## The nuaathesis class\*

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? (?)

### 1 Introduction

Put text here.

## 2 Usage

Put text here.

\dummyMacro

This macro does nothing. It is merely an example. If this were a real macro, you would put a paragraph here describing what the macro is supposed to do, what its mandatory and optional arguments are, and so forth.

 ${\color{red} \textbf{dummyEnv}}$ 

This environment does nothing. It is merely an example. If this were a real environment, you would put a paragraph here describing what the environment is supposed to do, what its mandatory and optional arguments are, and so forth.

## 3 欢迎

NuaaThesis 是南京航空航天大学毕学位论文的 L<sup>A</sup>T<sub>E</sub>X 模板,支持学士、硕士、博士论文的排版。

本模板的特色:

• 支持南航本科(论文、设计)、硕士、博士的学位论文格式;

## 4 安装

texlive/packages

<sup>\*</sup>This document corresponds to nuaathesis?, dated?.

### 5 使用说明

### 5.1 编译

### 5.2 实例文件

```
\documentclass[
 degree=master,
 oneside, openany,
AutoFakeBold=2.5
1{nuaathesis}
% 可用选项:
% degree=[bachelor|master|doctor] 必选,毕业论文学位
% type=[paper/design] 论文类型,本科必选,硕/博默认(强制)论文
% blankleft 可选,在启用 openright 时,去除空白页的页眉页脚,变成真正的白纸
% msfont 可选,使用微软英文字体
% 其余选项将传给 ctexbook, 比较有用的选项有:
% oneside/twoside 可选,单面或双面打印
                  可选, 在双面打印时, 每章的第一页将打印在右侧
% openany|openright
            可选, 貌似这个数值最接近 M$ Word 的粗体效果
% AutoFakeBold
% 推荐: 双面打印时, 使用 twoside, openright, blankleft; 其他场合 oneside, openany
% 写作时,使用这个命令只渲染你想查看的部分,提升工作效率,定稿时注释掉整行
% \includeonly{chapter/00-cover,chapter/30-issues,}
\begin{document}
% 首先,导入论文的基础信息
\include{chapter/00-cover}
\makecover % 封面
\makedeclare % 承诺书
\frontmatter % 启用页眉页脚
\makeabstract % 摘要
\nuaatableofcontents % 正文目录
\nuaalistoffigurestables %图表清单
\include{chapter/05-abbreviation} % 注释表、缩略词
\mainmatter %以下正文
\include{chapter/10-introduction}
\include{chapter/20-examples}
\include{chapter/25-example2}
\include{chapter/30-issues}
\include{chapter/40-duplicate}
```

```
\include{chapter/95-applog}
\backmatter % 正文后无编号部分,
\bibliographystyle{nuaathesis} %参考文献的样式
\bibliography{bib/sample} %参考文献
\include{chapter/90-acknowledge}

% \appendix % 附录部分
\include{chapter/98-postscript}
\end{document}
```

### 5.3 论文选项

degree=

选择学位,必须项。当前支持: bachelor、master、doctor。

该选项将影响很多样式,比如封面、页边距、页眉页脚、行间距、字体大小等。

worktype=

选择论文类型,可以选择毕业论文 paper 或者毕业设计 design 。该选项将影响本科生封面、承诺书和页眉。

本科生必须指定论文的类型,硕士、博士必须选择论文(或者留空)。

jincheng

本科生可选, 开启后将把学校信息修改为金城学院。

## 6 实现细节

### 6.1 模板信息

- 1 (cls)\NeedsTeXFormat{LaTeX2e}
- $2\langle cls \rangle \backslash ProvidesClass\{nuaathesis\}$
- ${\tt 3\left<cfg\right>\ProvidesFile\{nuaathesis.cfg\}}$
- $4\langle \operatorname{cls} \mid \operatorname{cfg} \rangle$  [2017/07/01 v0.02 NUAA Thesis Template]

定义一些开发常量:

5 \def\version{0.02}

### 6.2 配置文件

6 (\*cfg)

封面页上用到的常量:

- 7\newcommand\nuaa@label@nuaa{南京航空航天大学}
- 8\newcommand\nuaa@label@nuaajc{南京航空航天大学金城学院}
- 9\newcommand\nuaa@label@worktype@paper{毕业论文}
- 10 \newcommand\nuaa@label@worktype@design{毕业设计}
- 11 \newcommand\nuaa@label@worktype@master{硕士学位论文}
- 12 \newcommand \nuaa@label@worktype@doctor{博士学位论文}
- 13 \newcommand\nuaa@label@thesisnum{编号}

```
14\newcommand\nuaa@label@title{题\quad 目}
 15 \newcommand\nuaa@label@teamname{团队名称}
 16 \newcommand\nuaa@label@author{学生姓名}
 17\newcommand\nuaa@label@studentid{学\hfill 号}
 18\newcommand\nuaa@label@college{学\hfill 院}
 19 \newcommand\nuaa@label@department{系 \hfill 部}
 20\newcommand\nuaa@label@major{专\hfill业}
 21 \newcommand\nuaa@label@classid{班 \hfill 级}
 22\newcommand\nuaa@label@advisor{指 \hfill 导 \hfill 教 \hfill 师}
 23 \newcommand\nuaa@label@researchername{研究生姓名}
 24\newcommand\nuaa@label@majorsubject{学科、专业}
 25\newcommand\nuaa@label@researchfield{研 \hfill 究 \hfill 方 \hfill 向}
 26\newcommand\nuaa@label@graduateschool{研究生院}
 27\newcommand\nuaa@labelEn@nuaa{Nanjing University of Aeronautics and Astronautics}
 28 \newcommand\nuaa@labelEn@graduateschool{The Graduate School}
 29 \newcommand\nuaa@labelEn@degreemaster{Master of Engineering}
 30 \newcommand\nuaa@labelEn@degreedoctor{Doctor of Philosophy}
摘要页用到的常量:
 31 \newcommand\nuaa@label@abstract{摘\quad 要}
 32 \newcommand\nuaa@label@abstractshort{摘要}
 33 \newcommand\nuaa@label@keywords{关键词: }
 34 \newcommand\nuaa@label@keywordsep{, }
 35 \newcommand\nuaa@label@abstract@toc{摘要}
 36 \newcommand\nuaa@labelEn@abstract{Abstract}
 37 \newcommand\nuaa@labelEn@ABSTRACT{ABSTRACT}
 38 \newcommand\nuaa@labelEn@KeyWords{Key Words: }
 39 \newcommand\nuaa@labelEn@keywords{Keywords: }
 40 \newcommand\nuaa@labelEn@keywordsep{; }
其他地方用到的常量:
 41 \newcommand\nuaa@label@reportpaper{报告纸}
 42 \newcommand\nuaa@label@tableofcontents{目\quad 录}
 43 \newcommand\nuaa@label@listoffigurestables{图表清单}
 44 \newcommand\nuaa@label@figurename{图}
 45\newcommand\nuaa@label@tablename{表}
 46\newcommand\nuaa@label@lstlistingname{代码}
 47 \newcommand\nuaa@labelEn@figurename{Fig.}
 48 \newcommand\nuaa@labelEn@tablename{Table}
 49 \langle /cfg \rangle
6.3 文档类的选项
6.3.1 定义与处理
    使用 kvoptions 来处理传入 nuaathesis 的参数。
 50 (*cls)
```

51 \RequirePackage{kvoptions}

```
family=nuaa,
    prefix=nuaa@,
 55 setkeys=\kvsetkeys
 56 }
定义用户类型,目前支持本科、硕士、博士三类。
 57 \newif\ifnuaa@bachelor \nuaa@bachelorfalse
 58 \newif\ifnuaa@master
                       \nuaa@masterfalse
 59 \newif\ifnuaa@doctor
                       \nuaa@doctorfalse
 60 \define@key{nuaa}{degree}{
 61 \expandafter\csname nuaa@#1true\endcsname}
定义论文的主语言,目前支持中文,计划支持英文,尚未支持日语。
 62 \newif\ifnuaa@lang@cn \nuaa@lang@cnfalse
 63 \newif\ifnuaa@lang@en \nuaa@lang@enfalse
 64 \newif\ifnuaa@lang@ja \nuaa@lang@jafalse
 65 \define@key{nuaa}{lang}{
 66 \expandafter\csname nuaa@lang@#1true\endcsname}
定义文档类型是毕业论文还是毕业设计。
 67\newif\ifnuaa@worktype@paper \nuaa@worktype@paperfalse
 68 \newif\ifnuaa@worktype@design \nuaa@worktype@designfalse
 69 \define@key{nuaa}{type}{
 70 \expandafter\csname nuaa@worktype@#1true\endcsname}
金城学院
 71 \DeclareBoolOption[false]{jincheng}
右开时空白的左页是否让页眉页脚空白
 72 \DeclareBoolOption[false]{blankleft}
双页模式下摘要页右开
 73 \DeclareBoolOption[false]{abstractopenright}
盲审模式开关
 74 \DeclareBoolOption[false]{bindtrail}
使用微软的英文字体开关
 75 \DeclareBoolOption[false]{msfont}
其他传递选项给 ctexbook
 76 \verb|\DeclareDefaultOption{\PassOptionsToClass{\CurrentOption}{ctexbook}}|
处理选项
 77 \kvsetkeys{nuaa}{}
 78 \ProcessKeyvalOptions*
 79 \AtEndOfClass{\input{nuaathesis.cfg}}
```

52 \SetupKeyvalOptions{

#### 6.3.2 合法性检查与常量定义

必须指定用户类型

```
80 \ifnuaa@bachelor\relax\else
    \ifnuaa@master\relax\else
       \ifnuaa@doctor\relax\else
 82
        \ClassError{nuaathesis}{
 83
          Thesis Degree must be specified: \MessageBreak
 84
          degree=[bachelor|master|doctor]}
 85
      \fi
    \fi
 87
 88\fi
本科生必须指定文档类型;硕士、博士默认为论文,且必须选择论文。
 89 \ifnuaa@bachelor
    \ifnuaa@worktype@paper\relax\else
       \ifnuaa@worktype@design\relax\else
        \ClassError{nuaathesis}{Thesis Type must be specified: \MessageBreak
 92
        type=[paper|design]}
 93
      \fi
    \fi
 95
 96\else
    \ifnuaa@worktype@design
       \ClassError{nuaathesis}{You should submit paper instead of design}
 98
    \else
 99
100
       \nuaa@worktype@papertrue
    \fi
101
102\fi
默认论文的主语言是中文。
103 \ifnuaa@lang@cn\relax\else
    \ifnuaa@lang@en\relax\else
104
       \ifnuaa@lang@ja\relax\else
105
106
        \nuaa@lang@cntrue
      \fi
107
    \fi
108
109 \fi
根据学校信息, 定义对应图标。
110 \ifnuaa@jincheng
    \newcommand\nuaa@university{\nuaa@label@nuaajc}
    \newcommand\nuaa@universityLogo{nuaa-jc.jpg}
112
113 \else
    \newcommand\nuaa@university{\nuaa@label@nuaa}
114
    \newcommand\nuaa@universityLogo{nuaa.pdf}
115
```

根据文档类型,设置文档的中文名称。

116 \fi

```
117 \newcommand\nuaa@worktypecn{
     \ifnuaa@bachelor
118
       \ifnuaa@worktype@paper
119
         \nuaa@label@worktype@paper
120
121
       \else
         \nuaa@label@worktype@design
122
       \fi
123
     \else
124
125
       \ifnuaa@master
         \nuaa@label@worktype@master
126
127
       \else
         \nuaa@label@worktype@doctor
128
       \fi
129
     \fi
130
131 }
       文档信息收集
6.3.3
132 \def\nuaaset{\kvsetkeys{nuaa@value}}
133 \def\nuaasetEn{\kvsetkeys{nuaa@valueEn}}
134 \def\nuaa@def@term #1{
     \define@key{nuaa}{#1}{\csname #1\endcsname{##1}}
     \expandafter\gdef\csname #1\endcsname##1{
136
       \expandafter\gdef\csname nuaa@#1\endcsname{##1}}
137
138
     \csname #1\endcsname{}
139 }
140 \def\nuaa@parse@keywords#1#2{
     \define@key{nuaa}{#1}{\csname #1\endcsname{##1}}
     \expandafter\gdef\csname nuaa@#1\endcsname{}
142
     \expandafter\gdef\csname #1\endcsname##1{
143
       \@for\reserved@a:=##1\do{
144
145
         \expandafter\ifx\csname nuaa@#1\endcsname\@empty\else
           \expandafter\g@addto@macro\csname nuaa@#1\endcsname{%
146
              \ignorespaces #2}
147
         \fi
148
         \expandafter\expandafter\expandafter\g@addto@macro%
149
           \expandafter\csname nuaa@#1\expandafter\endcsname\expandafter{\reserved@a}}}}
150
    文档的中文信息
151 \nuaa@def@term{value@title}
152 \nuaa@def@term{value@author}
153 \nuaa@def@term{value@studentid}
154 \nuaa@def@term{value@college}
155 \nuaa@def@term{value@major}
156 \nuaa@def@term{value@classid}
157 \nuaa@def@term{value@advisors}
```

158 \nuaa@def@term{value@applydate}

```
159 \nuaa@def@term{value@libraryclassid}
160 \nuaa@def@term{value@subjectclassid}
161 \nuaa@def@term{value@thesisid}
162 \nuaa@def@term{value@majorsubject}
163 \nuaa@def@term{value@researchfield}
    文档的英文信息
164 \nuaa@def@term{valueEn@title}
165 \nuaa@def@term{valueEn@college}
166 \nuaa@def@term{valueEn@majorsubject}
167 \nuaa@def@term{valueEn@author}
168 \nuaa@def@term{valueEn@advisors}
169 \nuaa@def@term{valueEn@applydate}
    摘要页
170 \newcommand{\nuaa@@abstract}[1]{\long\gdef\nuaa@abstract{#1}}
171 \newenvironment{abstract}{\Collect@Body\nuaa@@abstract}{}
\label{long} $$172 \rightarrow \mathbb{1}_{1}_{1} \simeq \mathbb{1}_{1}_{1} \end{array} $$
173 \newenvironment{abstractEn}{\Collect@Body\nuaa@@abstractEn}{}
174 \nuaa@parse@keywords{keywords}{\nuaa@label@keywordsep}
175 \nuaa@parse@keywords{keywordsEn}{\nuaa@labelEn@keywordsep}
    收集一些常用字段
176 \ifnuaa@lang@cn
   \newcommand\nuaa@title{\nuaa@value@title}
178 \else\ifnuaa@lang@en
179 \newcommand\nuaa@title{\nuaa@valueEn@title}
180 \fi\fi
```

### 6.4 载入宏包

#### 6.4.1 主文档类 ctexbook

根据要求,本科生论文字号为小四 (12 pt),行间距为 1.5 倍。考虑到学校提供的 Word 模板启用了文档网络,跨度为 15.6 pt,所以小四号字只占用一行,行间距需修正为 15.6×1.5 = 23.4 pt¹。 再考虑到用 \zihao 在选择字号时,ctex 会将 \f@baselineskip 设置成 \f@size 的 1.2 倍²,所以最终设置行间距为  $23.4 \div (12 \times 1.2) = 1.625$ 。

同理,硕/博士论文字号为五号 (10.5 pt),行间距为 20 pt。因为行间距是固定值,所以 Word 的文档网络不会影响行间距。行间距最终设置为  $20 \div (10.5 \times 1.2) \approx 1.5873$ 。

```
181 \ifnuaa@bachelor
182 \PassOptionsToClass{zihao=-4,linespread=1.625}{ctexbook}
183 \else
184 \PassOptionsToClass{zihao=5,linespread=1.5873}{ctexbook}
185 \fi
186 \PassOptionsToClass{a4paper,scheme=chinese,space=auto,UTF8}{ctexbook}
187 \LoadClass{ctexbook}
```

<sup>1</sup> https://www.zhihu.com/question/26397264/answer/48165229

<sup>2</sup> https://liam0205.me/2013/10/17/LaTeX-Linespace/

### 6.4.2 LATEX 增强

188 \RequirePackage{etoolbox}

### 6.4.3 数学相关

尽早引入这些宏包,避免载入顺序引发的问题。

189 \RequirePackage{amsmath,amsthm}

#### 6.4.4 其他?

首段缩进

190 \RequirePackage{indentfirst}

硕/博士封面一开始需要分栏

191 \RequirePackage{multicol}

一些 TeX 系列的 logo

192 \RequirePackage{hologo}

Todo: 用途不明, 求文档

- 193 \PassOptionsToPackage{no-math}{footspec}
- 194 \RequirePackage{fontspec}
- 195 \RequirePackage[perpage,bottom]{footmisc}
- 196 \RequirePackage{soul}
- 197 \RequirePackage{xltxtra}

### 6.5 格式设置

### 6.5.1 英文字体 newtxtext

newtxtext 与 Monotype 的 Times New Roman® 有一点点差别。newtxtext 收录于 CTAN,而大部分 Linux 因为版权限制,不自带 Times New Roman® 字体。由于两者差别很小,建议优先使用 newtxtext 提供的英文字体。

但是在有些 Linux 发行版上,单独安装 collection-fontsextra 中的 newtx 和 newpx 可能是一件很麻烦的事情,而完整安装 collection-fontsextra 要占用大量硬盘空间,而安装微软的英文字体可能更方便,所以设置了一个选项 msfont,启用后将使用微软的英文字体。

- 198 \ifnuaa@msfont
- 199 \setmainfont[Mapping=tex-text]{Times New Roman}
- 200 \else
- 201 \RequirePackage{newtxtext}
- 202\fi

#### 6.5.2 页边距 geometry

本科生的页边距沿用前一版本的设定(Word 在页眉里插入图片,行高不知道怎么算)。

硕/博士的页边距是根据要求计算出来的。headheight 和 footskip 是五号字的行高(考虑文档网络),headsep = 3.3cm – 2.6cm – 15.6pt  $\approx 0.15$ cm。

```
203 \RequirePackage{geometry}
204\ifnuaa@bachelor \geometry{
    top=2.5cm,
206
    bottom=2cm,
   left=2cm,
207
    right=2cm,
    headheight=0.75cm,
209
    headsep=2bp,
210
    %footskip=0.8cm,
212 includehead,
213 includefoot
214 } \else \geometry{
    top=3.3cm,
215
bottom=3.3cm,
    left=3.0cm,
    right=2.6cm,
218
    headheight=15.6bp,
219
    headsep=0.15cm,
220
    footskip=15.6bp
221
222 }
223 \fi
```

### 6.5.3 页眉页脚 fancyhdr

### 224 \RequirePackage{fancyhdr}

页码修饰,本科生正文和附录部分的页码格式比较特别,目录里的页码格式与页脚页码格式 不同,所以页脚页码需要特殊处理。

```
225 \newcommand\nuaa@pagenum@decorate[1]{
    \ifnuaa@bachelor
226
      \if@frontmatter
227
        #1
228
      \else
229
        - #1 -
230
      \fi
231
    \else
232
      #1
233
    \fi
234
235 }
   定义不带页眉页脚的空白样式,用于封面页和空白页。
236 \fancypagestyle{style@empty}{
   \fancyhf{}
237
   \renewcommand{\headrulewidth}{0pt}
    \renewcommand{\footrulewidth}{Opt}
```

```
240 }
   定义正文页眉页脚的样式。
241 \fancypagestyle{style@main}{
242
    \fancyhead{}
    \ifnuaa@bachelor
243
244
      \fancyhead[L]{
        \setlength{\unitlength}{1mm}
245
        \begin{picture}(0,0)
246
          \put(7.3,1.5){\includegraphics[width=6cm]{\nuaa@universityLogo}}
247
        \end{picture}
248
      }
249
      250
    \else
251
      \fancyhead[C]{
252
        \songti\zihao{5}
253
        \ifthenelse{\isodd{\value{page}}}{
254
          \nuaa@university\nuaa@worktypecn
255
256
        }{
          \nuaa@title
257
        }}
258
    \fi
259
260
    \fancyfoot{}
    \if@twoside
261
      \fancyfoot[EL]{\footnotesize{\nuaa@pagenum@decorate{\thepage}}}
262
      \fancyfoot[OR]{\footnotesize{\nuaa@pagenum@decorate{\thepage}}}
263
    \else
264
      \fancyfoot[R]{\footnotesize{\nuaa@pagenum@decorate{\thepage}}}
265
    \fi
266
    \renewcommand{\headrulewidth}{0.75bp}
267
    \ifnuaa@bachelor
268
      \renewcommand{\footrulewidth}{0.75bp}
269
    \fi
270
271 }
```

#### 6.5.4 front/main/backmatter

重定义了\frontmatter、\mainmatter 和\backmatter 三个宏,用来调整文档不同部分的格式。

```
272 \newif\if@frontmatter
273 \newif\if@backmatter
274 \renewcommand{\frontmatter}{
275 \cleardoublepage
276 \@frontmattertrue
277 \@backmatterfalse
278 \ifnuaa@bachelor\pagenumbering{roman}\else\pagenumbering{Roman}\fi
279 \pagestyle{style@main}
280 \ctexset{chapter = {
```

```
break = {\clearpage},
281
282
       numbering = false
    }}
283
284 }
285 \renewcommand{\mainmatter}{
    \cleardoublepage
286
    \@frontmatterfalse
287
    \@backmatterfalse
288
289
    \pagenumbering{arabic}
    \pagestyle{style@main}
290
291
    \ctexset{chapter = {
      break = {\if@openright\cleardoublepage\else\clearpage\fi},
292
      numbering = true
293
294
    }}
295 }
296 \renewcommand{\backmatter}{
297
    \cleardoublepage
    \@frontmatterfalse
298
    \@backmattertrue
299
    \ctexset{chapter/numbering = false,
300
       section/number = \Alph{section},
301
       section/name = {,.},
302
       subsection/number = \CTEXthesection{}\arabic{subsection},}%
303
    \setcounter{chapter}{0}
305 }
```

#### 6.5.5 目录 tocloft

设置目录的缩进、字体(通常)。

```
306 \RequirePackage[]{tocloft}
308 \setcounter{tocdepth}{2}
                             %% 目录深度 (part 对应 -1)
309 \setlength{\cftbeforechapskip}{0bp}
310 \setlength{\cftbeforesecskip}{0bp}
311 \renewcommand{\cftchapleader}{\cftdotfill{\cftdotsep}} % 目录中章后也有点
312 \tocloftpagestyle{style@main}
313 \newcommand{\tocfont}{\normalsize}
314 \renewcommand{\cftchapfont}{\tocfont}
315 \renewcommand{\cftsecfont}{\tocfont}
316 \renewcommand{\cftsubsecfont}{\tocfont}
317 \renewcommand{\cftsubsubsecfont}{\tocfont}
318 \renewcommand{\cftfigfont}{\tocfont}
319 \renewcommand{\cfttabfont}{\tocfont}
320 \renewcommand{\cftchappagefont}{\tocfont}
321\renewcommand{\cftsecpagefont}{\tocfont}
322 \renewcommand{\cftsubsecpagefont}{\tocfont}
```

```
323 \renewcommand{\cftsubsubsecpagefont}{\tocfont}
324 \renewcommand{\cftfigpagefont}{\tocfont}
325 \renewcommand{\cfttabpagefont}{\tocfont}
为了合并用图表目录和表格目录,用非常规方法,去除 tocloft 绘制标题的代码。
326 \renewcommand{\@cftmaketoctitle}{}
327 \renewcommand{\@cftmakeloftitle}{}
328 \renewcommand{\@cftmakelottitle}{}
    绘制正文目录,本科生"目录"字号(三号)与其他大标题(chapter,小三)不同。
329 \newcommand\nuaatableofcontents{
    \cleardoublepage
331
    \chapter*{
      \ifnuaa@bachelor
332
        \label{linespread} $$\lim fontsize{16bp}{15.6bp}\select font
333
334
      \fi
      \nuaa@label@tableofcontents}
335
    \tableofcontents
337 }
    绘制图表清单,两张不带标题的表合并在一起,每一条添加"图"、"表"前缀。
338 \newcommand\nuaalistoffigurestables{
    \clearpage
339
    \renewcommand{\cftfigpresnum}{\nuaa@label@figurename}
340
    \renewcommand{\cfttabpresnum}{\nuaa@label@tablename}
341
    \newlength{\mylenf}
342
    \settowidth{\mylenf}{\cftfigpresnum}
343
    \setlength{\cftfignumwidth}{\dimexpr\mylenf+2em}
    \setlength{\cfttabnumwidth}{\dimexpr\mylenf+2em}
345
346
347
    \chapter*{\nuaa@label@listoffigurestables}
    \listoffigures
    \listoftables
349
350 }
```

#### 6.5.6 各级标题

设置各级标题的行间距、字体、字号等。

由于 chapter 级标题在页首时,会引入一些空白,暂时没找到这些数值是怎么计算的,所以 根据实际测量,修正 beforeskip 的值。

ctex 提供的参数 fixskip 会把正常的行间距一并删减掉,修正这些误差的操作更复杂,所以放弃不用。

```
351 \ifnuaa@bachelor \ctexset{
352   chapter = {
353     pagestyle = style@main,
354     format = {\centering\linespread{2.41}\heiti\fontsize{15bp}{15.6bp}\selectfont},
355     beforeskip = {23.7bp}, % 15.6*2 + 17 - 24.5(correction) = 35.2bp
```

```
afterskip = {16.5bp},
356
357
    },
    section = {
358
       format = {\linespread{1.5}\heiti\fontsize{14bp}{20.8bp}\selectfont},
359
       beforeskip = {0bp},
360
       afterskip = {0bp},
361
   },
362
363
    subsection = {
364
       format = {\linespread{1.5}\heiti\fontsize{12bp}{15.6bp}\selectfont},
       indent = \{0 \setminus ccwd\},
365
       beforeskip = {0bp},
       afterskip = {0bp},
367
   },
368
    subsubsection = {
369
       format = {\heiti\fontsize{12bp}{20bp}},
370
       indent = \{0 \setminus ccwd\},\
371
372
       beforeskip = {7.8bp},
       afterskip = {7.8bp},
373
374 }
375 } \else \ctexset{
    chapter = {
       pagestyle = style@main,
377
       format = {\centering\linespread{1.0}\heiti\fontsize{15bp}{20bp}\selectfont},
378
       beforeskip = \{10.4bp\}, % 15.6*1.5 - 13(correction) = 10.4
       afterskip = {23.4bp},
380
       },
381
    section = {
383
       format = {\linespread{1.0}\heiti\fontsize{14bp}{20bp}\selectfont},
       beforeskip = {7.8bp},
384
       afterskip = {7.8bp},
385
   }.
386
    subsection = {
387
       format = {\linespread{1.0}\heiti\fontsize{12bp}{20bp}\selectfont},
       beforeskip = \{7.8bp\},
389
       afterskip = {7.8bp},
390
       indent = \{0 \setminus ccwd\},
391
392
    subsubsection = {
393
       format = {\linespread{1.0}\heiti\fontsize{12bp}{20bp}},
394
395
       indent = \{0 \setminus ccwd\},\
       beforeskip = {7.8bp},
396
       afterskip = {7.8bp},
397
398 }
399 }
400 \fi
```

#### 6.5.7 参考文献 natbib

调整字体大小和行间距,本/硕/博貌似都是用五号字、单倍行距(文档网络修正行间距为15.6 pt)。

```
401 \RequirePackage[numbers, square, comma, super, sort&compress] {natbib}
402 \AtBeginDocument{
    \pretocmd{\bibliography}{\begingroup\linespread{1.0}\fontsize{10.5bp}{15.6bp}\selectfont}{}{}
    \apptocmd{\bibliography}{\endgroup}{}{}
404
405 }
406 \renewcommand\@biblabel[1]{\linespread{1.0}\fontsize{10.5bp}{15.6bp}\selectfont[#1]}
407 \renewenvironment{thebibliography}[1]{
    \chapter*{\bibname}
    \list{\@biblabel{\@arabic\c@enumiv}}
409
410
    {
      \settowidth\labelwidth{\@biblabel{#1}}
411
412
      \leftmargin\labelwidth
      \advance\leftmargin\labelsep
413
414
      \setlength{\parsep}{1mm}
      \setlength{\labelsep}{0.5em}
415
      \setlength{\itemsep}{0.05pc}
416
      \setlength{\listparindent}{0in}
417
      \setlength{\itemindent}{0in}
418
      \setlength{\rightmargin}{0in}
419
      \@openbib@code
420
      \usecounter{enumiv}
421
      \let\p@enumiv\@empty
422
      \renewcommand\theenumiv{\@arabic\c@enumiv}
423
   }
424
425
    \sloppy
    \clubpenalty4000
426
    \@clubpenalty\clubpenalty
427
    \widowpenalty4000%
428
429
    \sfcode'\.\@m
430 } {
431 \def\@noitemerr
432 {\@latex@warning{Empty 'thebibliography' environment}}
433 \endlist \vskip.2in}
    将"参考文献"加入目录和 pdf 书签。
434 \pretocmd{\bibliography}{
435 \clearpage\phantomsection\addcontentsline{toc}{chapter}{\bibname}}{}{}
    另外的引用命令。
436\bibpunct{[]{]}{,}{s}{}},
437 \renewcommand\NAT@citesuper[3] {\ifNAT@swa%
438 \unskip\kern\p@\textsuperscript{\NAT@@open #1\NAT@@close}%
    \if*#3*\else\ (#3)\fi\else #1\fi\endgroup}
```

```
440 \DeclareRobustCommand\inlinecite{\@inlinecite}
441 \def\@inlinecite#1{\begingroup\let\@cite\NAT@citenum\citep{#1}\endgroup}
442 \let\onlinecite\inlinecite
```

### 6.6 文档部件

### 6.6.1 定理环境

```
443 \newtheoremstyle{break}% name
               Space above, empty = 'usual value'
444
445
      {}%
               Space below
     {\itshape}% Body font
446
                  Indent amount (empty = no indent, \parindent = para indent)
447
     {\bfseries}% Thm head font
448
                  Punctuation after thm head
449
      {.}%
     {\newline}% Space after thm head: \newline = linebreak
450
                  Thm head spec
     {}%
451
452 (/cls)
453 (*cfg)
454 %%%%% theorem %%%%%
455 \ifnuaa@lang@cn
456 \theoremstyle{plain}
    \newtheorem{algo}{算法 ~}[chapter]
458 \theoremstyle{definition}
    \newtheorem{assumption}{假设 ~}[chapter]
459
    \newtheorem{thm}{定理 ~}[chapter]
460
461
    \newtheorem{defn}{定义 ~}[chapter]
    \newtheorem{conj}{猜想~}[chapter]
462
    \newtheorem{exmp}{例 ~}[chapter]
463
    \newtheorem{rem}{注 ~}
464
    \newtheorem{case}{情形 ~}
465
    \newtheorem{lem}[thm]{引理 ~}
466
    \newtheorem{prop}[thm]{命题 ~}
467
    \newtheorem{cor}[thm]{推论 ~}
468
469 \theoremstyle{break}
    \newtheorem{bthm}[thm]{定理 ~}
470
    \newtheorem{blem}[thm]{引理 ~}
471
472
    \newtheorem{bprop}[thm]{命题 ~}
    \newtheorem{bcor}[thm]{推论 ~}
473
    \renewcommand{\proofname}{\bf 证明}
475 \else
476 \ClassError{nuaathesis}{Internal error}
477 \fi
478 \langle /cfg \rangle
```

#### 6.6.2 列表环境

479  $\langle * cls \rangle$ 

```
480 \RequirePackage[inline]{enumitem}
使用 enumitem 宏包配制列表环境,紧凑间距。
481 \setlist{nosep}
列表和段落头对齐
482 \setlist*{leftmargin=*}
483 \setlist[1]{labelindent=\parindent} %% Only the level 1
6.6.3 图表和题注
    图
484 \RequirePackage{graphicx} %% 插图相关
485\graphicspath{{fig/}{figure/}{figures/}{logo/}{logos/}{graph/}{graphs}}
486 \DeclareGraphicsExtensions{.pdf,.eps,.png,.jpg,.jpeg}
    表
487 \RequirePackage{booktabs}
488 \RequirePackage{longtable}
489 \RequirePackage{makecell}
490 \RequirePackage{multirow}
491 \RequirePackage{rotating}
492 \RequirePackage{diagbox}
493 \RequirePackage{tabularx}
494 \RequirePackage[table] {xcolor}
定义一些表头格式,L, C, R 是 l, c, r 的增强,带一个参数来指定列宽; Y 是 X 的居中版。
495\newcolumntype{L}[1]{>{\raggedright\let\newline\\\arraybackslash\hspace{0pt}}m{#1}}
496 \newcolumntype {C} [1] {> {centering let \newline \} arraybacks lash \hspace {0pt}} m{\#1}} 
497 \newcolumntype{R}[1]{>{\raggedleft\let\newline\\\arraybackslash\hspace{0pt}}m{#1}}
498 \newcolumntype{Y}{>{\centering\arraybackslash}X}
    颞注
499 \RequirePackage{caption}
500 \RequirePackage{subcaption}
501 \RequirePackage{footnote}
题注: 在图表内使用脚注
502 \makesavenoteenv{tabular}
题注格式:编号与题注间隔,最后一行居中,本科题注为黑体
503 \captionsetup{labelsep=quad}
504 \captionsetup{justification=centerlast}
505 \ifnuaa@bachelor
    \DeclareCaptionFont{heiticaption}{
      \linespread{1.5}\heiti\fontsize{10.5bp}{15.6bp}\selectfont}
507
508 \captionsetup{font=heiticaption}
509\fi
```

#### 6.6.4 双语题注

利用 newfloat 创建一些 float 环境,将第二语言的题注声明在其他 float 环境内,避免图表目录里同时出现一张图/表的两个不同语言的名字。

```
510 \RequirePackage{float}
511 \RequirePackage{newfloat}
512 \RequirePackage[labelformat=simple] {subcaption}
513 \RequirePackage{bicaption}
514 \captionsetup[bi-first] {bi-first}
515 \captionsetup[bi-second] {bi-second}
516 \langle /cls \rangle
517 (*cfg)
518 %%%% bi-caption %%%%%
519 \ifnuaa@lang@cn
520 \DeclareCaptionOption{bi-first}[]{
    \def\tablename{\nuaa@label@tablename}
    \def\figurename{\nuaa@label@figurename}
523 }
524 \DeclareCaptionOption{bi-second}[]{
    \def\tablename{\nuaa@labelEn@tablename}
    \def\figurename{\nuaa@labelEn@figurename}
526
527 }
528 \DeclareFloatingEnvironment[fileext=lofEN]{figuresEN}[\shortfigurenameEN][\listoffiguresnameEN]
529 \DeclareFloatingEnvironment[fileext=lotEN] { tablesEN} [\shorttablenameEN] [\listoftablesnameEN]
530 \captionsetup[bi-second]{listtype+=sEN}
531 \else
532 \ClassError{nuaathesis}{Internal error}
533 \fi
534 (/cfg)
```

#### 6.6.5 自动交叉引用

547 \def\equationautorefname{式}

```
535 (*cls)
536 \RequirePackage[hidelinks] {hyperref}

顺便给 PDF 书签加上自动编号,bookmark 需要 hyperref 后载入。
537 \RequirePackage[numbered] {bookmark}
538 (/cls)
539 (*cfg)
540 %%%% auto ref %%%%
541 \ifnuaa@lang@cn
542 \AtBeginDocument {%
543 \def\figureautorefname {图}
544 \def\tableautorefname {表}
545 \def\partautorefname {卷}
546 \def\appendixautorefname {附录}
```

```
\def\Itemautorefname{列表}
548
   \def\chapterautorefname{章}
549
    \def\sectionautorefname{节}
550
551 \def\subsectionautorefname{小节}
   \def\subsubsectionautorefname{条目}
    \def\paragraphautorefname{自然段}
553
554 \def\Hfootnoteautorefname{脚注}
    \def\AMSautorefname{式}
556
    \def\theoremautorefname{理论}
    \def\pageautorefname{页}
557
558 }
559 \else
560 \ClassError{nuaathesis}{Internal error}
561 \fi
562 (/cfg)
6.6.6 代码清单 listing
563 (*cls)
564 \RequirePackage{listings}
565 (/cls)
566 (*cfg)
567 %%%%% listings %%%%%
568 \renewcommand\lstlistingname{\nuaa@label@lstlistingname}
569 \lstset{tabsize=4. %
    frame=shadowbox, % 把代码用带有阴影的框圈起来
570
571
    commentstyle=\color{red!50!green!50!blue!50},% 浅灰色的注释
   rulesepcolor=\color{red!20!green!20!blue!20},% 代码块边框为淡青色
572
    keywordstyle=\color{blue!90}\bfseries, % 代码关键字的颜色为蓝色, 粗体
573
    showstringspaces=false,% 不显示代码字符串中间的空格标记
574
    stringstyle=\ttfamily, % 代码字符串的特殊格式
575
    keepspaces=true, %
576
    breakindent=22pt, %
    numbers=left,% 左侧显示行号
578
    stepnumber=1,%
579
    numberstyle=\tiny, % 行号字体用小号
580
    basicstyle={\footnotesize\ttfamily}, %
581
    showspaces=false, %
582
    flexiblecolumns=true, %
583
    breaklines=true, % 对过长的代码自动换行
584
    breakautoindent=true,%
585
    breakindent=4em, %
586
    aboveskip=1em, % 代码块边框
587
    %% added by http://bbs.ctex.org/viewthread.php?tid=53451
588
    fontadjust,%
589
    captionpos=t,%
    framextopmargin=2pt, framexbottommargin=2pt, abovecaptionskip=-3pt, belowcaptionskip=3pt, %
```

```
xleftmargin=4em, xrightmargin=4em, % 设定 listing 左右的空白
592
593
     texcl=true,
     % 设定中文冲突, 断行, 列模式, 数学环境输入, listing 数字的样式
594
     extendedchars=false,columns=flexible,mathescape=true%
595
     numbersep=-1em%
597 }
598 (/cfg)
      实用命令
      中文日期
6.7.1
599 (*cls)
600 \newcommand{\nuaa@dateCn}{
     \zhdigits{\the\year} 年\zhnumber{\the\month} 月
602 }
6.7.2
     英文日期
603 \newcommand{\nuaa@dateEn}{
     \ifcase\the\month
     \or January%
605
     \or February%
606
     \or March%
607
608
     \or April%
     \or May%
609
     \or June%
610
     \or July%
611
     \or August%
612
     \or September%
613
     \or October%
614
     \or November%
615
     \or December%
617
     \fi, \the\year
618 }
      盲审信息抹除
6.7.3
619 \newcommand\secretize[1]{
     \ifnuaa@bindtrail
620
       ***
621
     \else
622
```

#### 6.7.4 双面换页

#1

\fi

623

624 625 }

为了产生真正的空白页,需要手动结束当前页,设置页眉页脚,然后再双面换页。626\let\nuaa@cleardoublepage\cleardoublepage

```
627 \renewcommand{\cleardoublepage}{
628  \clearpage
629  {
630  \ifnuaa@blankleft\pagestyle{style@empty}\fi
631  \nuaa@cleardoublepage
632  }
633 }
```

### 6.7.5 论文模板的 logo

```
634 \newcommand{\nuaathesis}{%
                           \makebox{%
                                        \label{local_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_normal_n
636
                                        \textsc{Thesis}}}
637
638 \newcommand{\oldnuaathesis}{%
                          N\raisebox{0.5ex}{U}\hspace{-0.3ex}AA%
                           \textsc{Thesis}
640
641 }
642 \newcommand{\seuthesix}{%
                            \makebox{S\hspace{-0.3ex}\raisebox{-0.5ex}{E}\hspace{-0.3ex}U\hspace{0.1em}%
643
644
                           \textsc{Thesix}}
645 }
```

#### 6.7.6 绘制关键词

摘要页的关键词部分,如果关键词换行了,需要与第一个关键词左对齐。

```
646 \newbox\nuaa@kw
647 \newcommand{\nuaa@put@kw}[2]{%
648 \begingroup
649 \setbox\nuaa@kw=\hbox{#1}
650 \noindent\hangindent\wd\nuaa@kw\hangafter1
651 \box\nuaa@kw#2\par
652 \endgroup}
```

### 6.7.7 特殊页面

按照文档的类别, 调用实际的宏。

```
653 \def\makecover{
    \hypersetup{
       % TODO: language
655
       pdftitle = {\nuaa@value@title},
656
657
       pdfauthor = {\nuaa@value@author},
       pdfsubject = {\nuaa@worktypecn},
658
       pdfkeywords = {\nuaa@keywords},
659
      % pdfcreator = {my logo here?}
660
661
   }
662
```

```
\pagestyle{style@empty}
663
    \pagenumbering{Alph}
664
    \cleardoublepage
665
666
667
    \phantomsection
    \ifnuaa@bachelor
668
       \nuaa@make@cover@bachelor
669
       \relax
670
671
    \else
       \nuaa@make@cover@master@cn
672
673
       \nuaa@make@cover@master@en
    \fi
674
675 }
676
677 \def\makedeclare{
    \ifnuaa@bachelor
678
       \nuaa@make@declare@bachelor
679
    \else
680
       \nuaa@make@declare@master
681
    \fi
682
683 }
684
685 \def\makeabstract{
    \ifnuaa@bachelor
686
       \nuaa@make@abstract@bachelor@cn
687
       \nuaa@make@abstract@bachelor@en
688
689
    \else
690
       \nuaa@make@abstract@master@cn
       \nuaa@make@abstract@master@en
691
    \fi
692
693 }
```

### 6.8 绘制特殊页面

### 6.8.1 本科封面

```
694 \newcommand{\nuaa@make@cover@bachelor}{
695
    \cleardoublepage
    \newgeometry{top=1.0in, bottom=1.0in, left=1.25in, right=1.25in}
696
697
    \begingroup
698
    \linespread{1.0}
699
700
    \begin{flushright}
701
      \heiti\fontsize{14bp}{21bp}\nuaa@label@thesisnum
702
      \underline{\hspace{60bp}}
703
      \\ \vspace{42bp}
704
```

```
\end{flushright}
705
706
    \begin{center}
707
      \textbf{\kaishu\fontsize{22bp}{30bp}\nuaa@university}
708
      \\ \vspace{30bp}
709
710
      \textbf{
711
712
        \songti\fontsize{55pt}{32pt}\selectfont
713
        \xeCJKsetup{CJKglue={\hskip 10pt plus 0.08\baselineskip}}
        \nuaa@worktypecn}
714
      \\ \vspace{3bp}
715
                            % 56bp(origin) + 7bp(correction) - 60bp(merged to below)
716
717
      \begingroup
      \heiti\zihao{2}
718
      \parbox[c][142bp][c]{1.44in}{\center\nuaa@label@title}
719
      \parbox[c][142bp][c]{4.07in}{\center
720
721
        \ifnuaa@lang@cn\relax\else
        \nuaa@valueEn@title \par
722
        \fi
723
        \nuaa@value@title}
724
725
      \endgroup
726
      \begingroup
727
      \renewcommand{\tabcolsep}{0bp}
728
729
      \renewcommand{\arraystretch}{2.23}
      \newcommand\nuaa@make@cover@label[1]{
730
        \makebox[1.31in][c]{\heiti\zihao{-3}\makebox[4\ccwd][s]{##1}}}
731
732
      \newcommand\nuaa@make@cover@field[1]{
733
        \makebox[3.22in][c]{\heiti\zihao{3}\secretize{##1}}}
      \begin{tabular}{cc}
734
        \nuaa@make@cover@label{\nuaa@label@author} &
735
        \nuaa@make@cover@field{\nuaa@value@author} \\ \cline{2-2}
736
        \nuaa@make@cover@label{\nuaa@label@studentid} &
        \nuaa@make@cover@field{\nuaa@value@studentid} \\ \cline{2-2}
738
        739
        \nuaa@make@cover@field{\nuaa@value@college} \\ \cline{2-2}
740
        \nuaa@make@cover@label{\nuaa@label@major} &
741
        \nuaa@make@cover@field{\nuaa@value@major} \\ \cline{2-2}
742
        \nuaa@make@cover@label{\nuaa@label@classid} &
743
744
        \nuaa@make@cover@field{\nuaa@value@classid} \\ \cline{2-2}
        \nuaa@make@cover@label{\nuaa@label@advisor} &
745
        \nuaa@make@cover@field{\nuaa@value@advisors} \\ \cline{2-2}
746
      \end{tabular}
747
748
      \endgroup
749
      \vspace{43bp}
```

750

```
\heiti\zihao{3}
751
752
      \ifdefempty{\nuaa@value@applydate}{\nuaa@dateCn}{\nuaa@value@applydate}
    \end{center}
753
754
    \endgroup
755
    \restoregeometry
756
757 }
6.8.2 本科承诺书
758 \newcommand{\nuaa@make@declare@bachelor}{
     \cleardoublepage
     \newgeometry{top=1.0in, bottom=1.0in, left=1.25in, right=1.25in}
760
761
    \begin{center}
762
       \linespread{1.0}\heiti\fontsize{18bp}{31.2bp}\selectfont
763
      \textbf{\nuaa@university} \par
764
      \textbf{本科\nuaa@worktypecn 诚信承诺书}
    \end{center}
766
767
    \begingroup
768
769
      \linespread{1.0}\songti\fontsize{14bp}{31.2bp}\selectfont
       本人郑重声明: 所呈交的\nuaa@worktypecn
770
       (题目: \uline{\nuaa@title})
771
       是本人在导师的指导下独立进行研究所取得的成果。
772
       尽本人所知,除了\nuaa@worktypecn 中特别加以标注引用的内容外,
773
       本\nuaa@worktypecn 不包含任何其他个人或集体已经发表或撰写的成果作品。
774
775
      \vspace{31.2bp}
776
777
       \begin{flushright}
778
        \setlength{\tabcolsep}{0bp}
779
        \begin{tabular}{rcr}
780
        作者签名: & \hspace{7.5em} & \hspace{2em} 年 \hspace{0.5em} 月 \hspace{0.5em} 日 \\
781
         (学号): & \hspace{7.5em} & \\
782
        \end{tabular}
783
       \end{flushright}
784
785
    \endgroup
786
    \restoregeometry
787
788 }
     本科中文摘要
6.8.3
789 \newcommand{\nuaa@make@abstract@bachelor@cn}{
    \ifnuaa@abstractopenright
       \cleardoublepage
   \else
792
```

```
\clearpage
793
794
     \fi
795
     \begin{center}
796
       \vspace*{-4.3pt}\heiti\zihao{2}
797
       \phantomsection
798
       \addcontentsline{toc}{chapter}{\nuaa@label@abstractshort}
799
       \nuaa@value@title
800
801
     \end{center}
802
     \begin{center}
803
       \heiti\zihao{-3}\vspace{1em}
804
       \nuaa@label@abstract
805
     \end{center}
806
807
     \begingroup
808
809
     \sin = \frac{-4}{}
     \nuaa@abstract
810
     \endgroup
811
812
813
     \vspace{3em}
814
     \nuaa@put@kw{\textbf{\heiti\zihao{-3}\nuaa@label@keywords}}{\nuaa@keywords}
815
816 }
      本科英文摘要
6.8.4
817 \newcommand{\nuaa@make@abstract@bachelor@en}{
818
     \ifnuaa@abstractopenright
819
       \cleardoublepage
820
     \else
       \clearpage
821
     \fi
822
823
     \begin{center}
824
       \vspace*{-4.3pt}\heiti\zihao{2}
825
       \phantomsection
826
       \addcontentsline{toc}{chapter}{\nuaa@labelEn@abstract}
827
       \nuaa@valueEn@title
828
     \end{center}
829
830
     \begin{center}
831
       \heiti\zihao{-3}\vspace{18pt}
832
       \nuaa@labelEn@abstract
833
       \vspace{10pt}
834
835
     \end{center}
836
```

```
\begingroup
837
     \songti\zihao{-4}
838
     \nuaa@abstractEn
839
     \endgroup
840
841
     \vspace{3em}
842
843
     \label{lem:condition} $$ \a@put@kw{\text{\zihao}-3}\nuaa@labelEn@KeyWords}}_{\nuaa@keywordsEn} $$
844
845 }
       硕/博士中文封面
6.8.5
846 \newcommand{\nuaa@make@cover@master@cn}{
     \cleardoublepage
847
     \begingroup
     \linespread{1.0}
849
850
     \vspace*{-4.8bp} \vspace{-\parskip}\vspace{-\topskip}
851
852
     \begin{multicols}{2}
853
       \linespread{1}\songti\fontsize{10.5bp}{15.6bp}\selectfont
854
855
       \begin{flushleft}
          中图分类号: \nuaa@value@libraryclassid \par
856
          学科分类号: \nuaa@value@subjectclassid
857
       \end{flushleft}
858
       \columnbreak
859
       \begin{flushright}
860
          论文编号: \nuaa@value@thesisid
861
       \end{flushright}
862
     \end{multicols}
863
864
     \vspace{61bp} \vspace{-\parskip}\vspace{-\baselineskip}
865
866
867
     \begin{center}
       \songti\zihao{0}\nuaa@worktypecn
868
     \end{center}
869
     \vspace{\stretch{0.25}}
871
872
     \begin{center}
873
874
       \linespread{1.5}\heiti\zihao{1}\nuaa@value@title
     \end{center}
875
     \vfill
876
877
     \begingroup
878
       \linespread{1.0}\songti\fontsize{16bp}{31.2bp}\selectfont
879
       \newcommand\nuaa@make@cover@label[1]{\makebox[5\ccwd][s]{##1}}
880
```

```
\parbox[t]{2.875in}{
881
882
         \setlength{\parindent}{1.125in}
         \nuaa@make@cover@label{\nuaa@label@researchername} \par
883
         \nuaa@make@cover@label{\nuaa@label@majorsubject} \par
884
885
         \nuaa@make@cover@label{\nuaa@label@researchfield} \par
         \nuaa@make@cover@label{\nuaa@label@advisor} \par
886
       }
887
       \parbox[t]{3in}{
888
         \setlength{\parindent}{0bp}
889
         \nuaa@value@author \par
890
891
         \nuaa@value@majorsubject \par
         \nuaa@value@researchfield \par
892
         \nuaa@value@advisors \par
893
       }
894
     \endgroup
895
896
897
     \vspace{61bp}
898
     \begin{center}
899
       \includegraphics{nuaa-jianqi.pdf}
900
901
       \kaishu\fontsize{18bp}{31.2bp}\selectfont
902
       \nuaa@label@graduateschool\quad \nuaa@value@college
903
904
       \kaishu\fontsize{16bp}{31.2bp}\selectfont
905
       \ifdefempty{\nuaa@value@applydate}{\nuaa@dateCn}{\nuaa@value@applydate}
906
907
     \end{center}
908
909
910
     \endgroup
911 }
       硕/博士英文封面
6.8.6
912 \newcommand{\nuaa@make@cover@master@en}{
     \cleardoublepage
913
914
     \begin{center}
915
       \linespread{1.8}\zihao{4}
916
       \nuaa@labelEn@nuaa \\
917
       \nuaa@labelEn@graduateschool \\
918
       \nuaa@valueEn@college
919
920
       \vfill
921
       \begingroup
922
923
         \linespread{1.5}
         \zihao{2}\textbf{\nuaa@valueEn@title} \par
924
```

```
\endgroup
925
      \vfill
926
927
      \linespread{2.0}\zihao{4}
928
929
      A Thesis in \\
      \nuaa@valueEn@majorsubject \\
930
      by \\
931
      \nuaa@valueEn@author \bigskip
932
933
      Advised by \\
934
      \nuaa@valueEn@advisors \bigskip
935
936
      Submitted in Partial Fulfillment \\
937
      of the Requirements \\
938
      for the Degree of \\
939
      \ifnuaa@master
940
        \nuaa@labelEn@degreemaster
941
942
        \nuaa@labelEn@degreedoctor
943
      \fi \bigskip
944
945
      \ifdefempty{\nuaa@valueEn@applydate}{\nuaa@dateEn}{\nuaa@valueEn@applydate}
946
    \end{center}
947
948 }
     硕/博士承诺书
6.8.7
949 \newcommand{\nuaa@make@declare@master}{
    \cleardoublepage
950
951
    \begin{center}
    \linespread{1.0}\songti\fontsize{22bp}{62.4bp}
953
    954
    承诺书 \par
955
    \end{center}
956
957
    \begingroup
    \vspace*{31.4bp} \vspace{-\parskip}\vspace{-\baselineskip}
959
    \linespread{1.0}\songti\fontsize{16bp}{30bp}\selectfont
960
    本人声明所呈交的\nuaa@worktypecn 是本人在导师指导下进行的研究工作及取得的研究成果。
    除了文中特别加以标注和致谢的地方外,论文中不包含其他人已经发表或撰写过的研究成果,
962
    也不包含为获得\nuaa@label@nuaa 或其他教育机构的学位或证书而使用过的材料。
963
964
    本人授权\nuaa@label@nuaa 可以将学位论文的全部或部分内容编入有关数据库进行检索,
965
    可以采用影印、缩印或扫描等复制手段保存、汇编学位论文。
966
967
     (保密的学位论文在解密后适用本承诺书)
968
```

```
969
                \endgroup
  970
  971
               \vfill
  972
  973
               \begin{flushright}
               \label{linespread} $$ \lim songti fontsize {14bp} {25bp} \electfont $$ in specific contains the sum of the sum 
  974
               \makebox[5\ccwd][s]{作者签名: } \underline{\hspace{7em}} \par
  975
                \makebox[5\ccwd][s]{日 \hfill 期: } \underline{\hspace{7em}} \par
  977
               \end{flushright}
               \vfill
  978
  979 }
                    硕/博士中文摘要
6.8.8
  980 \newcommand{\nuaa@make@abstract@master@cn}{
                \ifnuaa@abstractopenright
  981
                      \cleardoublepage
  982
               \else
  983
                      \clearpage
  984
                \fi
  985
  986
  987
                \chapter*{\nuaa@label@abstract}
  988
                \begingroup
  989
                      \nuaa@abstract
  990
                \endgroup
  991
                \vspace{2\baselineskip}
  992
  993
                994
  995 }
                    硕/博士英文摘要
6.8.9
  996 \newcommand{\nuaa@make@abstract@master@en}{
  997
                \ifnuaa@abstractopenright
                      \cleardoublepage
  998
               \else
  999
1000
                      \clearpage
1001
                \fi
1002
                \chapter*{\textbf{\nuaa@labelEn@ABSTRACT}}
1003
1004
                \begingroup
1005
                      \nuaa@abstractEn
1006
                \endgroup
1007
                \vspace{2\baselineskip}
1008
1009
                \nuaa@put@kw{\textbf{\nuaa@labelEn@keywords}}{\nuaa@keywordsEn}
1010
```

# 7 更新记录

v0.0		使用脚注用例;增加几个	·默认宏包,方便使
General: 模板发布,版本号 v0.0。	1	用;部分细节修调整。.	1
v0.1	v0.92		
General: v0.1 发布,详情未知。.	1	Seneral: v0.92 发布,增加 bi	blatex 对 natbib 支
v0.2		持,如 citep 可以直接在	行中引用编号,
General: v0.2 发布,详情未知。.	1	citet 可以引用作者 (这里	貌似仍然是个 bug,
v0.3		理论上应该是引用题目,	还没仔细研究。);
General: v0.3 发布,加入对团队	报告的支持,	添加 subcaption 和 capti	on 包,修复
加入几个宏包,加一些预定义	<b>以符号。 1</b>	bicaption参数;添加多数	列图片示例代码;
v0.9		多处细节调整。	1
General: v0.9 跨版发布,代码重标	构,模板基本 v0.9a		
实现,开始由 Git 进行版本控	图制,进入微调 (	Seneral: v0.9a 发布,加入使	脚注出现在页脚线
阶段。	1	下方的代码,加入模板更	[新记录。 1
v0.91	v1.0		
General: v0.91 发布,使用开源 F	andol 字体替 (	General: nuaathesis 正式通过	过毕业设计审核,
代华文字体和思源雅黑字体。	1	v1.0 发布,增加毕业设计	一/毕业论文选项,
v0.91a		并调整页眉;针对双面打	印选项调整页脚;
General: v0.91a 发布,添加双语	标题和标题中	细节调整。	1
8 代码索引			
8 代码索引			
	\@openbib@code	420 \baselinesk	ip
Symbols	\@openbib@code		ip
Symbols \	-	713,	ip
Symbols \	\@openbib@code	713, 3	865, 954, 959, 992, 1008 474
Symbols         \	\	713, 3 \bf \bibliograp	865, 954, 959, 992, 1008
Symbols         \	``	713,3 \bf \bibliograp \bibliomame	865, 954, 959, 992, 1008 
Symbols         \	\	713, 8	865, 954, 959, 992, 1008 474 hy 403, 404, 434 408, 435
Symbols         \	A \addcontentsline . 4	713, 3	865, 954, 959, 992, 1008 474 hy 403, 404, 434 408, 435 436
Symbols         \( \cdot	A \addcontentsline . 4 \advance	713, 8	865, 954, 959, 992, 1008 474 hy 403, 404, 434 408, 435 436 932, 935, 944
Symbols         \	A \addcontentsline . 4 \advance \Alph \AMSautorefname	713, 8	865, 954, 959, 992, 1008 474 hy 403, 404, 434 408, 435 436 932, 935, 944 ackage) 18
Symbols         \	A \addcontentsline	713, 8	865, 954, 959, 992, 1008 
Symbols         \	A \addcontentsline \advance \Alph \AMSautorefname \appendixautorefname	713, 3	865, 954, 959, 992, 1008 
Symbols         \	A \addcontentsline . 4 \advance \Alph \AMSautorefname \appendixautorefname \apptocmd \arabic	713, 3	865, 954, 959, 992, 1008
Symbols         \	A \addcontentsline \advance \Alph \AMSautorefname \appendixautorefname	713, 3	865, 954, 959, 992, 1008
Symbols         \	A \addcontentsline	713, 3	865, 954, 959, 992, 1008
Symbols         \	A \addcontentsline . 4 \advance \Alph \ampendixautorefname \appendixautorefname \apptocmd \arabic \arraybackslash 495, . \arraystretch \AtEndOfClass	713, 3	865, 954, 959, 992, 1008
Symbols         \	A \addcontentsline . 4 \advance \Alph \ampendixautorefname \appendixautorefname \apptocmd \arraybackslash 495,4 \arraystretch	713, 3	865, 954, 959, 992, 1008

\cftbeforesecskip 310	\DeclareDefaultOption 76	718, 731, 733, 751, 763,
\cftchapfont	\DeclareFloatingEnvironment	797, 804, 815, 825, 832, 874
\cftchapleader 311	528, 529	\hfill 17, 18, 19, 20, 21, 22, 25, 976
\cftchappagefont 320	\DeclareGraphicsExtensions 486	\Hfootnoteautorefname 554
\cftdotfill	\DeclareRobustCommand 440	\hspace 250,
\cftdotsep 311	\define@key . 60, 65, 69, 135, 141	495, 496, 497, 636, 639,
\cftfigfont 318	\dimexpr 344, 345	643, 703, 781, 782, 975, 976
\cftfignumwidth 344	\do144	hyperref (package) 18
	doing nothing	\hypersetup 654
\cftfigpagefont 324	dummyEnv (environment) 1	(hypersetup
\cftfigpresnum 340,343 \cftsecfont 315	\dummyMacro	I
,	(	\if@backmatter 273
\cftsecpagefont 321	E	\if@frontmatter 227,272
\cftsubsecfont 316	\endlist 433	\if@openright 292
\cftsubsecpagefont 322	environments:	\if@twoside
\cftsubsubsecfont 317	$dummyEnv \dots 1$	\ifdefempty 752,906,946
\cftsubsubsecpagefont 323	\equationautorefname 547	\ifNAT@swa 437
\cfttabfont 319	F	\ifnuaa@abstractopenright
\cfttabnumwidth 345		790, 818, 981, 997
\cfttabpagefont 325	\fancyfoot 260, 262, 263, 265 fancyhdr (package) 10	\ifnuaa@bachelor
\cfttabpresnum 341		57, 80, 89, 118, 181,
\chapter 331, 347, 408, 987, 1003	\fancyhead 242, 244, 250, 252 \fancyhf 237	204, 226, 243, 268, 278,
\chapterautorefname 549	\fancypagestyle 236, 241	332, 351, 505, 668, 678, 686
\citep 441	\figureautorefname 543	\ifnuaa@bindtrail 620
\ClassError	\figurename 522, 526	\ifnuaa@blankleft 630
83, 92, 98, 476, 532, 560	\fontsize 333, 354, 359,	\ifnuaa@doctor 59,82
\cleardoublepage 275,	364, 370, 378, 383, 388,	\ifnuaa@jincheng 110,739
286, 292, 297, 330, 626,	394, 403, 406, 507, 702,	\ifnuaa@lang@cn 62,
627, 665, 695, 759, 791,	708, 712, 763, 769, 854,	103, 176, 455, 519, 541, 721
819, 847, 913, 950, 982, 998	879, 902, 905, 953, 960, 974	\ifnuaa@lang@en 63, 104, 178
\clearpage 281, 292, 339,	\footrulewidth 239, 269	\ifnuaa@lang@ja 64, 105
435, 628, 793, 821, 984, 1000	\frontmatter	\ifnuaa@master . 58,81,125,940
\cline 736, 738, 740, 742, 744, 746	(11011111111111111111111111111111111111	\ifnuaa@msfont
\clubpenalty 426, 427	G	\ifnuaa@worktype@design
\Collect@Body 171, 173	\g@addto@macro 146,149	
\color 571, 572, 573	\gdef . 136, 137, 142, 143, 170, 172	\ifnuaa@worktype@paper
\columnbreak 859	\geometry 204,214	
ctex (package)	geometry (package) 9	\ifthenelse 254
\ctexset . 280, 291, 300, 351, 375	\graphicspath 485	\ignorespaces 147
\CTEXthesection 303	**	\includegraphics 247, 900
\CurrentOption 76	H (FO	\inlinecite 440, 442
D	\hangafter	\input 79
\DeclareBoolOption	\hbox	\isodd
71, 72, 73, 74, 75		\Itemautorefname 548
	\headrulewidth 238, 267	
\DeclareCaptionFont 506	\heiti 354, 359, 364, 370, 378,	\itemindent 418
\DeclareCaptionOption 520,524	383, 388, 394, 507, 702,	\itemsep 416

\itshape 446	\NAT@citesuper 437	\nuaa@label@graduateschool
•	natbib (package) 15	
J	\NeedsTeXFormat 1	\nuaa@label@keywords
jincheng (option) 3	\newbox 646	
K	\newcolumntype 495, 496, 497, 498	\nuaa@label@keywordsep 34,174
\kaishu 708, 902, 905	newfloat (package) 18	\nuaa@label@listoffigurestables
\kern	\newgeometry 696, 760	43, 347
kvoptions (package) 4	\newif 57,58,	\nuaa@label@lstlistingname
\kvsetkeys 55, 77, 132, 133	59, 62, 63, 64, 67, 68, 272, 273	
(AVSELKEYS 33,77, 132, 133	\newlength 342	\nuaa@label@major 20,741
L	\newline 450, 495, 496, 497	\nuaa@label@majorsubject .
\labelsep 413,415	\newtheorem 457, 459, 460, 461,	24, 884
\labelwidth 411, 412		\nuaa@label@nuaa 7,114,963,965
\leftmargin 412,413	462, 463, 464, 465, 466, 467, 468, 470, 471, 472, 473	\nuaa@label@nuaajc 8,111
\linespread 333, 354, 359,		\nuaa@label@reportpaper 41,250
364, 378, 383, 388, 394,	\newtheoremstyle 443	\nuaa@label@researchername
403, 406, 507, 699, 763,	newtxtext (package) 9, 9, 9, 9	
769, 849, 854, 874, 879,	\nuaa@abstract 170, 171	\nuaa@label@researchfield
916, 923, 928, 953, 960, 974	\nuaa@@abstractEn 172, 173	
\list 409	\nuaa@abstract 170,810,990	\nuaa@label@studentid . 17,737
listing (package) 19	\nuaa@abstractEn 172,839,1006	\nuaa@label@tablename
\listoffigures 348	\nuaa@bachelorfalse 57	
\listoffiguresnameEN 528	\nuaa@cleardoublepage 626,631	\nuaa@label@tableofcontents
\listoftables 349	\nuaa@dateCn 600, 752, 906	
\listoftablesnameEN 529	\nuaa@dateEn 603,946	\nuaa@label@teamname 15
\listparindent 417	\nuaa@def@term	\nuaa@label@thesisnum . 13,702
\long 170, 172	134, 151, 152, 153,	\nuaa@label@title 14,719
\lstlistingname 568	154, 155, 156, 157, 158,	\nuaa@label@worktype@design
\lstset <u>569</u>	159, 160, 161, 162, 163,	
	164, 165, 166, 167, 168, 169	\nuaa@label@worktype@doctor
M	\nuaa@doctorfalse 59	12 128
\mainmatter 285	\nuaa@keywords 659,815,994	\nuaa@label@worktype@master
\makeabstract 685	\nuaa@keywordsEn 844,1010	
\makebox 635,	\nuaa@kw 646, 649, 650, 651	\nuaa@label@worktype@paper
643, 731, 733, 880, 975, 976	\nuaa@label@abstract	
\makecover 653	31, 805, 987	\nuaa@labelEn@ABSTRACT 37, 1003
\makedeclare 677	\nuaa@label@abstract@toc . 35	\nuaa@labelEn@abstract
\makesavenoteenv 502	\nuaa@label@abstractshort	
\mbox 636		\nuaa@labelEn@degreedoctor
\MessageBreak 84,92	\nuaa@label@advisor 22,745,886	_
\month 601, 604	\nuaa@label@author 16,735	
\mylenf 342, 343, 344, 345	\nuaa@label@classid 21,743	\nuaa@labelEn@degreemaster
N.T	\nuaa@label@college 18,739	
N NATGORISM	\nuaa@label@department 19,739	\nuaa@labelEn@figurename .
\NAT@@close 438		
\NAT@open 438	\nuaa@label@figurename	\nuaa@labelEn@graduateschool
\NAT@citenum 441	44, 340, 522	

\nuaa@labelEn@KeyWords 38,844	\nuaa@value@applydate 752,906	listing 19
\nuaa@labelEn@keywords 39, 1010	\nuaa@value@author 657, 736, 890	natbib
\nuaa@labelEn@keywordsep .	\nuaa@value@classid 744	newfloat 18
	\nuaa@value@college . 740,903	newtxtext 9, 9, 9, 9
\nuaa@labelEn@nuaa 27,917	\nuaa@value@libraryclassid 856	tocloft 12,13
\nuaa@labelEn@tablename 48,525	\nuaa@value@major 742	\pageautorefname 557
\nuaa@lang@cnfalse 62	\nuaa@value@majorsubject . 891	\pagenumbering 278, 289, 664
	\nuaa@value@researchfield 892	\pagestyle 279, 290, 630, 663
\nuaa@lang@cntrue 106	\nuaa@value@studentid 738	\paragraphautorefname 553
\nuaa@lang@enfalse 63	\nuaa@value@subjectclassid 857	\parbox 719, 720, 881, 888
\nuaa@lang@jafalse 64		\parindent 447, 483, 882, 889
\nuaa@make@abstract@bachelor@cn	\nuaa@value@title	\parsep
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	\nuaa@valueEn@applydate 946	76, 182, 184, 186
\nuaa@make@abstract@master@cn	\nuaa@valueEn@author 932	\PassOptionsToPackage 193
	\nuaa@valueEn@college 919	\pretocmd 403, 434
\nuaa@make@abstract@master@en	\nuaa@valueEn@majorsubject 930	\ProcessKeyvalOptions 78
	\nuaa@valueEn@title	\proofname 474
\nuaa@make@cover@bachelor	179, 722, 828, 924	\ProvidesClass 2
	\nuaa@worktype@designfalse 68	\ProvidesFile 3
\nuaa@make@cover@field 732,	\nuaa@worktype@paperfalse 67	\put
736, 738, 740, 742, 744, 746	\nuaa@worktype@papertrue . 100	(pac
\nuaa@make@cover@label 730,	(listade library propagation in 100	
705 707 700 741 740	\nuaa@worktynecn	R
735, 737, 739, 741, 743,	\nuaa@worktypecn	R \raggedleft 497
745, 880, 883, 884, 885, 886	. 117, 250, 255, 658, 714,	<del></del>
745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714, 765, 770, 773, 774, 868, 961	\raggedleft 497
745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn672,846	. 117, 250, 255, 658, 714,	\raggedleft
745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714, 765, 770, 773, 774, 868, 961 \nuaalistoffigurestables . 338	\raggedleft
745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714, 765, 770, 773, 774, 868, 961 \nuaalistoffigurestables . 338 \nuaaset 132	\raggedleft
745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714, 765, 770, 773, 774, 868, 961 \nuaalistoffigurestables . 338 \nuaaset	\raggedleft 497 \raisebox 636, 639, 643 \renewenvironment 407 \reserved@a 144, 150 \restoregeometry 756, 787 \rightmargin 419
745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714, 765, 770, 773, 774, 868, 961 \nuaalistoffigurestables . 338 \nuaaset	\raggedleft
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745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714, 765, 770, 773, 774, 868, 961 \nuaalistoffigurestables . 338 \nuaaset	\raggedleft
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745, 880, 883, 884, 885, 886 \nuaa@make@cover@master@cn	. 117, 250, 255, 658, 714,	\raggedleft

\songti 250, 253,	\tocfont 313,314,	W
712, 769, 809, 838, 854,	315, 316, 317, 318, 319,	\wd 650
868, 879, 953, 960, 974, 994	320, 321, 322, 323, 324, 325	\widowpenalty 428
\stretch 871	tocloft (package) 12, 13	
$\verb \subsectionautorefname  \dots 551 $	\tocloftpagestyle 312	X
\subsubsectionautorefname 552	\topskip 851	\xeCJKsetup
T	U	Υ
\tabcolsep 728,779	\uline 771	_
\tableautorefname 544	\underline 703,975,976	\year 601,617
\tablename 521,525	\unitlength 245	-
\tableofcontents 336	\unskip 438	Z
\textsuperscript 438	\usecounter 421	\zhdigits <u>601</u>
\the 601, 604, 617		\zhnumber 601
\theenumiv 423	${f V}$	\zihao 250, 253, 718,
\theoremautorefname 556	\value 254	731, 733, 751, 797, 804,
\theoremstyle 456, 458, 469	\version 5	809, 815, 825, 832, 838,
\thepage 262, 263, 265	\vfill 876, 921, 926, 972, 978	844, 868, 874, 916, 924, 928