

The `tubsthesis` class*

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Abstract

Document class for writing a thesis.

1 Introduction

This class uses the `tubsbook` document class to create an interface for writing a bachelor, master or project thesis and their exposé as well as dissertations.

2 TODO

This section lists parts where changes are needed.

- Add `tubsthesis@` prefix to internal macros/commands.

2.1 Enhancements

- Maybe the usage of `proposal` and `expose` should be standardized.
- Check whether the `major` commands needs renaming.

3 Implementation

```
1 <*head>
   Identification
2 \NeedsTeXFormat{LaTeX2e}[1999/12/01]
3 \ProvidesClass{tubsthesis}[\tubslatexVersion tubs thesis class]
   Preliminary declarations
4 \LoadClass[%
5 a4paper,           % DIN A4
6 twoside,           % doublesided document
```

*This document corresponds to `tubsthesis ?`, dated ?.

```

7 cmyk,                % use CMYK colors
8 bcor=15mm,           % extra space for book binding
9 bibliography=totoc,  % bibliography gets unnumbered entry
10 nexus,              % corporate design font
11 lnum,               % use "Versalziffern" instead of
12                    % "Mediaevalziffern"
13 extramargin,        % override corporate design margin
14                    % to give more space for one-column text
15 ]{%
16 tubsbook%
17 }

    Packages
18 \RequirePackage{xkeyval}
19 \usepackage{csquotes}
20 \usepackage[backend=biber]{biblatex}
21 \PassOptionsToPackage{hyphens}{url}
22 \usepackage[hidelinks]{hyperref}
23 \usepackage{xparse} % for \NewDocumentCommand only
24 \</head>

    Option section
25 \<*option>

```

3.1 Class options

- ‘**german**’ The option **german** sets the used language to german.
- ```

26 \define@boolkey{%
27 tubsthesis.cls%
28 }[cls]{german}[true]{}

```
- ‘**english**’ The option **english** sets the used language to english. If both **german** and **english** are set to true, the option used last will take effect.
- ```

29 \define@boolkey{%
30 tubsthesis.cls%
31 }[cls]{english}[true]{%
32     \setkeys{tubsthesis.cls}{german=false}
33 }

```
- ‘**proposal**’ The option **proposal** is used to write a proposal / exposé.
- ```

34 \define@boolkey{%
35 tubsthesis.cls%
36 }[cls]{proposal}[true]{}

```
- ‘**nolistoffigures**’ The option **nolistoffigures** prevents the creation of a list of figures.
- ```

37 \define@boolkey{%
38 tubsthesis.cls%
39 }[cls]{nolistoffigures}[true]{}

```
- ‘**nolistoftables**’ The option **nolistoftables** prevents the creation of a list of tables.

```

40 \define@boolkey{%
41 tubsthesis.cls%
42 }[cls]{nolistoftables}[true]{-}

‘noabstract’ The option noabstract prevents the printing of an abstract.
43 \define@boolkey{%
44 tubsthesis.cls%
45 }[cls]{noabstract}[true]{-}

‘noappendix’ The option noappendix stops the creation of the appendix.
46 \define@boolkey{%
47 tubsthesis.cls%
48 }[cls]{noappendix}[true]{-}

‘nodate’ The option nodate is used if no dates should be printed.
This has no effect for dissertations.
49 \define@boolkey{%
50 tubsthesis.cls%
51 }[cls]{nodate}[true]{-}

‘thesistype’ The option thesistype sets the type of thesis that should be created. Possible
values are:



- bachelor - Corresponds to Bachelor’s Thesis
- master - Corresponds to Master’s Thesis
- project - Corresponds to Project Thesis
- dissertation - Corresponds to Dissertation



52 \newcommand{\thesistype}{default}
53 \newif\iftubsthesis@diss
54 \tubsthesis@dissfalse
55 \newif\iftubsthesis@customtype
56 \tubsthesis@customtypefalse
57 \DeclareOptionX{\thesistype}{
58   \def\temp{#1}
59   \def\bachelor{bachelor}
60   \def\master{master}
61   \def\project{project}
62   \def\diss{dissertation}
63   \ifclsgerman % begin german
64     \ifx\temp\bachelor
65       \def\thesistype{Bachelorarbeit}
66     \else
67       \ifx\temp\master
68         \def\thesistype{Masterarbeit}
69       \else
70         \ifx\temp\project

```

```

71         \def\thesistype{Projektarbeit}
72     \else
73         \ifx\temp\diss
74             \def\thesistype{Dissertation}
75             \unless\ifclsproposal
76                 \tubsthesis@disstrue
77                 \subtitle{Research Proposal}
78             \fi
79         \else
80             % unknown type
81             \def\thesistype{#1}
82             \tubsthesis@customtypetrue
83         \fi
84     \fi
85 \fi
86 \fi
87 \else % end german / begin english
88     \ifx\temp\bachelor
89         \def\thesistype{Bachelor's Thesis}
90     \else
91         \ifx\temp\master
92             \def\thesistype{Master's Thesis}
93         \else
94             \ifx\temp\project
95                 \def\thesistype{Project Thesis}
96             \else
97                 \ifx\temp\diss
98                     \def\thesistype{Dissertation}
99                     \unless\ifclsproposal
100                         \tubsthesis@disstrue
101                         \subtitle{Research Proposal}
102                     \fi
103                 \else
104                     % unknown type
105                     \def\thesistype{#1}
106                     \tubsthesis@customtypetrue
107                 \fi
108             \fi
109         \fi
110     \fi
111 \fi % end english
112 }

113 </option>
114 <*execoption>
    Process options
115 \ExecuteOptionsX{
116     german=false,
117     nolistoffigures=false,

```

```

118     nolistoftables=false,
119     noabstract=false,
120     noappendix=false,
121     nodate=false,
122     thesistype=bachelor}
123 \ProcessOptionsX*\relax
    Set the language
124 \ifclsgerman
125     \usepackage[ngerman]{babel}
126 \else
127     \iftubsthesis@diss % begin dissertation
128         % german and english are required to display the titlepage correctly
129         \usepackage[ngerman,english]{babel}
130     \else % end dissertation / begin other
131         \usepackage[english]{babel}
132     \fi % end other
133 \fi
134 % datetime2 needs the babel package to be loaded before
135 \usepackage[userregional]{datetime2}
    Add packages depending on type
136 \ifclsproposal
137     \usepackage{tabularx}
138 \fi
139 \</execoption>
140 \<*command>

```

3.2 Commands

3.2.1 Configuration commands

‘thesisname’ The command `\thesisname{<name>}` is used to set the authors name.

```

141 \newcommand{\name}{%
142     \ClassWarningNoLine{tubsthesis}{%
143         No name set.\MessageBreak
144         Use \protect\thesisname\space to set it
145     }
146 }
147 \newcommand{\thesisname}[1]{%
148     \author{#1}
149     \renewcommand{\name}{#1}
150 }

```

‘thesistypeoverwrite’ The command `\thesistypeoverwrite{<name>}` is used to overwrite the thesis type (like ‘Bachelorarbeit’ with ‘Studienarbeit’).

```

151 \newcommand{\thesistypeoverwrite}[1]{%
152     \def\thesistype{#1}
153     \tubsthesis@customtypetrue
154 }

```

‘thesissupervisors’ The command `\thesissupervisors{<supervisor1>}{<supervisor2>}{<supervisor3>}` sets the supervisors of the thesis. The 2nd and 3rd supervisors can be left blank since it is possible to have only one.

This command has no effect for dissertations.

```

155 \newcommand{\thesissupervisors}[3]{%
156 \newcounter{SupervisorsCounter}
157 \def\temp{#1}\ifx\temp\empty
158     \newcommand{\supervisorone}{}
159 \newcommand{\supervisoronesign}{}
160 \else
161 \newcommand{\supervisorone}{#1\}
162 \newcommand{\supervisoronesign}{%
163     #1          & \rule[-0.5ex]{\linewidth}{1pt}
164     \newline\itshape(\signature)\}[5ex]
165 }
166 \stepcounter{SupervisorsCounter}
167 \fi
168
169 \def\temp{#2}\ifx\temp\empty
170 \newcommand{\supervisortwo}{}
171 \newcommand{\supervisortwosign}{}
172 \else
173 \newcommand{\supervisortwo}{#2\}
174 \newcommand{\supervisortwosign}{%
175     #2          & \rule[-0.5ex]{\linewidth}{1pt}
176     \newline\itshape(\signature)\}[5ex]
177 }
178 \stepcounter{SupervisorsCounter}
179 \fi
180
181 \def\temp{#3}\ifx\temp\empty
182 \newcommand{\supervisorthree}{}
183 \newcommand{\supervisorthreesign}{}
184 \else
185 \newcommand{\supervisorthree}{#3\}
186 \newcommand{\supervisorthreesign}{%
187     #3          & \rule[-0.5ex]{\linewidth}{1pt}
188     \newline\itshape(\signature)\}[5ex]
189 }
190 \stepcounter{SupervisorsCounter}
191 \fi
192
193 \ifnum\theSupervisorsCounter=1
194 \newcommand{\supervisorstring}{Supervisor:}
195 \else
196 \newcommand{\supervisorstring}{Supervisors:}
197 \fi
198 }
```

‘thesisprofessor’ The command `\thesisprofessor[<prof2>]{<prof>}` sets the professor of the thesis. The `prof2` value is only needed for dissertations.

```

199 \newcommand{\tubsthesis@professor}{%
200     \ClassWarningNoLine{tubsthesis}{%
201         No professor set.\MessageBreak
202         Use \protect\thesisprofessor\space to set one
203     }
204 }
205 \newcommand{\tubsthesis@professortwo}{%
206     \ClassWarningNoLine{tubsthesis}{%
207         No second professor set.\MessageBreak
208         Use \protect\thesisprofessor\space to set one
209     }
210 }
211 \newcommand{\thesisprofessor}[2][{}]{%
212     \renewcommand{\tubsthesis@professor}{#2}
213     \ifthenelse{\equal{#1}{}}{%
214         % No second professor given
215     }{%
216         \renewcommand{\tubsthesis@professortwo}{#1}
217     }
218 }

```

‘thesistitle’ The command `\thesistitle{<german title>}{<english title>}` sets the english and german title of the thesis.

The extra title isn’t used in the thesis and can therefore be left empty. In the proposal the additional title is displayed in the titlepage’s table. If the extra title is left empty in the proposal the respective table entry will be completely removed.

```

219 \newcommand{\titleenglish}{%
220     \ClassWarningNoLine{tubsthesis}{%
221         No thesis title set.\MessageBreak
222         Use \protect\thesistitle\space to set one
223     }
224 }
225 \newcommand{\titlegerman}{%
226     \ClassWarningNoLine{tubsthesis}{%
227         No thesis title set.\MessageBreak
228         Use \protect\thesistitle\space to set one
229     }
230 }
231 \newif\ifextratitle\extratitlefalse
232 \newcommand{\thesistitle}[2]{%
233     \ifclsgerman % begin german
234         \title{#1}
235         \def\temp{#2}
236     \else % end german / begin english
237         \title{#2}
238         \def\temp{#1}
239     \fi % end english

```

```

240 \unless\ifx\temp\empty
241 \extratitletrue
242 \fi
243 \renewcommand{\titlegerman}{#1}
244 \renewcommand{\titleenglish}{#2}
245 }

‘thesisbegindate’ The command \thesisbegindate{<yyyy>-<mm>-<dd>} sets the date the thesis
began.
For dissertations this command has no effect.
246 \DTMsavedate{tubsthesis@begindate}{2000-01-01}
247 \newcommand{\thesisbegindate}[1]{%
248 \DTMsavedate{tubsthesis@begindate}{#1}
249 }

‘thesisenddate’ The command \thesisenddate{<yyyy>-<mm>-<dd>} sets the date when the the-
sis is handed in.
For dissertations this command will set the date when the dissertation was
submitted. This date will also be printed on the titlepage.
250 \newcommand{\tubsthesis@date}{%
251 \DTMifsaveddate{tubsthesis@date}{%
252 \DTMusedate{tubsthesis@date}
253 }{%
254 \DTMtoday
255 }
256 }
257 \newcommand{\thesisenddate}[1]{%
258 \DTMsavedate{tubsthesis@date}{#1}
259 }

‘thesisinstitute’ The command \thesisinstituteme>]{<name>} sets the institute’s name.
260 \newcommand{\institute}{%
261 \ClassWarningNoLine{tubsthesis}{%
262 No institute name set.\MessageBreak
263 Use \protect\thesisinstitute\space to set it
264 }
265 }
266 \newcommand{\thesisinstitute}[1]{%
267 \renewcommand{\institute}{#1}
268 }

‘thesisabstract’ The command \thesisabstract[<extra language>]{<used language>} sets
the abstract in the english and german language. The <used language> value
will set the abstract in the main language. The <extra language> value can be
used to also set the abstract in the other language.
So if the thesis is written in german <used language> corresponds to german
an <extra language> corresponds to english.
269 \newif\ifextraabstract\extraabstractfalse

```



```

270 \newcommand{\mainabstract}{%
271   \ClassWarningNoLine{tubsthesis}{%
272     No abstract set.\MessageBreak
273     Use \protect\thesisabstract\space to set one
274   }
275 }
276 % xparse (NewDocumentCommand) is used here to avoid errors when using other
277 % macros with optional arguments inside of the german abstract.
278 \NewDocumentCommand{\thesisabstract}{ O{} m }{%
279   \def\temp{#1}
280   \unless\ifx\temp\empty % begin extra abstract set
281     \extraabstracttrue
282     \newcommand{\extraabstract}{#1}
283   \fi % end extra abstract set
284   \renewcommand{\mainabstract}{#2}
285 }

```

‘thesisposttitle’ The command `\thesisposttitle{<content>}` will define content that is printed directly after the title page(s). To start on a new page, you have to use something like `clearpage`.

```

286 \newcommand{\tubsthesis@posttitlecontent}{}
287 \newcommand{\thesisposttitle}[1]{%
288   \renewcommand{\tubsthesis@posttitlecontent}{#1}
289 }

```

Proposal only The following configurations are only used when `proposal=true` is set.

‘thesismatrikel’ The command `\thesismatrikel{<id>}` is used to set the authors identification number (Matrikelnummer).

```

290 \newcommand{\matrikelnummer}{%
291   \ClassWarningNoLine{tubsthesis}{%
292     No identification number (Matrikelnummer) set.\MessageBreak
293     Use \protect\thesismatrikel\space to set it
294   }
295 }
296 \newcommand{\thesismatrikel}[1]{%
297   \renewcommand{\matrikelnummer}{#1}
298 }

```

‘thesisemail’ The command `\thesisemail{<mail>}` is used to set the authors email address.

```

299 \newcommand{\mail}{%
300   \ClassWarningNoLine{tubsthesis}{%
301     No email address set.\MessageBreak
302     Use \protect\thesisemail\space to set it
303   }
304 }
305 \newcommand{\thesisemail}[1]{%

```

```

306     \renewcommand{\mail}{#1}
307 }

```

‘thesismajor’ The command \thesismajor{<major>} is used to set the authors major (Studiengang).

```

308 \newcommand{\studysubject}{%
309     \ClassWarningNoLine{tubsthesis}{%
310         No thesis major set.\MessageBreak
311         Use \protect\thesismajor\space to set it
312     }
313 }
314 \newcommand{\thesismajor}[1]{%
315     \renewcommand{\studysubject}{#1}
316     % TODO: Maybe change this too (to major)
317 }

```

‘thesisduration’ The command \thesisduration{<dur>} is used to set the duration of the thesis. For bachelor thesis this is 3 or 4 months. For master thesis this is 6 months.

```

318 \newcommand{\duration}{%
319     \ClassWarningNoLine{tubsthesis}{%
320         No thesis duration set.\MessageBreak
321         Use \protect\thesisduration\space to set it
322     }
323 }
324 \newcommand{\thesisduration}[1]{%
325     \renewcommand{\duration}{#1}
326 }

```

‘thesispresentationpoints’ The command \thesispresentationpoints[<value>] sets the amount of points from the presentation. This value will be displayed in the proposal’s front page table. If this command isn’t used the according row won’t be printed.

```

327 \newif\iftubsthesis@presentationpoints
328 \tubsthesis@presentationpointsfalse
329 \newcommand{\presentationpoints}{%
330 \newcommand{\thesispresentationpoints}[1]{%
331     \tubsthesis@presentationpointstrue
332     \renewcommand{\presentationpoints}{#1}
333 }

```

Dissertation only The following configurations are only used when thesistype=dissertation is set.

‘thesisfinalprint’ The command \thesisfinalprint is used to activate final print features.

```

334 \newif\iftubsthesis@finalprint
335 \tubsthesis@finalprintfalse
336 \newcommand{\thesisfinalprint}{%
337     \tubsthesis@finalprintrue
338 }

```

‘thesisbirthdate’ The command `\thesisbirthdate{<yyyy>-<mm>-<dd>}` is used to set the birthdate of the author.

```
339 \DTMsavedate{tubsthesis@birthdate}{2500-12-20}
340 \newcommand{\thesisbirthdate}[1]{%
341     \DTMsavedate{tubsthesis@birthdate}{#1}
342 }
```

‘thesisbirthplace’ The command `\thesisbirthplace{<birthplace>}` is used to set the birthplace of the author.

```
343 \newcommand{\tubsthesis@birthplace}{%
344     \ClassWarningNoLine{tubsthesis}{%
345         No birthplace was set.\MessageBreak
346         Use \protect\thesisbirthplace\space to set one
347     }
348 }
349 \newcommand{\thesisbirthplace}[1]{%
350     \renewcommand{\tubsthesis@birthplace}{#1}
351 }
```

‘thesisdisputationdate’ The command `\thesisdisputationdate{<yyy>-<mm>-<dd>}` is used to set the disputation date for the dissertation.

```
352 \DTMsavedate{tubsthesis@disputationdate}{2020-01-05}
353 \newcommand{\thesisdisputationdate}[1]{%
354     \DTMsavedate{tubsthesis@disputationdate}{#1}
355 }
```

‘thesisfaculty’ The command `\thesisfaculty{<faculty>}` is used to set the faculty for writing a dissertation.

```
356 \newcommand{\tubsthesis@faculty}{%
357     \ClassWarningNoLine{tubsthesis}{%
358         No faculty was set.\MessageBreak
359         Use \protect\thesisfaculty\space to set one
360     }
361 }
362 \newcommand{\thesisfaculty}[1]{%
363     \renewcommand{\tubsthesis@faculty}{#1}
364 }
```

‘thesisdegree’ The command `\thesisdegree[<article>]{<degree>}` is used to set the academic degree and it’s article.

Example: `\thesisdegree[einer]{Doktoringenieurin (Dr.-Ing)}`
will produce the text: „[...] Erlangung des Grades einer **Doktoringenieurin (Dr.-Ing.)**“

```
365 \newcommand{\tubsthesis@degree}{%
366     \ClassWarningNoLine{tubsthesis}{%
367         No degree was set.\MessageBreak
368         Use \protect\thesisdegree\space to set one
```

```

369     }
370 }
371 \newcommand{\tubsthesis@degreearticle}{eines}
372 \newcommand{\thesisdegree}[2][]{%
373     \renewcommand{\tubsthesis@degree}{#2}
374     \ifthenelse{\equal{#1}{}}{\}{\renewcommand{\tubsthesis@degreearticle}{#1}}
375 }

```

‘thesisprintyear’ The command `\thesisprintyear{<year>}` is used to overwrite the print year of the dissertation. This is set to the year of `\thesisdisputationdate` by default.

```

376 \newcommand{\tubsthesis@printyear}{%
377     \DTMfetchyear{\tubsthesis@disputationdate}
378 }
379 \newcommand{\thesisprintyear}[1]{%
380     \renewcommand{\tubsthesis@printyear}{#1}
381 }

```

3.2.2 Internal macros

‘signature’ The command `\signature` will return a german or english text for signing.

```

382 \ifclsgerman
383     \newcommand{\signature}{Datum, Unterschrift}
384 \else
385     \newcommand{\signature}{Date, Signature}
386 \fi

```

‘tubsthesis@tablewidth’ The length `tubsthesis@tablewidth` sets the width of proposal’s title page table. This might have to be changed when one of the displayed values is longer than expected.

```

387 \newlength\tubsthesis@tablewidth
388 \setlength\tubsthesis@tablewidth{.7\textwidth}

389 \</command>
390 \<*environment>

```

3.3 Environments

‘thesis’ The environment `thesis` should contain all the thesis’ content.

```

391 \newenvironment{thesis}{%
392
393 \ifclsproposal % begin proposal
394     % chapter command overwrite
395     % to avoid cleardoublepage before new chapters
396     \ifthenelse{\isundefined{\RedeclareSectionCommand}}{%
397     }{%
398         \RedeclareSectionCommand[style=section,indent=0pt]{chapter}
399     }
400 \fi % end proposal

```

```

401
402 % Subject / subtitle
403 \ifclsproposal % begin proposal
404     \ifclsgerman % begin german
405         \iftubsthesis@customtype % begin custom type (overwritten)
406             \subtitle{\thesistype}
407         \else % end custom type (overwritten) / begin not overwritten
408             \subtitle{Exposé zur \thesistype}
409         \fi % end no overwritten type
410     \else % end german / begin english
411         \iftubsthesis@customtype % begin custom type (overwritten)
412             \subtitle{\thesistype}
413         \else % end custom type (overwritten) / begin not overwritten
414             \subtitle{\thesistype~Proposal}
415         \fi % end no overwritten type
416     \fi % end english
417 \else % end proposal / begin thesis
418     \subject{\thesistype}
419 \fi % end thesis
420
421 % Logo
422 \logo{\institute}
423
424 % Publisher (only for thesis)
425 \unless\ifclsproposal % begin thesis
426     \unless\iftubsthesis@diss % begin not diss thesis
427         \ifclsgerman % begin german
428             \publishers{
429                 \textbf{\institute\\
430                 \tubsthesis@professor}\\
431                 \vspace*{2em}
432                 Betreuer:\\
433                 \supervisorone
434                 \supervisortwo
435                 \supervisorthree
436             }
437         \else % end german / begin english
438             \publishers{
439                 \textbf{\institute\\
440                 \tubsthesis@professor}\\
441                 \vspace*{2em}
442                 \supervisorstring\\
443                 \supervisorone
444                 \supervisortwo
445                 \supervisorthree
446             }
447         \fi % end english
448     \fi % end not diss thesis
449 \fi % end thesis
450

```

```

451 % Date and frontmatter
452 \ifclsproposal % begin proposal
453     \ifclsnodate % begin nodate
454         \date{}
455     \else % end nodate / begin date
456         \date{\DTMusedate{tubsthesis@begindate}}
457     \fi % end date
458 \else % end proposal / begin thesis
459     \ifclsnodate % begin nodate
460         \date{}
461     \else % end nodate / begin date
462         \date{tubsthesis@date}
463     \fi % end date
464     \frontmatter % roman page numbering
465 \fi % end thesis
466
467 % Title
468 \ifclsproposal
469     {%
470         \let\newpage\relax
471         \maketitle[plain,logo=left]
472     }
473 \else % end proposal / begin thesis
474     \iftubsthesis@diss % begin dissertation
475         \pagestyle{empty}
476         \pagenumbering{roman}
477
478         \maketitle[image,logo=left]
479
480     \else % end dissertation / begin not diss thesis
481         \maketitle
482     \fi % end not diss thesis
483 \fi % end thesis
484
485
486 \ifclsproposal % begin proposal
487
488 % Table with infos
489 \begin{table}[h]
490     \centering
491     \begin{tabularx}{\tubsthesis@tablewidth}{XX}
492         \hline
493         \ifclsgerman % begin german
494             \ifextratitle
495                 Englischer Titel& \titleenglish           \\\hline
496             \fi
497             Anmeldedatum           & \DTMusedate{tubsthesis@begindate} \\\hline
498             Matrikelnummer        & \matrikelnummer           \\\hline
499             E-Mail                 & \mail                     \\\hline
500             Studiengang           & \studysubject             \\

```

```

501         \else % end german / begin english
502             \ifextratitle
503                 German title      & \titlegerman          \\ \hline
504             \fi
505             Registration date    & \DTMusedate{tubsthesis@begindate} \\ \hline
506             Registration number & \matrikelnummer        \\ \hline
507             E-Mail               & \mail                  \\ \hline
508             Subject              & \studysubject      \\
509         \fi % end english
510     \end{tabularx}
511 \end{table}
512
513 \iftubsthesis@presentationpoints % begin presentation points
514     \begin{center}
515         \ifclsgerman % begin german
516             \textlnum{Der Abschlussvortrag geht mit \presentationpoints~Credits in die Absch
517         \else % end german / begin english
518             \textlnum{The presentation contributes \presentationpoints~credit points to the
519         \fi % end english
520     \end{center}
521 \fi % end presentation points
522
523 \else % end proposal / begin thesis
524
525 \cleardoublepage
526
527 \iftubsthesis@diss % begin dissertation
528     \begin{otherlanguage}{ngerman} % begin printing in german for dates
529     \begin{center}
530         \ifclsgerman % begin german
531             {\large \titlegerman}
532         \else % end german / begin english
533             {\large \titleenglish}
534         \fi % end english
535
536         \vspace{1cm}
537
538         \ifthenelse{\boolean{tubsthesis@finalprint}}{Von der}{Der}\linebreak
539         \tubsthesis@faculty \linebreak
540         der Technischen Universität Carolo-Wilhelmina zu Braunschweig \linebreak
541
542         \vspace{.5cm}
543
544         zur Erlangung des Grades \tubsthesis@degreearticle\linebreak
545         \textbf{\tubsthesis@degree}\linebreak
546
547         \vspace{.5cm}
548
549         \ifthenelse{\boolean{tubsthesis@finalprint}}{genehmigte}{vorgelegte}
550         Dissertation\linebreak

```

```

551
552     \vspace{.5cm}
553
554     von\linebreak
555     \name\linebreak
556     geboren am \DTMusedate{tubsthesis@birthdate}\linebreak
557     in \tubsthesis@birthplace\linebreak
558 \end{center}
559
560 \vspace{4cm}
561
562 \begin{tabular}{p{5cm} l}
563     Eingereicht am: & \tubsthesis@date \\
564     Disputation am: & \DTMusedate{tubsthesis@disputationdate} \\
565     1. Referent: & \tubsthesis@professor \\
566     2. Referent: & \tubsthesis@professortwo \\
567 \end{tabular}
568
569 \vspace{1cm}
570
571 \begin{center}
572     \tubsthesis@printyear
573 \end{center}
574
575 \end{otherlanguage} % end german printing
576
577 \pagestyle{headings}
578
579 \tubsthesis@posttitlecontent
580 \else % end dissertation / begin not diss thesis
581     \tubsthesis@posttitlecontent
582
583     % statement of originality
584     \thispagestyle{plain} % no header
585     \vspace*{7cm}
586     \ifclsgerman % begin german
587         \centerline{\bfseries Eidesstattliche Erklärung}
588         \vspace*{1em}
589         \noindent
590         Ich erkläre hiermit an Eides statt, dass ich die vorliegende
591         \thesistype~selbstständig
592         verfasst sowie alle benutzten Quellen und Hilfsmittel
593         vollständig angegeben habe und dass die Arbeit
594         nicht bereits als Prüfungsarbeit vorgelegen hat.
595
596         \par
597         \bigskip\noindent Braunschweig, den \tubsthesis@date \par
598     \else % end german / begin english
599         \centerline{\bfseries Statement of Originality}
600         \vspace*{1em}

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601      \noindent
602      This thesis has been performed independently with the
603      support of my supervisor/s.
604      To the best of the author's knowledge,
605      this thesis contains no material previously
606      published or written by another person except where
607      due reference is made in the text.
608
609      \par
610      \bigskip\noindent Braunschweig, \tubsthesis@date \par
611  \fi % end english
612  \vspace*{10mm}
613  \hfill\hrulefill
614 \fi % end not diss thesis
615 \cleardoublepage
616
617 % abstract
618 \unless\ifclsnoabstract % begin abstract
619   \thispagestyle{plain} % no header
620   \ifclsgerman % begin german
621     \centerline{\bfseries Zusammenfassung}
622     \vspace*{1em}
623     \noindent
624     \mainabstract
625
626     \ifextraabstract % begin extra abstract
627       \vspace*{5em}
628
629       \centerline{\bfseries Abstract}
630       \vspace*{1em}
631       \noindent
632       \extraabstract
633     \fi % end extra abstract
634   \else % end german / begin english
635     \centerline{\bfseries Abstract}
636     \vspace*{1em}
637     \noindent
638     \mainabstract
639
640     % If german abstract was given
641     \ifextraabstract % begin extra abstract
642       \vspace*{5em}
643
644       \centerline{\bfseries Zusammenfassung}
645       \vspace*{1em}
646       \noindent
647       \extraabstract
648     \fi % end extra abstract
649   \fi % end english
650 \cleardoublepage

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651 \fi % end abstract
652
653 \tableofcontents
654 \cleardoublepage
655
656 \unless\ifclsnofigure % begin listoffigures
657     \listoffigures
658     \cleardoublepage
659 \fi % end listoffigures
660
661 \unless\ifclsnooftables % begin listoftables
662     \listoftables
663     \cleardoublepage
664 \fi % end listoftables
665
666 \mainmatter
667
668 \fi % end thesis
669 }{
670 \ifclsproposal % begin proposal
671 \noindent
672 \newpage
673 \ifclsgerman % begin german
674     \chapter{Durchführung und Bearbeitung}
675     Dieses Dokument stellt die Grundlage zur Bearbeitung
676     der \thesistype~dar und beschreibt
677     die vorgesehenen Inhalte und Ziele.
678     Alle Hinweise und Vorschriften des betreuenden Instituts,
679     der Fakultät und der TU Braunschweig werden beachtet.
680 Die Laufzeit beträgt \duration~Monate.
681 \vspace*{10mm}
682 \paragraph{Aufgabenstellung und Betreuung}\hfill\\[3ex]
683 \noindent
684 \begin{tabularx}{\textwidth}{@{}XX}
685 \supervisoronesign
686 \supervisortwosign
687 \supervisorthreesign
688 \tubsthesis@professor & \rule[-0.5ex]{\linewidth}{1pt}\newline\itshape(\signature)
689 \end{tabularx}
690 \vspace*{10mm}
691 \paragraph{Bearbeitung}\hfill\\[3ex]
692 \noindent
693 \begin{tabularx}{\textwidth}{@{}XX}
694 \name & \rule[-0.5ex]{\linewidth}{1pt}\newline\itshape(\signature)
695 \end{tabularx}
696 \else % end german / begin english
697     \chapter{Execution and Editing}
698     This document is the foundation for the \thesistype~and
699     explains the designated contents and goals.
700     All instructions and regulations of the supervising institute,

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701     the faculty and the TU Braunschweig are observed.
702 The duration of the thesis is \duration~months.
703 \paragraph{Task Definition and Supervision}\hfill\\[3ex]
704 \noindent
705 \begin{tabularx}{\textwidth}{@{}XX}
706 \supervisoronesign
707 \supervisortwosign
708 \supervisorthreesign
709 \tubsthesis@professor          & \rule[-0.5ex]{\linewidth}{1pt}\newline\itshape(\signature)
710 \end{tabularx}
711 \vspace*{10mm}
712 \paragraph{Task Execution}\hfill\\[3ex]
713 \noindent
714 \begin{tabularx}{\textwidth}{@{}XX}
715 \name          & \rule[-0.5ex]{\linewidth}{1pt}\newline\itshape(\signature)
716 \end{tabularx}
717 \fi % end english
718 \newpage
719 \fi % end proposal
720
721 \printbibliography
722
723 \unless\ifclsproposal % begin thesis
724
725     \unless\ifclsnoappendix % begin appendix
726         \appendix
727     \fi % end appendix
728 \fi % end thesis
729 }

730 </environment>
731 <*body>
732 </body>

```