The elsarticle.cls – Implimentation

Elsevier Ltd

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1 Implementation

```
1 (*class)
  2 %%
  3 %% $Id: elsarticle.cls,v 1.20 2008-10-13 04:24:12 cvr Exp $
  4 %%
  5 \def\RCSfile{elsarticle}%
 6 \def\RCSversion{1.2.0}%
 7 \def\RCSdate{2009/09/17}%
 9 \def\@journal{Elsevier Ltd} \def\@company{Elsevier Ltd}
10 \def\@issn{000-0000}
11 \def\@shortjid{elsarticle}
12 \NeedsTeXFormat{LaTeX2e} [1995/12/01]
13 \ProvidesClass{\@shortjid}[\RCSdate, \RCSversion: \@journal]
14 \def\ABD{\AtBeginDocument}
15 \newif\ifpreprint \preprintfalse
16 \newif\iflongmktitle \longmktitlefalse
18 \def\@blstr{1}
19 \newdimen\@bls
20 \ensuremath{ \mbox{\sc 0}} \ensuremath{ \mb
22 \def\@finalWarning{%
        This document is typeset in the CRC style which\MessageBreak
             is not suitable for submission.\MessageBreak
             \MessageBreak
            Please typeset again using 'preprint' option\MessageBreak
^{27}
           for creating PDF suitable for submission.\MessageBreak
          30 }
31
32 \DeclareOption{preprint}{\global\preprinttrue
          \gdef\@blstr{1}\xdef\jtype{0}%
             \AtBeginDocument{\@twosidefalse\@mparswitchfalse}}
35 \DeclareOption{final}{\gdef\@blstr{1}\global\preprintfalse}
36 \DeclareOption{review}{\global\preprinttrue\gdef\@blstr{1.5}}
```

```
37 \DeclareOption{authoryear}{\xdef\@biboptions{round,authoryear}}
38 \DeclareOption{number}{\xdef\@biboptions{numbers}}
39 \DeclareOption{numbers}{\xdef\@biboptions{numbers}}
40 \DeclareOption{longtitle}{\global\longmktitletrue}
41 \DeclareOption{5p}{\xdef\jtype{5}\global\preprintfalse
   \ExecuteOptions{twocolumn}}
42
   \def\jtype{0}
43
45 \ensuremath{\lower.printfalse} \label{lower.printfalse} \\
   \AtBeginDocument{\@twocolumnfalse}}
47 \DeclareOption{times}{\IfFileExists{txfonts.sty}%
   {\AtEndOfClass{\RequirePackage{txfonts}%
   \gdef\ttdefault{cmtt}%
    \let\iint\relax
   \let\iiint\relax
   \let\iiiint\relax
   \let\idotsint\relax
   \let\openbox\relax}}{\RequirePackage{times}}}
55 \ExecuteOptions{a4paper,10pt,oneside,onecolumn,number,preprint}
57 \ProcessOptions
58 \LoadClass{article}
59 \RequirePackage{graphicx}
```

2 Preamble

```
60 \let\comma\@empty
61 \let\tnotesep\@empty
62 \left( \frac{1}{1} \right)
63 \let\@title\@empty
65 \def\elsLabel#1{\@bsphack\protected@write\@auxout{}%
                                                         {\string\Newlabel{#1}{\@currentlabel}}\@esphack}
67 \def\Newlabel#1#2{\expandafter\xdef\csname X@#1\endcsname{#2}}
69 \end{X0\#1} \{0\} {\csname X0\#1} endcsname} \%
70 }
71
72 \label{lem:condition} \end{constraint} $$ 72 \end{constraint} $$ \end{constraint} $$ 1^{0}_{\infty} = 1^{0}_{\infty}. $$
                                           \edef\tnotenum{\@ifundefined{X@\@@tmark}{1}{\elsRef{\@@tmark}}}%
73
                                           \int \frac{73}{\sin {73}\over 3} \
74
75 }
76 \let\@tnotemark\@empty
77
78 \let\@tnotes\@empty
79 \RequirePackage{pifont}
80 \newcounter{tnote}
81 \def\tnotetext[#1]#2{\g@addto@macro\@tnotes{%
                     \refstepcounter{tnote}\elsLabel{#1}%
82
                           \label{line} $$ \left(\frac{73}\right)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{73}\bigg)^{7
```

```
\footnotetext{#2}}}
  84
  85
  86 \let\@nonumnotes\@empty
  87 \ensuremath{$\def\nonumnote#1{\g@addto@macro\@nonumnotes{\%}}}
                   \let\thefootnote\relax\footnotetext{#1}}}
  88
  89
  90 \newcounter{fnote}
  91 \def\fnmark[#1]{\let\comma\@empty
                 \def\@fnmark{\@for\@@fnmark:=#1\do{%
  92
                 93
  94
            \unskip\comma\fnotenum\let\comma,}}%
  95 }
  97 \let\@fnotes\@empty\let\@fnmark\@empty
        \def\fntext[#1]#2{\g@addto@macro\@fnotes{%
                    \refstepcounter{fnote}\elsLabel{#1}%
  99
               \def\thefootnote{\thefnote}%
100
               \global\setcounter{footnote}{\thefnote}%
101
               \footnotetext{#2}}}
102
103
104 \def\cormark[#1]{\edef\cnotenum{\elsRef{#1}}%
                 \unskip\textsuperscript{\sep\ifcase\cnotenum\or
105
                        $\ast$\or$\ast\ast$\fi\hspace{-1pt}}\let\sep=,}
106
108 \let\@cormark\@empty
109 \let\@cornotes\@empty
110 \newcounter{cnote}
111 \def\cortext[#1]#2{\g@addto@macro\@cornotes{%
                 \refstepcounter{cnote}\elsLabel{#1}%
112
                 \def\thefootnote{\ifcase\thecnote\or$\ast$\or
113
                 \alpha 
114
                 \footnotetext{#2}}}
115
116
117 \let\@corref\@empty
118 %\def\corref#1{\cormark[#1]}
119 \def\corref#1{\edef\cnotenum{\elsRef{#1}}%
120
                 \edef\@corref{\ifcase\cnotenum\or
                            $\ast$\or$\ast\ast$\fi\hskip-1pt}}
121
122
123 \def\fnref#1{\fnmark[#1]}
124 \def\tnoteref#1{\tnotemark[#1]}
125
126 \def\resetTitleCounters{\c@cnote=0
               \c@fnote=0 \c@footnote=0}
127
129 \let\eadsep\@empty
130 \let\@elseads\@empty
131 \let\@elsuads\@empty
132 \let\@cormark\@empty
133 \ensuremath{\mbox{\mbox{$133$ \ensuremath{\mbox{\mbox{$4$}}}}} er\ensuremath{\mbox{\mbox{$4$}}} ndafter\ensuremath{\mbox{\mbox{$4$}}} ndafter\ensuremath{\mbox{\mbox{$4$}}} ndafter\ensuremath{\mbox{$4$}} ndafter\
```

```
134 \def\underscorechar{\expandafter\@gobble\string\_}
135 \def\lbracechar{\expandafter\@gobble\string\{}
136 \def\rbracechar{\expandafter\@gobble\string\}}
137
138 \def\ead{\def}
 139 \end{flower} $$139 \end{flower} \end{flower} \label{lower} $$139 \end{flower} $$139
                  \def\{{\string\lbracechar\space}%
140
141
                     \def~{\hashchar\space}%
                     \def\}{\string\rbracechar\space}%
142
                     \edef\tmp{\the\@eadauthor}
143
                      \immediate\write\@auxout{\string\emailauthor
144
                             {#1}{\expandafter\strip@prefix\meaning\tmp}}%
145
146
                  \egroup
147 }
148 \newcounter{ead}
149 \gdef\emailauthor#1#2{\stepcounter{ead}%
                             \g@addto@macro\@elseads{\raggedright%
150
                                 \let\corref\@gobble
151
                                 \end{end} $$ \operatorname{texttt}{#1} (\#2)\left(\frac{1}{2}\right), \end{end} $$ in $\mathbb{N}^2 . $$
152
153 }
154 \gdef\@uad[#1]#2{\bgroup
                  \def~{\string\hashchar\space}%
155
                  \def\_{\string\underscorechar\space}%
156
                      \edef\tmp{\the\@eadauthor}
157
                      \immediate\write\@auxout{\string\urlauthor
 158
159
                             {#2}{\expandafter\strip@prefix\meaning\tmp}}%
160
161 }
162 \ensuremath{\mbox{\mbox{$1$}}} 162 \ensuremath{\mbox{\mbox{\mbox{\mbox{$2$}}}} 162 \ensuremath{\mbox{\mbox{\mbox{$2$}}}} 162 \ensuremath{\mbox{\mbox{\mbox{$2$}}}} 162 \ensuremath{\mbox{\mbox{$2$}}} 162 \ensuremath{\mbox{\mbox{$2$}}} 162 \ensuremath{\mbox{\mbox{$2$}}} 162 \ensuremath{\mbox{$2$}} 162 \ens
                             \raggedright\eadsep\texttt{#1}\space(#2)%
163
                             \def\eadsep{\unskip,\space}}%
164
165 }
166
167 \def\elsauthors{}
168 \def\pprinttitle{}
 169 \let\authorsep\@empty
170 \let\sep\@empty
171 \newcounter{author}
172 \def\author{\@ifnextchar[{\@@author}{\@author}}
173
174 \newtoks\@eadauthor
175 \def\@@author[#1]#2{\g@addto@macro\elsauthors{%
                         \def\baselinestretch{1}%
176
                         \authorsep#2\unskip\textsuperscript{%#1%
177
                                 \ensuremath{\texttt{Qfor}\ensuremath{\texttt{Q0affmark}:=\#1\do\{\%\ensuremath{\texttt{M}}\ensuremath{\texttt{M}}}\
178
179
                                    180
                             \unskip\sep\affnum\let\sep=,}%
                                 \ifx\@fnmark\@empty\else\unskip\sep\@fnmark\let\sep=,\fi
181
182
                                 \ifx\@corref\@empty\else\unskip\sep\@corref\let\sep=,\fi
                                }%
183
```

```
184
       \def\authorsep{\unskip,\space}%
185
       \global\let\sep\@empty\global\let\@corref\@empty
       \global\let\@fnmark\@empty}%
186
       \@eadauthor={#2}
187
188 }
189
190 \def\@author#1{\g@addto@macro\elsauthors{\normalsize%
       \def\baselinestretch{1}%
191
       \upshape\authorsep#1\unskip\textsuperscript{%
192
         \ifx\@fnmark\@empty\else\unskip\sep\@fnmark\let\sep=,\fi
193
194
         \ifx\@corref\@empty\else\unskip\sep\@corref\let\sep=,\fi
195
         }%
       \def\authorsep{\unskip,\space}%
196
       \global\let\@fnmark\@empty
197
       \global\let\sep\@empty}%
198
199
       \@eadauthor={#1}
200 }
201
202 \def\elsaddress{}
203 \def\addsep{\par\vskip6pt}
204 \def\address{\@ifnextchar[{\@@address}{\@address}}
205
206 \def\@alph#1{%
     \ifcase#1\or a\or b\or c\or d\or e\or f\or g\or h\or i\or j\or k\or
    1\or m\or o\or p\or q\or r\or s\or t\or u\or v\or w\or x\or
209
    y\or z%
210
    \or aa\or ab\or ac\or ad\or ae\or af\or ag\or ah\or ai\or aj\or
211
    ak\or al\or am\or ao\or ap\or aq\or ar\or as\or at\or au\or
     av\or aw\or ax\or ay\or az%
212
     \or ba\or bb\or bc\or bd\or be\or bf\or bg\or bh\or bj\or
213
    bk\or bl\or bm\or bo\or bp\or bq\or br\or bs\or bt\or bu\or
214
    bv\or bw\or bx\or by\or bz%
215
     \or ca\or cb\or cc\or cd\or ce\or cf\or cg\or ch\or ci\or cj\or
216
     ck\or cl\or cm\or co\or cp\or cq\or cr\or cs\or ct\or cu\or
     cv\or cw\or cx\or cy\or cz%
     \or da\or db\or dc\or dd\or de\or df\or dg\or dh\or di\or dj\or
220
     dk\or dl\or dm\or do\or dp\or dq\or dr\or ds\or du\or
221
     dv\or dw\or dx\or dy\or dz%
     \or ea\or eb\or ec\or ed\or ee\or ef\or eg\or eh\or ej\or
222
     ek\or el\or em\or eo\or ep\or eq\or er\or es\or eu\or
223
     ev\or ew\or ex\or ey\or ez%
224
     \or fa\or fb\or fc\or fd\or fe\or ff\or fg\or fh\or fi\or fj\or
225
     fk\or fl\or fm\or fo\or fp\or fq\or fr\or fs\or ft\or fu\or
226
     fv\or fw\or fx\or fy\or fz%
227
     \or ga\or gb\or gc\or gd\or ge\or gf\or gg\or gh\or gi\or gj\or
     gk\or gl\or gm\or go\or gp\or gq\or gr\or gs\or gu\or
230
     gv\or gw\or gx\or gy\or gz%
231
     \else\@ctrerr\fi}
232
233 \newcounter{affn}
```

```
234 \mbox{ } \mbox{enewcommand} \mbox{theaffn}{\mbox{alph}{affn}}
236 \long\def\@@address[#1]#2{\g@addto@macro\elsaddress{%
237
       \def\baselinestretch{1}%
238
        \refstepcounter{affn}
        \xdef\@currentlabel{\theaffn}
239
        \elsLabel{#1}%
240
       \textsuperscript{\theaffn}#2\par}}
241
242
243 \long\def\@address#1{\g@addto@macro\elsauthors{%}}
       \def\baselinestretch{1}%
244
       \addsep\footnotesize\itshape#1\def\addsep{\par\vskip6pt}%
245
       \def\authorsep{\par\vskip8pt}}}
246
248 \newbox\absbox
249 \renewenvironment{abstract}{\global\setbox\absbox=\vbox\bgroup}
    \hsize=\textwidth\def\baselinestretch{1}%
250
     \noindent\unskip\textbf{Abstract}
251
    \par\medskip\noindent\unskip\ignorespaces}
252
253 {\egroup}
254
255 \newbox\keybox
256 \def\keyword{%
     \def\sep{\unskip, }%
    259
     \def\PACS{\par\leavevmode\hbox {\it PACS:\space}}%
260
     \def\JEL{\par\leavevmode\hbox {\it JEL:\space}}%
261
     \global\setbox\keybox=\vbox\bgroup\hsize=\textwidth
262
     \normalsize\normalfont\def\baselinestretch{1}
263
     \parskip\z@
264
     \noindent\textit{Keywords: }
265
266
     \raggedright
                                         % Keywords are not justified.
267
     \ignorespaces}
268 \def\endkeyword{\par \egroup}
270 \newdimen\Columnwidth
271 \Columnwidth=\columnwidth
272
273 \def\printFirstPageNotes{%
    \iflongmktitle
274
      \let\columnwidth=\textwidth\fi
275
276
     \ifx\@tnotes\@empty\else\@tnotes\fi
     \ifx\@nonumnotes\@empty\else\@nonumnotes\fi
277
     \ifx\@cornotes\@empty\else\@cornotes\fi
278
279
     \ifx\@elseads\@empty\relax\else
280
      \let\thefootnote\relax
281
      \footnotetext{\ifnum\theead=1\relax
282
         \textit{Email address:\space}\else
         \textit{Email addresses:\space}\fi
283
```

```
\@elseads}\fi
284
     \ifx\@elsuads\@empty\relax\else
285
286
       \let\thefootnote\relax
       \footnotetext{\textit{URL:\space}%
287
288
         \@elsuads}\fi
     \int \ensuremath{$\operatorname{\text{Qfnotes}\left(\ensuremath{$\operatorname{genpty}\else\ensuremath{$\operatorname{genpty}\else}\right)$}} 
289
     \iflongmktitle\if@twocolumn
290
       \let\columnwidth=\Columnwidth\fi\fi
291
292 }
293
294 \long\def\pprintMaketitle{\clearpage
     \iflongmktitle\if@twocolumn\let\columnwidth=\textwidth\fi\fi
295
      \resetTitleCounters
296
     \def\baselinestretch{1}%
297
298
     \printFirstPageNotes
299
     \begin{center}%
    \thispagestyle{pprintTitle}%
300
       \def\baselinestretch{1}%
301
        \Large\@title\par\vskip18pt
302
303
        \normalsize\elsauthors\par\vskip10pt
        \footnotesize\itshape\elsaddress\par\vskip36pt
304
305
        \hrule\vskip12pt
        \ifvoid\absbox\else\unvbox\absbox\par\vskip10pt\fi
306
        \ifvoid\keybox\else\unvbox\keybox\par\vskip10pt\fi
307
308
        \hrule\vskip12pt
309
        \end{center}%
     \gdef\thefootnote{\arabic{footnote}}%
310
311
312
   \def\printWarning{%
313
         \mbox{}\par\vfill\par\bgroup
314
         \fboxsep12pt\fboxrule1pt
315
316
         \hspace*{.18\textwidth}
317
         \fcolorbox{gray50}{gray10}{\box\warnbox}
318
         \egroup\par\vfill\thispagestyle{empty}
319
         \setcounter{page}{0}
         \clearpage}
320
321
322 \long\def\finalMaketitle{%
     \resetTitleCounters
323
     \def\baselinestretch{1}%
324
       \MaketitleBox
325
       \thispagestyle{pprintTitle}%
326
      \gdef\thefootnote{\arabic{footnote}}%
327
328
329
330 \long\def\MaketitleBox{%
331
     \resetTitleCounters
332
     \def\baselinestretch{1}%
333
     \begin{center}%
```

```
\def\baselinestretch{1}%
334
       \Large\@title\par\vskip18pt
335
       \normalsize\elsauthors\par\vskip10pt
336
337
       \footnotesize\itshape\elsaddress\par\vskip36pt
338
       \hrule\vskip12pt
       \ifvoid\absbox\else\unvbox\absbox\par\vskip10pt\fi
339
       \ifvoid\keybox\else\unvbox\keybox\par\vskip10pt\fi
340
       \hrule\vskip12pt
341
       \end{center}%
342
     }
343
344
345 \def\FNtext#1{\par\bgroup\footnotesize#1\egroup}
346 \newdimen\space@left
347 \def\alarm#1{\typeout{**********************************
348
                 \typeout{#1}%
                 \typeout{*******************************
349
350 }
   \long\def\getSpaceLeft{%\global\@twocolumnfalse%
351
      \global\setbox0=\vbox{\hsize=\textwidth\MaketitleBox}%
352
353
      \global\setbox1=\vbox{\hsize=\textwidth
354
       \let\footnotetext\FNtext
       \printFirstPageNotes}%
355
       \xdef\noteheight{\the\ht1}%
356
       \xdef\titleheight{\the\ht0}%
357
358
       \@tempdima=\vsize
359
       \advance\@tempdima-\noteheight
       \verb|\advance|@tempdima-1| baselineskip|
360
361 }
362
     \skip\footins=24pt
363
364
365 \newbox\els@boxa
366 \newbox\els@boxb
367
368 \ifpreprint
369
     \def\maketitle{\pprintMaketitle}
370
     \else
      \ifnum\jtype=1
371
       \def\maketitle{%
372
         \iflongmktitle\getSpaceLeft
373
          \global\setbox\els@boxa=\vsplit0 to \@tempdima
374
          \box\els@boxa\par\resetTitleCounters
375
376
          \thispagestyle{pprintTitle}%
          \printFirstPageNotes
377
          \box0%
378
379
         \else
380
          \finalMaketitle\printFirstPageNotes
381
       \gdef\thefootnote{\arabic{footnote}}}%
382
383
     \else
```

```
\ifnum\jtype=5
384
       \def\maketitle{%
385
          \iflongmktitle\getSpaceLeft
386
           \global\setbox\els@boxa=\vsplit0 to \@tempdima
387
          \verb|\box\els@boxa\par\resetTitleCounters||
388
          \thispagestyle{pprintTitle}%
389
           \printFirstPageNotes
390
           \twocolumn[\box0]%\printFirstPageNotes
391
392
          \else
           \twocolumn[\finalMaketitle]\printFirstPageNotes
393
394
         \gdef\thefootnote{\arabic{footnote}}}
395
396
     \if@twocolumn
397
398
       \def\maketitle{%
          \iflongmktitle\getSpaceLeft
399
           \global\setbox\els@boxa=\vsplit0 to \@tempdima
400
           \box\els@boxa\par\resetTitleCounters
401
           \thispagestyle{pprintTitle}%
402
           \printFirstPageNotes
403
404
           \twocolumn[\box0]%
405
           \twocolumn[\finalMaketitle]\printFirstPageNotes
406
407
408
         \gdef\thefootnote{\arabic{footnote}}}%
409
      \else
410
       \def\maketitle{%
          \iflongmktitle\getSpaceLeft
411
           \global\setbox\els@boxa=\vsplit0 to \@tempdima
412
           \box\els@boxa\par\resetTitleCounters
413
           \thispagestyle{pprintTitle}%
414
           \printFirstPageNotes
415
416
           \box0%
417
         \else
418
           \finalMaketitle\printFirstPageNotes
419
       \gdef\thefootnote{\arabic{footnote}}}%
420
      \fi
421
     \fi
422
423 \fi
424\fi
```

3 Headers/footers

```
425 \def\ps@pprintTitle{%
426 \let\@oddhead\@empty
427 \let\@evenhead\@empty
428 \def\@oddfoot{\footnotesize\itshape
429 Preprint submitted to \ifx\@journal\@empty Elsevier
430 \else\@journal\fi\hfill\today}%
```

4 Section headings

```
432 \def\@seccntDot{.}
433 \end{array} \end{array} $$ \end{array} $$ \end{array} \end{array} $$ 0.5em 
434
435 \renewcommand\section{\@startsection {section}{1}{\z@}%
               {18\p@ \@plus 6\p@ \@minus 3\p@}%
436
               {9\p@ \@plus 6\p@ \@minus 3\p@}%
437
               {\normalsize\bfseries\boldmath}}
438
439 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
               {12\p@ \@plus 6\p@ \@minus 3\p@}%
440
               {3\p@ \@plus 6\p@ \@minus 3\p@}%
441
               {\normalfont\normalsize\itshape}}
442
443 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
               {12\p@ \@plus 6\p@ \@minus 3\p@}%
444
               {\p@}%
445
               {\normalfont\normalsize\itshape}}
446
447
448 \def\paragraph{\secdef{\els@aparagraph}{\els@bparagraph}}
449 \def\els@aparagraph[#1]#2{\elsparagraph[#1]{#2.}}
450 \def\els@bparagraph#1{\elsparagraph*{#1.}}
452 \newcommand\elsparagraph{\@startsection{paragraph}{4}{0}z@}%
453
               {10\p@ \@plus 6\p@ \@minus 3\p@}%
               {-6\p@}%
454
               {\normalfont\itshape}}
455
```

5 List environment

```
456 \newdimen\leftMargin
457 \leftMargin=2em
458 \newtoks\@enLab
                     %\newtoks\@enfont
459 \def\@enQmark{?}
460 \def\@enLabel#1#2{%
     \edef\@enThe{\noexpand#1{\@enumctr}}%
     \QenLab\expandafter{\the\QenLab\csname the\Qenumctr\endcsname}%
462
     \@enloop}
463
464 \def\@enSpace{\afterassignment\@enSp@ce\let\@tempa= }
465 \def\@enSp@ce{\@enLab\expandafter{\the\@enLab\space}\@enloop}
466 \def\@enGroup#1{\@enLab\expandafter{\the\@enLab{#1}}\@enloop}
467 \def\@enUther#1{\@enLab\expandafter{\the\@enLab#1}\@enloop}
468 \def\@enloop{\futurelet\@entemp\@enloop@}
469 \def\@enloop@{%
     \ifx A\@entemp
                             \def\@tempa{\@enLabel\Alph }\else
470
471
     \ifx a\@entemp
                             \def\@tempa{\@enLabel\alph }\else
472
     \ifx i\@entemp
                             \def\@tempa{\@enLabel\roman }\else
     \ifx I\@entemp
473
                             \def\@tempa{\@enLabel\Roman }\else
                             \label\arabic\\\end{arabic} \label\arabic\\\end{arabic}
474
     \ifx 1\@entemp
```

```
\ifx \@sptoken\@entemp \let\@tempa\@enSpace
                                                           \else
475
                             \let\@tempa\@enGroup
                                                           \else
476
     \ifx \bgroup\@entemp
     \ifx \@enum@\@entemp
                             \let\@tempa\@gobble
                                                           \else
477
478
                             \let\@tempa\@enOther
                \fi\fi\fi\fi\fi\fi\fi
479
480
     \@tempa}
481 \newlength{\@sep} \newlength{\@@sep}
482 \setlength{\@sep}{.5\baselineskip plus.2\baselineskip}
483
               minus.2\baselineskip}
484 \enskip plus. 01 \enskip
               minus.05\baselineskip}
485
486 \providecommand{\sfbc}{\rmfamily\upshape}
487 \providecommand{\sfn}{\rmfamily\upshape}
488 \def\@enfont{\ifnum \@enumdepth >1\let\@nxt\sfn \else\let\@nxt\sfbc \fi\@nxt}
489 \def\enumerate{%
      \ifnum \@enumdepth >3 \@toodeep\else
490
         \advance\@enumdepth \@ne
491
         \edef\@enumctr{enum\romannumeral\the\@enumdepth}\fi
492
      \@ifnextchar[{\@@enum@}{\@enum@}}
493
494 \def\@@enum@[#1]{%
     \@enLab{}\let\@enThe\@enQmark
495
496
     \@enloop#1\@enum@
     \ifx\@enThe\@enQmark\@warning{The counter will not be printed.%
497
       ^J\space\@spaces\@spaces The label is: \the\@enLab}\fi
498
     \expandafter\edef\csname label\@enumctr\endcsname{\the\@enLab}%
499
     \expandafter\let\csname the\@enumctr\endcsname\@enThe
500
501
     \csname c@\@enumctr\endcsname7
502
     \expandafter\settowidth
               \csname leftmargin\romannumeral\@enumdepth\endcsname
503
               {\the\@enLab\hskip\labelsep}%
504
     \@enum@}
505
506 \def\@enum@{\list{{\@enfont\csname label\@enumctr\endcsname}}%
              \label{label} $$ \sup_{\counter{\counter}\def\makelabel$#1{\hss\llap{$\#1}}}%
507
508
        \ifnum \@enumdepth>1\setlength{\topsep}{\@@sep}\else
509
              \setlength{\topsep}{\@sep}\fi
510
        \ifnum \@enumdepth>1\setlength{\itemsep}{0pt plus1pt minus1pt}%
511
         \else \setlength{\itemsep}{\@@sep}\fi
512
        %\setlength\leftmargin{\leftMargin}%%%{1.8em}
        \setlength{\parsep}{0pt plus1pt minus1pt}%
513
        \setlength{\parskip}{Opt plus1pt minus1pt}
514
515
                      }}
516
517 \def\endenumerate{\par\ifnum \@enumdepth >1\addvspace{\@@sep}\else
              \addvspace{\@sep}\fi \endlist}
518
519
520 \def\sitem{\@noitemargtrue\@item[\@itemlabel *]}
522 \def\itemize{\@ifnextchar[{\@Itemize}{\@Itemize[]}}
523
524 \def\@Itemize[#1]{\def\next{#1}%
```

```
\ifnum \@itemdepth >\thr@@\@toodeep\else
525
      \advance\@itemdepth\@ne
526
     \ifx\next\@empty\else\expandafter\def\csname
527
      labelitem\romannumeral\the\@itemdepth\endcsname{#1}\fi%
528
529
     \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
530
     \expandafter\list\csname\@itemitem\endcsname
     {\def\makelabel##1{\hss\llap{##1}}}%
531
532
    \fi}
```

6 Theorem environment

```
533 \def\newdefinition#1{%
    \@ifnextchar[{\@odfn{#1}}{\@ndfn{#1}}}%]
535 \def\@ndfn#1#2{%
    \@ifnextchar[{\@xndfn{#1}{#2}}{\@yndfn{#1}{#2}}}
537 \def\@xndfn#1#2[#3]{%
     \expandafter\@ifdefinable\csname #1\endcsname
538
       {\@definecounter{#1}\@newctr{#1}[#3]%
539
        \expandafter\xdef\csname the#1\endcsname{%
540
          \expandafter\noexpand\csname the#3\endcsname \@dfncountersep
541
542
             \@dfncounter{#1}}%
        543
        \global\@namedef{end#1}{\@enddefinition}}}
545 \def\@yndfn#1#2{%
     \expandafter\@ifdefinable\csname #1\endcsname
547
       {\@definecounter{#1}%
        548
        \global\@namedef{#1}{\@dfn{#1}{#2}}%
549
        \global\@namedef{end#1}{\@enddefinition}}}
550
551 \def\@odfn#1[#2]#3{%
     \@ifundefined{c@#2}{\@nocounterr{#2}}%
552
       {\expandafter\@ifdefinable\csname #1\endcsname
553
554
       {\global\@namedef{the#1}{\@nameuse{the#2}}
     \global\Qnamedef{#1}{\Qdfn{#2}{#3}}%
     \global\@namedef{end#1}{\@enddefinition}}}}
557 \def\@dfn#1#2{%
    \refstepcounter{#1}%
     \ensuremath{\mbox{0ifnextchar}{\mbox{41}{\#2}}{\mbox{mfn}{\#1}{\#2}}}
560 \def\@xdfn#1#2{%
     \Obegindefinition{#2}{\csname the#1\endcsname}\ignorespaces}
562 \def\@ydfn#1#2[#3]{%
     \@opargbegindefinition{#2}{\csname the#1\endcsname}{#3}\ignorespaces}
564 \def\@dfncounter#1{\noexpand\arabic{#1}}
565 \def\@dfncountersep{.}
566 \def\@begindefinition#1#2{\trivlist
      \item[\hskip\labelsep{\bfseries #1\ #2.}]\upshape}
568 \def\@opargbegindefinition#1#2#3{\trivlist
569
         \item[\hskip\labelsep{\bfseries #1\ #2\ (#3).}]\upshape}
570 \def\@enddefinition{\endtrivlist}
571
```

```
572 \def\@begintheorem#1#2{\trivlist
          \let\baselinestretch\@blstr
            \item[\hskip \labelsep{\bfseries #1\ #2.}]\itshape}
575 \def\@opargbegintheorem#1#2#3{\trivlist
576
          \let\baselinestretch\@blstr
                   \item[\hskip \labelsep{\bfseries #1\ #2\ (#3).}]\itshape}
577
578
579 \def\newproof#1{%
          \@ifnextchar[{\@oprf{#1}}{\@nprf{#1}}}
580
581 \def\@nprf#1#2{%
          \@ifnextchar[{\@xnprf{#1}{#2}}{\@ynprf{#1}{#2}}}
582
583 \def\@xnprf#1#2[#3]{%
          \expandafter\@ifdefinable\csname #1\endcsname
584
               {\@definecounter{#1}\@newctr{#1}[#3]%
585
                 \expandafter\xdef\csname the#1\endcsname{%
586
                     \expandafter\noexpand\csname the#3\endcsname \@prfcountersep
587
                           \@prfcounter{#1}}%
588
                 \global\@namedef{#1}{\@prf{#1}{#2}}%
589
                 \global\@namedef{end#1}{\@endproof}}}
590
591 \def\@ynprf#1#2{%
          \expandafter\@ifdefinable\csname #1\endcsname
592
593
              {\@definecounter{#1}%
                 \expandafter\xdef\csname the#1\endcsname{\@prfcounter{#1}}%
594
                 \global\@namedef{#1}{\@prf{#1}{#2}}%
595
                 \global\@namedef{end#1}{\@endproof}}}
596
597 \def\@oprf#1[#2]#3{%
          \@ifundefined{c@#2}{\@nocounterr{#2}}%
598
              {\expandafter\@ifdefinable\csname #1\endcsname
599
              {\global\normalfont \normalfont \normalf
600
          \global\@namedef{#1}{\@prf{#2}{#3}}%
601
          \global\@namedef{end#1}{\@endproof}}}}
602
603 \def\@prf#1#2{%
          \refstepcounter{#1}%
604
          606 \def\@xprf#1#2{%
          \@beginproof{#2}{\csname the#1\endcsname}\ignorespaces}
608 \def\@yprf#1#2[#3]{%
          \@opargbeginproof{#2}{\csname the#1\endcsname}{#3}\ignorespaces}
610 \def\@prfcounter#1{\noexpand\arabic{#1}}
611 \def\@prfcountersep{.}
612 \def\@beginproof#1#2{\trivlist\let\baselinestretch\@blstr
            \item[\hskip \labelsep{\scshape #1.}]\rmfamily}
614 \def\@opargbeginproof#1#2#3{\trivlist\let\baselinestretch\@blstr
                   \item[\hskip \labelsep{\scshape #1\ (#3).}]\rmfamily}
616 \def\@endproof{\endtrivlist}
617 \newcommand*{\qed}{\hbox{}\hfill$\Box$}
618
619 \@ifundefined{@biboptions}{\xdef\@biboptions{numbers}}{}
620 \InputIfFileExists{\jobname.spl}{}{}
621 \RequirePackage[\@biboptions]{natbib}
```

```
622
623 \newwrite\splwrite
624 \immediate\openout\splwrite=\jobname.spl
625 \def\biboptions#1{\def\next{#1}\immediate\write\splwrite{%}
626 \string\g@addto@macro\string\@biboptions{%}
627 ,\expandafter\strip@prefix\meaning\next}}
628
629 \let\baselinestretch=\@blstr
630
```

7 Page dimensions and margins for final form

7.1 Option 1p

```
631 \ifnum\jtype=1
632 \RequirePackage{geometry}
633 \geometry{twoside,
                        paperwidth=210mm,
635
                         paperheight=297mm,
                         textheight=562pt,
636
                           textwidth=384pt,
637
                               centering,
638
                               headheight=50pt,
639
                               headsep=12pt,
640
641
                               footskip=12pt,
642
                               footnotesep=24pt plus 2pt minus 12pt,
                          \global\let\bibfont=\footnotesize
645 \global\bibsep=0pt
646 \verb| \fill wo column \global \@two columnfalse \fill is the column \global \global
647 %
```

7.2 Option '3p'

```
648 \leq ifnum \neq 3
649 \RequirePackage{geometry}
650 \geometry{twoside,
     paperwidth=210mm,
651
     paperheight=297mm,
     textheight=622pt,
654
     textwidth=468pt,
655
     centering,
656
     headheight=50pt,
657
     headsep=12pt,
     footskip=18pt,
658
659
     footnotesep=24pt plus 2pt minus 12pt,
     columnsep=2pc
660
661 }
662 \global\let\bibfont=\footnotesize
663 \global\bibsep=0pt
664 \if@twocolumn\input{fleqn.clo}\fi
```

7.3 Option '5p'

```
665 \else\ifnum\jtype=5
666 \RequirePackage{geometry}
667 \geometry{twoside,
668 paperwidth=210mm,
669 paperheight=297mm,
670 textheight=682pt,
671 textwidth=522pt,
672 centering,
673 headheight=50pt,
674 headsep=12pt,
     footskip=18pt,
675
     footnotesep=24pt plus 2pt minus 12pt,
676
677
     columnsep=18pt
678 }%
679
    \global\let\bibfont=\footnotesize
680 \global\bibsep=0pt
681 \input{fleqn.clo}
682 \global\@twocolumntrue
683 %%
684 %% End of option '5p'
685 %%
686 \fi\fi\fi
```

8 Other items

```
687 \def\journal#1{\gdef\@journal{#1}}
688 \let\@journal\@empty
689 \newenvironment{frontmatter}{}{\maketitle}
690
691 \long\def\@makecaption#1#2{%
     \vskip\abovecaptionskip\footnotesize
692
     \sbox\@tempboxa{#1: #2}%
693
     \ifdim \wd\@tempboxa >\hsize
694
       #1: #2\par
695
696
     \else
697
       \global \@minipagefalse
698
       \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
699
     \vskip\belowcaptionskip}
700
701
702 \AtBeginDocument{\@ifpackageloaded{hyperref}
     {\def\@linkcolor{blue}
703
      \def\@anchorcolor{blue}
704
      \def\@citecolor{blue}
705
      \def\@filecolor{blue}
706
707
      \def\@urlcolor{blue}
708
      \def\@menucolor{blue}
709
      \def\@pagecolor{blue}
```

```
710 \begingroup
                \@makeother\'%
711
712
                \@makeother\=%
713
                \left( x_{x}\right) 
                       \ensuremath{\mbox{edef}\noexpand\x{\xi}}
714
715
                             \endgroup
                             \noexpand\toks@{%
716
                                    \catcode 96=\noexpand\the\catcode'\noexpand\'\relax
717
                                    \catcode 61=\noexpand\the\catcode'\noexpand\=\relax
718
                            }%
719
                      }%
720
                       \n
721
               }%
722
723 \x
724 \@makeother\'
725 \mbox{@makeother}=
726 }{}}
727 %%
728 \renewcommand\appendix{\par
                \setcounter{section}{0}%
729
                \setcounter{subsection}{0}%
730
                \setcounter{equation}{0}
731
                \gdef\thefigure{\@Alph\c@section.\arabic{figure}}%
732
                \gdef\thetable{\@Alph\c@section.\arabic{table}}%
733
734
                \gdef\thesection{\appendixname\@Alph\c@section}%
                \@addtoreset{equation}{section}%
735
                \gdef\theequation{\@Alph\c@section.\arabic{equation}}%
736
737 }
738 \def\appendixname{Appendix }
739
740 \% Added for work with amsrefs.sty
741
742 \@ifpackageloaded{amsrefs}%
743
744
                {\let\bibsection\relax%
745
                \AtBeginDocument{\def\cites@b#1#2,#3{%
746
                      \begingroup[%
                                   \toks@{\InnerCite{#2}#1}%
747
                                   \footnote{Minimum} $$ \ifx\end{map} $$
748
                                   \cites@c#3%
749
750 }}}
751 %
752 %%
753 (/class)
754 %
```

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Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

```
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                                                                                                                                                                                                     \subitem tnote+, 83, 1273,
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                                                                                                               \subitentest(\subivectors) \subitentest(\subivectors) \subitentest(\subivectors) \subivectors \
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addvspace=
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\text{Class} = \subitem *+\Attegrin \frac{59}{2} \\
\text{Class} \\
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