5265 }
5266
5267 \newlist{idxwordlist}{description}{3}
5268 \setlist[idxwordlist, 1]{%
5269 itemsep=\baselineskip,
5270 labelindent=8em,
5271 font=\normalsize\bfseries,
5272 }

```

```

5273 \setlist[idxwordlist, 2]{%
5274   nose,
5275   labelindent=2em,
5276   font=\wuhao\rm,
5277 }
5278 \setlist[idxwordlist, 3]{%
5279   nose,
5280   labelindent=4em,
5281   font=\wuhao\rm,
5282 }
5283 \def\hit@authorization@other{%
5284   \ifhit@openright\cleardoublepage\else\clearpage\fi
5285   \hit@appendix@chapter*{\hit@authorization@ctitle}[\hit@authorization@etitle]
5286   \xiaosi[1.6]\vspace{\baselineskip}
5287 \begin{center}\xiaosan\heiti\hit@declarename\end{center}
5288 \par\hit@declaretext
5289 \vspace{\baselineskip}
5290 \par\hspace{6em}\hit@authorsig\hfill\hit@frontdate\hit@datefill
5291 \vspace{2\baselineskip}
5292 \begin{center}\xiaosan\heiti\hit@authorizationtitle\end{center}
5293 \par\hit@authorizationtext
5294 \vspace{2\baselineskip}
5295 \par\hspace{6em}\hit@authorsig\hfill\hit@frontdate\hit@datefill
5296 \ifhit@english\vspace{\baselineskip}\else\vspace{2\baselineskip}\fi

```

英文版和中文版这里的间距不一样

```

5297 \par\hspace{6em}\hit@teachersig\hfill\hit@frontdate\hit@datefill
5298 }
5299 \def\hit@authorization@bachelor{%
5300   \ifhit@openright\cleardoublepage\else\clearpage\fi

```

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。

```

5301 \ifhit@shenzhen
5302 \ctexset{
5303   chapter/format = {\centering\hit@title@font\xsanhao\ziju{0}}
5304 }
5305 \phantomsection
5306 \markboth{原创性声明}{原创性声明}
5307 \addcontentsline{toc}{chapter}{原创性声明}
5308 \hit@chapter*{\hit@declarename@bachelor}
5309 \else
5310 \hit@appendix@chapter*{\hit@declarename@bachelor}
5311 \fi
5312 \hit@authorizationtext@bachelor
5313 \vspace{2\baselineskip}
5314 \ifhit@weihai
5315   \par\hfill\hit@authorsig\hspace{6em}
5316   \vspace{1\baselineskip}
5317   \par\hfill\hit@teachersig\hspace{6em}
5318   \vspace{2\baselineskip}

```

```

5319 \par\hfill\hit@datefill
5320 \songti
5321 \else
5322 \par\hspace{6em}\hit@author\sig\hfill\hit@frontdate\hit@datefill
5323 \fi
5324 }
5325
5326 \NewDocumentCommand{\authorization}{o}{%
5327 \IfNoValueTF{#1}{%
5328 \ifhit@bachelor\hit@authorization@bachelor\else\hit@authorization@other\fi
5329 }{%
5330 \ifhit@openright\cleardoublepage\else\clearpage\fi%
5331 \includepdf[fitpaper=true,pagecommand={%
5332 \thispagestyle{hit@empty}}%
5333 \phantomsection\addcontentsline{toc}{chapter}{\ifhit@bachelor
    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。
5334 \ifhit@shenzhen 原创性声明 \else
5335 \hit@declarename@bachelor\else\hit@authorization@ctitle\fi\fi}%
5336 \ifhit@doctor%
5337 \addcontentsline{toe}{chapter}{\texorpdfstring{\bfseries \hit@authorization@etitle}{\hit@authorization@etitle}}
5338 \fi%
5339 }]{#1}%
5340 }%
5341 }
5342
5343 \newcommand\bibstyle@numerical{\bibpunct{[[]]{},}{s}{,}{\textsuperscript{,}}{,}}
    删除 inline 等定义, 此命令与 gbt7714 冲突
5344 % \newcommand\bibstyle@authoryear{\bibpunct{({})}{,}{a}{,}{,}}
5345 % \newcommand\bibstyle@inline{\bibpunct{[[]]{},}{n}{,}{\hit@inline@sep}}
5346 \citestyle{numerical}
5347 \DeclareRobustCommand\inlinecite{\@inlinecite}
5348 \def\@inlinecite#1{\begingroup\citestyle{inline}\let\cite\NAT@citenum\citep{#1}\endgroup}
5349 \let\onlinecite\inlinecite
    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 XYLaTeX 下的标点挤压而计算错误。
5350 \ifhit@shenzhen
5351 \def\@biblabel#1{\mbox{} [#1] }
5352 \else
5353 \fi
5354 \renewenvironment{thebibliography}[1]{%
5355 \ifhit@openright\cleardoublepage\else\clearpage\fi\phantomsection%
5356 \hit@appendix@chapter*\bibname{[\hit@bibname@etitle]}
5357 \normalsize
5358 \list{\@biblabel{\@arabic{c@enumiv}}}%
5359 {\renewcommand{\makelabel}[1]{##1\hfill}
5360 \settowidth{\labelwidth}{\@biblabel{#1}}

```

```

5361 \ifhit@shenzhen
5362 \setlength{\labelsep}{0pt}
5363 \else
5364 \setlength{\labelsep}{0.5em}
5365 \fi
5366 \setlength{\itemindent}{0pt}
5367 \setlength{\leftmargin}{\labelsep+\labelwidth}
5368 \addtolength{\itemsep}{-0.8em}
5369 \usecounter{enumiv}%
5370 \let\p@enumiv\@empty
5371 \renewcommand\theenumiv{\@arabic\c@enumiv}}%
5372 \sloppy\frenchspacing

5373 \flushbottom

5374 \ifhit@splitbibitem
5375 \clubpenalty0
5376 \@clubpenalty \clubpenalty
5377 \widowpenalty0%
5378 \interlinepenalty-50%
5379 \else
5380 \clubpenalty4000
5381 \@clubpenalty \clubpenalty
5382 \widowpenalty4000%
5383 \interlinepenalty4000%
5384 \fi
5385 \sfcode`. \@m}
5386 {\def\@noitemerr
5387 {\@latex@warning{Empty `thebibliography' environment}}}%
5388 \endlist\frenchspacing}
5389 \patchcmd\NAT@citexnum{%
5390 \@ifnum{\NAT@cotype=\z@}{%
5391 \if*#2*\else\NAT@cmt#2\fi
5392 }{}%
5393 \NAT@mbox{\NAT@@close}%
5394 }{}%
5395 \NAT@mbox{\NAT@@close}%
5396 \@ifnum{\NAT@cotype=\z@}{%
5397 \if*#2*\else\textsuperscript{#2}\fi
5398 }{}%
5399 }{}{}

5400 \renewcommand\NAT@citesuper[3]{\ifNAT@swa
5401 \if*#2*\else#2\NAT@spacechar\fi
5402 \unskip\kern\p@\textsuperscript{\NAT@@open#1\NAT@@close\if*#3*\else#3\fi}%
5403 \else #1\fi\endgroup}
5404 \patchcmd{\NAT@citex}{%
5405 \if*#2*\else\NAT@cmt#2\fi
5406 \if\relax\NAT@date\relax\else\NAT@@close\fi
5407 }{}%
5408 \if\relax\NAT@date\relax\else\NAT@@close\fi
5409 \if*#2*\else\textsuperscript{#2}\fi

```



```

5410 }{}{}
5411 \renewcommand\NAT@cite%
5412   [3]{\ifNAT@swa\NAT@@open\if*#2*\else#2\NAT@spacechar\fi
5413     #1\NAT@@close\if*#3*\else\textsuperscript{#3}\fi\else#1\fi\endgroup}
5414 </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。

```

5415 <*bookcls>
5416 \AtEndOfClass{\input{hithesisbook.cfg}}
5417 \AtEndOfClass{\sloppy}
5418 </bookcls>

```

4.7 DocSTRIP 的样式文件

```

5419 % %%%%%%%%%%%
5420 % dtx-style
5421 % %%%%%%%%%%%
5422 <*dtx-style>
5423 \ProvidesPackage{dtx-style}
5424 \RequirePackage{hypdoc}

```

默认字体为 fandol

```

5425 \RequirePackage[UTF8,scheme=chinese,fontset=fandol]{ctex}
5426 % \RequirePackage{newpxtext}
5427 % \RequirePackage{newpxmath}
5428 \setmainfont{TeXGyrePagellaX}[
5429   Extension    = .otf,
5430   UprightFont  = *-Regular,
5431   BoldFont     = *-Bold,
5432   ItalicFont   = *-Italic,
5433   BoldItalicFont = *-BoldItalic,
5434 ]
5435 \setsansfont{IBMPlexSansCondensed}[%
5436   Extension    = .otf,
5437   UprightFont  = *-Regular,
5438   BoldFont     = *-Bold,
5439   ItalicFont   = *-Italic,
5440   BoldItalicFont = *-BoldItalic
5441 ]
5442 \setmonofont{Iosevka Slab}
5443
5444 \RequirePackage[
5445   top=2.5cm, bottom=2.5cm,
5446   left=4cm, right=2cm,
5447   headsep=3mm]{geometry}
5448 \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

```

5449 \heavyrulewidth=1.5pt
5450 \lightrulewidth=1pt
5451 \cmidrulewidth=0.5pt
5452 \RequirePackage{listings}
5453 \RequirePackage{fancyhdr}
5454 \RequirePackage{xcolor}
5455 \RequirePackage{enumitem}
5456 \RequirePackage{etoolbox}
5457 \RequirePackage{metalogo}
5458 \RequirePackage{hyperref}

增加 ninecolors 宏包来使用更多颜色。
5459 \RequirePackage{ninecolors}
5460
5461 \colorlet{hit@macro}{blue!60!black}
5462 \colorlet{hit@env}{blue!70!black}
5463 \colorlet{hit@option}{purple}
5464 \patchcmd{\PrintMacroName}{\MacroFont}{\MacroFont\bfseries\color{hit@macro}}{}{}
5465 \patchcmd{\PrintDescribeMacro}{\MacroFont}{\MacroFont\bfseries\color{hit@macro}}{}{}
5466 \patchcmd{\PrintDescribeEnv}{\MacroFont}{\MacroFont\bfseries\color{hit@env}}{}{}
5467 \patchcmd{\PrintEnvName}{\MacroFont}{\MacroFont\bfseries\color{hit@env}}{}{}
5468
5469 \def\DescribeOption{%
5470   \leavevmode\@bsphack\begingroup\MakePrivateLetters%
5471   \Describe@Option}
5472 \def\Describe@Option#1{\endgroup
5473   \marginpar{\raggedleft\PrintDescribeOption{#1}}%
5474   \hit@special@index{option}{#1}\@esphack\ignorespaces}
5475 \def\PrintDescribeOption#1{\strut \MacroFont\bfseries\sffamily\color{hit@option} #1\ }
5476 \def\hit@special@index#1#2{\@bsphack
5477   \begingroup
5478     \HD@target
5479     \let\HDorg@encapchar\encapchar
5480     \edef\encapchar usage{%
5481       \HDorg@encapchar hdclindex{\the\c@HD@hypercount}{usage}%
5482     }%
5483     \index{#2\actualchar{\string\ttfamily\space#2}
5484       (#1)\encapchar usage}%
5485     \index{#1:\levelchar#2\actualchar
5486       {\string\ttfamily\space#2}\encapchar usage}%
5487   \endgroup
5488   \@esphack}
5489
5490 \lstdefinestyle{lstStyleBase}{%
5491   basicstyle=\small\ttfamily,
5492   aboveskip=\medskipamount,
5493   belowskip=\medskipamount,
5494   lineskip=0pt,
5495   boxpos=c,
5496   showlines=false,

```

```

5497 extendedchars=true,
5498 upquote=true,
5499 tabsize=2,
5500 showtabs=false,
5501 showspaces=false,
5502 showstringspaces=false,
5503 numbers=none,
5504 linewidth=\linewidth,
5505 xleftmargin=4pt,
5506 xrightmargin=0pt,
5507 resetmargins=false,
5508 breaklines=true,
5509 breakatwhitespace=false,
5510 breakindent=0pt,
5511 breakautoindent=true,
5512 columns=flexible,
5513 keepspaces=true,
5514 gobble=2,
5515 framesep=3pt,
5516 rulesep=1pt,
5517 framerule=1pt,
5518 backgroundcolor=\color{gray!5},
5519 stringstyle=\color{green!40!black!100},
5520 keywordstyle=\bfseries\color{blue!50!black},
5521 commentstyle=\slshape\color{black!60}}
5522

```

修改抄录环境的高亮，使代码更易阅读。

```

5523 \lstdefinestyle{lstStyleShell}{%
5524 style=lstStyleBase,
5525 frame=1,
5526 rulecolor=\color{purple},
5527 language=bash,
5528 morekeywords = [1]
5529 {
5530 tlmgr, pdflatex, latexmk, xelatex, cd, dir, mkdir,
5531 ls, del, rm, mv, move, cp, copy, code, bibtex, biber,
5532 texdoc, kpsewhich, texhash, splitindex, latex, makeindex,
5533 make
5534 },
5535 morekeywords = [2]{action, info, option, update, install, remove, version, restore},
5536 otherkeywords = {--, -s, -o, -xelatex},
5537 morekeywords = [3]{--, -s, -o, -xelatex},
5538 keywordstyle = [1]{\bfseries},
5539 keywordstyle = [2]{\color{azure4}},
5540 keywordstyle = [3]{\color{green5}}
5541 % moredelim = [s][\color{green5}]{\ -}{\ },
5542 }
5543
5544 \lstdefinestyle{lstStyleLaTeX}{%

```

```

5545 style=lstStyleBase,
5546 frame=1,
5547 rulecolor=\color{violet},
5548 language=[LaTeX]TeX,
5549 texcsstyle =*[1]{\color{azure4}\bfseries},
5550 texcsstyle =*[2]{\color{red3}\bfseries},
5551 moretexcs = [1]
5552 {
5553 LaTeX, LaTeX, label, ref,
5554 tableofcontents, bibliography, bibliographystyle,
5555 cite, NeedsTeXFormat, ProvidesPackage, newcommand, mycmd,
5556 addbibresource, printbibliography, graphicspath,
5557 frontmatter, mainmatter, backmatter, printsubindex,
5558 makecover, authorization, hitsetup, dachu,
5559 chuhao, xiaochu, yihao, xiaoyi, erhao, xiaoer, sanhao,
5560 xiaosan, sihao, banxiaosi, xiaosi, dawu, wuhao, xiaowu, liuhao, xiaoliu, qihao, bahao,
5561 bicaption, caption, ltfontsize, longbionenumcaption, subfigure, includegraphics,
5562 toprule, midrule, bottomrule, endhead, endfirsthead, endfoot
5563 },
5564 deletetexcs = [1]{documentclass, usepackage, begin, end},
5565 moretexcs = [2]{usepackage, documentclass, begin, end},
5566 }
5567
5568 \lstnewenvironment{latex}{\lstset{style=lstStyleLaTeX}}{}
5569 \lstnewenvironment{shell}{\lstset{style=lstStyleShell}}{}
5570
5571 \setlist{nosep}
5572
5573 \DeclareDocumentCommand{\option}{}{}{\meta}
5574 \DeclareDocumentCommand{\env}{m}{\textbf{\texttt{#1}}}
5575 \DeclareDocumentCommand{\pkg}{s m}{%
5576 \textsf{#2}\IfBooleanF#1{\hit@special@index{package}{#2}}}
5577 \DeclareDocumentCommand{\cls}{s m}{%
5578 \textsf{#2}\IfBooleanF#1{\hit@special@index{class}{#2}}}
5579 \DeclareDocumentCommand{\file}{s m}{%
5580 \texttt{#2}\IfBooleanF#1{\hit@special@index{file}{#2}}}
5581 \newcommand{\myentry}[1]{%
5582 \marginpar{\raggedleft\color{purple}\bfseries\strut #1}}
5583 \newcommand{\note}[2][Note]{%
5584 \color{magenta}{\bfseries #1}\emph{#2}}
5585 \NewDocumentCommand\issue{o}{%
5586 \IfValueTF{#1}
5587 {\href{https://github.com/hithesis/hithesis/issues/#1}{issue: \##1}}
5588 {\href{https://github.com/hithesis/hithesis/issues}{issues}}
5589 }

```

增加 `\hitzthesis` 来使参考 `HITSZTHESIS` 更加方便。

`\hitzthesis`

```

5590 \def\hitzthesis{\href{https://github.com/YangLaTeX/hitzthesis}{\textsc{Hitsz}\- \textsc{Thesis}}}

```

```

5591 </dtx-style>
5592 <bookcfg | dtx-style>\newcommand{\pozhehao}{——}
5593 <bookcfg | dtx-style>\def\hithesis{\textsc{hi}}-\textsc{Thesis}}
5594 <bookcfg | dtx-style>\def\hit{哈尔滨工业大学}
5595 <bookcfg | dtx-style>\def\PGR{\href{http://hitgs.hit.edu.cn/aa/fd/c3425a109309/page.htm}}
5596 <bookcfg | dtx-style>{《\hit 研究生学位论文撰写规范》}}
5597 <bookcfg | dtx-style>\def\UGR{\href{http://jwc.hit.edu.cn/2566/list.htm}}
5598 <bookcfg | dtx-style>{《\hit 本科生毕业论文撰写规范》}}
5599 <bookcfg>\def\hit@inline@sep{, }

5600 <*dtx-style>
5601 \NewDocumentEnvironment{hitrgu}{o o}
5602 { \IfNoValueTF{#1}{\PGR,\UGR}{#1}\IfNoValueF{#2}{#2 中}}%
5603 \color{red} 规定：“{}” }
5604 </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	此处更改了选项的名称	89	
v1.0.02	General: 添加了思源字体说明	90	此处添加子图最后一行图题是否居中选项	90, 95	
v1.0.03	General: 默认开启 raggedbottom	89	\@makecaption: 此处更改了选项的名称	107	
v1.0.04	General: 修正英文目录中换行时无法对齐的 bug	140	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	107
	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	139	v1.0.08	General: 修改附录中图、表、公式数字编码	107
v1.0.05	General: 彻底修正英文目录中换行时无法对齐的 bug	140		删除冗余公式符号定义	109
	矫正英文目录缩进与中文目录一致的 bug	140	v1.0.09	General: 修正 float 垂直间距 bug	107
\chapter: 添加\ignorespaces 选项, 矫正英文目录多出一个空白而无法对其的 bug	117			添加 debug 包	95
\section: 添加\ignorespaces 选项, 矫正英文目录多出一个空白而无法对其的 bug	118		v1.0.10	General: 修改了索引的间距, 使其更符合规范中的示例	65, 95, 141
\subsection: 添加\ignorespaces 选项, 矫正英文目录多出一个空白而无法对其的 bug	118		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。	119, 131
\subsubsection: 添加\ignorespaces 选项, 矫正英文目录多出一个空白而无法对其的 bug	119		v1.0.12	General: 修正 float 为 p 状态时默认不居中 bug	107
v1.0.06	General: 删除 caption hang 的默认设置, 因为不在规范要求中	109	v1.0.13	General: 此处删除冗余的 Abstract 标题	111
				此处添加中文目录中 Abstract 是否均为大写选项	90, 116
				添加\texorpdfstring 命令去除书签中带有格式时的警告	117, 143

\chapter: 添加\textorpdfstring 命令去除书 签中带有格式时的警告 117	v2.1.1 General: 添加 chapter 功能, 使页眉、TOC 不受 protect 的命令影响 116
v1.0.14 General: 修正自动生成日期 bug 111	v3.0.0 General: 博后关键字加粗 137
v1.0.15 General: 添加控制本科论文的页码横线选项 . 90	博后和英文版附录 title 127
\hit@headings: 删除冗余的页面格式 99	博后和英文版需要加粗 139
添加控制本科论文的页码横线选项 99	博后用到的通讯页面 141
v2.0.0 General: 此处删除 newgeometry 选项 89	只有英文版用到, 且需要 clearpage 138
此处添加 geometry 选项 88	将英文目录潜入中文目录命令中, 进一步 简化 thesis.tex 结构 138
添加版芯设置选项 94	更改原 cls 文件名为 hithesisbook 25
v2.0.01 General: 去除定理注释括号 109	此处添加 book 控制项, 用于 cfg 中定理等 控制 87
v2.0.02 General: 取出了定理冒号 103	此处添加博后用到的博士生发表页面 . . . 141
v2.0.03 General: 添加参考文献分割开关 90, 144	此处添加博后选项 88, 91
设置公式前后随意断页 102	此处添加英文版和博后的 title 设置 116
v2.0.04 General: 删除\@fpsep 设置, 似乎没有什么 用 107	此处添加语言选项 88
删除表段后空白距离 107	添加 artcls 74
更新\intextsep\textfloatsep\floatsep 间距为正文行间距 107	添加 Article 和 English 版本以及 postdoc 版本标题名称设置 110
更新图段后空白距离 107	添加博后封皮 130
v2.0.05 General: 删除图段后空白距离 107	添加博后封皮 title 的选项 124
添加数学字体开关 90	添加博后封皮的 title 选项 119
v2.0.06 General: 在\inlinecite 内添加空格 . . 143, 149	添加博后摘要 111
v2.0.07 General: 添加 flushbottom 到 thebibliography 环境中 144	添加博后标题格式 112
v2.0.08 General: 修改本科生论文目录格式 (感谢 QQ: 赢政 同学) 139	添加博后的浮动间距设置 107
v2.0.09 General: 修正 float 垂直间距 bug 107	添加博后选项 120, 122
v2.0.10 General: 此处添加是否为提交图书馆电子版 . 89	添加哈尔滨校区选项 123
\cleardoublepage: 添加 openright 和 library 逻辑 96	添加本科开题封皮中 title 定义 122
\makecover: 此处添加提交图书馆电子版的逻 辑 136	添加深圳中期报告内容 125
v2.0.11 \mainmatter: 设置第一章必须在奇数页 97	添加英文 toc 控制 139
v2.1.0 General: 此处添加校区选项 . 122, 123, 130, 131	添加英文版目录 chapter title 控制 111
\hit@headings: 此处添加校区选项 101	添加英文版附表格式 116
	英文版和中文版这里的间距不一样 142
	英文版目录之前有 page 行 137
	英文版黑体加粗 103
	设置英文版公式名称 110
	\cleardoublepage: 将 glossaries 移动到这里 96
	\hit@headings: 添加博后页眉控制 99
	添加英文版页眉格式控制 99
	\mainmatter: 添加英文版限制 97
	\makecover: 博后没有英文封皮 136
	v3.0.01 General: 中文本科模板中章标题是否加粗, 默认是 89
	本科目录添加加粗 139
	此处删除威海本科封皮中威海校区字样 . 130
	此处添加 mastersthesis Entry 55
	添加本科生章标题加粗选项 114

\hit@headings: 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???	100	删除 inline 等定义, 此命令与 gbt7714 冲 突	143
\hit@second@titlepage@bachelor: 删除威海 字样	131	根据窝工 2021 “四月革命” 之精神, 修改 字图为双括号	109
此处添加自动设置字号	131	添加参考文献 GBT2015	94
v3.0.02		\hit@first@titlepage@other: 修改第二行标 题	133
General: 默认字体为 fandol	145	v3.0.16	
v3.0.03		General: 添加威海校区原创性声明内容 ...	126
General: fix author name bug	83	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	90
v3.0.04		v3.0.17	
General: 设置深圳校区开题报告的正文行距 与毕业论文模板一致	79	General: 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	69, 78, 90
v3.0.05		xeCJK 包不再自动加载 xeCJKfntef ...	68, 78
General: 此处修改与正文行距保持一致	79	v3.0.18	
v3.0.06		General: 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 Termes 与 TG Heros.	68, 77, 92
General: 此处删除了时间	106	v3.0.19	
v3.0.08		General: 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.	68, 77, 92
General: 更改哈尔滨校区博士硕士开题节标 题为小三号字体	80	对 newtxmath 宏包打补丁, 修复 operators, \mathrm, \mathit, \mathbf 命令的字体问题.	77, 92
v3.0.09		将 TG Termes 字体替换为 TG TermesX 字 体, 与 newtxmath 宏包更适配, 删除 <Scale> 选项.	68, 77, 92
\hit@engcover: 深圳硕士英文封面第一行文 字不同, 修改.	135	v3.0.20	
v3.0.10		General: 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	69, 78, 93, 145
General: 按照规范中规定行距的 mm 数定义 各级行距	112	v3.0.21	
\hit@headings: 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	100	General: 删除 xltextra 宏包, 来实现规范样式的 上标. issue: #125	70
v3.0.11		删除 xltextra 宏包, 来实现规范样式的上标. issue: #125	79, 95
General: 有些硕士的范例中带有英文目录, 这里添加手动开关	138	v3.0.22	
此处添加英文目录开关	90	General: 在深圳校区的本科生新规范中将 “深圳”) 更改为 “深圳校区”。该处修改 会影响深圳博后的封面, 故添加 \hit@shenzhencampus@postdoc. issue: #128	123
\frontmatter: 窝工深圳模板范例, 一行 34 个字	96	深圳校区中期模板封面范例中为 “哈尔滨 工业大学”。issue: #126	83
v3.0.12			
General: 更改博后封皮中字间距	121		
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