

# The `tlgart` package\*

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## 1 Introduction

The `tlgart` package is provided for authors of articles to appear in collections in the book series “Texts in Logic and Games”, published by Amsterdam University Press. It was written by Joel Uckelman. Deviations from standard L<sup>A</sup>T<sub>E</sub>X are few and noted below.

## 2 Usage

### 2.1 Frontmatter

#### 2.1.1 Document class and required packages

The `tlgart` package is intended for use with the `book` document class. `tlgart` loads the following packages: `amsthm`, `amssymb`, and `geometry`. If you want to add other packages, load them before the `\usepackage{tlgart}` line. Please use as few packages as possible, and use them only if absolutely necessary. This means that your paper should begin with the following lines:

```
\documentclass{book}
\usepackage{your packages}
\usepackage{tlgart}
```

#### 2.1.2 Title & author information

The following commands are provided for specifying title and author information to be placed in the title block of your article:

```
\title{short title}{full title}
\author{short name}{full name}
\address{author's address}
\email{email address}
```

---

\*This document corresponds to `tlgart` v0.3.2, dated 2008/08/26.

The short form of the author's name will appear in the running heads on even pages of the article, while the short form of the article's title will appear on odd pages. Please include your first name in the full name, and use initials in the short name (see example below).

Line breaks (`\`) may appear in the full title, full name, author's address and email address, as necessary. `\thanks{<text>}` may appear in the full name argument of `\author`. For articles with multiple authors, give full names separated by `\and` and short names separated by commas. Separate multiple addresses by `\and`, and reference addresses using `\addr{<number>}`.

Please enter your address in the format

```

<Address> \
<University> \
<Postal Address> \
<City & ZIP Code>, <Country>

```

adding additional lines if necessary and appropriate. Please use the full name of your institute (no abbreviations) and the official name of your university (in the example below, "Rheinische Friedrich-Wilhelms-Universität Bonn" instead of "Universität Bonn"). Do not translate the name of your institute and university unless the original name uses a different alphabet. As an example, the following code

```

\title{An Example Paper}
      {An Example Paper for the \texttt{tlgart} Documentation}
\author{B.~L~"owe, J.~Uckelman}
      {Benedikt L~"owe\addr{1,2} \and Joel Uckelman\addr{1}}
\address{Institute for Logic, Language and Computation \
      Universiteit van Amsterdam\
      Plantage Muidergracht 24\
      1018 TV Amsterdam, The Netherlands
      \and
      Mathematisches Institut\
      Rheinische Friedrich-Wilhelms-Universit~"at Bonn\
      Beringstra~"e 1\
      53115 Bonn, Germany}
\email{\{bloewe,juckelma\}@illc.uva.nl}

```

produces the following in the title block:

---

## An Example Paper for the tlgart Documentation

Benedikt Löwe<sup>1,2</sup>

Joel Uckelman<sup>1</sup>

<sup>1</sup> Institute for Logic, Language and Computation  
 Universiteit van Amsterdam  
 Plantage Muidergracht 24

1018 TV Amsterdam, The Netherlands

<sup>2</sup> Mathematisches Institut  
Rheinische Friedrich-Wilhelms-Universität Bonn  
Beringstraße 1  
53115 Bonn, Germany  
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`\title`, `\author`, `\address`, and `\email` must be specified *prior* to the `\maketitle` command, since `\maketitle` uses the values specified there to construct the title block, table of contents entry and bibliographic information in the footer of the title page.

### 2.1.3 Macros

Please enter your personal macros after the title and author information and before `\begin{document}`. Please include only macros that you are actually using.

## 2.2 Sectioning

### 2.2.1 The `\maketitle` command

The `\maketitle` command is used right after `\begin{document}` to create the title block for your article, and takes no arguments. It should appear in your article exactly once. `\maketitle` also sets up the running heads and inserts the article into the Table of Contents, using the information provided in `\title`, `\author`, `\address`, and `\email`.

### 2.2.2 The abstract environment

Put your abstract in the `abstract` environment, following the `\maketitle` command. Usage is unchanged from the `article` class.

### 2.2.3 The `\part` & `\chapter` commands

Do not use `\part` or `\chapter` in your article. They are reserved for higher-level structure of volumes.

### 2.2.4 `\section` & co.

All subchapter sectioning commands (`\section`, `\subsection`, `\subsubsection`, `\paragraph`, `\subparagraph`, and their starred versions) may be used as usual.

### 2.2.5 References

Please use `BIBTEX` for your bibliographies. A bibliography may be produced in the standard way by setting a `\bibliographystyle` and importing the bib file using the `\bibliography` command.

## 2.2.6 Appendices

Put appendices after the references. Use the `\appendix` command to switch to appendix numbering. For a single unlettered appendix, called “Appendix”, use `\section*{Appendix}`. For multiple appendices, called “Appendix A”, “Appendix B”, ..., begin each appendix with `\section{}`.

## 2.3 Displayed Text

### 2.3.1 Theorem-like environments

Using the `amsthm` package, we have defined the following theorem-like environments:

<code>assumption</code>	<code>criterion</code>	<code>problem</code>
<code>axiom</code>	<code>definition</code>	<code>proposition</code>
<code>case</code>	<code>example</code>	<code>remark</code>
<code>claim</code>	<code>exercise</code>	<code>solution</code>
<code>conclusion</code>	<code>fact</code>	<code>subclaim</code>
<code>condition</code>	<code>lemma</code>	<code>summary</code>
<code>conjecture</code>	<code>notation</code>	<code>remark</code>
<code>convention</code>	<code>note</code>	<code>theorem</code>
<code>corollary</code>	<code>observation</code>	

Please use these. By default, all theorem-like environments are numbered by section and sequentially in the same series. That is, Theorem 3.43 will follow Observation 3.42.

If your article requires some theorem-like environment not defined here, you may define new ones using `\newtheorem{<envname>}[<counter>]{<label>}`. For example, `\newtheorem{garbage}[theorem]{Garbage}` will define a `garbage` environment, instances of which will be numbered in sequence with the theorems.

Every theorem-like environment takes an optional argument which can be used to supply an annotation. E.g., this code

```
\begin{theorem}[Fermat]
  For integers  $n > 2$ , the equation  $a^n + b^n = c^n$ 
  has no nonzero integer solutions.
\end{theorem}
```

will produce

**Theorem 2.1** (Fermat). For integers  $n > 2$ , the equation  $a^n + b^n = c^n$  has no nonzero integer solutions.

Our standard numbering is by section. If you wish to have one numbering for the entire article (not resetting at the begin of each section), please use the command `\numberingbyarticle`. This has to be done for articles without sections, and could also be useful for other short articles. The theorem label for the above example would then read “**Theorem 1 (Fermat)**.”, assuming that there are no theorem-like environments before it.

For more advanced usage of theorem-like environments, please see the documentation for the `amsthm` package.

### 2.3.2 Proof environments

The `proof` and `proofof` environments may be used for enclosing proofs:

```
\begin{proof}[\langle label \rangle] ... \end{proof}
\begin{proofof}[\langle label \rangle]{\langle qedlabel \rangle} ... \end{proofof}
```

In both cases, the optional  $\langle label \rangle$  defaults to *Proof* if not specified. The `proofof` environment extends `proof` by offering a labelled Q.E.D. at the end of the proof.

This code:

```
\begin{proof}Omitted due to space constraints.\end{proof}
\begin{proof}[Proof of Lemma] Suppose that\ldots\end{proof}
\begin{proof}[Proof (Sketch)] The idea is that\ldots\end{proof}
\begin{proofof}{Theorem 1}Proceed by induction\ldots\end{proofof}
\begin{proofof}[Proof of Claim]{Claim}This proves the claim.\end{proofof}
```

produces the following:

<i>Proof.</i> Omitted due to space constraints.	Q.E.D.
<i>Proof of Lemma.</i> Suppose that...	Q.E.D.
<i>Proof (Sketch).</i> The idea is that...	Q.E.D.
<i>Proof.</i> Proceed by induction...	Q.E.D. (Theorem 1)
<i>Proof of Claim.</i> This proves the claim.	Q.E.D. (Claim)

For more advanced usage of the `proof` environment, please see the documentation for the `amsthm` package.

## 2.4 Tables and figures

Please use the `table` and `figure` environments for your tables and figures. Tables and figures are numbered each with their own counter, which resets at the start of every article. If there are  $n$  tables and  $m$  figures in article, they will be numbered  $1, \dots, n$  and  $1, \dots, m$ , respectively.

## 2.5 Replaced symbols

The symbols  $\emptyset$ ,  $\phi$ ,  $\epsilon$ , and  $\theta$  have been replaced by  $\varnothing$ ,  $\varphi$ ,  $\varepsilon$ , and  $\vartheta$ . The originals are now produced by `\origemptyset`, `\origphi`, `\origepsilon`, and `\origtheta`.

## 2.6 Everything else

Anything not mentioned here is unchanged usage-wise from standard L<sup>A</sup>T<sub>E</sub>X.

### 3 Implementation

This is the implementation of the `tlgart` package. It is rather ugly at present. Suggestions for improvement are welcome.

```
1
2 % zap linebreaks
3 \newcommand{\OneLine}[1]{%
4   \begingroup
5     \def\{\unskip}\space\ignorespaces}%
6     #1%
7   \endgroup}
8
9 % useful for galley proofs
10 % \RequirePackage{vruler}
11 % \setvruler[ ] [ ] [ ] [ ] [ ] [1.5em]
12
13 %
14 % no headers on left-side pages following
15 % articles which end on right-side pages
16 %
17 \newcommand{\clearemydoublepage}%
18   {\newpage\thispagestyle{empty}\cleardoublepage}
19
20 %
21 % we get better spacing on pages this way
22 %
23 \raggedbottom
24
25 %
26 % frontmatter, mainmatter, backmatter
27 %
28 \renewcommand\frontmatter{\clearemydoublepage%
29   \@mainmatterfalse
30   \pagestyle{headings}
31   \pagenumbering{arabic}}
32
33 \renewcommand\mainmatter{\clearemydoublepage%
34   \@mainmattertrue
35   \pagestyle{headings}}
36
37 \renewcommand\backmatter{\clearemydoublepage%
38   \@mainmatterfalse}
39
40
41 %
42 % title header
43 %
44 \newif\ifTitle
45 \renewcommand{\thanks}[1]{%
```

```

46 \ifTitle{%
47   \renewcommand{\thefootnote}{\fnsymbol{footnote}}%
48   \footnote{#1}%
49   \renewcommand{\thefootnote}{\arabic{footnote}}}%
50 \else\null\fi}
51
52 \renewcommand{\title}[2]{%
53   \gdef\@title{\OneLine{#2}}
54   \gdef\@titledisplay{#2}
55   \gdef\@shorttitle{#1}
56 }
57 \def\@title{}
58 \def\@titledisplay{}
59 \def\@shorttitle{}
60
61 \newcounter{@ShowAddrLabel}
62 \setcounter{@ShowAddrLabel}{0}
63
64 \renewcommand{\author}[2]{%
65   \def\and{\unskip}\ignorespaces\ifTitle{ {\protect\phantom j}\[1mm]}else{, }\fi}
66   \def\addr##1{\unskip}\ignorespaces\ifTitle{${\##1}$}\else\null\fi\protect\setcounter{@Show}
67   \gdef\@author{#2}
68   \gdef\@shortauthor{#1}
69 }
70 \def\@author{}
71 \def\@shortauthor{}
72
73 \newcounter{@addr}
74 \newcommand{\address}[1]{%
75   \setcounter{@addr}{1}
76   \gdef\@address{%
77     \ifnum\the@ShowAddrLabel >0{%
78       \def\and{\[2mm]\stepcounter{@addr}${\the@addr}$\enspace\ignorespaces}
79       ${\the@addr}$\enspace\ignorespaces #1}
80     \else{%
81       \def\and{\[2mm]\ignorespaces}
82       #1}
83     \fi
84   }
85 }
86 \def\@address{}
87
88 \newcommand{\email}[1]{\gdef\@email{\[1mm]\texttt{#1}}}
89 \def\@email{}
90
91 \renewcommand{\maketitle}{%
92   \clearemydoublepage
93   \label{FirstPage}
94   \Titletrue
95   \refstepcounter{chapter}

```

```

96 \thispagestyle{copy}%
97 \begingroup
98   \parindent 0pt
99   \hrulefill \linebreak \null \vspace{-8pt}\par
100   {\Large\textbf{\@titledisplay}
101
102   }
103   \vspace{5mm}
104   {\large\@author}\[3mm]
105   \fontsize{8}{9}\selectfont\@address
106   \@email\par
107   \nobreak
108   \hrulefill \linebreak \null \vspace{-8pt}\par
109 \endgroup
110 \vspace*{10pt}
111 \@thanks
112 \setcounter{footnote}{0}
113 \Titlefalse
114 \addcontentsline{toc}{chapter}{\@title\protect\ \emph{\@author}}
115 \main
116 \renewcommand{\leftmark}{\@shortauthor}
117 \renewcommand{\rightmark}{\@shorttitle}
118 }
119
120 %
121 % copyright slug
122 %
123 \newif\ifCollection
124
125 \def\publisher#1{\gdef\@publisher{#1}}
126 \def\@publisher{}
127
128 \def\seriestitle#1{\gdef\@seriestitle{#1}}
129 \def\@seriestitle{}
130
131 \def\editor#1{\gdef\@editor{#1}}
132 \def\@editor{}
133
134 \def\volumetitle#1{\gdef\@volumetitle{#1}}
135 \def\@volumetitle{}
136
137 \def\volumetitlesep#1{\gdef\@volumetitlesep{#1}}
138 \def\@volumetitlesep{}
139
140 \def\volumesubtitle#1{\gdef\@volumesubtitle{#1}}
141 \def\@volumesubtitle{}
142
143 \def\volumeyear#1{\gdef\@volumeyear{#1}}
144 \def\@volumeyear{}
145

```



```

146 \def\volumenumber#1{\gdef\@volumenumber{#1}}
147 \def\@volumenumber{}
148
149 % FIXME: Will there ever be single-page articles? Maybe.
150
151 \def\CopyrightContent{%
152   \ifCollection{\parbox[t]{\textwidth}{%
153     \scriptsize \@editor. \textit{\@volumetitle}\@volumetitlesep}\@volumesubtitle}} \@
154   \else\null\fi
155 }
156
157 %
158 % running heads
159 %
160 \def\ps@copy{%
161   \def\@oddfoot{\CopyrightContent}%
162   \def\@evenfoot{\CopyrightContent}%
163   \let\@evenhead\@empty%
164   \let\@oddhead\@empty}
165
166 \def\ps@headings{%
167   \let\@oddfoot\@empty%
168   \let\@evenfoot\@empty%
169   \def\@evenhead{\fontsize{8}{9}\selectfont%
170     \thepage\hfil\leftmark}%
171   \def\@oddhead{\fontsize{8}{9}\selectfont%
172     \rightmark\hfil\thepage}}
173
174 \pagestyle{headings}
175
176 %
177 % theorem-like environments
178 %
179 \newtheoremstyle{tlg}%          name
180   {\topsep}%                  space above
181   {\topsep}%                  space below
182   {\rm}%                      body text
183   {}%                          indent
184   {\bfseries}%                head text
185   {.}%                          punctuation after head
186   {0.5em}%                    space after head
187   {}%                          head spec
188
189 \theoremstyle{tlg}
190
191 \newtheorem{theorem}{Theorem}[section]
192
193 \newtheorem{assumption}[theorem]{Assumption}
194 \newtheorem{axiom}[theorem]{Axiom}
195 \newtheorem{case}[theorem]{Case}

```

```

196 \newtheorem{claim}[theorem]{Claim}
197 \newtheorem{conclusion}[theorem]{Conclusion}
198 \newtheorem{condition}[theorem]{Condition}
199 \newtheorem{conjecture}[theorem]{Conjecture}
200 \newtheorem{convention}[theorem]{Convention}
201 \newtheorem{corollary}[theorem]{Corollary}
202 \newtheorem{criterion}[theorem]{Criterion}
203 \newtheorem{definition}[theorem]{Definition}
204 \newtheorem{example}[theorem]{Example}
205 \newtheorem{exercise}[theorem]{Exercise}
206 \newtheorem{fact}[theorem]{Fact}
207 \newtheorem{lemma}[theorem]{Lemma}
208 \newtheorem{notation}[theorem]{Notation}
209 \newtheorem{note}[theorem]{Note}
210 \newtheorem{observation}[theorem]{Observation}
211 \newtheorem{problem}[theorem]{Problem}
212 \newtheorem{proposition}[theorem]{Proposition}
213 \newtheorem{question}[theorem]{Question}
214 \newtheorem{remark}[theorem]{Remark}
215 \newtheorem{solution}[theorem]{Solution}
216 \newtheorem{subclaim}[theorem]{Subclaim}
217 \newtheorem{summary}[theorem]{Summary}
218
219 \renewcommand\thetheorem{\thesection.\arabic{theorem}}
220
221 \def\@removefromreset#1#2{%
222   \expandafter\let\csname c@#1\endcsname\@removefromreset
223   \def\@elt##1{%
224     \expandafter\ifx\csname c@##1\endcsname\@removefromreset
225     \else
226       \noexpand\@elt{##1}%
227     \fi}%
228   \expandafter\xdef\csname cl@#2\endcsname{%
229     \csname cl@#2\endcsname}}
230
231 \newcommand{\numberbyarticle}{%
232   \@removefromreset{theorem}{section}
233   \renewcommand\thetheorem{\arabic{theorem}}}
234
235 %
236 % proof environments
237 %
238 \renewcommand{\qedsymbol}{\footnotesize\textsc{q.e.d.}}
239 \let\origqedsymbol\qedsymbol
240
241 \newenvironment{proofof}[2][Proof]%
242   {\begingroup
243     \renewcommand{\qedsymbol}{\footnotesize\origqedsymbol\ (#2)}}
244   \begin{proof}[#1]}
245   {\end{proof}\endgroup}

```

```

246
247 % hierarchical equation numbering (1.1, 1.2,...,2.1, etc.)
248 \numberwithin{equation}{section}
249
250 %
251 % table of contents
252 %
253 \renewcommand\contentsname{Table of Contents}
254
255 \renewcommand{\tableofcontents}{%
256   \clearemptydoublepage
257   \thispagestyle{empty}
258   \begingroup
259     \vspace*{1em}
260     \parindent Opt
261     \hrulefill \linebreak \null \vspace{-8pt}\par
262     {\Large\bfseries\contentsname}
263
264   }
265   \nobreak
266   \hrulefill \linebreak \null \vspace{-8pt}\par
267 \endgroup
268 \vskip3\baselineskip
269 \@starttoc{toc}
270 \pagestyle{headings}
271 \markboth{\contentsname}{\contentsname}
272 \clearemptydoublepage
273 }
274
275 %
276 % part
277 %
278 % FIXME: add part code
279
280 %
281 % chapter
282 %
283 \def\@makechapterhead#1{%
284   \thispagestyle{empty}
285   \vspace*{1em}
286   \begingroup
287     \parindent Opt
288     \hrulefill \linebreak \null \vspace{-8pt}\par
289     \ifnum \c@secnumdepth >\m@ne
290       \if@mainmatter
291         {\Large\bfseries \@chapapp\space \thechapter}
292
293       }
294     \fi
295   \fi

```

```

296     \interlinepenalty\@M
297     {\Large\bfseries #1
298
299     }
300     \nobreak
301     \hrulefill \linebreak \null \vspace{-8pt}\par
302 \endgroup
303 \vskip 40\p@
304 \renewcommand{\leftmark}{\@chapapp\space \thechapter}
305 \renewcommand{\rightmark}{#1}
306 }
307
308 \def\@makeschapterhead#1{%
309   \thispagestyle{empty}
310   \vspace*{1em}
311   \begingroup
312     \parindent 0pt
313     \hrulefill \linebreak \null \vspace{-8pt}\par
314     {\Large\bfseries #1
315
316     }
317     \nobreak
318     \hrulefill \linebreak \null \vspace{-8pt}\par
319 \endgroup
320 \vskip 40\p@
321 \renewcommand{\leftmark}{#1}
322 \renewcommand{\rightmark}{#1}
323 }
324
325 \def\lchapter#1#2{\addpenalty{-\@highpenalty}%
326   \vskip 1.0em plus\p@
327   \@tempdima 1.5em
328   \begingroup
329     \parindent \z@ \rightskip \@pnumwidth
330     \parfillskip -\@pnumwidth
331     \leavevmode
332     #1 \dotfill #2\par
333     \penalty\@highpenalty
334   \endgroup}
335
336 %
337 % set the section numbering depth
338 %
339 \setcounter{secnumdepth}{5}
340
341 %
342 % section
343 %
344 \def\thesection{\arabic{section}} % blow away chapter numbers
345

```

```

346 \def\section{\@startsection{section}{1}{\z@}%
347         {-2ex plus -.5ex minus -.2ex}%
348         {.8ex plus .08ex}%
349         {\raggedright\large\bf}}
350 %
351 % subsection
352 %
353 \def\subsection{\@startsection{subsection}{2}{\z@}%
354         {-1.5ex plus -.25ex minus -.1ex}%
355         {.6ex plus .06ex}%
356         {\raggedright\normalsize\bf}}
357
358 %
359 % subsubsection
360 %
361 \def\subsubsection{\@startsection{subsubsection}{3}{\z@}%
362         {-1ex plus -.15ex minus -.06ex}%
363         {.4ex plus .04ex}%
364         {\raggedright\normalsize\bf}}
365
366 %
367 % paragraph
368 %
369 \def\paragraph{\@startsection{paragraph}{4}{\z@}%
370         {.5ex plus .05ex minus .025ex}%
371         {-.66em}%
372         {\normalsize\bf}}
373
374 %
375 % subparagraph
376 %
377 \def\subparagraph{\@startsection{subparagraph}{5}{\parindent}%
378         {.25ex plus .01ex minus .005ex}%
379         {-.66em}%
380         {\normalsize\bf}}
381
382 %
383 % appendix
384 %
385 % the purpose of this is to get appendices to be 'Appendix A' but
386 % to have subsections to be 'A.1'
387 \renewcommand\appendix{\par
388   \setcounter{section}{0}%
389   \setcounter{subsection}{0}%
390   \gdef\thesection{\@Alph@c@section}%
391   \let\old@section\section
392   \renewcommand{\section}{\@ifstar{\old@section*}{\app@section}}%
393   \newcommand{\app@section}[1]{%
394     \begingroup
395     \def\thesection{\appendixname\ \Alph{section}}%

```

```

396     \old@section{##1}%
397     \endgroup}}
398
399 \newcommand\main{\par
400   \gdef\thesection{\@arabic\c@section}}
401
402 %
403 % tables and figures
404 %
405 %\@addtoreset{figure}{article}
406 \renewcommand\thefigure{\arabic{figure}}
407
408 %\@addtoreset{table}{article}
409 \renewcommand\thetable{\arabic{table}}
410
411 %
412 % bibliography
413 %
414 \renewcommand{\bibname}{References}
415
416 \renewenvironment{thebibliography}[1]{%
417   \vskip1cm
418   \section*{\bibname}%
419   \list{\@biblabel{\@arabic\c@enumiv}}%
420     {\settowidth\labelwidth{\@biblabel{#1}}%
421       \leftmargin\labelwidth
422       \ifdim \labelwidth > 0em \advance\leftmargin\labelsep \fi
423       \@openbib@code
424       \usecounter{enumiv}%
425       \let\p@enumiv\@empty
426       \renewcommand\theenumiv{\@arabic\c@enumiv}}%
427   \sloppy
428   \clubpenalty4000
429   \@clubpenalty \clubpenalty
430   \widowpenalty4000%
431   \sfcode'\.\@m}
432   {\def\@noitemerr
433     {\@latex@warning{Empty 'thebibliography' environment}}}%
434   \endlist}
435
436 %
437 % received, revised, accepted
438 %
439 \newcommand\receivedtext{%
440   \bigskip\noindent
441   \begingroup
442     \if!\@received!\else{\scriptsize Received: \@received}\[-.3em] \fi
443     \if!\@revised!\else{\scriptsize Revised: \@revised}\[-.3em] \fi
444     \if!\@accepted!\else{\scriptsize Accepted: \@accepted} \fi
445   \endgroup

```

```

446 }
447
448 \def\received#1{\gdef\@received{#1}}
449 \def\revised#1{\gdef\@revised{#1}}
450 \def\accepted#1{\gdef\@accepted{#1}}
451
452 %
453 % abstract
454 %
455 \newcommand\abstractname{Abstract}
456
457 \newenvironment{abstract}{%
458   \small
459   \begin{center}%
460     {\bfseries \abstractname\vspace{-.5em}\vspace{\z@}}%
461   \end{center}%
462   \list{}{\listparindent 1.5em%
463     \itemindent 0em%
464     \rightmargin \leftmargin
465     \parsep \z@ \@plus\p@}%
466   \item\relax}
467   {\endlist}
468
469 %
470 % caption
471 %
472 \long\def\@makecaption#1#2{%
473   \vskip 10\p@
474   \setbox\@tempboxa\hbox{\textsc{#1.} #2}%
475   \ifdim \wd\@tempboxa >\hsize
476     \textsc{#1.} #2\par
477   \else
478     \hbox to\hsize{\hfil\box\@tempboxa\hfil}%
479   \fi}
480
481 %
482 % quote, quotation
483 %
484 \renewenvironment{quotation}%
485   {\list{}%
486     {\listparindent 1.5em%
487       \itemindent \listparindent
488       \rightmargin \leftmargin
489       \parsep \z@ \@plus\p@}%
490     \small%
491     \item\relax}%
492   {\endlist}
493 \renewenvironment{quote}%
494   {\list{}%
495     {\rightmargin\leftmargin}%

```

```

496             \small%
497             \item\relax}%
498             {\endlist}
499
500 %
501 % lists
502 %
503 \renewcommand{\labelitemi}{\small\textbullet}}
504
505 %
506 % footnotes
507 %
508 \newdimen\fnindent
509 \fnindent1em
510
511 \long\def\@makefnmark#1{%
512   \parindent \fnindent%
513   \leftskip \fnindent%
514   \noindent
515   \llap{\hb@xt@1em{\hss\@makefnmark\ }}\ignorespaces#1}
516
517 %
518 % various characters for which the defaults are ugly
519 %
520 \let\origemptyset\emptyset
521 \let\emptyset\varnothing
522 \let\origphi\phi
523 \let\phi\varphi
524 \let\origepsilon\epsilon
525 \let\epsilon\ varepsilon
526 \let\origtheta\theta
527 \let\theta\vartheta
528

```

The End.