The kautools bundle*

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Abstract

The ${\sf kautools}$ bundle provides tools (LMTEX style files) for the ${\sf kauthesis}$ bundle.

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1 Introduction

1.1 The kautitle package

The kautitle package defines an alternative title page using the logo of Karlstad University. Note that this is not an implementation of the Karlstad University

^{*}This document corresponds to kautools v1.8, dated 2013/04/18.

Studies title page, i.e., this alternative title page won't be used for your thesis. The logo is available from

http://www.kau.se/sites/default/files/image/press/kau-logo-tryck.pdf

and must be available in LATEX's search path before using this package.

At the moment, this package uses a manually installed font called aun and it's bold version aub. It might not be available on your system, though, and since the font is licensed, I may not distribute it. If you do not possess the font, you have to switch to another one.

\maketitle \kut@maketitle Load the package without options. The title page can be created using \maketitle. Note that the previous definition of \maketitle is not destroyed, but preserved in the macro \kut@maketitle. You can use it in your document as follows:

\makeatletter \kut@maketitle \makeatother

\setkautitlefont

Two fonts are used on the title page and can be changed using the macro $\startion{setkautitlefont{\langle font\rangle}}$. The argument $\langle font\rangle$ accepts key-value pairs where keys are normalfont and titlefont and values are any sequence of LaTeX's font commands. For switching to your standard sans-serif font, you should add these lines to your preamble:

```
\setkautitle%
{ normalfont=\sffamily\LARGE
, titlefont=\sffamily\bfseries\Huge }
```

1.2 The kaumeta package

The kaumeta package defines three macros, \subject, \institute, and \place, for providing additional meta data about the document and it's author. This meta data can be used, e.g., on the title page of the document.

1.3 The kaulist package

The kaulist package defines pretty printing macros for lists. For instance, a list "1,2,3" is transformed to "1, 2, and 3".

1.4 The kauclear package

This package replaces the macro \cleardoublepage. Empty pages with odd page numbers will not print the page number. Also, the macro \pagestyle is redefined. The new behaviour is to stores the page style for being able to restore it later on.

1.5 The kauenvironments package

This package defines the environments researchquestions and contributions.

1.6 The kauparts package

This packages defines a new \part macro, \kaupart. It is independend of \part, but you should decide yourself for one alternative only. The \kaupart macro adds a cover page for the new part.

Use the package options vshift and vstep to adjust the placement of the thumb indices on the cover pages.

\kaupart

Use $\kaupart[\langle meta \rangle] \{\langle title \rangle\}$ to create a numbered part with the given $\langle title \rangle$. You may use the optional argument $\langle arg \rangle$ for adding meta data. This includes body for typing additional material on the cover page and label for creating a label such as usually created by \label. In addition, the switch tocentry may be set to false, if the macro should not add an entry to the table of contents.

\kaupart*

The starred version of \kaupart works exactly like the unstarred version, but creates an unnumbered part.

1.7 The kaupaper package

Yet no description.

1.8 The kaustudies package

This package sets the page dimensions so that your document does not need to be scaled for printing. It also chooses Garamond as the standard font.

You can use the package option tinyfontswitch=false in order to avoid the switch to sans-serif fonts when using \tiny. The switch is recommended by Karlstad University Studies, though, it is rather debatable whether this is necessary when using IATeX and the correct page dimensions.

1.9 The pgfcropmarks package

The package pgfcropmarks draws crop marks on A4 paper. This is supposed to be the last step after creating all tables, indices, and glosseries. When the package is loaded, IATEX will not create or update any auxiliary files.

2 Implementation

2.1 The kautitle package

No package options are accepted.

- 1 (*title)
- 2 \ProcessOptions\relax

Load dependencies.

- 3 \RequirePackage{xkeyval}
- 5 \RequirePackage{hyphenat}
- 6 \RequirePackage{kaumeta}

\setkautitlefont

The macro \setkautitlefont allows to choose another than the default font for the title page. The title page has only two different font settings, titlefont which is used for the title text and normalfont which is used otherwise.

```
7 \define@cmdkeys[kut] {pkg} [kut@] {normalfont, titlefont}
                 8 \setkeys[kut]{pkg}%
                    { normalfont=\fontfamily{aun}\fontsize{18}{21.6}\selectfont\bfseries
                    , titlefont=\fontfamily{aub}\fontsize{28}{33.6}\selectfont }
                11 \newcommand\setkautitlefont[1]{\setkeys[kut]{pkg}{#1}}
\kut@maketitle
               Preserve the previous version of \maketitle.
                12 \let\kut@maketitle\maketitle
                The title page will consist of two background images (the Karlstad University
                logo), title, subject, author, and author's institute. Everything will be shaded
                except the title.
                13 \renewcommand\maketitle{%
                    \thispagestyle{empty}
                     \begin{tikzpicture}[remember picture, overlay]%
                Clipping the title page to the dimensions of the logical page. This is interesting
                when the physical and the logical page do not have the same dimensions.
                16
                       \path (current page.north west) +(-4pt,4pt) node (NW) {};
                17
                       \path (current page.south east) +(4pt,-4pt) node (SE) {};
                18
                       \path (current page.north west) +(-3pt,3pt) node (NWC) {};
                       \path (current page.south east) +(3pt,-3pt) node (SEC) {};
                19
                       \path[clip] (NWC) rectangle (SEC);
                20
                Background images.
                       \path (current page.south west) node[rotate=243.5] {\pgfimage{kau-logo-tryck}};%
                21
                       \path (current page.north east) node[rotate=175] {\pgfimage{kau-logo-tryck}};%
                ^{22}
                Subject in the upper left corner of the page.
                       \path (current page.north west) node
                24
                         [shift={(10pt,-12pt)},anchor=south west,rotate=270
                25
                         ,font=\kut@normalfont\vphantom{Xy}]
                26
                         {\@subject};
                Institute in the lower right corner of the page.
                       \path (current page.south east) node
                         [shift={(-8pt,6pt)},anchor=north east,rotate=270
                28
                29
                         ,rounded corners,fill=black,text=white,inner sep=8pt
                         ,font=\kut@normalfont\vphantom{Xy}]
                30
                         {\@shortinstitute};
                Title bar on vertically centered on the left side of the page.
                32
                33
                         (current page.east) node[shift={(-10,0)}] (A) {}
                34
                         (current page.east) node[shift={(0,-2.5)}] (B) {}
                35
                         [shading=axis,left color=white,right color=black] (A) rectangle (B.south east)
                36
                Author below the title bar.
                37
                       \path (B) node
                38
                         [anchor=north east
                         ,inner sep=8pt
                39
                         ,text=black
                40
                         ,font=\kut@normalfont\vphantom{Xy}
                41
```

,text width=14cm,text ragged left]

{\@author};

42 43

```
Shading over the entire page (slightly bigger than the clipping).
                            \path[fill=white,opacity=0.90,transparency group] (NW) rectangle (SE);
                    Title text on the title bar. No hyphens are allowed in the title text.
                           \path (B) node
                    45
                              [anchor=south east,shift={(-3pt,0)}
                    46
                              ,text=yellow!75!red
                    47
                              ,font=\kut@titlefont\vphantom{Xy}
                    48
                              ,text width=14cm,text ragged left]
                    49
                    50
                              {\nohyphens{\@title}};
                         \end{tikzpicture}%
                    51
                         \clearpage%
                    52
                    53 }
                    54 (/title)
                    2.2
                            The kaumeta package
                    No package options are parsed.
                    55 (*meta)
                    56 \ProcessOptions\relax
                    Dependencies are loaded.
                    57 \usepackage{ifthen}
                    The macro \subject{\langle subject \rangle} can be used to set the subject of the document.
         \subject
                    The last \langle subject \rangle set will be available in the macro \@subject.
        \@subject
                    58 \newcommand*\@subject{}
                    59 \newcommand\subject[1]{\renewcommand*\@subject{#1}}
                    The macro \institute[\langle short \rangle] \{\langle institute \rangle\}\ can be used to set the institute of
       \institute
                    the document's author. It is possible to provide a shorter version of the institue in
                    the optional argument \langle short \rangle. If not explicitly set, the short version is the same as
                    the long version (institute). The values are available in the macros \@institute
     \@institute
\@shortinstitute
                    and \@shortinstitute.
                    60 \newcommand*\@institute{}
                    61 \newcommand*\@shortinstitute{}
                    62 \newcommand\institute[2][]{%
                         \renewcommand*\@institute{#2}%
                    63
                         \ifthenelse{\equal{#1}{}}{%
                    64
                           \renewcommand*\@shortinstitute{#2}%
                    65
                         }{%
                    67
                           \renewcommand*\@shortinstitute{#1}%
                    68
                         }%
                    69 }
                    The macro \place{\langle place \rangle} can be used to set the place of the document's author.
           \place
                    The last \langle place \rangle set will be available in the macro \Oplace.
          \@place
                    70 \newcommand*\@place{}
                    71 \newcommand\place[1] {\renewcommand*\@place{#1}}
                    \{\langle name \rangle\} sets the supervisor's name for the kaumasters class.
      \supervisor
                    72 \newcommand\@supervisor{}
                    73 \newcommand\supervisor[1] {\renewcommand*\@supervisor{#1}}
```

```
\examiner \{(name)\} sets the examiner's name for the kaumasters class.
             74 \newcommand\@examiner{}
             75 \newcommand\examiner[1] {\renewcommand*\@examiner{#1}}
             76 \langle /meta \rangle
             2.3
                    The kaulist package
             No options are parsed.
             77 (*list)
             78 \ProcessOptions\relax
                For \prettylist, the packages pgffor, pgfmath, and pgfkeys are required.
             79 \RequirePackage{pgffor}
             80 \RequirePackage{pgfmath}
             81 \RequirePackage{pgfkeys}
            defines a comma (","), if one is to be used before "and".
\commasign
             82 \AtBeginDocument{%
                  \@ifpackageloaded{babel}
             84
                    85
                    {\newcommand*\commasign{,}}%
             86 }
             definses the word used as "and".
   \andname
             87 \AtBeginDocument{%
                 \@ifpackageloaded{babel}
                    {\newcommand*\andname{\iflanguage{swedish}{och}{and}}}}%
             89
                    {\newcommand*\andname{and}}%
             91 }
\prettylist \{\langle list \rangle\} transformes a comma separated list into a list in natural language.
             92 \newcommand\prettylist[1]{%
             The number of list elements is stored in \num.
                 \foreach[count=\xi] \x in #1 {}%
                 \left| \right| xi\%
             The first element is just printed without any changes.
                  \foreach[count=\xi] \x in #1 {%
             96
                    \ifnum \xi=1%
             97
             The last element is printed with preceding \commasign, if there are more than
             two elements in the list, and otherwise without.
             98
                      \ifnum \xi=\num%
             99
                        \ifnum \num=2%
            100
                          {} \andname{} \x%
            101
            102
                        \else%
                          \commasign{} \andname{} \x%
            103
                        \fi%
            104
```

```
Elements in between the first and the last one are printed with a preceding hard-
coded comma sign (not \commasign).
```

```
\else%
105
106
             , \x%
           \fi%
107
        \fi%
108
109
     }%
110 }%
111 (/list)
```

2.4 The kauclear package

```
No options are parsed.
```

```
112 (*clear)
113 \ProcessOptions\relax
```

\kuc@currentpagestyle The page style is stored in \kuc@currentpagestyle. Default: plain

114 \newcommand\kuc@currentpagestyle{plain}

\pagestyle The macro \pagestyle is redefined to update the page style in \kuc@currentpagestyle.

```
115 \let\pagestyle@orig\pagestyle
116 \renewcommand\pagestyle[1]{%
    \renewcommand\kuc@currentpagestyle{#1}%
     \pagestyle@orig{#1}%
119 }
```

\kuc@restorepagestyle

The page style can be restored with \kuc@restorepagestyle after (temporarily) switching to another one using \pagestyle@orig.

```
120 \newcommand\kuc@restorepagestyle{%
     \pagestyle@orig{\kuc@currentpagestyle}%
121
```

\cleardoubpage@orig

The previous definition of \cleardoublepage is preserved in \cleardoublepage@orig. 123 \let\cleardoubpage@orig\cleardoublepage

\cleardoublepage

The macro \cleardoublepage is redefined. The new definition switches temporarily to the page style empty.

```
124 \renewcommand\cleardoublepage{%
125
     \clearpage%
      \pagestyle@orig{empty}%
126
      \cleardoubpage@orig%
127
128
     \kuc@restorepagestyle%
129 }
130 \langle / clear \rangle
```

2.5 The kauenvironments package

No package options are parsed.

```
131 (*environments)
132 \ProcessOptions\relax
```

```
Load dependencies.
                    133 \RequirePackage{xspace}
                    134 \RequirePackage{xcolor}
                    The environment is an enumeration derived from enumerate. The argument of
researchquestions
                     \forall item[\langle question \rangle] is used to formulate the research question.
                    135 \newenvironment{researchquestions}%
                         {\begin{enumerate}%
                    137
                            \let\kue@item\item%
                            \renewcommand\item[1][Research question]%
                    138
                              {\kue@item\emph{##1}\nopagebreak\par}%
                    139
                        ጉ%
                    140
                         {\end{enumerate}}%
                    141
                    The environment is an enumeration derived from enumerate. The argument of
    contributions
                     \texttt{(item[(}contrib\texttt{)]} is used to formulate the contribution.
                    142 \newenvironment{contributions}%
                         {\begin{enumerate}%
                    144
                            \let\kue@item\item%
                    145
                            \renewcommand\item[1][%
                              \textcolor{red}{\emph{write your contribution between brackets
                    146
                                as optional argument of \texttt{\string\item}.}}]%
                    147
                              {\kue@item\emph{##1}\xspace}%
                    148
                         }%
                    149
                         {\end{enumerate}}%
                    150
                    151 (/environments)
                            The kauparts package
                     2.6
                    _{152}~\langle *\mathsf{parts}\rangle
                    153 \RequirePackage{xkeyval}
                    155 \define@cmdkeys[kup]{pkg}[kup@]{vshift,vstep}
                    156 \setkeys[kup] {pkg}{vshift=2, vstep=0.8}
                    158 \ProcessOptionsX[kup] < pkg>
                    159
                    160 \RequirePackage{calc}
                    161 \RequirePackage{ifthen}
                    162 \RequirePackage{suffix}
                    163 \RequirePackage{tikz}
                    164 \usetikzlibrary{positioning}
```

\path[node distance=1ex] (current page.north east) +(3pt,\kup@vshift+\kup@vstep*\arabic{kup@

166 \define@cmdkeys[kup]{part}[kup@]{body,label}
167 \define@boolkeys[kup]{part}[kup@]{tocentry}

169 \newcounter{kup@part}
170 \newcounter{kup@vertical}
171 \setcounter{kup@vertical}{0}

node%

173 \newcommand\kup@partheadline[2]{%

172

174 175

```
176
                                                          [ anchor=north east%
                                                          , minimum width=2cm+3pt%
                              177
                                                         %, minimum height=7mm%
                              178
                                                         %, draw=black%
                              179
                                                         %, fill=black%
                              180
                                                          , left color=white%
                              181
                                                          , right color=black%
                               182
                               183
                                                          , text=white%
                                                          , font=\LARGE\bfseries%
                               184
                                                         ] (bar) {#1}%
                               185
                                                   node[base left=of bar,font=\LARGE\bfseries] {#2};%
                              186
                              187 }
   \kaupart
                              188 \newcommand\kaupart[2][]{%
                                             \cleardoublepage%
                              189
                              190
                                             \thispagestyle{plain}%
                                             \stepcounter{kup@part}%
                              191
                                            \setkeys[kup]{part}{body=\relax,label=,tocentry=true,#1}%
                              192
                                            \ifkup@tocentry%
                               194
                                             \addcontentsline{toc}{part}{\numberline{\Roman{kup@part}}\textsc{#2}}%
                               195
                                             \fi%
                                             \renewcommand\@currentlabel{\Roman{kup@part}}%
                              196
                                              \label{$\ \equal{\kup@label}{}} {\ \equal{\kup@label}} % \ \equal{\kup@label}{\ \equal} % \ \equal{\kup@label}
                              197
                                              \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
                              198
                                                   \wave{$\mathbb{R}$ analoge} \wave{$\mathbb{R}$ analoge
                              199
                                              \end{tikzpicture}%
                              200
                              201
                                              \kup@body
                              202
                                              \stepcounter{kup@vertical}%
                              203
                                              \cleardoublepage%
                              204 }
\kaupart*
                              205 \WithSuffix\newcommand\kaupart*[2][]{%
                              206
                                             \cleardoublepage%
                              207
                                              \thispagestyle{plain}%
                              208
                                              \setkeys[kup]{part}{body=\relax,tocentry=true,#1}%
                              209
                                             \ifkup@tocentry%
                                                  \addcontentsline{toc}{part}{\textsc{#2}}%
                              210
                              211
                                              \begin{tikzpicture}[remember picture,overlay,yscale=-1]%
                              212
                              213
                                                   \kup@partheadline{\vphantom{X}}{#2}%
                                              \end{tikzpicture}%
                              214
                                              \kup@body
                              215
                                             \stepcounter{kup@vertical}%
                              216
                                              \cleardoublepage%
                              217
                              218 }
                              219 (/parts)
                                 2.7
                                                    The kaupaper package
                              220 \langle *paper \rangle
                              221 \RequirePackage{xkeyval}
                              222
```

```
223 \define@cmdkeys[kua]{paper}[kua@]{author,title,subtitle,reference,email,refstr,vanity,subdelin
224 \setkeys[kua]{paper}{refstr=\reprintedname}
226 \ProcessOptionsX[kua] <paper>
227
228 \RequirePackage{kauparts}
229 \RequirePackage{ifthen}
230 \RequirePackage{tikz}
231
232 \RequirePackage{ragged2e}
233 \RequirePackage{hyphenat}
234
235 \AtBeginDocument{%
           \@ifpackageloaded{babel}%
236
                {\newcommand*\reprintedname{%
237
                     \iflanguage{swedish}{Ursprungligen publicertad i}{Reprinted from}}%
238
                   \newcommand*\appendedpapersname{%
239
                     \iflanguage{swedish}{Bifogade publiceringar}{List of Appended Papers}}%
240
^{241}
                   \newcommand*\participationname{%
                     \iflanguage{swedish}{Kommentarer p\aa{} min medverka}{Comments on my Participation}}%
^{242}
243
                   \newcommand*\papername{%
                     \iflanguage{swedish}{Publicering}{Paper}}%
244
                }%
245
                {\newcommand*\reprintedname{Reprinted from}%
246
                  \newcommand*\appendedpapersname{List of Appended Papers}%
247
                  \verb|\newcommand*\participationname{Comments on my Participation}|| % \cite{All the model} %
248
                  \newcommand*\papername{Paper}%
249
                }%
250
251 }
252
253 \newcounter{kua@section}
254 \newcounter{kua@equation}
255 \newcounter{kua@figure}
256 \newcounter{kua@table}
257
258 \newcounter{kua@paper}
260 \providecommand\thepaper{}
261 \providecommand\thepapertitle{}
263 \newcommand\kua@warning\relax
264 \newcommand\kua@dowarn{\gdef\kua@warning{\@latex@warning@no@line{List data created from the ka
265 \AtEndDocument{\kua@warning}
266
267 \newcommand\kua@listof[4]{%
           \IfFileExists{\jobname.#1}%
268
269
                {% check whether empty file
                     \newread\reader%
270
                     \openin\reader\jobname.#1%
271
272
                    \read\reader to \readmacro%
273
                    \ifeof\reader%
274
                         \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
275
                         \@starttoc{#1}%
```

276

%\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%

```
\kua@dowarn%
              277
              278
                       \else% file not empty -> create list
                         #3\@starttoc{#1}#4%
              279
              280
                       \fi%
              281
                     {% file does not exist
              282
                       \textcolor{red}{\ldots{} will be available after the next \LaTeX{} run.}%
              283
              284
                       \@starttoc{#1}%
                       %\AtEndDocument{\@latex@warning@no@line{Rerun to get the list of #2 right}}%
              285
                       \kua@dowarn%
              286
                     }%
              287
              288 }
\listofpapers
              289 \newcommand\listofpapers{%
                   \section*{\appendedpapersname}%
                   \addcontentsline{toc}{section}{\appendedpapersname}%
              292
                   \kua@listof{pap}{appended papers}{%
                     \begin{enumerate}%
              293
                     294
                   }{\end{enumerate}}%
              295
                   \subsection*{\participationname}
              296
              297
                   \kua@listof{pcp}{participation in appended papers}{}{}%
              298 }
              300 \newcommand\l@paper[2]{%
              301
                   \item #1%
              302 }
              303
              304 \newcommand\listofsummaries{%
                   \kua@listof{sum}{paper summaries}{}{}%
              305
              306 }
              307
              308 \newcommand\l@summary[2]{%
                   #1\par%
              309
              310 }
              311
              312 \newcommand\l@limit[2]{%
                   %\paragraph{Limitations.}
              313
              314
                   #1%
              315 }
              316
              317 \newcommand\l@participation[2]{%
              318
                   #1%
              319 }
              320
              321 \newcommand\papercover{%
                   \begin{tikzpicture}[remember picture,overlay]%
              323
                     \path (current page.center)%
                       node%
              324
                         [ node distance=\baselineskip%
              325
                         , text width=\textwidth%
              326
                         , text centered%
              327
                         ] (refstr) {\kua@refstr};%
```

328

```
\ifthenelse{\equal{\kua@subtitle}{}}{%
329
          \node%
330
            [ node distance=1.5\baselineskip%
331
            , above=of refstr%
332
333
            , text width=\textwidth%
            , text centered%
334
             font=\LARGE\bfseries%
335
            336
        }{%
337
          \n
338
            [ node distance=1.5\baselineskip%
339
             above=of refstr%
340
            , text width=\textwidth%
341
            , text centered%
342
            , font=\large\bfseries%
343
            ] (sub) {\nohyphens{\kua@subtitle}};%
344
345
            [ node distance=1pt%
346
347
             above=of sub%
348
             text width=\textwidth%
349
             text centered%
             font=\LARGE\bfseries%
350
            [ ] {\nohyphens{\kua@title}};%
351
        }%
352
        \node%
353
          [ node distance=\baselineskip%
354
          , below=of refstr%
355
          , text width=\textwidth%
356
          , text centered%
357
358
           font=\large%
          [ ] {\nohyphens{\kua@reference}}%
359
      ;%
360
361
    \end{tikzpicture}%
362 }
363
364 \newenvironment{kaupaper}[1][]{%
    \setcounter{kua@section}{\value{section}}%
365
366
    \setcounter{kua@equation}{\value{equation}}%
    \setcounter{kua@figure}{\value{figure}}%
368
    \setcounter{kua@table}{\value{table}}%
369
    \setcounter{section}{0}%
370
    \setcounter{equation}{0}%
371
    \setcounter{figure}{0}%
372
    \setcounter{table}{0}%
    \setkeys[kua] {paper}{subtitle=,vanity=,subdelimiter={---},label=,summary={\string\textcolor-
373
    \setcounter{kua@paper}{\value{kup@part}}\stepcounter{kua@paper}%
374
375
    \ifthenelse{\equal{\kua@subtitle}{}}%
      {\addcontentsline{pap}{paper}{\kua@author. \kua@title. In \kua@reference}%
376
       \addcontentsline{toc}{part}{\textsc{\papername} \Roman{kua@paper}\\\kua@title}}%
377
378
      379
       \addcontentsline{toc}{part}{\textsc{\papername} \Roman{kua@paper}\\\kua@title\kua@subdel:
    380
381
    \addcontentsline{sum}{limit}{\kua@limitations}}%
382
```

```
383
                 \kaupart[tocentry=false,label=\kua@label,body=\papercover\kua@vanity]{\papername}%
384
                 \renewcommand*\thepaper{\papername~\Roman{kua@paper}}%
385
                 \renewcommand*\thepapertitle{\kua@title}%
386
                 \renewcommand\maketitle{%
387
                       \thispagestyle{plain}%
388
                       \centering%
389
390
                              \Large\bfseries%
                              \vspace*{0.15\textheight}%
391
                              \kua@title\par%
392
                              \addvspace{1ex}%
393
                              \label{large-kua@subtitle}{}{}{\large-kua@subtitle}% $$ \end{align* $$ \end{align* } $$ $$ \end{align* } $$ \end{align* $$ $$ $$ $$ \end{align* } $$ $$ \end{align* } $$ \end{
394
                              \par\addvspace{\baselineskip}%
395
                              \normalsize%
396
                              \kua@author\\[0.25\baselineskip]%
397
398
                              \normalfont%
                              \kua@email%
399
400
                        \par\addvspace{2\baselineskip}\justifying%
               }%
401
402 }{%
                \setcounter{section}{\value{kua@section}}%
403
                 \setcounter{equation}{\value{kua@equation}}%
404
                 \setcounter{figure}{\value{kua@figure}}%
405
                \setcounter{table}{\value{kua@table}}%
406
407
                \clearpage%
408 }
 409 (/paper)
```

2.8 The kaustudies package

```
410 (*studies)
411 \RequirePackage{xkeyval}
413 \define@boolkey[kus]{pkg}[kus@]{tinyfontswitch}[true]{}
415 \texttt{\presetkeys[kus]{pkg}{tinyfontswitch}{}}
416 \ProcessOptionsX[kus] < pkg>
417
418 \RequirePackage[twoside]{geometry}
419 \ensuremath{\mbox{\sc RequirePackage[urw-garamond]{mathdesign}}}
421 \geometry
     { paperwidth=165mm
422
     , paperheight=242mm
424
      , inner=27mm
425
      , outer=27mm
426
     , top=24mm
     , bottom=22mm
427
428
429
430 \ifkus@tinyfontswitch
     \let\kus@tiny@orig\tiny
     \renewcommand*\tiny{\sffamily\kus@tiny@orig}
433 \fi
```

```
434 (/studies)
```

2.9 The pgfcropmarks package

```
No options are parsed.
              435 (*crop)
              436 \ProcessOptions\relax
              437 \RequirePackage{pgfpages}%
              No files are created or updated.
              438 \nofiles%
              Boolean, true on odd pages.
              439 \newif\if@kus@isodd%
              440 \@kus@isoddtrue%
\cropmarklen The length of the crop mark lines.
              441 \newlength{\cropmarklen}\setlength{\cropmarklen}{40pt}%
              The space between cropmark and paper edge.
\cropmarksep
              442 \newlength{\cropmarksep}\setlength{\cropmarksep}{15pt}%
              The cropmark page layout.
              443 \pgfpagesdeclarelayout{cropmarks}%
             444 {%
             445 }%
             446 {%
             447
                   \pgfpagesphysicalpageoptions%
             448
                   {%
             449
                     logical pages=1,%
                     physical height=297mm,%
             450
                     physical width=210mm%
             451
             452
             453
                   \pgfpageslogicalpageoptions{1}%
              454
                   {%
                     border code=%
              455
                       \if@kus@isodd
              456
                         \global\@kus@isoddfalse
              457
              458
                         \pgfsetlinewidth{0.6pt}%
                         \pgfusepath{discard}%
             459
                         \pgfmoveto{\pgfpoint{-\cropmarksep}{0pt}}%
             460
                           \pgflineto{\pgfpoint{-\cropmarklen}{0pt}}%
              461
                         \pgfmoveto{\pgfpoint{0pt}{-\cropmarksep}}%
             462
                           \pgflineto{\pgfpoint{0pt}{-\cropmarklen}}%
              463
              464
                         \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{0pt}}%
              465
                           \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}{0pt}}%
                         \pgfmoveto{\pgfpoint{\paperwidth}{-\cropmarksep}}%
              466
              467
                           \pgflineto{\pgfpoint{\paperwidth}{-\cropmarklen}}%
              468
                         \pgfmoveto{\pgfpoint{-\cropmarksep}{\paperheight}}%
              469
                           \pgflineto{\pgfpoint{-\cropmarklen}{\paperheight}}%
                         \pgfmoveto{\pgfpoint{0pt}{\paperheight+\cropmarksep}}%
             470
                           \pgflineto{\pgfpoint{0pt}{\paperheight+\cropmarklen}}%
             471
                         \pgfmoveto{\pgfpoint{\paperwidth}{\paperheight+\cropmarksep}}%
              472
             473
                           \pgflineto{\pgfpoint{\paperwidth}{\paperheight+\cropmarklen}}%
             474
                         \pgfmoveto{\pgfpoint{\paperwidth+\cropmarksep}{\paperheight}}%
```

```
475 \pgflineto{\pgfpoint{\paperwidth+\cropmarklen}{\paperheight}}%
476 \pgfusepath{stroke}%
477 \else
478 \global\@kus@isoddtrue
479 \fi,%
480 center=\pgfpoint{.5\pgfphysicalwidth}{.5\pgfphysicalheight}%
481 }%
482 }%
Activate the cropmark page layout.
483 \pgfpagesuselayout{cropmarks}%
484 \/crop\
```

Change History

v1.0	v1.5
General: SBe's licentiate version 1	General: Added templates for kau-
v1.1	collection and kaureport 1
General: Initial public release 1	v1.6
v1.2	General: Merged the styles' dtx
General: Support for babel.sty,	files 1
Documentation added 1	v1.7
v1.3	General: Added macros for supervi-
General: Merged the classes' dtx	sor and examiner in kaumeta \dots 1
files 1	v1.8
v1.4	General: Added macros pretty
General: Fixed babel.sty support . 1	printing lists in kaulist 1

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