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# The elsarticle.cls – Implimentation

Elsevier Ltd

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### 1 Implementation

```
1 (*class)
2 %%
3 %%
4 %%
5 \def\RCSfile{elsarticle}%
6 \def\RCSversion{3.3}%
7 \def\RCSdate{2020/11/20}%
8 \def\@shortjnl{\relax}
9 \def\@journal{Elsevier Ltd}
10 \def\@company{Elsevier Ltd}
11 \def\@issn{000-0000}
12 \def\@shortjid{elsarticle}
13 \NeedsTeXFormat{LaTeX2e}[1995/12/01]
14 \ProvidesClass{\@shortjid}[\RCSdate, \RCSversion: \@journal]
15 \def\ABD{\AtBeginDocument}
16 \newif\ifpreprint \preprintfalse
17 \newif\ifnonatbib \nonatbibfalse
18 \newif\iflongmktitle \longmktitlefalse
19 \newif\ifnopreprintline \nopreprintlinefalse
20 \newif\ifdoubleblind \doubleblindfalse
24 \IfFileExists{expl3.sty}{%
25 \global\useexplthreefunctionstrue%
26 \RequirePackage{expl3}}{}
27 \ifuseexplthreefunctions\relax%
28 \IfFileExists{xparse.sty}{\RequirePackage{xparse}}{}
29 \IfFileExists{etoolbox.sty}{\RequirePackage{etoolbox}}{}
30 \fi
32 \def\@blstr{1}
33 \newdimen\@bls
34 \@bls=\baselineskip
36 \def\@finalWarning{%
38
    This document is typeset in the CRC style which\MessageBreak
    is not suitable for submission.\MessageBreak
    \MessageBreak
```

```
Please typeset again using 'preprint' option\MessageBreak
41
          for creating PDF suitable for submission.\MessageBreak
42
        43
44 }
45
46 \DeclareOption{preprint}{\global\preprinttrue
        \gdef\@blstr{1}\xdef\jtype{0}%
           \AtBeginDocument{\@twosidefalse\@mparswitchfalse}}
49 \DeclareOption{nopreprintline}{\global\nopreprintlinetrue}
50 \DeclareOption{final}{\gdef\@blstr{1}\global\preprintfalse}
51 \DeclareOption{review}{\global\preprinttrue\gdef\@blstr{1.5}}
52 \DeclareOption{authoryear}{\xdef\@biboptions{round,authoryear}}
53 \DeclareOption{number}{\xdef\@biboptions{numbers}}
54 \DeclareOption{numbers}{\xdef\@biboptions{numbers}}
55 \DeclareOption{nonatbib}{\global\nonatbibtrue}
56 \DeclareOption{longtitle}{\global\longmktitletrue}
57 \DeclareOption{5p}{\xdef\jtype{5}\global\preprintfalse
        \ExecuteOptions{twocolumn}}
58
        \def\jtype{0}
60 \DeclareOption{3p}{\xdef\jtype{3}\global\preprintfalse}
61 \DeclareOption{1p}{\xdef\jtype{1}\global\preprintfalse
        \AtBeginDocument{\@twocolumnfalse}}
62
63 \DeclareOption{times}{\IfFileExists{txfonts.sty}%
        {\tt AtEndOfClass{\tt NequirePackage{txfonts}\%}}
64
65
        \gdef\ttdefault{cmtt}%
66
       \let\iint\relax
       \let\iiint\relax
       \let\iiiint\relax
       \let\idotsint\relax
69
        \let\openbox\relax}}{\AtEndOfClass{\RequirePackage{times}}}}
70
71
72 \DeclareOption{endfloat}{\IfFileExists{endfloat.sty}
          {\tt AtEndOfClass{\tt NequirePackage[markers]{endfloat})}} {\tt } {\tt tendOfClass{\tt NequirePackage[markers]{endfloat})}} {\tt tendOfClass{\tt NequirePackage[markers]
74 \DeclareOption{endfloats}{\IfFileExists{endfloat.sty}
          {\AtEndOfClass{\RequirePackage[markers]{endfloat}}}{}}
76 \DeclareOption{numafflabel}
          78 \DeclareOption{lefttitle}
          {\AtBeginDocument{\def\elsarticletitlealign{flushleft}}} %*%
80 \DeclareOption{centertitle}
          {\AtBeginDocument{\def\elsarticletitlealign{center}}} %*%
82 \DeclareOption{reversenotenum}
          {\AtBeginDocument{\def\theaffn{\arabic{affn}}}
83
            \def\thefnote{\alph{fnote}}}}
84
85 \DeclareOption{doubleblind}{\doubleblindtrue}
86
87 \ExecuteOptions{a4paper,10pt,oneside,onecolumn,number,preprint,centertitle}
88 \DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
89 \ProcessOptions
90 \LoadClass{article}
91 \RequirePackage{graphicx}
```

#### 2 Preamble

```
92 \let\comma\@empty
  93 \let\tnotesep\@empty
  94 \let\@title\@empty
  95
  96 \def\useelstitle{}
  98 \def\title#1{\g@addto@macro\@title{#1%
                                     \global\let\tnoteref\@gobble}%
100
                                     \g@addto@macro\useelstitle{#1}}
101
102 \def\elsLabel#1{\@bsphack\protected@write\@auxout{}%
                                             {\string\Newlabel{#1}{\@currentlabel}}\@esphack}
103
104 \end{small} 104 \end{sma
105
106 \end{X0\#1} \{0\} {\csname X0\#1} endcsname} \}
107
108 \let\@tnotemark\@empty
109
110 \ifdoubleblind
               \def\tnotemark[#1]{}
111
112 \else
                 \def\tnotemark[#1]{\@for\mytmark:=#1\do{%
113
114 %
                                         \expandafter\ifcase\csname X@\mytmark\endcsname\or$^{\star}$\or
                                         \end{mytmark} 
115
116
                                     $^{,\star\star}$\fi
                          }%
117
118 }
119 \fi
120
121 \def\tnoteref#1{\tnotemark[{#1}]}
122 \let\@tnotes\@empty
123 \newcounter{tnote}
124 \ensuremath{\mbox{\mbox{$124$ \codetext[$\#1]$ $\#2{\g@addto@macro}@tnotes{\%}$}}}
                  \stepcounter{tnote}\elsLabel{#1}%
125
                           \def\thefootnote{\ifcase\c@tnote\or$\star$\or$\star\star$\fi}%
126
127
                           \footnotetext{#2}}}
128
129 \let\@nonumnotes\@empty
130 \def\nonumnote#1{\g@addto@macro\@nonumnotes{%
131
                              \let\thefootnote\relax\footnotetext{#1}}}
132
133 \newcounter{fnote}
134 \def\thefnote{\arabic{fnote}}
135 \def\fnmark[#1]{\let\comma\@empty
                           \def\@fnmark{\@for\@@fnmark:=#1\do{%
136
                           \edef\fnotenum{\@ifundefined{X@\@@fnmark}{1}{\elsRef{\@@fnmark}}}%
137
138
                   \unskip\comma\fnotenum\let\comma,}}%
139 }
140
141 \def\fnref#1{\fnmark[#1]}
142
143 \let\@fnotes\@empty\let\@fnmark\@empty
144 \ensuremath{\mbox{ lef} \mbox{fintext[#1] #2{\g@addto@macro}@fnotes{\%}}}
                      \refstepcounter{fnote}\elsLabel{#1}%
```

```
\def\thefootnote{\c@fnote}%
146
      \global\setcounter{footnote}{\c@fnote}%
147
      \footnotetext{#2}}}
148
149
150 \def\cormark[#1] {\edef\cnotenum{\elsRef{#1}}%
       \unskip\textsuperscript{\sep\ifcase\cnotenum\or
151
          $\ast$\or$\ast\ast$\fi\hspace{-1pt}}\let\sep=,}
152
153
154 \let\@cormark\@empty
155 \let\@cornotes\@empty
156 \newcounter{cnote}
157 \def\cortext[#1]#2{\g@addto@macro\@cornotes{%
       \refstepcounter{cnote}\elsLabel{#1}%
158
       \def\thefootnote{\ifcase\thecnote\or$\ast$\or
159
160
       $\ast\ast$\fi}%
       \footnotetext{#2}}}
161
162
163 \let\@corref\@empty
164 \def\corref#1{\edef\cnotenum{\elsRef{#1}}%
165
       \edef\@corref{\ifcase\cnotenum\or
            $\ast$\or$\ast\ast$\fi\hskip-1pt}}
166
167
168 \def\resetTitleCounters{\c@cnote=0
      \c@fnote=0 \c@footnote=0}
169
170
171 \let\eadsep\@empty
172 \def\@elseads{}
173 \let\@elsuads\@empty
174 \let\@cormark\@empty
175 \def\hashchar{\expandafter\@gobble\string\^}
176 \def\underscorechar{\expandafter\@gobble\string\_}
177 \def\lbracechar{\expandafter\@gobble\string\{}
178 \def\rbracechar{\expandafter\@gobble\string\}}
179
180 \gdef\ead{\@ifnextchar[{\@uad}{\@ead}}
181 \gdef\@ead#1{\bgroup
      \def\_{\underscorechar}%
182
183
      \def\{{\lbracechar}%
184
      \def~{\hashchar}%
185
      \def\}{\rbracechar}%
186
      \edef\tmp{\the\@eadauthor}%
187
      \immediate\write\@auxout{\string\emailauthor
188
        {#1}{\expandafter\strip@prefix\meaning\tmp}}%
189
      \egroup
190 }
191 \newcounter{ead}
192 \gdef\emailauthor#1#2{\stepcounter{ead}%
        \g@addto@macro\@elseads{\raggedright%
193
         \let\corref\@gobble\def\@@tmp{#1}%
194
195
         \eadsep{\ttfamily\expandafter\strip@prefix\meaning\@@tmp}
196
         (#2)\def\eadsep{\unskip,\space}}%
197 }
198 \gdef\@uad[#1]#2{\bgroup
      \def~{\hashchar}%
199
```

```
\def\_{\underscorechar}%
200
      \def^{\hashchar}%
201
       \def\}{\rbracechar}%
202
       \edef\tmp{\the\@eadauthor}
203
204
       \immediate\write\@auxout{\string\urlauthor
         {#2}{\expandafter\strip@prefix\meaning\tmp}}%
205
206
     \egroup
207 }
208 \end{area} $$ \gdef\urlauthor #1#2{\g@add to @macro\\@elsuads{\let\corref\@gobble\%} } 
209
         \def\@@tmp{#1}\raggedright\eadsep
         {\ttfamily\expandafter\strip@prefix\meaning\@0tmp}\space(#2)%
210
         \def\eadsep{\unskip,\space}}%
211
212 }
213
214 \def\elsauthors{}
215 \def\useauthors{}
216 \def\elsprelimauthors{}
217
218 \def\pprinttitle{}
219 \let\authorsep\@empty
220 \let\prelimauthorsep\@empty
221 \let\sep\@empty
222 \newcounter{author}
223 \def\author{\@ifnextchar[{\@@author}{\@author}}
224
225 \newtoks\@eadauthor
226 \def\@@author[#1]#2{%
        \g@addto@macro\elsprelimauthors{%
227
         \prelimauthorsep#2%
228
229
         \def\prelimauthorsep{\unskip,\space}}%
230
        \g@addto@macro\elsauthors{%
        \def\baselinestretch{1}%
231
        \authorsep#2\unskip\textsuperscript{\%#1\%
232
          \ensuremath{\texttt{Qfor}\ensuremath{\texttt{Q0affmark}:=\#1\do\{\%\ensuremath{\texttt{M}}\ensuremath{\texttt{M}}\ensuremath{\texttt{M}}}}
233
           234
235
         \unskip\sep\affnum\let\sep=,}%
          \ifx\@fnmark\@empty\else\unskip\sep\@fnmark\let\sep=,\fi
236
237
          \ifx\@corref\@empty\else\unskip\sep\@corref\let\sep=,\fi
238
239
        \def\authorsep{\unskip,\space}%
240
        \global\let\sep\@empty\global\let\@corref\@empty
241
        \global\let\@fnmark\@empty}%
242
        \@eadauthor={#2}%
        \g@addto@macro\useauthors{#2; }%
243
244 }
245
246 \def\@author#1{%
        \g@addto@macro\elsprelimauthors{%
247
         \prelimauthorsep#1%
248
249
         \def\prelimauthorsep{\unskip,\space}}%
250
        \g@addto@macro\elsauthors{\normalsize%
251
        \def\baselinestretch{1}%
        \verb|\upshape=authorsep#1=\unskip=textsuperscript{% }
252
          \ifx\@fnmark\@empty\else\unskip\sep\@fnmark\let\sep=,\fi
253
```

```
\ifx\@corref\@empty\else\unskip\sep\@corref\let\sep=,\fi
254
255
        ጉ%
      \def\authorsep{\unskip,\space}%
256
      \global\let\@fnmark\@empty
257
                                   \global\let\sep\@empty}%
      \global\let\@corref\@empty
258
      \@eadauthor={#1}%
259
      \g@addto@macro\useauthors{#1; }%
260
261 }
262
263 \AtBeginDocument{%
    \@ifpackageloaded{hyperref}{%
264
      \expandafter\gdef\csname Hy@title\endcsname{\useelstitle}%
265
      \expandafter\gdef\csname Hy@author\endcsname{\useauthors}%
266
267
268 }
269
270 \def\elsaddress{}
271 \def\addsep{\par\vskip6pt}
272
273 \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
274
    l\or m\or o\or p\or q\or r\or s\or t\or u\or v\or w\or x\or
275
276
    v\or z%
    \or aa\or ab\or ac\or ad\or ae\or af\or ag\or ah\or ai\or aj\or
277
    ak\or al\or am\or an\or ao\or ap\or aq\or as\or at\or au\or
278
279
    av\or aw\or ax\or ay\or az%
    \or ba\or bb\or bc\or bd\or be\or bf\or bg\or bh\or bj\or
    bk\or bl\or bm\or bo\or bp\or bq\or br\or bs\or bt\or bu\or
281
    bv\or bw\or bx\or by\or bz%
283
    \or ca\or cb\or cc\or cd\or ce\or cf\or cg\or ch\or ci\or cj\or
284
    ck\or cl\or cm\or co\or co\or cq\or cr\or cs\or ct\or cu\or
285
    cv\or cw\or cx\or cy\or cz%
    286
    dk\or dl\or dm\or do\or dp\or dq\or dr\or ds\or du\or
287
288
    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
289
    ek\or el\or em\or eo\or ep\or eq\or es\or et\or eu\or
290
291
    ev\or ew\or ex\or ey\or ez%
    \or fa\or fb\or fc\or fd\or fe\or ff\or fg\or fh\or fi\or fj\or
293
    fk\or fl\or fm\or fo\or fp\or fq\or fr\or fs\or ft\or fu\or
    fv\or fw\or fx\or fy\or fz%
    296
    gk\or gl\or gm\or go\or go\or gq\or gr\or gs\or gt\or gu\or
    \verb"gv\or gw\or gx\or gy\or gz\%"
297
    \else\@ctrerr\fi}
298
299
300 \newcounter{affn}
301 \renewcommand\theaffn{\alph{affn}}
303 \ifuseexplthreefunctions\relax%
304
    \ExplSyntaxOn
305
    \def\ca_affitem_postskip{\mbox{~}\unskip\ignorespaces}
306
    %%Author Address
    \DeclareDocumentCommand \ca_organization { O{,} m }
```

```
308
          #2 #1\mbox{~}\unskip\ignorespaces
309
         \csgappto { ca_affiliation_values } { #2 #1\ca_affitem_postskip }
310
311
     \DeclareDocumentCommand \ca_postal_code { O{,} m }
312
313
          #2 #1\mbox{~}\unskip\ignorespaces
314
         \csgappto { ca_affiliation_values } { #2 #1\ca_affitem_postskip }
315
       }
316
     \DeclareDocumentCommand \ca_aff_city { O{,} m }
317
318
          #2 #1\mbox{~}\unskip\ignorespaces
319
         \csgappto { ca_affiliation_values } { #2 #1\ca_affitem_postskip }
320
321
     \DeclareDocumentCommand \ca_address_line { O{,}m }
322
323
          #2 #1\mbox{~}\unskip\ignorespaces
324
         \csgappto { ca_affiliation_values } { #2 #1\ca_affitem_postskip }
325
326
     \DeclareDocumentCommand \ca_state { O{,} m }
327
328
          #2 #1\mbox{~}\unskip\ignorespaces
329
         \csgappto { ca_affiliation_values } { #2 #1\ca_affitem_postskip }
330
331
     \DeclareDocumentCommand \ca_country { O{ } m }
332
333
          #2 #1
334
         \csgappto { ca_affiliation_values } { #2 #1 }
335
336
337
     \DeclareDocumentCommand \ca_stm_organization { O{,} m }
338
339
         #2 #1\ca_affitem_postskip
340
341
     \DeclareDocumentCommand \ca_stm_postal_code { O{,} m }
342
343
344
         #2 #1\ca_affitem_postskip
345
346
     \DeclareDocumentCommand \ca_stm_aff_city { O{,} m }
347
348
         #2 #1\ca_affitem_postskip
349
     \DeclareDocumentCommand \ca_stm_aff_address_line { O{,}m }
350
351
352
         #2 #1\ca_affitem_postskip
353
     \DeclareDocumentCommand \ca_stm_state { O{,} m }
354
355
         #2 #1\ca_affitem_postskip
356
357
358
     \DeclareDocumentCommand \ca_stm_country { O{ } m }
359
         #2 #1
360
       }
361
```

```
362
     \keys_define:nn { stm / affiliation }
363
364
                             = \l_organization_punc_tl,
365
              .tl set x:N
         op
                             .tl_set_x:N = \l_organization_punc_tl,
366
         oraganizationsep
                             = \l_address_line_punc_tl,
367
              .tl_set_x:N
                          .tl_set_x:N = \l_address_line_punc_tl,
368
         addresslinesep
              .tl_set_x:N = \lower_tl,
369
370
                   .tl_set_x:N = \lower_tl,
371
              .tl_set_x:N
                            = \l_postal_code_punc_tl,
                                     = \l_postal_code_punc_tl,
372
         postcodesep
                        .tl_set_x:N
                            = \l_state_punc_tl,
              .tl_set_x:N
373
                                   = \l_state_punc_tl,
374
         statesep
                    .tl_set_x:N
                             = { \ca_organization[\l_organization_punc_tl]{#1} },
375
              .code:n
376
         organization
                          .code:n
                                        = { \ca_organization[\l_organization_punc_tl]{#1} },
                             = { \ca_address_line[\l_address_line_punc_tl]{#1} },
377
              .code:n
                                       = { \ca_address_line[\l_address_line_punc_tl]{#1} },
378
         addressline
                         .code:n
              .code:n
                             = { \ca_aff_city[\l_city_punc_tl]{#1} },
379
380
         city .code:n
                             = { \ca_aff_city[\l_city_punc_tl]{#1} },
381
               .code:n
                               { \ca_postal_code[\l_postal_code_punc_tl]{#1} },
         postcode
                                    = { \ca_postal_code[\l_postal_code_punc_tl]{#1} },
382
                     .code:n
                             = { \ca_state[\l_state_punc_tl]{#1} },
383
         s
              .code:n
                                 = { \ca_state[\l_state_punc_tl]{#1} },
384
         state
                  .code:n
                             = \l_organization_punc_tl,
385
         orp
              .tl_set_x:N
386
              .tl_set_x:N
                             = \l_address_line_punc_tl,
         adp
387
         cip
              .tl_set_x:N
                             = \l_city_punc_tl,
                             = \l_postal_code_punc_tl,
388
         рср
              .tl_set_x:N
                             = \l_state_punc_tl,
389
         stp
              .tl_set_x:N
              .tl_set_x:N
                             = \l_country_punc_tl,
390
         сур
                             = { \ca_organization[\l_organization_punc_tl]{#1} },
391
         or
              .code:n
                             = { \ca_address_line[\l_address_line_punc_tl]{#1} },
392
         ad
              .code:n
              .code:n
                             = { \ca_aff_city[\l_city_punc_tl]{#1} },
393
         ci
                             = { \ca_postal_code[\l_postal_code_punc_tl]{#1} },
394
         рс
              .code:n
              .code:n
                             = { \ca_state[\l_state_punc_tl]{#1} },
395
         st
              .code:n
                             = { \ca_country[\l_country_punc_tl]{#1} },
396
         cv
397
         country
                    .code:n
                             = { \ca_country[\l_country_punc_tl]{#1} },
         unknown
                    .code:n
                             = {
398
399
                                 \ifstrempty { #1 } {
400
                                      \csxappto { ca_affiliation_values }
401
                                            { {\l_keys_key_tl}~ }
                                    } {
402
403
                                       \csxappto { ca_affiliation_values }
                                            { {#1}~ }
404
                                    }
405
                               }
406
407
408
     \cs_set:Npn \__reset_affiliation:
409
410
411
       \tl_gset:Nn \l_organization_punc_tl { , }
412
       \tl_gset:Nn \l_address_line_punc_tl { , }
413
       \tl_gset:Nn \l_city_punc_tl { , }
414
       \tl_gset:Nn \l_postal_code_punc_tl { , }
       \tl_gset:Nn \l_state_punc_tl { , }
415
```

```
416
      \tl_gset:Nn \l_country_punc_tl { }
    }
417
418
    \DeclareDocumentCommand\affiliation{ o m }{
419
       \__reset_affiliation:
420
       \csgdef { ca_affiliation_values } { }
421
       \IfNoValueTF { #2 }
422
423
        { }
424
        {
         \keys_set:nn { stm / affiliation } { #2 }
425
        }
426
       \csgappto{elsaddress}{
427
        \def\baselinestretch{1}%
428
        \refstepcounter{affn}
429
        \xdef\@currentlabel{\theaffn}
430
        \IfNoValueTF { #1 }
431
          { }
432
433
          { \elsLabel{#1} }
434
        \textsuperscript{\theaffn}}
435
        \csxappto{elsaddress}{
          \csuse { ca_affiliation_values }
436
437
          \par
        }
438
439
    \ExplSyntaxOff
440
441
    \else%
    \def\caaffitempostskip{\space}
442
443
    \DeclareRobustCommand\caorganization[2][,]{%
444
       445
446
    }
    \DeclareRobustCommand\capostalcode[2][,]{%
447
       448
449
    \DeclareRobustCommand\caaffcity[2][,]{%
450
       \g@addto@macro\caaffiliationvalues{#2#1\caaffitempostskip}%
451
452
453
    \DeclareRobustCommand\caaddressline[2][,]{%
454
       \g@addto@macro\caaffiliationvalues{#2#1\caaffitempostskip}%
455
456
    \DeclareRobustCommand\castate[2][,]{%
457
       \g@addto@macro\caaffiliationvalues{#2#1\caaffitempostskip}%
    }
458
    \DeclareRobustCommand\cacountry[2][,]{%
459
460
       \g@addto@macro\caaffiliationvalues{#2#1\caaffitempostskip}%
461
    \DeclareRobustCommand\castmorganization[2][,]{%
462
       #2#1\caaffitempostskip%
463
464
465
    \DeclareRobustCommand\castmpostalcode[2][,]{%
466
       #2#1\caaffitempostskip%
467
     \DeclareRobustCommand\castmaffcity[2][,]{%
468
       #2#1\caaffitempostskip%
469
```

```
}
470
     \DeclareRobustCommand\castmaddressline[2][,]{%
471
        #2#1\caaffitempostskip%
472
473
     \DeclareRobustCommand\castmstate[2][,]{%
474
        #2#1\caaffitempostskip%
475
476
     \DeclareRobustCommand\castmcountry[2][,]{%
477
478
        #2#1\caaffitempostskip%
479
480
     \define@key{affiliation}{op}{\xdef\@organizationpunc{#1}}
481
     \define@key{affiliation}{orp}{\xdef\@organizationpunc{#1}}
482
     \define@key{affiliation}{organizationsep}{\xdef\@organizationpunc{#1}}
483
     \define@key{affiliation}{ap}{\xdef\@addresslinepunc{#1}}
484
     \define@key{affiliation}{adp}{\xdef\@addresslinepunc{#1}}
485
     \define@key{affiliation}{addresslinesep}{\xdef\@addresslinepunc{#1}}
486
     \define@key{affiliation}{cp}{\xdef\@citypunc{#1}}
487
488
     \define@key{affiliation}{cip}{\xdef\@citypunc{#1}}
489
     \define@key{affiliation}{cyp}{\xdef\@countrypunc{#1}}
490
     \define@key{affiliation}{citysep}{\xdef\@citypunc{#1}}
     \define@key{affiliation}{pp}{\xdef\@postcodepunc{#1}}
491
     \define@key{affiliation}{pop}{\xdef\@postcodepunc{#1}}
492
     \define@key{affiliation}{postcodesep}{\xdef\@postcodepunc{#1}}
493
494
     \define@key{affiliation}{sp}{\xdef\@statepunc{#1}}
495
     \define@key{affiliation}{stp}{\xdef\@statepunc{#1}}
     \define@key{affiliation}{statesep}{\xdef\@statepunc{#1}}
496
     \define@key{affiliation}{countrysep}{\xdef\@countrypunc{#1}}
497
498
499
     \define@key{affiliation}{organization}{%
500
      \caorganization[\@organizationpunc]{#1}}
     \define@key{affiliation}{addressline}{%
501
      \caaddressline[\@addresslinepunc]{#1}}
502
     \define@key{affiliation}{city}{%
503
      \caaffcity[\@citypunc]{#1}}
504
     \define@key{affiliation}{postcode}{%
505
      \capostalcode[\@postcodepunc]{#1}}
506
507
     \define@key{affiliation}{state}{%
508
      \castate[\@statepunc]{#1}}
509
     \define@key{affiliation}{or}{%
510
      \caorganization[\@organizationpunc]{#1}}
511
     \define@key{affiliation}{ad}{%
512
      \caaddressline[\@addresslinepunc]{#1}}
     \define@key{affiliation}{ci}{%
513
      \caaffcity[\@citypunc]{#1}}
514
     \define@key{affiliation}{po}{%
515
516
      \capostalcode[\@postcodepunc]{#1}}
     \define@key{affiliation}{st}{%
517
      \castate[\@statepunc]{#1}}
518
519
     \define@key{affiliation}{o}{%
520
      \caorganization[\@organizationpunc]{#1}}
521
     \define@key{affiliation}{a}{%
522
      \caaddressline[\@addresslinepunc]{#1}}
     \define@key{affiliation}{c}{%
523
```

```
\cacity[\@citypunc]{#1}}
524
     \define@key{affiliation}{p}{%
525
      \capostcode[\@postcodepunc]{#1}}
526
     \define@key{affiliation}{s}{%
527
      \castate[\@statepunc]{#1}}
528
     \define@key{affiliation}{cy}{%
529
      \cacountry[\@countrypunc]{#1}}
530
531
     \define@key{affiliation}{country}{%
532
      \cacountry[\@countrypunc]{#1}}
533
534
     \gdef\@resetaffiliation{%
535
       \gdef\@organizationpunc{,}%
536
       \gdef\@addresslinepunc{,}%
537
       \gdef\@citypunc{,}%
538
       \gdef\@statepunc{,}%
539
       \gdef\@postcodepunc{,}%
540
       \gdef\@countrypunc{}%
541
542
543
     \def\affiliation{\@ifnextchar[{\@@affiliation}{\@affiliation}}
544
545
     \newcommand*{\newstmrobustcmd}{}
546
     \protected\def\newstmrobustcmd{\@star@or@long\stmetb@new@command}
547
548
     549
550
     \def\stmetb@newcommand#1[#2]{%
551
       \@ifnextchar[%]
552
         {\stmetb@xargdef#1[#2]}
553
         {\ifx\l@ngrel@x\relax
554
            \let\l@ngrel@x\protected
555
          \else
556
            \protected\def\l@ngrel@x{\protected\long}%
557
          \fi
558
559
          \@argdef#1[#2]}}
560
561
     \long\def\stmetb@xargdef#1[#2][#3]#4{%
562
       \@ifdefinable#1{%
563
         \expandafter\protected
564
         \expandafter\def
565
         \expandafter#1%
566
         \expandafter{%
           \expandafter\@testopt
567
           \csname\string#1\endcsname{#3}}%
568
569
         \expandafter\@yargdef\csname\string#1\endcsname\tw@{#2}{#4}}}
570
     \newcommand{\ifstmundef}[1]{%
571
       \ifdefined#1%
572
573
         \int x#1\relax
574
           \expandafter\expandafter
575
           \expandafter\@firstoftwo
576
         \else
           \expandafter\expandafter
577
```

```
\expandafter\@secondoftwo
578
                      \fi
579
                 \else
580
                      \expandafter\@firstoftwo
581
582
            \newcommand{\stmexpandonce}[1]{%
583
                 \unexpanded\expandafter{#1}}
584
             \newstmrobustcmd{\gstmappto}[2]{%
585
586
                 \ifundef{#1}
                      {\xdef#1{\unexpanded{#2}}}
587
                      {\xdef#1{\stmexpandonce#1\unexpanded{#2}}}}
588
             \newstmrobustcmd{\xstmappto}[2]{%
589
                 \ifstmundef{#1}
590
                      {\xdef#1{#2}}
591
                      {\xdef#1{\stmexpandonce#1#2}}}
592
593
594
            \long\def\@@affiliation[#1]#2{%
595
596
                      \@resetaffiliation%
597
                      \gdef\caaffiliationvalues{}%
                      \elsLabel{#1}%
598
                      \setkeys{affiliation}{#2}%
599
                      \g@addto@macro\elsaddress{%
600
                      \def\baselinestretch{1}%
601
602
                      \refstepcounter{affn}%
                      \xdef\@currentlabel{\theaffn}%
603
                      \elsLabel{#1}%
604
                      \textsuperscript{\theaffn}}
605
606
                      \xstmappto\elsaddress{\caaffiliationvalues\par}}
607
            \long\def\@affiliation#1{%
608
                      \@resetaffiliation%
609
                      \gdef\caaffiliationvalues{}%
610
                      \setkeys{affiliation}{#1}%
611
                      \g@addto@macro\elsauthors{%
612
613
                      \def\baselinestretch{1}}%
614
                      \xstmappto\elsaddress{\caaffiliationvalues\par}}
615 \fi
616
617 \end{figure} \begin{tabular}{ll} $$ 617 \end{tabular} \end{tabular} \begin{tabular}{ll} $$ 617 \end{tabular} \begin{tabular}{ll} \begin{tabular}{ll} $$ 61
618
619
       \long\def\@@address[#1]#2{\g@addto@macro\elsaddress{%
                 \def\baselinestretch{1}%
620
                    \refstepcounter{affn}
621
                    \xdef\@currentlabel{\theaffn}
622
                    \elsLabel{#1}%
623
                 \textsuperscript{\theaffn}#2\par}}
624
625
626 \long\def\@address#1{\g@addto@macro\elsauthors{%
627
                 \def\baselinestretch{1}%
628
                 \addsep\footnotesize\itshape#1\def\addsep{\par\vskip6pt}%
629
                 \def\authorsep{\par\vskip8pt}}}
630
631 \newbox\absbox
```

```
632 \let\@elsarticleabstitle\@empty %*%
633 \def\abstracttitle#1{\gdef\@elsarticleabstitle{#1}} %*%
634 \abstracttitle{Abstract} %*%
635 \renewenvironment{abstract}{\global\setbox\absbox=\vbox\bgroup
     \hsize=\textwidth\def\baselinestretch{1}%
636
     \noindent\unskip\textbf{\@elsarticleabstitle} %*%
637
    \par\medskip\noindent\unskip\ignorespaces}
638
    {\egroup}
640
641 \newbox\elsarticlehighlightsbox
642 \newbox\elsarticlegrabsbox
643 \def\@elsarticlehighlightstitle{Highlights}
644 \def\@elsarticlegrabstitle{Graphical Abstract}
645 \newif\ifelsprelimpagegrabs\global\elsprelimpagegrabsfalse
646 \mbox{ }\mbox{ hewif\ }\mbox{ if elsprelimpagehl\ global\ elsprelimpagehl\ false
647 \def\elsarticleprelims{%
    \ifelsprelimpagegrabs\relax%
648
      \thispagestyle{empty}%
649
650
      \unvbox\elsarticlegrabsbox%
651
      \pagebreak\clearpage%
652
    \fi%
    \ifelsprelimpagehl\relax%
653
      \thispagestyle{empty}
654
      \unvbox\elsarticlehighlightsbox%
655
656
      \pagebreak\clearpage%
657
      \setcounter{page}{1}%
   \fi%
658
659 }
660 \newenvironment{highlights}{%
661
     \global\elsprelimpagehltrue%
     \global\setbox\elsarticlehighlightsbox=\vbox\bgroup
662
     \hsize=\textwidth\def\baselinestretch{1}%
663
     \noindent\unskip{\Large\@elsarticlehighlightstitle}%*%
664
     \par\vskip12pt\noindent\unskip\ignorespaces\textbf{\@title}%
665
     \ifx\elsprelimauthors\@empty\relax\else%
666
667
       \par\vskip6pt\noindent\unskip\ignorespaces\elsprelimauthors%
668
     \par\medskip\noindent\unskip\ignorespaces
670
    \begin{itemize}
671
    }
672
    {\end{itemize}
673
     \egroup}
674 \newenvironment{graphicalabstract}{%
     \global\elsprelimpagegrabstrue%
675
     \global\setbox\elsarticlegrabsbox=\vbox\bgroup
676
     \hsize=\textwidth\def\baselinestretch{1}%
677
     \noindent\unskip{\Large\@elsarticlegrabstitle}%*%
678
     \par\vskip12pt\noindent\unskip\ignorespaces\textbf{\@title}%
679
     \ifx\elsprelimauthors\@empty\relax\else%
680
681
       \par\vskip6pt\noindent\unskip\ignorespaces\elsprelimauthors%
682
     \fi%
683
    \par\medskip\noindent\unskip\ignorespaces}
684
    {\egroup}
```

685

```
686 \newbox\keybox
687 \let\@elsarticlekwdtitle\@empty %*%
688 \def\keywordtitle#1{\gdef\@elsarticlekwdtitle{#1}} %*%
689 \def\keywordtitlesep#1{\gdef\@elsarticlekeywordtitlesep{#1}} %*%
690 \keywordtitle{Keywords} %*%
691 \keywordtitlesep{:\}
692 \def\keyword{%
     \def\sep{\unskip, }%
    \label{lem:constraint} $$ \def\MSC{\@ifnextchar[{\MSC}_{\MSC[2000]})} $$
694
     \def\@MSC[##1]{\par\leavevmode\hbox {\it ##1~MSC:\space}}%
695
     \def\PACS{\par\leavevmode\hbox {\it PACS:\space}}%
696
     \def\JEL{\par\leavevmode\hbox {\it JEL:\space}}%
697
     \global\setbox\keybox=\vbox\bgroup\hsize=\textwidth
698
     \normalsize\normalfont\def\baselinestretch{1}
699
700
     \parskip\z@
     \noindent\textit{\@elsarticlekwdtitle\@elsarticlekeywordtitlesep}
701
                                             % Keywords are not justified.
702
     \raggedright
     \ignorespaces}
704 \def\endkeyword{\pi \egroup}
705
706 \newdimen\Columnwidth
707 \Columnwidth=\columnwidth
708
709 \def\printFirstPageNotes{%
     \iflongmktitle
710
       \let\columnwidth=\textwidth
711
    \fi
713 \ifdoubleblind
714 \ensuremath{\setminus} else
     \ifx\@tnotes\@empty\else\@tnotes\fi
715
     \ifx\@nonumnotes\@empty\else\@nonumnotes\fi
716
     \ifx\@cornotes\@empty\else\@cornotes\fi
717
     \ifx\@elseads\@empty\relax\else
718
      \let\thefootnote\relax
719
      \footnotetext{\ifnum\theead=1\relax
720
721
         \textit{Email address:\space}\else
722
         \textit{Email addresses:\space}\fi
723
        \@elseads}\fi
724
     \ifx\@elsuads\@empty\relax\else
725
      \let\thefootnote\relax
726
      \footnotetext{\textit{URL:\space}%
727
        \@elsuads}\fi
728 \fi
     \ifx\@fnotes\@empty\else\@fnotes\fi
729
     \iflongmktitle\if@twocolumn
730
      \let\columnwidth=\Columnwidth\fi\fi
731
732 }
734 %% Pushing text to begin on newpage %*%
735 \def\newpage@after@title{title}
736 \def\newpage@after@author{author}
737 \def\newpage@after@abstract{abstract}
738 \def\newpageafter#1%
       {\gdef\@elsarticlenewpageafter{#1}}
739
```

```
740
741 \long\def\pprintMaketitle{\clearpage
     \iflongmktitle\if@twocolumn\let\columnwidth=\textwidth\fi\fi
742
     \resetTitleCounters
743
     \def\baselinestretch{1}%
744
     \printFirstPageNotes
745
     \begin{\elsarticletitlealign}%
746
    \thispagestyle{pprintTitle}%
747
748
      \def\baselinestretch{1}%
       \Large\@title\par\vskip18pt%
749
       \ifx\@elsarticlenewpageafter\newpage@after@title% %*%
750
         \newpage
751
752
       \fi%
       \ifdoubleblind
753
         \vspace*{2pc}
754
755
       \else
          \normalsize\elsauthors\par\vskip10pt
756
757
         \footnotesize\itshape\elsaddress\par\vskip36pt
758
       \ifx\@elsarticlenewpageafter\newpage@after@author% %*%
759
760
         \newpage
       \fi%
761
       \hrule\vskip12pt
762
       \ifvoid\absbox\else\unvbox\absbox\par\vskip10pt\fi
763
764
       \ifvoid\keybox\else\unvbox\keybox\par\vskip10pt\fi
765
       \hrule\vskip12pt
       \ifx\@elsarticlenewpageafter\newpage@after@abstract% %*%
766
767
         \newpage
768
       \fi%
       \end{\elsarticletitlealign}%
769
       \gdef\thefootnote{\arabic{footnote}}%
770
     }
771
772
773 \def\printWarning{%
        \mbox{}\par\vfill\par\bgroup
774
775
        \fboxsep12pt\fboxrule1pt
776
        \hspace*{.18\textwidth}
777
        \fcolorbox{gray50}{gray10}{\box\warnbox}
778
        \egroup\par\vfill\thispagestyle{empty}
779
        \setcounter{page}{0}
780
        \clearpage}
781
782 \long\def\finalMaketitle{%
     \resetTitleCounters
783
     \def\baselinestretch{1}%
784
      \MaketitleBox
785
      \thispagestyle{pprintTitle}%
786
     \gdef\thefootnote{\arabic{footnote}}%
787
788
789
790 \long\def\MaketitleBox{%
791
     \resetTitleCounters
     \def\baselinestretch{1}%
792
     \begin{\elsarticletitlealign}%
793
```

```
\def\baselinestretch{1}%
794
       \Large\@title\par\vskip18pt
795
     \ifdoubleblind
796
       \vspace*{2pc}
797
798
     \else
       \normalsize\elsauthors\par\vskip10pt
799
       \footnotesize\itshape\elsaddress\par\vskip36pt
800
801
       \hrule\vskip12pt
802
       \ifvoid\absbox\else\unvbox\absbox\par\vskip10pt\fi
803
       \ifvoid\keybox\else\unvbox\keybox\par\vskip10pt\fi
804
       \hrule\vskip12pt
805
       \end{\elsarticletitlealign}%
806
807 }
808
809 \def\FNtext#1{\par\bgroup\footnotesize#1\egroup}
810 \newdimen\space@left
812
                \typeout{#1}%
                \typeout{*********************************
813
814 }
815
816 \def\titlespancalculator#1#2#3#4{%
     % break count
817
     \@tempcnta=#4\relax%
818
819
     % pagebreakcount increment
     \advance\@tempcnta by 1\relax%
820
     % title page height
821
    \@tempdima=#1\relax%
822
    % Page height - title page notes height (only for first break)
823
    % Page height - textheight (for remaining breaks)
824
     % Page height - title page notes height
825
     \@tempdimb=#2\relax%
826
     % Remaining title page height
827
     \verb|\advance|@tempdima - \the|@tempdimb%|
828
829
     % Checks if remaining title page
830
     % height less than textheight
831
     \ifdim\the\@tempdima>#3\relax%
832
        \titlespancalculator%
         {\theta}_{\#3}_{\#3}_{\theta}\
833
834
     \else%
835
     % Save break count and exit.
        \xdef\savetitlepagespan{\the\@tempcnta}%
836
     \fi%
837
838 }%
839
840 \long\def\myfor#1#2#3{%
     \@tempcnta=#1\relax%
841
     \infnum#1<#2\relax%
842
843
       \advance\@tempcnta by 1\relax%
844
       \myfor{\the\center}{#2}{#3}%
845
846
     \fi}
847
```

```
848 \long\def\getSpaceLeft\{\%\global\@twocolumnfalse\%\global\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpaceLeft\getSpace
               \global\setbox0=\vbox{\hsize=\textwidth\MaketitleBox}%
849
               \global\setbox1=\vbox{\hsize=\textwidth
850
                 \let\footnotetext\FNtext
851
                 \printFirstPageNotes}%
852
                 \xdef\noteheight{\the\ht1}%
853
                 \xdef\titleheight{\the\ht0}%
854
855
                 \@tempdima=\vsize
856
                 \advance\@tempdima-\noteheight
                 \advance\@tempdima-1\baselineskip
857
                 \xdef\savefpageheight{\the\@tempdima}%
858
                 \setbox2=\vbox{\titlespancalculator{\titleheight}%
859
                         {\savefpageheight}{\textheight}{0}}%
860
861 }
862
863
            \skip\footins=24pt
864
865 \newbox\els@boxa
866 \newbox\els@boxb
867
868 \ifpreprint
            \def\maketitle{\elsarticleprelims\pprintMaketitle}
869
870
              \ifnum\jtype=1
871
872
                 \def\maketitle{%
873
                      \elsarticleprelims%
                      \iflongmktitle\getSpaceLeft
874
                           \ifdim\noteheight>0pt%
875
876
                 \advance\@tempdima-1.35\baselineskip
877
                           \fi%
                         \global\setbox\els@boxa=\vsplit0 to \@tempdima
878
                         \box\els@boxa\par\resetTitleCounters
879
                         \thispagestyle{pprintTitle}%
880
                         \printFirstPageNotes
881
                         \ifnum\savetitlepagespan>1\relax%
882
                         \myfor{2}{\savetitlepagespan}{%
883
                         \global\setbox\els@boxb=\vsplit0 to \textheight%\@tempdima
884
885
                         \box\els@boxb}
                         \else%
887
                        \fi%
888
                        \box0%
889
                      \else
                        \finalMaketitle\printFirstPageNotes
890
891
                 \gdef\thefootnote{\arabic{footnote}}}%
892
            \else
893
894
          \ifnum\jtype=5
                 \def\maketitle{%
895
                      \elsarticleprelims%
896
897
                      \iflongmktitle\getSpaceLeft
898
                           \ifdim\noteheight>0pt%
899
                 \advance\@tempdima-1.35\baselineskip
900
                           \fi%
                         \global\setbox\els@boxa=\vsplit0 to \@tempdima
901
```

```
\box\els@boxa\par\resetTitleCounters
902
          \thispagestyle{pprintTitle}%
903
          \printFirstPageNotes
904
          \ifnum\savetitlepagespan>1\relax%
905
906
          \myfor{2}{\savetitlepagespan}{%
          \global\setbox\els@boxb=\vsplit0 to \textheight%\@tempdima
907
          \twocolumn[\box\els@boxb]}
908
909
          \else%
910
          \fi%
          \twocolumn[\box0]%\printFirstPageNotes
911
912
         \else
          \twocolumn[\finalMaketitle]\printFirstPageNotes
913
914
        \fi
        \gdef\thefootnote{\arabic{footnote}}}
915
916
     \else
     \if@twocolumn
917
       \def\maketitle{%
918
           \elsarticleprelims%
919
920
           \iflongmktitle\getSpaceLeft
921
             \ifdim\noteheight>0pt%
       \advance\@tempdima-1.35\baselineskip
922
           \fi%
923
          \global\setbox\els@boxa=\vsplit0 to \@tempdima
924
          \box\els@boxa\par\resetTitleCounters
925
926
          \thispagestyle{pprintTitle}%
          \printFirstPageNotes
927
          \ifnum\savetitlepagespan>1\relax%
928
          \myfor{2}{\savetitlepagespan}{%
929
          \global\setbox\els@boxb=\vsplit0 to \textheight%\@tempdima
930
931
          \twocolumn[\box\els@boxb]}
          \else%
932
          \fi%
933
          \twocolumn[\box0]%
934
         \else
935
          \twocolumn[\finalMaketitle]\printFirstPageNotes
936
937
938
        \gdef\thefootnote{\arabic{footnote}}}%
939
      \else
940
       \def\maketitle{%
941
         \elsarticleprelims%
942
         \iflongmktitle\getSpaceLeft
943
           \ifdim\noteheight>0pt%
       \advance\@tempdima-1.35\baselineskip
944
           \fi%
945
          \global\setbox\els@boxa=\vsplit0 to \@tempdima
946
          \box\els@boxa\par\resetTitleCounters
947
948
          \thispagestyle{pprintTitle}%
          \printFirstPageNotes
949
          \ifnum\savetitlepagespan>1\relax%
950
951
          \myfor{2}{\savetitlepagespan}{%
952
          \global\setbox\els@boxb=\vsplit0 to \textheight%\@tempdima
953
          \box\els@boxb}
          \else%
954
          \fi%
955
```

```
\box0%
956
        \else
957
           \elsarticleprelims%
958
           \finalMaketitle\printFirstPageNotes
959
960
961
       \gdef\thefootnote{\arabic{footnote}}}%
962
      \fi
963
     \fi
964
    \fi
965 \fi
966
967 \let\@elsarticlemyfooter\@empty
968 \let\@elsarticlemyfooteralign\@empty
969 \def\@elsarticlemyfooteralignleft{L}
970 \def\@elsarticlemyfooteralignright{R}
971 \def\@elsarticlemyfooteraligncenter{C}
972
973 \def\myfooter[#1]#2 %*%
          {\gdef\@elsarticlemyfooteralign{#1}
974
           \gdef\@elsarticlemyfooter{#2}}
975
976
977
978 \def\myfooterfont#1{\gdef\@myfooterfont{#1}}
979 \myfooterfont{\footnotesize\itshape}
```

# 3 Headers/footers

```
980 \def\ps@pprintTitle{%
         \let\@oddhead\@empty
 982
         \let\@evenhead\@empty
         \def\@oddfoot
 983
           {\hox to \text{textwidth}}
 984
            {\ifnopreprintline\relax\else
 985
             \@myfooterfont%
 986
              \ifx\@elsarticlemyfooteralign\@elsarticlemyfooteraligncenter%
 987
                \hfil\@elsarticlemyfooter\hfil%
 988
 989
 990
              \ifx\@elsarticlemyfooteralign\@elsarticlemyfooteralignleft%
                \@elsarticlemyfooter\hfill{}%
 992
              \else%
              \ifx\@elsarticlemyfooteralign\@elsarticlemyfooteralignright%
 993
 994
                {}\hfill\@elsarticlemyfooter%
              \else%
 995
                    Preprint submitted to \ifx\@journal\@empty%
 996
                      Elsevier%
 997
                 \else\@journal\fi\hfill\@date\fi%
998
              \fi%
999
              \fi%
1000
1001
             \fi%
1002
             }
1003
           }%
         \let\@evenfoot\@oddfoot}
1004
```

# 4 Section headings

```
1005 \def\@seccntDot{.}
1006 \end{center} $1006 \end{c
1007
1008 \renewcommand\section{\@startsection {section}{1}{\z@}%
                                                {18\p@ \@plus 6\p@ \@minus 3\p@}%
1009
                                                {9\p@ \@plus 6\p@ \@minus 3\p@}%
1010
                                                {\normalsize\bfseries\boldmath}}
1011
1012 \renewcommand\subsection{\@startsection{subsection}{2}{\z@}%
                                                {12\p@ \@plus 6\p@ \@minus 3\p@}%
1013
                                                {3\p@ \@plus 6\p@ \@minus 3\p@}%
1014
                                                {\normalfont\normalsize\itshape}}
1015
1016 \renewcommand\subsubsection{\@startsection{subsubsection}{3}{\z@}%
                                                {12\p@ \@plus 6\p@ \@minus 3\p@}%
1017
1018
                                                {\p@}%
                                                {\normalfont\normalsize\itshape}}
1019
1020
1021 \def\paragraph{\secdef{\els@aparagraph}{\els@bparagraph}}
1022 \def\els@aparagraph[#1]#2{\elsparagraph[#1]{#2.}}
1023 \def\els@bparagraph#1{\elsparagraph*{#1.}}
1024
1025 \newcommand\elsparagraph{\@startsection{paragraph}{4}{0}z@}%
1026
                                                {10\p@ \@plus 6\p@ \@minus 3\p@}%
1027
                                                {-6\p@}%
                                                {\normalfont\itshape}}
1028
```

#### 5 List environment

```
1029 \newdimen\leftMargin
1030 \leftMargin=2em
1031 \newtoks\@enLab
                                                            %\newtoks\@enfont
1032 \def\@enQmark{?}
1033 \def\@enLabel#1#2{%
                 \edef\@enThe{\noexpand#1{\@enumctr}}%
                 \@enLab\expandafter{\the\@enLab\csname the\@enumctr\endcsname}%
1035
1036
                 \@enloop}
1037 \def\@enSpace{\afterassignment\@enSp@ce\let\@tempa= }
1038 \end{10} en Sp@ce{\end} expand fter{\the\end} space{\end} enloop{}
1039 \end{formula} $$1039 \end{formula} \end{formula} $$1039 \end{form
1040 \def\@enOther#1{\@enLab\expandafter{\the\@enLab#1}\@enloop}
1041 \def\@enloop{\futurelet\@entemp\@enloop@}
1042 \def\@enloop@{%
                 \ifx A\@entemp
                                                                                     \def\@tempa{\@enLabel\Alph }\else
                 \ifx a\@entemp
                                                                                     \def\@tempa{\@enLabel\alph }\else
1044
                 \ifx i\@entemp
                                                                                     \def\@tempa{\@enLabel\roman }\else
1045
1046
                 \ifx I\@entemp
                                                                                     \def\@tempa{\@enLabel\Roman }\else
1047
                 \ifx 1\@entemp
                                                                                     \def\@tempa{\@enLabel\arabic}\else
                 \ifx \@sptoken\@entemp \let\@tempa\@enSpace
1048
                                                                                                                                                                           \else
                 \ifx \bgroup\@entemp
                                                                                     \let\@tempa\@enGroup
                                                                                                                                                                           \else
1049
                 \ifx \@enum@\@entemp
                                                                                     \let\@tempa\@gobble
                                                                                                                                                                           \else
1050
                                                                                      \let\@tempa\@enOther
1051
1052
                                                  \fi\fi\fi\fi\fi\fi\fi
1053
                 \@tempa}
```

```
1054 \verb|\newlength{\color=0.054|} \label{length{\color=0.054|}} $$ \newlength{\color=0.054|} $$ \newlength{\color=0.054|} $$ $$ \newlength{\color=0.054|} $$ \newlength{\color=0.054|} $$ $$ \newlength{\color=0.054|} $$ $$ \newlength{\color=0.054|} 
1055 \setlength{\@sep}{.5\baselineskip plus.2\baselineskip
                                             minus.2\baselineskip}
1056
1057 \setlength{\Q@sep}{.1\baselineskip plus.01\baselineskip}
1058
                                             minus.05\baselineskip}
1059 \providecommand{\sfbc}{\rmfamily\upshape}
1060 \providecommand{\sfn}{\rmfamily\upshape}
1061 \def\@enfont{\ifnum \@enumdepth >1\let\@nxt\sfn \else\let\@nxt\sfbc \fi\@nxt}
1062 \def\enumerate{%
                    \ifnum \@enumdepth >3 \@toodeep\else
1063
                             \advance\@enumdepth \@ne
1064
1065
                             \edef\@enumctr{enum\romannumeral\the\@enumdepth}\fi
                    \@ifnextchar[{\@@enum@}{\@enum@}}
1066
1067 \def\@@enum@[#1]{%
                 \@enLab{}\let\@enThe\@enQmark
1068
1069
                  \@enloop#1\@enum@
                  \ifx\@enThe\@enQmark\@warning{The counter will not be printed.%
1070
                    ^^J\space\@spaces\@spaces\fi
1071
1072
                 \expandafter\edef\csname label\@enumctr\endcsname{\the\@enLab}%
1073
                 \expandafter\let\csname the\@enumctr\endcsname\@enThe
                  \csname c@\@enumctr\endcsname7
1074
                  \expandafter\settowidth
1075
                                              \csname leftmargin\romannumeral\@enumdepth\endcsname
1076
1077
                                               {\the\@enLab\hskip\labelsep}%
1078
                 \@enum@}
1079 \def\@enum@{\list{{\@enfont\csname label\@enumctr\endcsname}}%
                                           \label{label} $$ \sup_{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensurem
1080
                          \ifnum \@enumdepth>1\setlength{\topsep}{\@@sep}\else
1081
1082
                                           \setlength{\topsep}{\@sep}\fi
                          \ifnum \@enumdepth>1\setlength{\itemsep}{Opt plus1pt minus1pt}%
1083
                            \else \setlength{\itemsep}{\00sep}\fi
1084
                          %\setlength\leftmargin{\leftMargin}%%%{1.8em}
1085
                          \setlength{\parsep}{Opt plus1pt minus1pt}%
1086
                          \setlength{\parskip}{Opt plus1pt minus1pt}
1087
1088
1089
1090 \def\endenumerate{\par\ifnum \@enumdepth >1\addvspace{\@@sep}\else
1091
                                           \addvspace{\@sep}\fi \endlist}
1092
1093 \def\sitem{\@noitemargtrue\@item[\@itemlabel *]}
1094
1095 \def\itemize{\@ifnextchar[{\@Itemize}{\@Itemize[]}}
1096
1097 \def\@Itemize[#1]{\def\next{#1}%
                 \ifnum \@itemdepth >\thr@@\@toodeep\else
1098
                   \advance\@itemdepth\@ne
1099
                 \ifx\next\@empty\else\expandafter\def\csname
1100
                   labelitem\romannumeral\the\@itemdepth\endcsname{#1}\fi%
1101
                 \edef\@itemitem{labelitem\romannumeral\the\@itemdepth}%
1103
                 \expandafter\list\csname\@itemitem\endcsname
1104
              {\def\makelabel##1{\hss\llap{##1}}}%
1105 \fi}
```

#### 6 Theorem environment

```
1106 \def\newdefinition#1{%
1107 \@ifnextchar[{\@odfn{#1}}{\@ndfn{#1}}}%]
1108 \def\@ndfn#1#2{%
     \@ifnextchar[{\@xndfn{#1}{#2}}{\@yndfn{#1}{#2}}}
1109
1110 \def\@xndfn#1#2[#3]{%}
      \expandafter\@ifdefinable\csname #1\endcsname
1111
        {\@definecounter{#1}\@newctr{#1}[#3]%
1112
         \expandafter\xdef\csname the#1\endcsname{%
1113
            \expandafter\noexpand\csname the#3\endcsname \@dfncountersep
1114
               \@dfncounter{#1}}%
1115
         \label{local_def} $$  \global\0namedef{#1}{\0dfn{#1}{#2}}%
1116
         \global\@namedef{end#1}{\@enddefinition}}}
1117
1118 \def\@yndfn#1#2{%
1119
      \expandafter\@ifdefinable\csname #1\endcsname
1120
        {\@definecounter{#1}%
         \verb|\expandafter\xdef\csname| the #1\endcsname{$\dfncounter{#1}}|% $
1121
         \label{local_def} $$  \global\0namedef{#1}{\0dfn{#1}{#2}}%
1122
         \global\@namedef{end#1}{\@enddefinition}}}
1123
1124 \def\@odfn#1[#2]#3{%
      \@ifundefined{c@#2}{\@nocounterr{#2}}%
1125
        {\expandafter\@ifdefinable\csname #1\endcsname
1126
        {\global\@namedef{the#1}{\@nameuse{the#2}}
1127
      \global\Qnamedef{#1}{\Qdfn{#2}{#3}}%
1128
1129
      \global\@namedef{end#1}{\@enddefinition}}}}
1130 \def\@dfn#1#2{%
      \refstepcounter{#1}%
1131
      \c \fi = \c \fi = \c \fi
1132
1133 \def\@xdfn#1#2{%
      \@begindefinition{#2}{\csname the#1\endcsname}\ignorespaces}
1134
1135 \def\@ydfn#1#2[#3]{%
      \@opargbegindefinition{#2}{\csname the#1\endcsname}{#3}\ignorespaces}
1137 \def\@dfncounter#1{\noexpand\arabic{#1}}
1138 \def\@dfncountersep{.}
1139 \def\@begindefinition#1#2{\trivlist
1140
       \item[\hskip\labelsep{\bfseries #1\ #2.}]\upshape}
1141 \def\@opargbegindefinition#1#2#3{\trivlist
          \left[\hskip\abelsep{\bfseries #1\ #2\ (#3).}\right]\upshape}
1142
1143 \def\@enddefinition{\endtrivlist}
1144
1145 \def\@begintheorem#1#2{\trivlist
      \let\baselinestretch\@blstr
1146
       \item[\hskip \labelsep{\bfseries #1\ #2.}]\itshape}
1148 \def\@opargbegintheorem#1#2#3{\trivlist
      \let\baselinestretch\@blstr
1149
1150
          \item[\hskip \labelsep{\bfseries #1\ #2\ (#3).}]\itshape}
1151
1152 \def\newproof#1{%
      \@ifnextchar[{\@oprf{#1}}{\@nprf{#1}}}
1153
1154 \def\@nprf#1#2{%
      \@ifnextchar[{\@xnprf{#1}{#2}}{\@ynprf{#1}{#2}}}
1155
1156 \def\@xnprf#1#2[#3] {%
      \expandafter\@ifdefinable\csname #1\endcsname
```

```
{\@definecounter{#1}\@newctr{#1}[#3]%
1158
                   \expandafter\xdef\csname the#1\endcsname{%
1159
                       \expandafter\noexpand\csname the#3\endcsname \@prfcountersep
1160
                              \@prfcounter{#1}}%
1161
                   \global\@namedef{#1}{\@prf{#1}{#2}}%
1162
                   \global\@namedef{end#1}{\@endproof}}}
1163
1164 \def\@ynprf#1#2{%
            \expandafter\@ifdefinable\csname #1\endcsname
1166
                 {\@definecounter{#1}%
                   \expandafter\xdef\csname the#1\endcsname{\@prfcounter{#1}}%
1167
                   \global\@namedef{#1}{\@prf{#1}{#2}}%
1168
                   \global\@namedef{end#1}{\@endproof}}}
1169
1170 \def\@oprf#1[#2]#3{%
            \@ifundefined{c@#2}{\@nocounterr{#2}}%
1171
                 {\expandafter\@ifdefinable\csname #1\endcsname
1172
                 {\global\normalcolor=} {\global\normalcolor=} {\normalcolor=} {\normalcolor=
1173
             \global\@namedef{#1}{\@prf{#2}{#3}}%
1174
             \global\@namedef{end#1}{\@endproof}}}}
1176 \def\@prf#1#2{%
1177
            \refstepcounter{#1}%
            \@ifnextchar[{\@yprf{#1}{#2}}{\@xprf{#1}{#2}}}
1178
1179 \def\@xprf#1#2{%
            \Obeginproof{#2}{\csname the#1\endcsname}\ignorespaces}
1180
1181 \def\@yprf#1#2[#3]{%
            \@opargbeginproof{#2}{\csname the#1\endcsname}{#3}\ignorespaces}
1183 \def\@prfcounter#1{\noexpand\arabic{#1}}
1184 \def\@prfcountersep{.}
1185 \def\@beginproof#1#2{\trivlist\let\baselinestretch\@blstr
               \item[\hskip \labelsep{\scshape #1.}]\rmfamily}
1187 \def\@opargbeginproof#1#2#3{\trivlist\let\baselinestretch\@blstr
                     \item[\hskip \labelsep{\scshape #1\ (#3).}]\rmfamily}
1188
1189 \def\@endproof{\endtrivlist}
1190 \mbox{\mbox{\hfill}\Box$}
1192 \@ifundefined{@biboptions}{\xdef\@biboptions{numbers}}{}
1193 \InputIfFileExists{\jobname.spl}{}{}
1194 \ifnonatbib\relax\else
1195
            \RequirePackage[\@biboptions]{natbib}
1196 \fi
1197 \newwrite\splwrite
1198 \immediate\openout\splwrite=\jobname.spl
1199 \def\biboptions#1{\def\next{#1}\immediate\write\splwrite{%
1200
               \string\g@addto@macro\string\@biboptions{%
                 ,\expandafter\strip@prefix\meaning\next}}}
1201
1202
1203 \let\baselinestretch=\@blstr
```

# 7 Page dimensions and margins for final form

### 7.1 Option 1p

```
1204 \ifnum\jtype=1
1205 \RequirePackage{geometry}
1206 \geometry{twoside,
```

```
paperwidth=210mm,
1207
      paperheight=297mm,
1208
     textheight=562pt,
1209
1210 textwidth=384pt,
1211 centering,
1212 headheight=50pt,
1213 headsep=12pt,
1214
      footskip=12pt,
     footnotesep=24pt plus 2pt minus 12pt,
1215
1216 }
1217 \global\let\bibfont=\footnotesize
1218 \ \global\bibsep=0pt
1219 \if@twocolumn\global\@twocolumnfalse\fi
1220 %
7.2
     Option '3p'
1221 \leq ifnum \neq 3
1222 \RequirePackage{geometry}
1223 \geometry{twoside,
1224 paperwidth=210mm,
      paperheight=297mm,
1225
      textheight=622pt,
1226
1227
      textwidth=468pt,
      centering,
1228
1229
      headheight=50pt,
      headsep=12pt,
1230
1231
      footskip=18pt,
1232
      footnotesep=24pt plus 2pt minus 12pt,
1233
      columnsep=2pc
1234 }
1235 \global\let\bibfont=\footnotesize
1236 \ \global\bibsep=0pt
1237 \if@twocolumn\input{fleqn.clo}\fi
7.3
      Option '5p'
1238 \else\ifnum\jtype=5
1239 \RequirePackage{geometry}
1240 \geometry{twoside,
      paperwidth=210mm,
1241
      paperheight=297mm,
1242
1243
     textheight=682pt,
1244 textwidth=522pt,
1245
     centering,
1246 headheight=50pt,
1247 headsep=12pt,
1248 footskip=18pt,
1249 footnotesep=24pt plus 2pt minus 12pt,
1250 columnsep=18pt
1251 }%
1252 \global\let\bibfont=\footnotesize
1253 \global\bibsep=0pt
1254 \input{fleqn.clo}
1255 \ \global\@twocolumntrue
1256 %%
```

```
1257 %% End of option '5p'
1258 %%
1259 \fi\fi\fi
```

### 8 Other items

```
1260 \def\journal#1{\gdef\@journal{#1}}
1261 \let\@journal\@empty
1262 \newenvironment{frontmatter}{}{\maketitle}
1263
1264 \geq 1264 \leq 
1265
                     \vskip\abovecaptionskip\footnotesize
                     \sbox\@tempboxa{#1: #2}%
1266
                     \ifdim \wd\@tempboxa >\hsize
1267
                            #1: #2\par
1268
1269
                     \else
1270
                            \global \@minipagefalse
1271
                            \hb@xt@\hsize{\hfil\box\@tempboxa\hfil}%
1272
                     \vskip\belowcaptionskip}
1273
1274
1275 \verb| AtBeginDocument{\cite{conded{hyperref}}} 
                     {\def\@linkcolor{blue}
1276
                        \def\@anchorcolor{blue}
1277
                        \def\@citecolor{blue}
1278
                        \def\@filecolor{blue}
1279
1280
                        \def\@urlcolor{blue}
1281
                        \def\@menucolor{blue}
1282
                        \def\@pagecolor{blue}
1283 \begingroup
                    \@makeother\'%
1284
                     \@makeother\=%
1285
                     \left( x_{x}\right) 
1286
                            \ensuremath{\texttt{def}}\noexpand\x{\%}
1287
                                   \endgroup
1288
1289
                                   \noexpand\toks@{%
1290
                                          \catcode 96=\noexpand\the\catcode'\noexpand\'\relax
1291
                                          \catcode 61=\noexpand\the\catcode'\noexpand\=\relax
                                  }%
1292
                           }%
1293
                            \n
1294
1295
                    }%
1296 \x
1297 \@makeother\'
1298 \@makeother\=
1299 }{}}
1300 %%
1301 \def\appendixname{Appendix }
1302 \renewcommand\appendix{\par
1303
                    \setcounter{section}{0}%
1304
                     \setcounter{subsection}{0}%
1305
                     \setcounter{equation}{0}
                     \gdef\thefigure{\@Alph\c@section.\arabic{figure}}%
1306
                     \gdef\thetable{\@Alph\c@section.\arabic{table}}%
1307
```

```
1308
      \@addtoreset{equation}{section}%
1309
      \gdef\theequation{\@Alph\c@section.\arabic{equation}}%
1310
      \addtocontents{toc}{\string\let\string\numberline\string\tmptocnumberline}{}{}
1311
1312 }
1313
1314 %%%% \numberline width calculation for appendix.
1315 \newdimen\appnamewidth
1316 \def\tmptocnumberline#1{%
       \setbox0=\hbox{\appendixname}
1317
       \appnamewidth=\wd0
1318
       \addtolength\appnamewidth{2.5pc}
1319
       \hb@xt@\appnamewidth{#1\hfill}
1320
1321 }
1322
1323 %% Added for work with amsrefs.sty
1324
1325 \@ifpackageloaded{amsrefs}%
1326
      {}
      {%\let\bibsection\relax%
1327
      \AtBeginDocument{\def\cites@b#1#2,#3{%
1328
        \begingroup[%
1329
            \toks@{\InnerCite{#2}#1}%
1330
1331
            \ifx\@empty#3\@xp\@gobble\fi
1332
            \cites@c#3%
1333 }}}
1334 %%
1335 %% Added for avoiding clash with cleveref.sty
1336 \@ifpackageloaded{cleveref}%
1337 {}
1338 {\def\tnotetext[#1]#2{\g@addto@macro\@tnotes{%
        \refstepcounter{tnote}%
1339
        \immediate\write\@auxout{\string\Newlabel{#1}{\thetnote}}
1340
        \def\thefootnote{\ifcase\c@tnote\or$\star$\or$\star\star$\fi}%
1341
        \footnotetext{#2}}}
1342
1343 %%%
1344
      \def\fntext[#1]#2{\g@addto@macro\@fnotes{%
1345
        \refstepcounter{fnote}%
1346
        \immediate\write\@auxout{\string\Newlabel{#1}{\thefnote}}
1347
        \def\thefootnote{\thefnote}%
1348
        \global\setcounter{footnote}{\c@fnote}%
1349
        \footnotetext{#2}}}
1350 %%%
      \def\cortext[#1]#2{\g@addto@macro\@cornotes{%
1351
1352
        \refstepcounter{cnote}%
        \immediate\write\@auxout{\string\Newlabel{#1}{\thecnote}}
1353
        \def\thefootnote{\ifcase\c@cnote\or$\ast$\or
1354
        $\ast\ast$\fi}%
1355
        \footnotetext{#2}}}
1356
1357 }
1358
1359 \def\textmarker#1#2{\textcolor{#1}{#2}}%*%
1360 (/class)
```

1361 %

### Index

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.

```
\subitem *+\baselimeskip2, \haclindex{34}{code}{34},85
                             \subitem *+
                                                                                                                                  baselineskip=
                                                                                      691.
                                                                                                                                                                   876,
                                                                                                                                                                                                                     922,
                                                                                                                                                                                                                                                                                                     346, 348, 350,
                                                 +.
                                 1140.
                                                                                 1142.
                                                                                                                                                                   944.
                                                                                                                                                                                                                    1055.
                                                                                                                                                                                                                                                                                                     352, 354, 356,
                                                                                                                                                                                                                                                                                                     358, 375, 376,
                                 1147,
                                                                1150,
                                                                                                                                                                   1056,
                                                                                                                                                                                                    1057.
                                                                                                                                  baselinestretch=
                                                                                                                                                                                                                              \subitem *+\ba3eIinestretth, \hdclindex{231}{code}{
                                                  \subitem *+\ABD+, \hdc12ndex{15}{60de}{15}
                                                                                                                                                                                                                                                                                                     380, 381, 382,
                                                                                                    \subitem *+\above620tionskip+, \hdclin2ex{1265}{code}{1265}
abovecaptionskip=
                                                          699, 744, 748,
                                                                                                                                                                                                                                                                                                     395,
                                                                                                                                                                                                                                                                                                                                   396,
abstracttitle=
                                                                                  \subitem *+\abst<mark>facttiftfe+,7%</mark>hdclind@x[kB3}f@de}{633\sy<mark>bi</mark>tem *+\caaddressline+,
                                                            \subitem *+\address+, \frac{11}{6} \dclindex \frac{6}{617} \{code\} \{617\}^2,
address=
                                                          addsep=
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                         57, 60, 61, 63,
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                        80. 82. 85.
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def =
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879. 901. 902.

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