# fmocdmac — FM's OCD LATEX Macro\*

# Fabio Mogavero fm@fabiomogavero.com

Released 2024/02/21

#### Abstract

This package contains almost all the latex macros I heavily use in my tcs research activity and, in particular, in the writing of conference and journal articles. As few of my co-authors have kindly pointed out, and probably many have thought, they are somehow a clear expression of an underlying ocd-like behavior... hence the name!

# 1 Implementation & Usage

 $1 \langle *package \rangle$ 

# Required external packages:

```
2
3 \RequirePackage{etoolbox}
4
5 \RequirePackage{xargs}
6 \RequirePackage{xspace}
7 \RequirePackage{stringstrings}
```

## Package options:

```
10 %% Auxiliary packages
11 \newif\ifaux@ \aux@false
12 \DeclareOption{aux}{\aux@true}
13 \DeclareOption{noaux}{\aux@false}
15 %% AMS defaults
16 \newif\ifamsdef@ \amsdef@true
17 \DeclareOption{noamsdef}{\amsdef@false}
19 %% AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
21 \DeclareOption{noamsthm}{\amsthm@false}
23 %% Extended Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \DeclareOption{noenmtls}{\enmtls@false}
31 %% Hyper reference
32 \newif\ifhypref@ \hypref@true
33 \DeclareOption{nohypref}{\hypref@false}
```

<sup>\*</sup>This document describes version v0.29 of the fmocdmac package, last revised 2024/02/21.

```
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
37 \DeclareOption{nofnttls}{\fnttls@false}
39 %% Camera-ready version
40 \newif\ifcrv@ \crv@false
41 \DeclareOption{crv}{\crv@true}
43 %% Change bars
44 \newif\ifchgbar@ \chgbar@false
45 \DeclareOption{chgbar}{\chgbar@true}
47 %% Line numbers
48 \newif\iflinnum@ \linnum@false
49 \DeclareOption{linnum}{\linnum@true}
51
52 %% Text macro generation
53 \newif\iftxtgen@ \txtgen@false
54 \DeclareOption{txtgen}{\txtgen@true}
55 \DeclareOption{notxtgen}
    {\txtgen@false\txt@false\com@false\gam@false\log@false\aut@false}
57
58 %% Math macro generation
59 \newif\ifmthgen@ \mthgen@false
60 \DeclareOption{mthgen}{\mthgen@true}
61 \DeclareOption{nomthgen}
    {\mthgen@false\mth@false\gam@false\log@false\aut@false}
63
65 %% Elementary macros for text
66 \newif\iftxt@ \txt@false
67 \DeclareOption{txt}{\txt@true\txtgen@true}
68 \label{lem:continuity} $$ \operatorname{DeclareOption}_{notxt}_{\text{txt@false}} $$
69
70 %% Elementary macros for math
71 \newif\ifmth@ \mth@false
72 \DeclareOption{mth}{\mth@true\mthgen@true}
73 \DeclareOption{nomth}{\mth@false}
76 %% Macros for computational-complexity classes
77 \newif\ifcom@ \com@false
78 \DeclareOption{com}{\com@true\txtgen@true}
79 \DeclareOption{nocom}{\com@false}
82 %% Macros for graphs
83 \newif\ifgrp@ \grp@false
84 \end{true} txtgen@true \end{true}
85 \DeclareOption{nogrp}{\grp@false}
87 %% Macros for games
88 \newif\ifgam@ \gam@false
89 \DeclareOption{gam}{\gam@true\txtgen@true\mthgen@true}
90 \DeclareOption{nogam}{\gam@false}
91
92 \%\% Macros for logics
93 \newif\iflog@ \log@false
94 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
95 \DeclareOption{nolog}{\log@false}
97 %% Macros for automata
```

```
99 \DeclareOption{aut}{\aut@true\txtgen@true\mthgen@true}
                 100 \DeclareOption{noaut}{\aut@false}
                102
                103 %% Format-related tricks
                 104 \newif\iffrm@ \frm@false
                 105 \DeclareOption{frm}{\frm@true}
                 106 \DeclareOption{nofrm}{\frm@false}
                 108
                 109 %% Figure-related tricks
                 110 \newif\iffig@ \fig@false
                 111 \DeclareOption{fig}{\fig@true}
                 112 \DeclareOption{nofig}{\fig@false}
                113
                114 %% Wrapfig package
                 115 \newif\ifwrpfig@ \wrpfig@true
                 116 \DeclareOption{nowrpfig}{\wrpfig@false}
                 117
                 118
                 119 %% Table-related tricks
                 120 \newif\iftab@ \tab@false
                 121 \DeclareOption{tab}{\tab@true}
                122 \DeclareOption{notab}{\tab@false}
                124
                 125 %% Algorithm-related tricks
                 126 \newif\ifalg@ \alg@false
                 127 \DeclareOption{alg}{\alg@true}
                 128 \DeclareOption{noalg}{\alg@false}
                Option-processing code:
                 131 \ensuremath{\mbox{\mbox{$131$ \colored{\mbox{\mbox{\mbox{\mbox{$131$ \colored{\mbox{\mbox{$131$ \colored{\mbox{$131$ \colored{\mb
                 133 \ExecuteOptions{aux,txtgen,mthgen,txt,mth,com,grp,gam,log,aut}%
                 135 \ProcessOptions\relax%
                 137 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
               Package main body:
                 \omicron Auxiliary Greek lowercase letter: ... to do!
                143 \csdef{omicron}{o}
   \Alpha Auxiliary Greek uppercase letters: ... to do!
         \begin{tabular}{l} $$ \csdef{Alpha}_A} \csdef{Beta}_B \csdef{Epsilon}_E} \csdef{varEpsilon}_E
                 145 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
                 146 \csdef{warKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{0}
                 147 \csdef\{Rho\}\{P\} \csdef\{VarRho\}\{P\} \csdef\{Tau\}\{T\} \csdef\{Chi\}\{X\}\}
```

98 \newif\ifaut@ \aut@false

```
and to Argument \langle B \rangle, otherwise.
            • \empchk{}{B} = ""
            • \empchk{A}{B} = "B"
          152 \DeclareRobustCommand{\empchk}[2]
               {\left\{ if \&#1\& else#2\right\} }
\defval Default value: \defval\{\langle A \rangle\}\{\langle B \rangle\} evaluates to Argument \langle B \rangle, if Argument \langle A \rangle is empty, and to
        Argument \langle A \rangle itself, otherwise.
            • \defval{}{B} = "B"
            • \defval{A}{B} = "A"
          154 \newcommand{\defval}[2]
              {\left\{ if \&#1\&#2\right\} }
          \arglef Left extension: \arglef{\langle}A\rangle} \ext{\langle} evaluates to the concatenation \langle AB \rangle of the two arguments, if
        Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
            • \arglef{A}{} = ""
            • \arglef{A}{B} = "AB"
          157 \DeclareRobustCommand{\arglef}[2]
              {\empchk{#2}{#1#2}}
\argrig Right extension: \argrig{\langle A\rangle}\{\langle B\rangle}\ evaluates to the concatenation \langle AB \rangle of the two arguments,
        if Argument \langle A \rangle is non-empty, and to the empty string, otherwise.
            • \argrig{}{B} = ""
            • \argrig{A}{B} = "AB"
          159 \DeclareRobustCommand{\argrig}[2]
              {\empchk{#1}{#1#2}}
\argmid\ Middle\ extension: \argmid\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\ evaluates to the concatenation \langle ABC \rangle of the three
        arguments, if Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
            • \argmid{A}{}{C} = ""
            • \argmid{A}{B}{C} = "ABC"
          161 \DeclareRobustCommand{\argmid}[3]
               {\empchk{#2}{#1#2#3}}
\argsep Separators: \argsep\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
        Argument \langle A \rangle, if Argument \langle C \rangle is empty, and to the concatenation \langle ABC \rangle, otherwise.
            • \argsep{}{B}{C} = "C"
            • \argsep{A}{B}{} = "A"
            • \argsep{A}{}{C} = "AC"
            • \argsep{A}{B}{C} = "ABC"
          163 \DeclareRobustCommand{\argsep}[3]
               {\if&#1&#3\else#1\arglef{#2}{#3}\fi}
          166 \DeclareRobustCommand{\varcmd}[6]
               {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
          167
                  {\csname check#1arg\endcsname{\argsep{##1}{#4}{\empchk{##2}{{##2}}}}}
          168
               \expandafter\newcommand\csname check#1arg\endcsname[1]
          169
                 {\csname @ifnextchar\endcsname%
          170
                    \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
          171
               \expandafter\newcommand\csname#1\endcsname[1]
          172
          173
                 {\csname check#1arg\endcsname{#3##1}}}
```

\empth Emptiness check: \empchk $\{\langle A \rangle\}\{\langle B \rangle\}$  evaluates to the empty string, if Argument  $\langle A \rangle$  is empty,

```
\seqoftag Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
             175 \DeclareRobustCommand{\seqoftag}[3]
                  {\@for\itr:={#1}\do%
                    {\expandafter\csedef{\itr#2}%
             177
             178
                      {\noexpand\csname #3\endcsname{\itr}}}
  \seqofcmd Sequence of commands: \seqofcmd\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
             179 \DeclareRobustCommand{\seqofcmd}[3]
             180
                  {\@for\itr:={#1}\do%
             181
                    {\expandafter\csedef{\itr#2}%
             182
                      {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}
             \sequipseqoflatlow Sequence of Latin lowercase letters: \sequipseqoflatlow\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             184 \DeclareRobustCommand{\seqoflatlow}
                 {\seqoftag{a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z}}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             186 \DeclareRobustCommand{\seqoflatupp}
                 {\seqoftag{A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z}}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             188 \DeclareRobustCommand{\seqoflatlet}[2]
                  {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
             \seqofgrklow Sequence of Greek lowercase letters: \sqootnote{seqofgrklow} \{\langle A \rangle\} \{\langle B \rangle\} \dots to do!
             191 \DeclareRobustCommand{\seqofgrklow}
                 {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                  iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
                  varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
             194
\seqofgrkupp Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             195 \DeclareRobustCommand{\seqofgrkupp}
                  Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                  varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
             198
\sequipseqofgrklet Sequence of Greek letters: \sequipseqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             199 \DeclareRobustCommand{\seqofgrklet}[2]
                  {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
             \seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
             202 \DeclareRobustCommand{\seqoflow}[2]
                  {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
   \seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             204 \DeclareRobustCommand{\seqofupp}[2]
                 {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
   \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             206 \DeclareRobustCommand{\segoflet}[2]
                  {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
```

```
212 \ifaux@
213
214 \ifamsdef@
215 % AMS Packages
   \RequirePackage{mathtools}
    \RequirePackage{amssymb}
    \RequirePackage{stmaryrd}
   \interdisplaylinepenalty=2500
220 \fi
221
222 \in \mathbb{C}
223 % AMS Theorem Tools
   \RequirePackage{amsthm}
225 \fi
226
227 \ifthmtls@
   % Extended Theorem Tools
    \RequirePackage{thmtools}
    \RequirePackage{thm-restate}
230
231 \fi
232
233 \ifenmtls@
234 % Enumeration Tools
    \RequirePackage{paralist}
236 \fi
237
238 \ifhypref@
    % Hyper References
    \RequirePackage{hyperref}
    \hypersetup {
     pdfsubject
                 = {},
242
     pdfkeywords
                = {},
243
     pdfproducer = {},
244
245
     pdfcreator
                 = {},
246
     pdfpagemode = {UseNone},
247
     pdfstartview = {FitH},
248
     urlcolor
                 = {blue},
249
     colorlinks
250 }
251 \fi
252
253 \iffnttls@
254 % Font Tools
255 \RequirePackage[final]{microtype}
256 \fi
257
258 \ifcrv@
    % Camera-Ready Version
261
    %%...
^{262}
263 \else
    % Draft Version
264
265
    %%...
266
267
    \ifchgbar@
268
269
     % Change Bars
270
      \RequirePackage{changebar}
271
    \fi
```

```
272
                   273
                           \iflinnum@
                  274
                              % Line Numbers
                  275
                              \if@twocolumn
                                 \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                  276
                  277
                              \else
                                 \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                  278
                  279
                              \fi
                           \fi
                  280
                  281
                          %%...
                  282
                  283
                  284 \fi
                  285
                  286 \fi
                  \mathbbo Bbo Math Font: ... to do!
                  291 \left( \frac{mathbbo}{{\mathbb{U}_{m}}_n} \right)
   \matheus Eus Math Font: ... to do!
                  292 \ifdef{\matheus}{}{\DeclareMathAlphabet{\matheus}{U}{eus}{m}{n}}
   \mathpzc Pzc Math Font: ... to do!
                  293 \ifdef{\mathpzc}{}{\DeclareMathAlphabet{\mathpzc}{T1}{pzc}{m}{it}}
   \mathscr Scr Math Font: ... to do!
                  294 \left\{ \mathbf{Wathscr} { \mathbb{U} { rsfs}{m}{n} } \right\}
                  \newtxt ... to do!
                      • \mbox{\ensuremath{\text{Name}}[sub][sup][Ext]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{Ext}}}
                       • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                       • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                      • \newtxt*[\rmfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                       • \newtxt*[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                       • \newtxt*[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                  299 \DeclareRobustCommand{\newtxt}
                         {\@ifstar{\@snewtxt}{\@newtxt}}
                   301 \DeclareRobustCommandx{\@newtxt}[5][1=, 3=, 4=, 5=]
                         {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
                  303 \DeclareRobustCommandx{\@snewtxt}[5][1=, 3=, 4=, 5=]
                          {#1#2\txtsubsup[#1]{#3}{#4}#5\normalfont\xspace}
\newtxtsty ... to do!
                      • \newtxtsty{\rmfamily}{Name}[sub][sup][Ext] = "Name_sub_Ext"
                      • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                       • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                       • \mbox{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxtsty*{\newtxts
                       • \newtxtsty*{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                       • \newtxtsty*{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
```

```
305 \DeclareRobustCommand{\newtxtsty}
                                                                           306 {\@ifstar{\@snewtxtsty}{\@newtxtsty}}
                                                                           307 \DeclareRobustCommandx{\@newtxtsty}[2][2=]
                                                                           308 {\newtxt[\defval{#2}{#1}]}
                                                                           309 \DeclareRobustCommandx{\@snewtxtsty}[2][2=]
                                                                           310 {\newtxt*[\defval{#2}{#1}]}
                  \newtxtarg ... to do!
                                                                                      \bullet \ \texttt{Name}_{sub}^{sup}[\texttt{Ext1}] \ \texttt{Arg}[\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}''
                                                                                      • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  }
                                                                                        \bullet \texttt{ \newtxtarg*[\nmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{\sup} Ext1(Arg) Ext2" } 
                                                                                       • \newtxtarg*[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                                      • \newtxtarg*[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                                                           311 \DeclareRobustCommand{\newtxtarg}
                                                                           312 {\@ifstar{\@snewtxtarg}{\@newtxtarg}}
                                                                           313 \DeclareRobustCommandx{\@newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                           314 {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
                                                                           315 \DeclareRobustCommandx{\@snewtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                           316 {\newtxt*[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
    \newtxtargsty ... to do!
                                                                                       \bullet \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1} \{ \mathrm{Arg} \} [\mathrm{Ext2}] = \mathrm{``Name}^{\sup}_{\sup} \mathrm{Ext1} (\mathrm{Arg}) \mathrm{Ext2''} 
                                                                                       \bullet \texttt{\newtxtargsty}(\texttt{\nmfamily})[\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfam
                                                                                      • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name sup Ext1(Arg)Ext2"
                                                                                        \bullet \texttt{\newtxtargsty*{\nmfamily}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{\sup} Ext1(Arg) Ext2" } 
                                                                                        \bullet \texttt{\newtxtargsty*{\nmfamily}[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = \texttt{``Name}^{sup}_{sub} Ext1(Arg) Ext2" } \\
                                                                                       • \newtxtargsty*{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup}Ext1(Arg)Ext2"
                                                                           317 \DeclareRobustCommand{\newtxtargsty}
                                                                           318 {\@ifstar{\@snewtxtargsty}{\@newtxtargsty}}
                                                                           319 \DeclareRobustCommandx{\@newtxtargsty}[2][2=]
                                                                           320 {\newtxtarg[\defval{#2}{#1}]}
                                                                           321 \DeclareRobustCommandx{\@snewtxtargsty}[2][2=]
                                                                                              {\newtxtarg*[\defval{#2}{#1}]}
              \newtxtoarg ... to do!
                                                                                      • \mbox{\ensuremath{\text{loss}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{sub}}}(Arg)
                                                                                      • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       • \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{[sub]}} \mbox{\ensuremath{[sup]}} \mbox{\ensuremath{[Arg]}} = \mbox{\ensuremath{"Name}} \mbox{\ensuremath{[sup]}} \mbox{\ensuremath{[Arg]}} = \mbox{\ensuremath{"Name}} \mbox{\ensuremath{[sub]}} \mbox{\e
                                                                                       • \newtxtoarg*[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       • \newtxtoarg*[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                           323 \DeclareRobustCommand{\newtxtoarg}
                                                                           324 {\@ifstar{\@snewtxtoarg}{\@newtxtoarg}}
                                                                           325 \DeclareRobustCommandx{\@newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                           326 {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
                                                                           327 \DeclareRobustCommandx{\@snewtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                                                {\newtxtarg*[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                                                                      • \new txtoargsty{\mbox{\sc Name}}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                      • \mbox{\normality}[\mbox{\normality}]{\normality}[\sub][\sub][\sub][\sub][\normality] = "Name_{sub}^{sup}(\normality)"
                                                                                       • \newtxtoargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       \bullet \ \texttt{\normalights} \ \texttt{\nor
                                                                                       • \new txtoargsty*{\new [sub][sup][Arg] = "Name_sub_{sub}(Arg)"}
```

```
329 \DeclareRobustCommand{\newtxtoargsty}
                                                             330 {\@ifstar{\@snewtxtoargsty}{\@newtxtoargsty}}
                                                             331 \DeclareRobustCommandx{\@newtxtoargsty}[2][2=]
                                                             332 {\newtxtoarg[\defval{#2}{#1}]}
                                                             333 \DeclareRobustCommandx{\@snewtxtoargsty}[2][2=]
                                                             334 {\newtxtoarg*[\defval{#2}{#1}]}
               \newtxtpar ... to do!
                                                                        \bullet \texttt{\ \ } \texttt{[Ext1] \{Par\}[Ext2]} = \texttt{\ \ \ } \texttt{\ \ } \texttt{Ext1[Par]Ext2"} 
                                                                       • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                       • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup_Ext1[Par]Ext2"
                                                                        \bullet \texttt{\newtxtpar*[\nmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2]} = "Name^{\sup}_{\sup} Ext1[Par] Ext2" 
                                                                        \bullet \texttt{\newtxtpar*[\sub][sub][sub][Ext1]{Par}[Ext2] = \texttt{``Name}^{sup}_{sub} \texttt{Ext1[Par]Ext2''} } 
                                                                       • \newtxtpar*[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name sup Ext1[Par]Ext2"
                                                              335 \DeclareRobustCommand{\newtxtpar}
                                                             336 {\@ifstar{\@snewtxtpar}{\@newtxtpar}}
                                                             337 \DeclareRobustCommandx{\Onewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                             338 {\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
                                                             339 \DeclareRobustCommandx{\@snewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                             340 {\newtxt*[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
   \newtxtparsty ... to do!
                                                                        \bullet \texttt{\newtxtparsty}(\texttt{\normally}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}\}[\texttt{Ext2}] = \texttt{\normall}(\texttt{Name}) \\ \texttt{\normall}(\texttt{\normall}(\texttt{Par})) \\ \texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\n
                                                                       • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name*sub*Ext1[Par]Ext2"
                                                                       • \newtxtparsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                       • \mbox{\newtxtparsty*{\nmfamily}{Name}[sub][sup][Ext1]{Par}[Ext2] = \mbox{\newtxtparsty*{\nmfamily}{Ext1[Par]Ext2"}}
                                                                        \bullet \texttt{\newtxtparsty*{\normalivg}[sub][sub][sub][Ext1]{Par}[Ext2] = \texttt{``Name}^{sup}_{sub} \texttt{Ext1[Par]Ext2''} 
                                                                        \bullet \mathtt{Name}_{sub}^{\mathsf{Sup}}[\mathsf{Ext1}] \\ \{\mathsf{Par}\}[\mathsf{Ext2}] = \mathtt{``Name}_{sub}^{\mathsf{Sup}}\mathsf{Ext1}[\mathsf{Par}] \\ \mathsf{Ext2}] \\ = \mathtt{``Name}_{sub}^{\mathsf{Sup}}\mathsf{Ext1}[\mathsf{Par}] \\ \mathsf{Ext2}[\mathsf{Par}] \\ \mathsf{Par}[\mathsf{Par}] 
                                                              341 \DeclareRobustCommand{\newtxtparsty}
                                                             342 {\@ifstar{\@snewtxtparsty}{\@newtxtparsty}}
                                                             343 \DeclareRobustCommandx{\@newtxtparsty}[2][2=]
                                                             344 {\text{newtxtpar[\defval{#2}{#1}]}}
                                                             345 \DeclareRobustCommandx{\@snewtxtparsty}[2][2=]
                                                             346 {\texttt{newtxtpar*[\defval{#2}{#1}]}}
           \newtxtopar ... to do!
                                                                       • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Par]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sup}}[Par]}"
                                                                       • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                       \bullet \ \texttt{\ \ } [Sub] \ [Sup] \ [Par] = "Name_{sub}^{sup} \ [Par]"
                                                                       • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Par]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sup}}[Par]}"
                                                                       • \newtxtopar*[\ttfamily]{Name}[sub][sup][Par] = "Name_sup_[Par]"
                                                              347 \DeclareRobustCommand{\newtxtopar}
                                                              348 {\@ifstar{\@snewtxtopar}{\@newtxtopar}}
                                                             349 \DeclareRobustCommandx{\@newtxtopar}[5][1=, 3=, 4=, 5=]
                                                             350 {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
                                                             351 \DeclareRobustCommandx{\@snewtxtopar}[5][1=, 3=, 4=, 5=]
                                                             352 {\newtxtpar*[#1]{#2}[#3][#4][]{#5}[]}
\mbox{\ensuremath{\text{newtxtoparsty}}} ... to do!
                                                                        \bullet \verb| \newtxtoparsty{\new1} {\rm [sub] [sup] [Par]} = "Name_{\rm sub}^{\rm sup} [Par]" \\
                                                                       • \newtxtoparsty{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub[Par]"
                                                                       • \newtxtoparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                       • \mbox{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\new
```

```
• \newtxtoparsty*{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub_Par]"
                                 • \newtxtoparsty*{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sup_[Par]"
                           353 \DeclareRobustCommand{\newtxtoparsty}
                           354 {\@ifstar{\@snewtxtoparsty}{\@newtxtoparsty}}
                           355 \DeclareRobustCommandx{\@newtxtoparsty}[2][2=]
                           356 {\newtxtopar[\defval{#2}{#1}]}
                           357 \DeclareRobustCommandx{\@snewtxtoparsty}[2][2=]
                                     {\newtxtopar*[\defval{#2}{#1}]}
\txtsubsup ... to do!
                                  \bullet \ \texttt{\txtsubsup\{sub\}\{\}} = \texttt{\txtsubsup\{\}} \{ sup \} = \texttt{\txtsubsup\{sub\}} \{ sup \} = \texttt{\txtsubsub\{sub\}} \{ sup \} = \texttt{\txtsubsubsub\{sub\}} \{ sup \} = \texttt{\txtsubsub\{sub\}} \{ sup \} = \texttt{\txtsubsub\{su
                                 • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                 • \txtsubsup[\ttfamily]{Aa}{Bb} = \(\frac{\lambda Bb}{\text{Aa}}\)
                           359 \DeclareRobustCommand{\txtsubsup}[3][]
                                     {\ensuremath{\empchk{#2}{_{\text{#1#2}}}\empchk{#3}{^{\text{#1#3}}}}}
              \txt ... to do!
                                 • \txt{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                 • \text{txt[\scshape]}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{"Name}_{\text{SUB}}^{\text{SUP}}EXT"
                                 • \txt[\bfseries]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                 • \text{txt*{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext"}
                                 • \text{txt*[\scshape]} \{\text{Name}\} [\text{sub}] [\text{Ext}] = \text{"Name}_{\text{SUB}}^{\text{SUP}} Ext"
                                 • \txt*[\bfseries]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                           362 \DeclareRobustCommand{\txt}
                                     {\@ifstar{\newtxtsty*{\txtsty}}{\newtxtsty{\txtsty}}}
       \txtarg ... to do!
                                 • \text{txtarg{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}"
                                 • \txtarg[\schape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{SUB}^{SUP}Ext1(Arg)Ext2"
                                  \bullet \texttt{ \txtarg[\bfseries] \{Name\}[sub] [sup] [Ext1] \{Arg\} [Ext2] = "Name} \\ \text{sub} \text{Ext1}(Arg) \text{Ext2"} 
                                 • \txtarg*{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                 • \txtarg*[\scshape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NAMESUBEXT1(ARG)EXT2"
                                  \verb| txtarg*[\bfseries]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2" 
                           364 \DeclareRobustCommand{\txtarg}
                                     {\@ifstar{\newtxtargsty*{\txtsty}}{\newtxtargsty{\txtsty}}}
    \txtoarg ... to do!
                                 • \txtoarg{Name}[sub][sup][Arg] = "Name<sub>sub</sub>(Arg)"
                                 • \txtoarg[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                                 • \text{txtoarg[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}] = \text{"Name}_{\text{sub}}^{\text{sup}}(\text{Arg})"
                                 • \txtoarg*{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                                 • \txtoarg*[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                                 • \txtoarg*[\bfseries]{Name}[sub][sup][Arg] = "Name^{sup}_{sub}(Arg)"
                           366 \DeclareRobustCommand{\txtoarg}
                                     {\@ifstar{\newtxtoargsty*{\txtsty}}{\newtxtoargsty{\txtsty}}}
      \txtpar ... to do!
                                 • \txtpar{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                 • \txtpar[\scshape] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "NAME_SUB_EXT1 [PAR] EXT2"
                                 • \txtpar[\bfseries] {Name} [sub] [sub] [Ext1] {Par} [Ext2] = "Name_sub_Ext1[Par]Ext2"
                                 • \txtpar*{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{\text{sub}}^{\text{sup}}Ext1[Par]Ext2"
```

• \txtpar\*[\scshape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAME\_SUP EXT1[PAR]EXT2"

```
 \verb| txtpar*[\bfseries]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2" 
                                               368 \DeclareRobustCommand{\txtpar}
                                                              {\@ifstar{\newtxtparsty*{\txtsty}}{\newtxtparsty{\txtsty}}}
          \txtopar ... to do!
                                                        • \text{txtopar{Name}[sub][sup][Par]} = \text{"Name}_{\text{sub}}^{\text{sup}}[Par]"
                                                        • \txtopar[\scshape]{Name}[sub][sup][Par] = "NAME_SUB[PAR]"
                                                         • \t vopar[\bfseries]{Name}[sub][sup][Par] = "Name <math>_{sub}^{sup}[Par]"
                                                         • \text{txtopar}*{\text{Name}}[\text{sub}][\text{sup}][\text{Par}] = \text{"Name}_{\text{sub}}^{\text{sup}}[\text{Par}]"
                                                         • \txtopar*[\scshape]{Name}[sub][sup][Par] = "NAME_SUB_[PAR]"
                                                         • \text{txtopar*[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}] = \text{"Name}_{\text{sub}}^{\text{sup}}[\text{Par}]"
                                                370 \DeclareRobustCommand{\txtopar}
                                                              {\@ifstar{\newtxtoparsty*{\txtsty}}{\newtxtoparsty{\txtsty}}}
              \txtsty ... to do!
                                                372 \DeclareRobustCommand{\txtsty}
                                                               {\mdseries\upshape\rmfamily}
                                               \cmdtxt ... to do!
                                                         • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                \verb|\txtNewCmd*{Name}|[sub][sup][Ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[Ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[Ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]|[ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]|[ext]|[ext]|[ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext
                                                375 \DeclareRobustCommand{\cmdtxt}[1]
                                                                {\csdef{txt#1}%
                                                                           {\protect\@ifstar%
                                               377
                                                                                  {\newtxtsty*{\csname txtsty#1\endcsname}}%
                                                378
                                               379
                                                                                  {\newtxtsty{\csname txtsty#1\endcsname}}}}
    \cmdtxtarg ... to do!
                                                         • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\Name|^{SUP}Ext1(Arg)Ext2|
                                                               \verb|\txtargNewCmd*{Name}| [sub] [sup] [Ext1] {Arg} [Ext2] = \verb|\txtargNewEmd*{Name}| 
                                                380 \DeclareRobustCommand{\cmdtxtarg}[1]
                                                                {\csdef{txtarg#1}%
                                               381
                                                                          {\protect\@ifstar%
                                               382
                                                                                  {\newtxtargsty*{\csname txtsty#1\endcsname}}%
                                               383
                                                                                  {\newtxtargsty{\csname txtsty#1\endcsname}}}}
                                               384
\cmdtxtoarg ... to do!
                                                         • \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\NAME_{SUB}^{SUP}(Arg)|
                                                               \verb|\txtoargNewCmd*{Name}[sub][sup][Arg] = \verb|\NAME|_{SUB}^{SUP}(Arg)
                                               385 \DeclareRobustCommand{\cmdtxtoarg}[1]
                                                              {\csdef{txtoarg#1}%
                                               386
                                                                           {\protect\@ifstar%
                                                387
                                                                                  {\newtxtoargsty*{\csname txtsty#1\endcsname}}%
                                               388
                                                                                  {\newtxtoargsty{\csname txtsty#1\endcsname}}}}
                                               389
   \cmdtxtpar ... to do!
                                                         • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                \verb|\txtparNewCmd*{Name}| [sub] [sup] [Ext1] {Par} [Ext2] = \verb|\txtparNewEsub| [sub] [sup] [Ext1] {Par} [Ext2] = \verb|\txtparNewEsub| [sub] [s
                                                390 \DeclareRobustCommand{\cmdtxtpar}[1]
                                                                  {\csdef{txtpar#1}%
                                                391
                                                                           {\protect\@ifstar%
                                                392
                                                                                   {\newtxtparsty*{\csname txtsty#1\endcsname}}%
                                                393
                                                394
                                                                                  {\newtxtparsty{\csname txtsty#1\endcsname}}}}
```

```
\cmdtxtopar ... to do!
                            • \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                \text{txtoparNewCmd}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}] = \text{Name}_{\text{SUB}}^{\text{SUP}}[\text{Par}]
                               \t \ [sub] [sup] [Par] = \ NAME_{SUB}^{SUP} [PAR]
                        395 \DeclareRobustCommand{\cmdtxtopar}[1]
                                 {\csdef{txtopar#1}%
                       396
                                     {\protect\@ifstar%
                       397
                                         {\newtxtoparsty*{\csname txtsty#1\endcsname}}%
                       398
                       399
                                         {\newtxtoparsty{\csname txtsty#1\endcsname}}}}
 \cmdtxtall ... to do!
                            • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                               \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|^{SUP}_{SUB}Ext|
                               \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\Name|_{SUB}^{SUP}Ext1(Arg)Ext2|
                               \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|_{SUB}^{SUP}(Arg)
                               \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\txtoparNewCmd{Name}[Par]|
                        400 \DeclareRobustCommand{\cmdtxtall}[1]
                                {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
                       \usrtxt ... to do!
                            • \usrtxt{cmdName}{Suf}{}:
                               \c MameSuf = cmdName
                               \c MameSuf* = cmdName
                               \usrtxt{cmdName}{Suf}{arg};
                               \cmdNameSuf{Arg} = cmdName(Arg)
                               \cmdNameSuf*{Arg} = cmdName(Arg)
                               \usrtxt{cmdName}{Suf}{par};
                               \cmdNameSuf{Par} = cmdName[Par]
                               \cmdNameSuf*{Par} = cmdName[Par]
                            \usrtxt{cmdName}{Suf}{}[newName];
                               \colone{line} 
                                \cmdNameSuf* = newName
                               \usrtxt{cmdName}{Suf}{arg}[newName];
                               \cmdNameSuf{Arg} = newName(Arg)
                               \c MameSuf*{Arg} = newName(Arg)
                               \usrtxt{cmdName}{Suf}{par}[newName];
                               \cmdNameSuf{Par} = newName[Par]
                               \c MameSuf*{Par} = newName[Par]
                        403 \DeclareRobustCommandx{\usrtxt}[4][4=]
                        404
                                {\csdef{#1#2}%
                                     {\protect\@ifstar%
                        405
                                        {\csname txt#3\endcsname*{\defval{#4}{#1}}}%
                       406
                                        {\csname txt#3\endcsname{\defval{#4}{#1}}}}
                       407
                       \newmth ... to do!
                            • \newmth[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                             \bullet \label{eq:continuous_sub} \ [\operatorname{Sub}] \ [\operatorname{Sup}] \ [\operatorname{Ext}] = \ ``\operatorname{Name}^{sup}_{sub} Ext" 
                            • \newmth*[mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                            \bullet \ \texttt{\ \ } [\mathtt{sub}] \ [\mathtt{sup}] \ [\mathtt{Ext}] = \ \texttt{\ \ \ } [\mathtt{Name}^{sup}_{sub} Ext"
                            • \newmth*[mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
```

```
413 {\@ifstar{\@snewmth}{\@newmth}}
                                                                                                                                 414 \DeclareRobustCommandx{\Onewmth}[5][1=, 3=, 4=, 5=]
                                                                                                                                 415 {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
                                                                                                                                 416 \DeclareRobustCommandx{\@snewmth}[5][1=, 3=, 4=, 5=]
                                                                                                                                417 {\ensuremath{\csname#1\endcsname #2\mthsubsup{#3}{#4}#5}}
                          \newmthsty ... to do!
                                                                                                                                                      • \newmthsty{mathrm}{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                        • \newmthsty{mathrm}[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                      • \newmthsty{mathrm} [mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                         \bullet \verb| \newmthsty*{mathrm}{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext" 
                                                                                                                                                        • \newmthsty*{mathrm} [mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                         \bullet \verb| \newmthsty*{mathrm}[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext" 
                                                                                                                                 418 \DeclareRobustCommand{\newmthsty}
                                                                                                                                                                      {\@ifstar{\@snewmthsty}{\@newmthsty}}
                                                                                                                                 420 \DeclareRobustCommandx{\@newmthsty}[2][2=]
                                                                                                                                                                      {\text{\newmth}[\defval{#2}{#1}]}
                                                                                                                                 422 \DeclareRobustCommandx{\@snewmthsty}[2][2=]
                                                                                                                                 423 {\newmth*[\defval{#2}{#1}]}
                          \newmtharg ... to do!
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                         \bullet \texttt{\newmtharg*[mathsf]{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}} [Ext2] = \texttt{``Name}^{sup}_{sub} Ext1(Arg^{Ex^{Ex}}) Ext2" 
                                                                                                                                                        • \newmtharg*[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                                                   424 \DeclareRobustCommand{\newmtharg}
                                                                                                                                                                   {\@ifstar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                 426 \DeclareRobustCommandx{\@newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                              {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left(\}{#6}{\right)\arglef{\!}{#7}}]}
                                                                                                                                 428 \DeclareRobustCommandx{\@snewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                      {\newmth[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
\newmthargsty ... to do!
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                         \bullet \texttt{\newmthargsty*\{mathrm\}\{Name\}[sub][sup][Ext1]\{Arg^{\{Ex^{\{Ex\}\}\}}[Ext2]} = \texttt{``Name}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2" } \\
                                                                                                                                                         \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                         \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                 430 \verb|\DeclareRobustCommand{\newmthargsty}|
                                                                                                                                                                {\@ifstar{\@snewmthargsty}{\@newmthargsty}}
                                                                                                                                 432 \DeclareRobustCommandx{\@newmthargsty}[2][2=]
                                                                                                                                 433 {\newmtharg[\defval{#2}{#1}]}
                                                                                                                                 434 \DeclareRobustCommandx{\@snewmthargsty}[2][2=]
                                                                                                                                                                      {\newmtharg*[\defval{#2}{#1}]}
                  \newmthoarg ... to do!
                                                                                                                                                        • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
```

412 \DeclareRobustCommand{\newmth}

```
• \newmthoarg[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
```

 $\bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \ \ \ } \ \texttt{\ \ \ \ \ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ } \$ 

 $\bullet \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }$ 

 $\bullet \ \texttt{\newmthoarg*[mathsf]{Name}[sub][sup][Arg^{Ex^{}}]} = \texttt{\normalfoat}(Arg^{Ex^{Ex}}) \texttt{\no$ 

 $\bullet \verb| \newmthoarg*[mathtt]{Name}[sub][sup][Arg^{\{Ex^{\{Ex\}}\}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"$ 

```
436 \DeclareRobustCommand{\newmthoarg} 

437 {\@ifstar{\@snewmthoarg}{\@newmthoarg}} 

438 \DeclareRobustCommandx{\@newmthoarg}[5][1=, 3=, 4=, 5=] 

439 {\newmtharg[#1]{#2}[#3][#4][]{#5}[]} 

440 \DeclareRobustCommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=] 

441 {\newmtharg*[#1]{#2}[#3][#4][]{#5}[]}
```

#### \newmthoargsty ... to do!

- \newmthoargsty{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name\_{sub}^{sup} (Arg^{E\_x^{Ex}})"
- $\bullet \verb| \name| sup| [Arg^{Ex^{Ex}}] = \verb| "Name| sup| [Arg^{Ex^{Ex}}] = \verb| "Name| sup| (Arg^{Ex^{Ex}}) = \verb| "Name| sup| (Arg^{Ex}) = \verb| "Name| sup| (A$
- \newmthoargsty\*{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name\_{sub}^{sup}(Arg^{Ex^{Ex}})"
- $\bullet \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }$

```
442 \DeclareRobustCommand{\newmthoargsty}
```

- 443 {\@ifstar{\@snewmthoargsty}{\@newmthoargsty}}
- 444 \DeclareRobustCommandx{\@newmthoargsty}[2][2=]
- 445 {\newmthoarg[\defval{#2}{#1}]}
- 446 \DeclareRobustCommandx{\@snewmthoargsty}[2][2=]
- $447 \quad \{\newmthoarg*[\defval{#2}{#1}]\}$

#### \newmthpar ... to do!

- \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name\_{sub}^{sup} Ext1  $\left[ Par^{Ex^{Ex}} \right] Ext2$ "
- $\bullet \ \texttt{\newmthpar[mathsf]{Name}[sub][sub][Ext1]{Par^{Ex^{Ex}}}} [Ext2] = \texttt{\normalfont{Name}} \\ ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ ext2 \\ ext2 \\ ext2 \\ ext2 \\ ext3 \\ ext4 \\ ext4 \\ ext2 \\ ext4 \\$
- \newmthpar\*[mathrm] {Name} [sub] [sup] [Ext1] { $Par^{Ex^{Ex}}$ } [Ext2] = "Name  $_{sub}^{sup} Ext1[Par^{Ex^{Ex}}]Ext2$ "
- $\bullet \ \texttt{Name} * [\texttt{mathsf}] * [\texttt{Name} * [\texttt{sub}] * [\texttt{Sup}] * [\texttt{Ext1}] * [\texttt{Par} * (\texttt{Ex}) * ] * [\texttt{Ext2}] = "\texttt{Name} * (\texttt{Sup} * Ext1 [Par^{Ex^{Ex}}] * [\texttt{Ext2}] = "\texttt{Name} * (\texttt{Ex}) * (\texttt{Ex})$
- \newmthpar\*[mathtt]{Name}[sub][sup][Ext1]{ $Par^{Ex^{Ex}}$ }[Ext2] = "Name  $_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2$ "

```
448 \DeclareRobustCommand{\newmthpar}
```

- 449 {\@ifstar{\@snewmthpar}{\@newmthpar}}
- 450 \DeclareRobustCommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
- 451 {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left[}{#6}{\right]\arglef{\!}{#7}}]}
- 452 \DeclareRobustCommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
- 453 {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}

### \newmthparsty ... to do!

- $\bullet \mathtt{Name}_{sub}^{sup} [\mathtt{Sub}] [\mathtt{Sup}] [\mathtt{Ext1}] \{ \mathtt{Par}^{\{\mathtt{Ex}^{\}}\}} [\mathtt{Ext2}] = \mathtt{``Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \mathtt{'`} \}$
- $\bullet \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }$
- $\bullet \verb| \newmthparsty{mathrm}[mathtt]{Name}[sub][sup][Ext1]{Par^{Ex^{-}}{Ex}}] [Ext2] = "Name_{sub}^{sup}Ext1\Big[Par^{Ex^{-Ex}}\Big] Ext2" + (1-c)^{-1} [Par^{-1}] [Par^{-$
- $\bullet \mathtt{Name}_{sub}[\mathtt{Sub}][\mathtt{Sup}][\mathtt{Ext1}] \{ \mathtt{Par}^{\{\mathtt{Ex}^{\}}\}}[\mathtt{Ext2}] = \mathtt{"Name}_{sub}^{sup} Ext1[Par^{Ex}^{Ex}] Ext2 \mathtt{"Name}_{sub}^{\{\mathtt{Ex}^{+}\}}[\mathtt{Ext2}] = \mathtt{"Name}_{sub}^{\{\mathtt{Ex}^{+}\}}[\mathtt{Ext2}]$
- \newmthparsty\*{mathrm}[mathtt]{Name}[sub][sup][Ext1]{ $Par^{Ex^{Ex}}$ }[Ext2] = "Name $_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2$ "

```
454 \DeclareRobustCommand{\newmthparsty}
                                                                       455 {\@ifstar{\@snewmthparsty}{\@newmthparsty}}
                                                                       456 \DeclareRobustCommandx{\Onewmthparsty}[2][2=]
                                                                       457 {\newmthpar[\defval{#2}{#1}]}
                                                                       458 \DeclareRobustCommandx{\@snewmthparsty}[2][2=]
                                                                                           {\newmthpar*[\defval{#2}{#1}]}
             \newmthopar ... to do!
                                                                                 • \newmthopar[mathrm]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                  \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\  \  }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\  }} \ \texttt{\ \ }} \ \texttt{\  }} \ \texttt{\ \ } \texttt{\ \ }} \ \texttt{\ \ } \texttt{\ \ }} \ \texttt{\ \ }} \
                                                                                  \bullet \verb| \newmthopar*[mathrm]{Name}[sub][sup][Par^{Ex^{*}}] = "Name^{sup}_{sub}[Par^{Ex^{Ex}}]" 
                                                                                  • \newmthopar*[mathsf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                  • \newmthopar*[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                       460 \DeclareRobustCommand{\newmthopar}
                                                                                              {\@ifstar{\@snewmthopar}{\@newmthopar}}
                                                                       462 \DeclareRobustCommandx{\@newmthopar}[5][1=, 3=, 4=, 5=]
                                                                                              {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                       464 \DeclareRobustCommandx{\@snewmthopar}[5][1=, 3=, 4=, 5=]
                                                                                              {\newmthpar*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                  • \newmthoparsty{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                  \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \  \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \  \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ 
                                                                                  \bullet \verb| \normal| without the limit of the li
                                                                                  • \newmthoparsty*{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{cub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                   \bullet \verb| \newmthoparsty*{mathrm}[mathsf]{Name}[sub][sup][Par^{Ex^{Ex}}]] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                                                   \bullet \verb| \newmthoparsty*{mathrm}[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                                       466 \DeclareRobustCommand{\newmthoparsty}
                                                                                          {\@ifstar{\@snewmthoparsty}{\@newmthoparsty}}
                                                                       468 \DeclareRobustCommandx{\@newmthoparsty}[2][2=]
                                                                                             {\newmthopar[\defval{#2}{#1}]}
                                                                       470 \DeclareRobustCommandx{\@snewmthoparsty}[2][2=]
                                                                                              {\newmthopar*[\defval{#2}{#1}]}
                 \mthsubsup ... to do!
                                                                      472 \DeclareRobustCommand{\mthsubsup}[2]
                                                                                         {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                                                       \mth ... to do!
                                                                                 • \mathbb{Sup}[Sup][Ext] = "Name^{sup}_{sub}Ext"
                                                                                  • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                                  • \mathcal{E}_{sub}[Sub][Sup][Ext] = \mathcal{E}_{sub}[Sub][Sup][Ext]
                                                                                  • \mth*{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                  • \mth*[mathbf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                  • \mth*[mathtt] {Name} [sub] [sup] [Ext] = "Name ^{sup}_{sub}Ext"
                                                                       475 \DeclareRobustCommand{\mth}
                                                                                       {\@ifstar{\newmthsty*{\mthsty}}{\newmthsty{\mthsty}}}
                                \mtharg ... to do!
```

```
• \mtharg[mathbf]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                           • \mtharg[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                           • \mtharg*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                           \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{
                                           • \mtharg*[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name _{sub}^{sup} Ext1(Arg^{Ex^{Ex}}) Ext2"
                                  477 \DeclareRobustCommand{\mtharg}
                                                  {\@ifstar{\newmthargsty*{\mthsty}}}{\newmthargsty{\mthsty}}}
\mthoarg ... to do!
                                         • \mthoarg{Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                          • \mthoarg[mathbf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                           • \mthoarg[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                           • \mthoarg*{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{cub}^{sup}(Arq^{Ex^{Ex}})"
                                           • \mthoarg*[mathbf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                           • \mthoarg*[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                  479 \DeclareRobustCommand{\mthoarg}
                                                    {\@ifstar{\newmthoargsty*{\mthsty}}}{\newmthoargsty{\mthsty}}}
    \mthpar ... to do!
                                          • \mthpar{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2"
                                           \bullet \texttt{ \normalfont{Mame}[sub][sub][Ext1]{Par^{Ex^{\{Ex\}}\}}[Ext2]} = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2" 
                                           • \mthpar*[mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{2}}} [Ext2] = "Name _{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2"
                                  481 \DeclareRobustCommand{\mthpar}
                                                  {\@ifstar{\newmthparsty*{\mthsty}}}{\newmthparsty{\mthsty}}}
\mthopar ... to do!
                                          • \mthopar{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                           • \mthopar[mathbf] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} | Par^{Ex^{Ex}}|"
                                          \bullet \  \, \texttt{\bar{Ex^{Ex}}} = \texttt{\bar{Name}} \\ [sub] \\ [sub] \\ [par^{\{Ex^{\{Ex\}}\}}] = \texttt{\bar{Name}} \\ [sub] \\ [par^{Ex^{Ex}}] \\ [par^{Ex}] \\ [par^{E
                                           • \mthopar*{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                           • \mthopar*[mathbf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                           • \mthopar*[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name _{sub}^{sup}[Par^{Ex^{Ex}}]"
                                  483 \DeclareRobustCommand{\mthopar}
                                                   {\@ifstar{\newmthoparsty*{\mthsty}}}{\newmthoparsty{\mthsty}}}
    \mthsty ... to do!
                                  485 \def\mthsty
    \cmdmth ... to do!
```

• \mtharg{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name\_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2" = "Name\_{sub}^{sub} Ext1 (Arg^{Ex}) Ext2" = "Name\_{sub}^{sub} Ext1 (Arg^{Ex

```
• \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                                \mbox{\tt Name} [	ext{\tt Sub}] [	ext{\tt Sup}] [	ext{\tt Ext}] = \mbox{\tt Name}_{sub}^{sup} Ext
                                                                                                                                                \verb|\mbox| \verb| Mame| = \verb| Sub| = \verb| Name| = \verb| Name| = \verb| Sub| = \verb| Name| = \verb| Name| = \verb| Sub| = \verb| Name| = Name| =
                                                                                                          488 \DeclareRobustCommand{\cmdmth}[1]
                                                                                                                                          {\csdef{mth#1}%
                                                                                                                                                                        {\protect\@ifstar{\newmthsty*{mthsty#1}}}\newmthsty{mthsty#1}}}
                                                                                                          490
        \cmdmtharg ... to do!
                                                                                                                              • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                             \verb|\mathrace| www and {\tt Name} [sub] [sup] [Ext1] {\tt Arg^{Ex^{Ex}}} ] [Ext2] = {\tt Name}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 = {\tt Name}_{sub}^{sup} Ext2 = {\tt N
                                                                                                                                             \verb| That is a constant of the constant of the
                                                                                                            491 \DeclareRobustCommand{\cmdmtharg}[1]
                                                                                                                                                     {\csdef{mtharg#1}%
                                                                                                                                                                        {\tt \{\new mthargsty*\{mthsty\#1\}} {\tt \{\new mthargsty\{mthsty\#1\}}\}}
                                                                                                            493
\cmdmthoarg ... to do!
                                                                                                                              • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt}
                                                                                                                                             \verb|\mbox| \verb|\mbox| Mame| [sub] [sup] [Arg^{\{\text{Ex}^{}\}}] = \verb|\mbox| Mame| Mame
                                                                                                                                             494 \DeclareRobustCommand{\cmdmthoarg}[1]
                                                                                                                                             {\csdef{mthoarg#1}%
                                                                                                          496
                                                                                                                                                                        {\protect\@ifstar{\newmthoargsty*{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
        \cmdmthpar ... to do!
                                                                                                                              • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                             \verb|\mbox| $$ \mathbf{Ex1} = \mathbf{Ex2} 
                                                                                                                                             \verb| mthparNewCmd*{Name}[sub][sup][Ext1]{Par^{Ex^{-}{Ex}}}| [Ext2] = \verb| Name| | sub| | Ext1[Par^{Ex^{-}{Ex}}]| Ext2[Par^{-}{Ex}]| | Ext
                                                                                                          497 \DeclareRobustCommand{\cmdmthpar}[1]
                                                                                                                                              {\csdef{mthpar#1}%
                                                                                                                                                                        {\protect\@ifstar{\newmthparsty*{mthsty#1}}}{\newmthparsty{mthsty#1}}}}
\cmdmthopar ... to do!
                                                                                                                              • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                             500 \DeclareRobustCommand{\cmdmthopar}[1]
                                                                                                                                                  {\csdef{mthopar#1}%
                                                                                                                                                                      {\bf (\new mthoparsty*\{mthsty\#1\}}{\bf (\new mthoparsty\{mthsty\#1\})}}
                                                                                                          502
        \cmdmthall ... to do!
                                                                                                                                • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                                \verb|\mbox| \verb| Sub| [sup] [Ext] = \verb|\mbox| \verb| Same | sub| |
                                                                                                                                             \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}Ext2
                                                                                                                                             \verb| mthparNewCmd{Name}[sub][sup][Ext1]{Par^{Ex^{}}}[Ext2] = \verb| Name|^{sup}_{sub}Ext1 \Big| Par^{Ex^{Ex}} \Big| Ext2 \Big| Ext2 \Big| = ext2 \Big| Ex
                                                                                                                                             503 \DeclareRobustCommand{\cmdmthall}[1]
                                                                                                                                              {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
```

```
• \usrmth{cmdName}{Suf}{};
                                                                                                            \column{4}{c} 
                                                                                                             \column{4}{c} {\tt mdNameSuf*} = cmdName
                                                                                                             \usrmth{cmdName}{Suf}{arg};
                                                                                                            \label{eq:cmdName} $$\operatorname{Arg}^{Ex^{Ex}}$ = cmdName\left(Arg^{Ex^{Ex}}\right)$
                                                                                                            \verb|\cmdNameSuf*{Arg^{Ex^{Ex}}}| = cmdName(Arg^{Ex^{Ex}})
                                                                                                            \usrmth{cmdName}{Suf}{par};
                                                                                                           \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = cmdName \Big[ Par^{Ex^{Ex}} \Big]
                                                                                                            \verb|\cmdNameSuf*{Par^{Ex^{Ex}}}| = cmdName[Par^{Ex^{Ex}}]|
                                                                                                    \usrmth{cmdName}{Suf}{}[newName];
                                                                                                             \colonerright 
                                                                                                             \c NameSuf* = newName
                                                                                                            \usrmth{cmdName}{Suf}{arg}[newName];
                                                                                                            \label{eq:cmdName} $$ \operatorname{Lex}{ = newName \left( Arg^{Ex^{Ex}} \right) } = newName \left( Arg^{Ex^{Ex}} \right) $$
                                                                                                            \label{eq:cmdName} $$\operatorname{Lx^{Ex}}$ = newName(Arg^{Ex^{Ex}})$
                                                                                                            \usrmth{cmdName}{Suf}{par}[newName];
                                                                                                            \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = newName \Big[ Par^{Ex^{Ex}} \Big]
                                                                                                           \verb|\cmdNameSuf*{Par^{Ex^{Ex}}}| = newName[Par^{Ex^{Ex}}]|
                                                                                    506 \DeclareRobustCommandx{\usrmth}[4][4=]
                                                                                                              {\csdef{#1#2}%
                                                                                                                             {\protect\@ifstar%
                                                                                    508
                                                                                                                                        {\csname mth#3\endcsname*{\defval{#4}{#1}}}%
                                                                                   509
                                                                                                                                        510
                                                                                   \usrmthlatlow ... to do!
                                                                                   512 \DeclareRobustCommandx{\usrmthlatlow}[4][4=]
                                                                                                            {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
                                                                                   514 \verb|\DeclareRobustCommandx{\usrmthlatupp}[4][4=]
                                                                                   515 \{ \text{1} \{ \text{mth} \{ \text{#1} \} \{ \text{#3} [ \text{#4} ] \ \text{seqoflatupp} \{ \text{#1} \} \} \}
\usrmthlatlet ... to do!
                                                                                    516 \DeclareRobustCommandx{\usrmthlatlet}[4][4=]
                                                                                   517 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
\usrmthgrklow ... to do!
                                                                                    518 \DeclareRobustCommandx{\usrmthgrklow}[4][4=]
                                                                                   519 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                                                                   520 \DeclareRobustCommandx{\usrmthgrkupp}[4][4=]
                                                                                                        {\ \{\ x\} = \{
                                                                                  521
\usrmthgrklet ... to do!
                                                                                    522 \DeclareRobustCommandx{\usrmthgrklet}[4][4=]
                                                                                                          {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
                 \usrmthlow ... to do!
                                                                                   524 \DeclareRobustCommandx{\usrmthlow}[4][4=]
                                                                                                             {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}
                 \undergray \undergra
                                                                                  526 \DeclareRobustCommandx{\usrmthupp}[4][4=]
                                                                                                          {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
```

\usrmth ... to do!

```
\usrmthlet ... to do!
                              528 \DeclareRobustCommandx{\usrmthlet}[4][4=]
                              529 \{ \text{wsrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqoflet \{ \#1 \#2 \} \{ mth \#3 \} \}
                              534 \iftxtgen@
             \txtdef ... to do!
                                   \bullet \ \  \  \, \texttt{[Sub][Sup][Ext]} = Name_{sub}^{sup}Ext \\
                                  ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                  ullet \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                              535 %% Style for Definitions
                              536 \cmdtxtall{def}
                              537 \end{\text{\txtstydef}} {\bf bfseries} \end{\text{\txtstydef}} \label{txtstydef} \\
       \cmdtxtdef ... to do!
                                  • \cmdtxtdef{cmdName};
                                      \cmdName[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                  • \cmdtxtdef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
                              538 \DeclareRobustCommandx{\cmdtxtdef}[2][2=]
                                      {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                                  • \cmdtxtargdef{cmdName};
                                      \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2|
                                  • \cmdtxtargdef{cmdName}[newName];
                                      \cmdName[sub][sub][ext1]{arg}[ext2] = newName^{sub}_{sub}ext1(arg)ext2
                              540 \DeclareRobustCommandx{\cmdtxtargdef}[2][2=]
                              541 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                  • \cmdtxtoargdef{cmdName};
                                      \colon colon col
                                   \cmdtxtoargdef{cmdName}[newName];
                                      \colon = [sub][sub][arg] = newName_{sub}^{sub}(arg)
                              542 \DeclareRobustCommandx{\cmdtxtoargdef}[2][2=]
                              543 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                                   \cmdtxtpardef{cmdName};
                                      \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                   • \cmdtxtpardef{cmdName}[newName];
                                      \cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1/par]ext2
                              544 \DeclareRobustCommandx{\cmdtxtpardef}[2][2=]
                              545 {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                  • \cmdtxtopardef{cmdName};
                                      \verb|\cmdName[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                   \cmdtxtopardef{cmdName}[newName];
                                      \cmdName[sub][sub][par] = newName_{sub}^{sub}[par]
                              546 \DeclareRobustCommandx{\cmdtxtopardef}[2][2=]
                              547 {\usrtxt{#1}{}{opardef}[#2]}
```

```
\txtabr ... to do!
                                       • \text{txtabr{Name}}[\text{sub}][\text{sup}][\text{Ext}] = Name_{\text{sub}}^{\text{sup}}Ext
                                       • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{\text{sub}}^{\text{sup}} Ext1(Arg)Ext2
                                        \bullet \ \texttt{\txtparabr{Name}[sub][sup][Ext1]{Par}[Ext2]} = Name^{\sup}_{\sup} Ext1[Par]Ext2
                                  548 %% Style for Abbreviations
                                  549 \cmdtxtall{abr}
                                  550 \DeclareRobustCommand{\txtstyabr}{\em}
        \cmdtxtabr ... to do!
                                       • \cmdtxtabr{cmdName}:
                                           \verb|\cmdName[sub][sub][ext]| = cmdName_{\rm sub}^{\rm sub}ext
                                       • \cmdtxtabr{cmdName}[newName];
                                           \colon colon col
                                  551 \DeclareRobustCommandx{\cmdtxtabr}[2][2=]
                                  552 {\usrtxt{#1}{}{abr}[#2]}
  \cmdtxtargabr ... to do!
                                       \cmdtxtargabr{cmdName};
                                           \cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                       • \cmdtxtargabr{cmdName} [newName];
                                           \cmdName[sub][sub][ext1]\{arg\}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                                  553 \DeclareRobustCommandx{\cmdtxtargabr}[2][2=]
                                 554 {\usrtxt{#1}{}{argabr}[#2]}
\c to do!
                                       • \cmdtxtoargabr{cmdName};
                                           \cmdName[sub][sub] [arg] = cmdName_{\text{sub}}^{\text{sub}}(arg)
                                       • \cmdtxtoargabr{cmdName}[newName];
                                           \verb|\cmdName[sub][sub][arg]| = newName_{\rm sub}^{\rm sub}(arg)
                                  555 \DeclareRobustCommandx{\cmdtxtoargabr}[2][2=]
                                          {\usrtxt{#1}{}{oargabr}[#2]}
  \cmdtxtparabr ... to do!
                                       • \cmdtxtparabr{cmdName};
                                           \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{\rm sub}^{\rm sub}ext1/par]ext2
                                       • \cmdtxtparabr{cmdName} [newName];
                                           \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1/par|ext2
                                  557 \DeclareRobustCommandx{\cmdtxtparabr}[2][2=]
                                           {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                                       • \cmdtxtoparabr{cmdName};
                                           \colon colon black [sub] [par] = cmdName_{sub}^{sub} [par]
                                       \cmdtxtoparabr{cmdName}[newName];
                                           \verb|\cmdName[sub][sub][par]| = newName_{\rm sub}^{\rm sub}/par|
                                  559 \DeclareRobustCommandx{\cmdtxtoparabr}[2][2=]
                                          {\usrtxt{#1}{}{oparabr}[#2]}
                                 \txtname ... to do!
                                       • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext}
                                       • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{SUB}^{SUP}Ext1(Arg)Ext2
                                       • \txtparname{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_{SUB}^{SUP}EXT1[PAR]EXT2
                                  562 %% Style for Names
                                  563 \cmdtxtall{name}
                                  564 \DeclareRobustCommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
```

```
\cmdtxtname ... to do!
                                                              • \cmdtxtname{cmdName};
                                                                   \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                                              • \cmdtxtname{cmdName}[newName];
                                                                   \c Mame[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                                      565 \DeclareRobustCommandx{\cmdtxtname}[2][2=]
                                                      566 {\usrtxt{#1}{}{name}[#2]}
   \cmdtxtargname ... to do!
                                                              • \cmdtxtargname{cmdName};
                                                                   \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                                              • \cmdtxtargname{cmdName}[newName];
                                                                   \label{lem:lemma:sub} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{NEWNAME}_{SUB}^{SUB} \operatorname{EXT1}(ARG) \operatorname{EXT2} $$
                                                      567 \DeclareRobustCommandx{\cmdtxtargname}[2][2=]
                                                                   {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                              \cmdtxtoargname{cmdName};
                                                                   \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                                              • \cmdtxtoargname{cmdName}[newName];
                                                                    \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                                      569 \DeclareRobustCommandx{\cmdtxtoargname}[2][2=]
                                                      570 {\usrtxt{#1}{}{oargname}[#2]}
   \cmdtxtparname ... to do!
                                                              \cmdtxtparname{cmdName};
                                                                   \cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2
                                                              • \cmdtxtparname{cmdName}[newName];
                                                                    \cmdName[sub][sub][ext1]{par}[ext2] = NEWNAME_{SUB}^{SUB}EXT1[PAR]EXT2
                                                      571 \DeclareRobustCommandx{\cmdtxtparname}[2][2=]
                                                                   {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                                              • \cmdtxtoparname{cmdName};
                                                                   \colon 
                                                              \cmdtxtoparname{cmdName}[newName];
                                                                   \verb|\cmdName[sub][sub][par]| = \verb|\NEWNAME| E | NEWNAME |
                                                      573 \DeclareRobustCommandx{\cmdtxtoparname}[2][2=]
                                                      574 {\usrtxt{#1}{}{oparname}[#2]}
                         \txtcom ... to do!
                                                              • \text{txtcom{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{Name}_{\text{Sub}}^{\text{SUP}}\text{Ext}
                                                              • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                                              • \text{txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{Name}_{\text{SUB}}^{\text{SUP}} \text{Ext1}[Par] \text{Ext2}
                                                      575 %% Style for Complexities
                                                      576 \cmdtxtall{com}
                                                      577 \DeclareRobustCommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
                \cmdtxtcom ... to do!
                                                              • \cmdtxtcom{cmdName}:
                                                                   • \cmdtxtcom{cmdName} [newName];
                                                                   \verb|\cmdName[sub][sub][ext]| = \verb|\NEWNAME| SUB | EXT|
                                                      578 \DeclareRobustCommandx{\cmdtxtcom}[2][2=]
                                                      579 {\usrtxt{#1}{}{com}[#2]}
      \cmdtxtargcom ... to do!
```

```
\cmdtxtargcom{cmdName};
                                                                          \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME^{SUB}_{SUB}EXT1(ARG)EXT2
                                                                    • \cmdtxtargcom{cmdName}[newName];
                                                                          580 \DeclareRobustCommandx{\cmdtxtargcom}[2][2=]
                                                                         {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                                                   • \cmdtxtoargcom{cmdName};
                                                                          \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                                                                   • \cmdtxtoargcom{cmdName}[newName];
                                                                          \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                                           582 \DeclareRobustCommandx{\cmdtxtoargcom}[2][2=]
                                                                         {\usrtxt{#1}{}{oargcom}[#2]}
   \cmdtxtparcom ... to do!
                                                                   • \cmdtxtparcom{cmdName};
                                                                          \cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2
                                                                    • \cmdtxtparcom{cmdName} [newName];
                                                                          \label{lem:lemma:equation:lemma:equation:ext} $$ \operatorname{CmdName}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}][\operatorname{ext2}] = \operatorname{NEWNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}] \operatorname{EXT2} $$
                                                          584 \DeclareRobustCommandx{\cmdtxtparcom}[2][2=]
                                                                            {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                                                   • \cmdtxtoparcom{cmdName};
                                                                          \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR]
                                                                   • \cmdtxtoparcom{cmdName}[newName];
                                                                          \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                                                           586 \DeclareRobustCommandx{\cmdtxtoparcom}[2][2=]
                                                                           {\usrtxt{#1}{}{oparcom}[#2]}
                                                          588 \fi
                                                          593 \ifmthgen@
                      \mthname ... to do!
                                                                   • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                                                   • \mthargname{\name}[sub] [sup] [Ext1] {\arg^{Ex^{Ex}}} [Ext2] = \mathcal{N} A \mathcal{M} \mathcal{E}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 = \mathcal{N} A \mathcal{M} \mathcal{E}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 = \mathcal{N} A \mathcal{M} \mathcal{E}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 = \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{E}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 = \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{M} \mathcal{E}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 = \mathcal{M} \mathcal
                                                                    \bullet \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \  \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }
                                                                    • \mthparname{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1\left[Par^{Ex^{Ex}}\right]Ext2
                                                                    • \mthparname*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                           594 %% Style for Names
                                                           595 \cmdmthall{name}
                                                          596 \verb|\DeclareRobustCommand{\mthstyname}{\mbox{\mathcal}}
                              \AName ... to do!
                                         \ldots \ \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                                          597 \seqoflatupp{Name}{mthname}
           \cmdmthname ... to do!
                                                                    • \cmdmthname{CMDNAME};
                                                                          \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
```

```
• \cmdmthname{cmdName}[NEWNAME];
                            \verb|\cmdNameName[sub][sub][ext]| = \mathcal{NEWNAME}^{sub}_{sub}ext
                      598 \DeclareRobustCommandx{\cmdmthname}[2][2=]
                            {\usrmth{#1}{Name}{name}[#2]}
 \cmdmthargname ... to do!
                         • \cmdmthargname{CMDNAME};
                            \verb|\CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}^{sub}_{sub}ext1(arg)ext2
                         • \cmdmthargname{cmdName}[NEWNAME];
                            \cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                      600 \DeclareRobustCommandx{\cmdmthargname}[2][2=]
                            {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                         • \cmdmthoargname{CMDNAME};
                            \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                          • \cmdmthoargname{cmdName}[NEWNAME];
                            \cmdNameName[sub][sub][arg] = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                      602 \DeclareRobustCommandx{\cmdmthoargname}[2][2=]
                      603 {\usrmth{#1}{Name}{oargname}[#2]}
 \cmdmthparname ... to do!
                         • \cmdmthparname{CMDNAME};
                            \verb|\CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                          • \cmdmthparname{cmdName}[NEWNAME];
                            \cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                      604 \DeclareRobustCommandx{\cmdmthparname}[2][2=]
                            {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                          \cmdmthoparname{CMDNAME};
                            \verb|\CMDNAMEName[sub][sub][par]| = \mathcal{CMDNAME}_{sub}^{sub}[par]|
                         • \cmdmthoparname{cmdName}[NEWNAME];
                            \verb|\cmdNameName[sub][sub][par]| = \mathcal{NEWNAME}^{sub}_{sub}[par]
                      606 \DeclareRobustCommandx{\cmdmthoparname}[2][2=]
                            {\usrmth{#1}{Name}{oparname}[#2]}
           \mthfam ... to do!
                         • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N} \mathcal{A} \mathcal{M} \mathcal{E}_{sub}^{sup} Ext
                         • \mthargfam{NAME} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1 \left(Arg^{Ex^{Ex}}\right) Ext2
                          • \mthargfam*{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                          • \mthparfam{NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{N} \mathcal{A} \mathcal{M} \mathcal{E}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2
                         • \mthparfam*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = NAME^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                      608 %% Style for Families
                      609 \cmdmthall{fam}
                      610 \DeclareRobustCommand{\mthstyfam}{\mathscr}
                \dots \, \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}
                      611 \seqoflatupp{Fam}{mthfam}
      \cmdmthfam ... to do!
                         • \cmdmthfam{CMDNAME};
                            \verb|\CMDNAMEFam[sub][sub][ext]| = \mathscr{EMDNAMEFam}[sub][sub][ext]| = \mathscr{EMDNAMEFam}[sub][sub][ext]|
                          • \cmdmthfam{cmdName}[NEWNAME];
```

\cmdNameFam[sub][sub][ext] =  $\mathcal{NEWNAME}_{sub}^{sub}ext$ 

```
612 \DeclareRobustCommandx{\cmdmthfam}[2][2=]
                                                      613 {\usrmth{#1}{Fam}{fam}[#2]}
   \verb|\cmdmthargfam| \dots to do!
                                                              • \cmdmthargfam{CMDNAME};
                                                                    \verb|\CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][e
                                                               • \cmdmthargfam{cmdName}[NEWNAME];
                                                                    \cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arq)ext2
                                                      614 \DeclareRobustCommandx{\cmdmthargfam}[2][2=]
                                                      615 {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                                                              \cmdmthoargfam{CMDNAME};
                                                                    \CMDNAMEFam[sub][sub][arg] = \mathscr{CMDNAMEFam}[sub](arg)
                                                              • \cmdmthoargfam{cmdFam}[NEWNAME];
                                                                    \colon {\tt CmdFamFam[sub][sub][arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                                      616 \DeclareRobustCommandx{\cmdmthoargfam}[2][2=]
                                                                  {\usrmth{#1}{Fam}{oargfam}[#2]}
   \cmdmthparfam ... to do!
                                                              • \cmdmthparfam{CMDNAME};
                                                                     \CMDNAMEFam [sub] [sub] [ext1] {par} [ext2] = \mathscr{CMDNAMEFam}[sub] = \mathscr{C
                                                               • \cmdmthparfam{cmdName}[NEWNAME];
                                                                    \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNMME}^{sub}_{sub}ext1[par]ext2
                                                       618 \DeclareRobustCommandx{\cmdmthparfam}[2][2=]
                                                      619 {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                                                              • \cmdmthoparfam{CMDNAME};
                                                                    \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                                                               \cmdmthoparfam{cmdFam}[NEWNAME];
                                                                    \label{eq:cmdFamFam} $$ \operatorname{[sub]}[\operatorname{par}] = \mathcal{NEWNAME}^{sub}_{sub}[\operatorname{par}] $$
                                                      620 \DeclareRobustCommandx{\cmdmthoparfam}[2][2=]
                                                      621 {\usrmth{#1}{Fam}{oparfam}[#2]}
                        \mthcls ... to do!
                                                              • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                                              • \mthargcls{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                              • \mthargcls*{NAME}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2
                                                               • \mthparcls*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = NAME^{sup}_{cub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                      622 %% Style for Classes
                                                      623 \cmdmthall{cls}
                                                      624 \DeclareRobustCommand{\mthstycls}{\matheus}
                                      \dots A, B, C, D, E, F, G, H, J, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                      625 \seqoflatupp{Cls}{mthcls}
             \cmdmthcls ... to do!
                                                              • \cmdmthcls{CMDNAME};
                                                                    \CMDNAMEC1s[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                                               • \cmdmthcls{cmdName}[NEWNAME];
                                                                    \cmdNameCls[sub][sub][ext] = NEWNAME_{sub}^{sub}ext
                                                       626 \DeclareRobustCommandx{\cmdmthcls}[2][2=]
                                                      627 {\usrmth{#1}{Cls}{cls}[#2]}
```

```
\cmdmthargcls ... to do!
                       • \cmdmthargcls{CMDNAME};
                          \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \text{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargcls{cmdName}[NEWNAME];
                          \cmdNameCls[sub][sub][ext1]{arg}[ext2] = NEWNAME_{sub}^{sub}ext1(arg)ext2
                    628 \DeclareRobustCommandx{\cmdmthargcls}[2][2=]
                         {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                       • \cmdmthoargcls{CMDNAME};
                          \CMDNAMECls[sub][sub] [arg] = \text{CMDNAME}_{sub}^{sub}(arg)
                        \cmdmthoargcls{cmdCls}[NEWNAME];
                          \cmdClsCls[sub][sub] [arg] = NEWNAME_{sub}^{sub}(arg)
                    630 \DeclareRobustCommandx{\cmdmthoargcls}[2][2=]
                          {\usrmth{#1}{Cls}{oargcls}[#2]}
 \cmdmthparcls ... to do!
                        \cmdmthparcls{CMDNAME};
                          \verb|\CMDNAMECls[sub][sub][ext1]{par}[ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1[par]ext2|
                        • \cmdmthparcls{cmdName}[NEWNAME];
                          \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2|
                    632 \DeclareRobustCommandx{\cmdmthparcls}[2][2=]
                    633 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                       • \cmdmthoparcls{CMDNAME};
                          \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                        • \cmdmthoparcls{cmdCls}[NEWNAME];
                          \cmdClsCls[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                    634 \DeclareRobustCommandx{\cmdmthoparcls}[2][2=]
                         {\usrmth{#1}{Cls}{oparcls}[#2]}
         \mthsig ... to do!
                       • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}ame_{sub}^{sup}Ext
                       • \mthargsig{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                       • \mthparsig{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1\left[Par^{Ex^{Ex}}\right]Ext2
                        • \mthparsig*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                    636 %% Style for Signatures
                    637 \cmdmthall{sig}
                    638 \DeclareRobustCommand{\mthstysig}{\mathpzc}
           \asymp_{aSig} ... to do!
              ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, \chi, y, z
                   \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{I}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                   \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                    639 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
     \cmdmthsig ... to do!
                       • \cmdmthsig{cmdName};
                          \colon dNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthsig{cmdName}[NewName];
                          \colon dNameSig[sub][sub][ext] = NewName_{sub}^{sub}ext
                    640 \DeclareRobustCommandx{\cmdmthsig}[2][2=]
                    641 {\usrmth{#1}{Sig}{sig}[#2]}
```

```
\cmdmthargsig ... to do!
                                                       • \cmdmthargsig{cmdName};
                                                             \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub} ext1(arg)ext2
                                                       • \cmdmthargsig{cmdName}[NewName];
                                                            \cmdNameSig[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                642 \DeclareRobustCommandx{\cmdmthargsig}[2][2=]
                                                           {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                       • \cmdmthoargsig{cmdName};
                                                            \colon = cmdNameSig[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                       • \cmdmthoargsig{cmdSig}[NewName];
                                                            \verb|\cmdSigSig[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                                644 \DeclareRobustCommandx{\cmdmthoargsig}[2][2=]
                                                            {\usrmth{#1}{Sig}{oargsig}[#2]}
  \cmdmthparsig ... to do!
                                                       • \cmdmthparsig{cmdName};
                                                            \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = cmd Name_{sub}^{sub} ext1[par] ext2
                                                       • \cmdmthparsig{cmdName}[NewName];
                                                            \cmdNameSig[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                646 \DeclareRobustCommandx{\cmdmthparsig}[2][2=]
                                                           {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                       • \cmdmthoparsig{cmdName};
                                                            \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                       \cmdmthoparsig{cmdSig}[NewName];
                                                            \verb|\cmdSigSig[sub][sub][par]| = \textit{NewName}_{sub}^{sub}[par]|
                                                648 \DeclareRobustCommandx{\cmdmthoparsig}[2][2=]
                                                            {\usrmth{#1}{Sig}{oparsig}[#2]}
                     \mthstr ... to do!
                                                       • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup} Ext
                                                       • \mthargstr{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1 \left(Arg^{Ex^{Ex}}\right) Ext2
                                                       \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt
                                                       • \mthparstr{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathfrak{Mame}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2
                                                       • \mthparstr*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathfrak{Name}_{cub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                650 %% Style for Structures
                                                651 \cmdmthall{str}
                                                652 \DeclareRobustCommand{\mthstystr}{\mathfrak}
                           \astr ... to do!
                                 ... a, b, c, d, e, f, g, h, i, j, f, l, m, n, o, p, q, r, s, f, u, v, w, r, h, 3
                                             \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{I}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{D}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{E}, \mathfrak{T}, \mathfrak{U}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}
                                             \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                               653 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
            \cmdmthstr ... to do!
                                                       • \cmdmthstr{cmdName};
                                                            \cmdNameStr[sub][sub][ext] = cmd Names_{sub}^{sub}ext
                                                       • \cmdmthstr{cmdName} [NewName];
                                                            \c MameStr[sub][sub][ext] = \mathfrak{NewName}_{sub}^{sub}ext
                                                654 \DeclareRobustCommandx{\cmdmthstr}[2][2=]
                                                655 {\usrmth{#1}{Str}{str}[#2]}
```

```
\cmdmthargstr ... to do!
                                                                                                          • \cmdmthargstr{cmdName};
                                                                                                                      \cmdNameStr[sub] [sub] [ext1] {arg} [ext2] = cmd\Re ame_{sub}^{sub} ext1(arg)ext2
                                                                                                          • \cmdmthargstr{cmdName}[NewName];
                                                                                                                      \cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                                                             656 \DeclareRobustCommandx{\cmdmthargstr}[2][2=]
                                                                                            657 {\usrmth{#1}{Str}{argstr}[#2]}
\c to do!
                                                                                                           \cmdmthoargstr{cmdName};
                                                                                                                     \cmdNameStr[sub] [sub] [arg] = \mathfrak{cmdName}_{sub}^{sub}(arg)
                                                                                                           • \cmdmthoargstr{cmdStr}[NewName];
                                                                                                                     \color{ordStrStr[sub][sub][arg]} = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                                                            658 \DeclareRobustCommandx{\cmdmthoargstr}[2][2=]
                                                                                                                      {\usrmth{#1}{Str}{oargstr}[#2]}
     \cmdmthparstr ... to do!
                                                                                                          • \cmdmthparstr{cmdName};
                                                                                                                     \cmdNameStr[sub][sub][ext1]\{par\}[ext2] = cmd \mathfrak{Name}_{sub}^{sub} ext1[par]ext2
                                                                                                           • \cmdmthparstr{cmdName}[NewName];
                                                                                                                     \label{lem:cmdNameStr} $$ \operatorname{Sub}[\operatorname{sub}][\operatorname{ext1}] = \mathfrak{NewName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                                                                                             660 \DeclareRobustCommandx{\cmdmthparstr}[2][2=]
                                                                                                                      {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                                                           \cmdmthoparstr{cmdName};
                                                                                                                     \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdName}_{sub}^{sub}[par]|
                                                                                                           • \cmdmthoparstr{cmdStr}[NewName];
                                                                                                                     \verb|\cmdStrStr[sub][sub][par]| = \mathfrak{NewName}_{sub}^{sub}[par]|
                                                                                            662 \DeclareRobustCommandx{\cmdmthoparstr}[2][2=]
                                                                                            663 {\usrmth{#1}{Str}{oparstr}[#2]}
                                          \mthset ... to do!
                                                                                                          • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} ame \mathbb{N} Ext
                                                                                                           • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                           \bullet \ \texttt{\ Name} \ \texttt{[sub] [sup] [Ext1] \{Arg^{\{Ex^{\{Ex\}\}}\}} \ \texttt{[Ext2]} \ = \ \texttt{Name} \\ \text{$^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2$} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext1(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext2(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext2(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext2(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext2(Arg^{Ex^{Ex}})$} \ \texttt{\ Arg^{Ex^{Ex}}_{sub}Ext2(Arg^{Ex^{Ex}})$} \ \texttt{\ Ext2} \ = \ \texttt{\ Name} \\ \text{\ $^{sub}_{sub}Ext2(Arg^{Ex^{Ex}}_{sub}Ext2(Arg^{Ex^{Ex}}_{sub}Ext2(Arg^{Ex^{Ex}}_{sub}Ext2(Arg^{Ex^{Ex}}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{Ex}_{sub}Ext2(Arg^{Ex^{
                                                                                                          \bullet \  \, \texttt{\begin{tabular}{l} \bf Name} \  \, \texttt{\begin{tabular}{l} \bf Sub} \  \, \texttt{\begin{tabular}{l} \bf Ext1} \  \, \texttt{\begin{tabular}{l} \bf Par^{Ex^{Ex}}} \end{bmatrix} \  \, \texttt{\begin{tabular}{l} \bf Ext2} \  \, \  \, \texttt{\begin{tabular}{l} 
                                                                                                          \bullet \  \  \, \texttt{Name} \  \  \, \texttt{[sub] [sup] [Ext1] \{Par^{\{Ex^{}\}}\}[Ext2]} \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Ext1} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Ext2} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Ext2} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex}]Ext2] \  \, = \  \, \texttt{Name} \  \, \\ \text{Name} \  \, [Par^{Ex}]Ext2] \  
                                                                                             664 %% Style for Sets
                                                                                            665 \mbox{cmdmthall{set}}
                                                                                            666 \label{lem:command} $$ 666 \end{command} {\bf \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}
                                                    \verb|\aSet| \dots to do!
                                                                 \dots \ a, \, b, \, c, \, d, \, e, \, f, \, g, \, h, \, i, \, j, \, k, \, l, \, m, \, n, \, o, \, p, \, q, \, r, \, s, \, t, \, u, \, v, \, w, \, x, \, y, \, z
                                                                                        A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                                        \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                                                        A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                                           667 \seqoflet{Set}{mthset}
                       \cmdmthset ... to do!
                                                                                                          • \cmdmthset{cmdName};
                                                                                                                     \colon = cmdNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                                                           • \cmdmthset{cmdName}[NewName];
                                                                                                                     \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} = xt
                                                                                             668 \DeclareRobustCommandx{\cmdmthset}[2][2=]
                                                                                                                 {\usrmth{#1}{Set}{set}[#2]}
```

```
\cmdmthargset ... to do!
                        • \cmdmthargset{cmdName};
                           \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargset{cmdName}[NewName];
                          \cmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     670 \DeclareRobustCommandx{\cmdmthargset}[2][2=]
                          {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                        • \cmdmthoargset{cmdName};
                          \colon = cmdNameSet[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargset{cmdSet}[NewName];
                          \verb|\cmdSetSet[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                     672 \DeclareRobustCommandx{\cmdmthoargset}[2][2=]
                         {\usrmth{#1}{Set}{oargset}[#2]}
 \cmdmthparset ... to do!
                        • \cmdmthparset{cmdName};
                          \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                        • \cmdmthparset{cmdName}[NewName];
                          \colon = NewName (sub) [sub] [ext1] {par} [ext2] = NewName (sub) [ext1] {par} [ext2]
                     674 \DeclareRobustCommandx{\cmdmthparset}[2][2=]
                     675 {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                        • \cmdmthoparset{cmdName};
                          \colon = cmdName_{sub}^{sub}[par] = cmdName_{sub}^{sub}[par]
                        • \cmdmthoparset{cmdSet}[NewName];
                          \colon dSetSet[sub][sub][par] = NewName_{sub}^{sub}[par]
                     676 \DeclareRobustCommandx{\cmdmthoparset}[2][2=]
                            {\usrmth{#1}{Set}{oparset}[#2]}
 \cmdmthsetext ... to do!
                     678 \DeclareRobustCommandx{\cmdmthsetext}[3][2=, 3=]
                     679 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                         \usrmthlet{\thestring}{Sym}{sym}
                     680
                               [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}}]%
                     681
                     682
                         \usrmthlet{\thestring}{Elm}{elm}
                               [\defval{#3}{\defval{\memoria}}] \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}}} \\
         \mthrel ... to do!
                        • \mathbb{E}_{sub}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                        • \mthargrel{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                        \bullet \  \  \, \texttt{\bare}^{sup}[\texttt{Sub}][\texttt{Sub}][\texttt{Ext1}] \\ \{\texttt{Arg}^*(\texttt{Ex}^*)\}[\texttt{Ext2}] \\ = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                        • \mthparrel{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                        • \mthparrel*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                     684 %% Style for Relations
                     685 \cmdmthall{rel}
                     686 \DeclareRobustCommand{\mthstyrel}{\mathit}
            \aRel ... to do!
               \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                   \begin{array}{l} \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega\\ A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega \end{array}
                     687 \seqoflet{Rel}{mthrel}
```

```
\cmdmthrel ... to do!
                                                                                                            • \cmdmthrel{cmdName};
                                                                                                                      \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                                                            • \cmdmthrel{cmdName}[NewName];
                                                                                                                       \verb|\cmdNameRel[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                                                                              688 \DeclareRobustCommandx{\cmdmthrel}[2][2=]
                                                                                                                   {\usrmth{#1}{Rel}{rel}[#2]}
     \verb|\cmdmthargrel| ... to do!
                                                                                                             \cmdmthargrel{cmdName};
                                                                                                                      \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                                             • \cmdmthargrel{cmdName}[NewName];
                                                                                                                      \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                                              690 \DeclareRobustCommandx{\cmdmthargrel}[2][2=]
                                                                                                                      {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                                                                                            • \cmdmthoargrel{cmdName};
                                                                                                                      \verb|\cmdNameRel[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                                                                                             • \cmdmthoargrel{cmdRel}[NewName];
                                                                                                                      \colon drel [sub] [sub] [arg] = NewName_{sub}^{sub} (arg)
                                                                                               692 \DeclareRobustCommandx{\cmdmthoargrel}[2][2=]
                                                                                                                      {\usrmth{#1}{Rel}{oargrel}[#2]}
     \cmdmthparrel ... to do!
                                                                                                             \cmdmthparrel{cmdName};
                                                                                                                      \verb|\cmdNameRel[sub][sub][ext1][par][ext2]| = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                                                             • \cmdmthparrel{cmdName}[NewName];
                                                                                                                       \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                                              694 \DeclareRobustCommandx{\cmdmthparrel}[2][2=]
                                                                                              695 {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                                                                                             • \cmdmthoparrel{cmdName};
                                                                                                                      \verb|\cmdNameRel[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                                                                                             • \cmdmthoparrel{cmdRel}[NewName];
                                                                                                                      \colone{line} 
                                                                                               696 \DeclareRobustCommandx{\cmdmthoparrel}[2][2=]
                                                                                                                   {\usrmth{#1}{Rel}{oparrel}[#2]}
                                          \mthfun ... to do!
                                                                                                            • \mthfun{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                                                                                            \bullet \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ }} \texttt{ \ \ \ \ \ \ \ } \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{
                                                                                                             \bullet \  \  \, \texttt{Name}[sub][sup][Ext1] \{ \texttt{Arg}^{\{Ex}^{\{Ex}\} \} \} [Ext2] = \mathsf{Name}^{sup}_{sub} Ext1 (Arg^{Ex^{Ex}}) Ext2 \} = \mathsf{Name}^{sup}_{sub} Ext2 + \mathsf{Name}^{sub}_{sub} Ext2 + \mathsf{Name}^{sub}_{sub
                                                                                                            \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} = \  \, \texttt{\bar{Name}} \  \, \texttt{\ba
                                                                                                             • \mthparfun*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                               698 %% Style for Functions
                                                                                               699 \cmdmthall{fun}
                                                                                              700 \DeclareRobustCommand{\mthstyfun}{\mathsf}
                                                      \arraycolor{a}Fun ... to do!
                                                                  ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                                         A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                                         \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                                                         A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                                               701 \seqoflet{Fun}{mthfun}
```

```
\cmdmthfun ... to do!
                                                         • \cmdmthfun{cmdName};
                                                               \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                                                         • \cmdmthfun{cmdName}[NewName];
                                                               \verb|\cmdNameFun[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                  702 \DeclareRobustCommandx{\cmdmthfun}[2][2=]
                                                 703 {\usrmth{#1}{Fun}{fun}[#2]}
   \verb|\cmdmthargfun| \dots to do!
                                                          • \cmdmthargfun{cmdName};
                                                               \label{lem:cmdNameFun} $$ \operatorname{sub}[\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{sub}^{sub} ext1(arg)ext2 $$
                                                          • \cmdmthargfun{cmdName}[NewName];
                                                               \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                  704 \DeclareRobustCommandx{\cmdmthargfun}[2][2=]
                                                               {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                                         • \cmdmthoargfun{cmdName};
                                                               \cmdNameFun[sub][sub] [arg] = cmdName_{sub}^{sub}(arq)
                                                         • \cmdmthoargfun{cmdFun} [NewName];
                                                               \colon 
                                                  706 \DeclareRobustCommandx{\cmdmthoargfun}[2][2=]
                                                                {\usrmth{#1}{Fun}{oargfun}[#2]}
   \cmdmthparfun ... to do!
                                                          • \cmdmthparfun{cmdName};
                                                               \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                          • \cmdmthparfun{cmdName}[NewName];
                                                               \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2]
                                                  708 \DeclareRobustCommandx{\cmdmthparfun}[2][2=]
                                                             {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                                                          • \cmdmthoparfun{cmdName};
                                                               \verb|\cmdNameFun[sub][sub][par]| = \verb|\cmdNameFun[sub][par]|
                                                          • \cmdmthoparfun{cmdFun}[NewName];
                                                               \cmbox{\cm}[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                  710 \DeclareRobustCommandx{\cmdmthoparfun}[2][2=]
                                                                {\usrmth{#1}{Fun}{oparfun}[#2]}
                      \mthsym ... to do!
                                                         • \mathbb{S}_{sub}[Sub][Sup][Ext] = \mathbb{S}_{sub}^{sup}Ext
                                                          \bullet \verb| \t targsym{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}}[Ext2] = \verb| Name|^{sup}_{sub}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big) = -(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex}})(Arg^{Ex^{Ex
                                                          • \mthparsym{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                          • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                 712 %% Style for Symbols
                                                  713 \cmdmthall{sym}
                                                 714 \DeclareRobustCommand{\mthstysym}{\mathtt}
                            \asym ... to do!
                                   \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                               A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                               \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                               A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                 715 \seqoflet{Sym}{mthsym}
```

```
\cmdmthsym ... to do!
                                                            • \cmdmthsym{cmdName};
                                                                  \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                                                            • \cmdmthsym{cmdName}[NewName];
                                                                  716 \DeclareRobustCommandx{\cmdmthsym}[2][2=]
                                                    717 {\usrmth{#1}{Sym}{sym}[#2]}
   \verb|\cmdmthargsym| \dots to do!
                                                            \cmdmthargsym{cmdName};
                                                                  \cmdNameSym[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                            • \cmdmthargsym{cmdName}[NewName];
                                                                  \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                    718 \DeclareRobustCommandx{\cmdmthargsym}[2][2=]
                                                                    {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                            • \cmdmthoargsym{cmdName};
                                                                  \cmdNameSym[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                            • \cmdmthoargsym{cmdSym}[NewName];
                                                                  \colon 
                                                    720 \DeclareRobustCommandx{\cmdmthoargsym}[2][2=]
                                                                    {\usrmth{#1}{Sym}{oargsym}[#2]}
   \cmdmthparsym ... to do!
                                                            \cmdmthparsym{cmdName};
                                                                  \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                            • \cmdmthparsym{cmdName}[NewName];
                                                                  \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameSym[sub][ext1][par]ext2|
                                                    722 \DeclareRobustCommandx{\cmdmthparsym}[2][2=]
                                                                {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                            \cmdmthoparsym{cmdName};
                                                                  \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdNames|^{sub}_{sub}[par]|
                                                            • \cmdmthoparsym{cmdSym}[NewName];
                                                                  \colon 
                                                    724 \DeclareRobustCommandx{\cmdmthoparsym}[2][2=]
                                                                   {\usrmth{#1}{Sym}{oparsym}[#2]}
                       \mthelm ... to do!
                                                            • \mathbb{S}_{sub}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                           • \mthargelm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                            \bullet \  \  \, \texttt{Name}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}] \\ \{\texttt{Arg}^{\{\texttt{Ex}^{\}}\}}[\texttt{Ext2}] \\ = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                            • \mthparelm{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                            • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                    726 %% Style for Elements
                                                    727 \cmdmthall{elm}
                                                    728 \DeclareRobustCommand{\mthstyelm}{\mathnormal}
                                     \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                 A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                 \begin{array}{l} \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega\\ A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega \end{array}
                                                    729 \seqoflet{Elm}{mthelm}
```

```
\cmdmthelm ... to do!
                                                                • \cmdmthelm{cmdName};
                                                                      \colon dNameElm[sub][sub][ext] = cmdName^{sub}_{sub}ext
                                                                • \cmdmthelm{cmdName}[NewName];
                                                                     \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                                        730 \DeclareRobustCommandx{\cmdmthelm}[2][2=]
                                                                   {\usrmth{#1}{Elm}{elm}[#2]}
         \cmdmthargelm ... to do!
                                                                • \cmdmthargelm{cmdName};
                                                                     \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                • \cmdmthargelm{cmdName}[NewName];
                                                                     \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                        732 \DeclareRobustCommandx{\cmdmthargelm}[2][2=]
                                                                     {\usrmth{#1}{Elm}{argelm}[#2]}
      \cmdmthoargelm ... to do!
                                                                \cmdmthoargelm{cmdName};
                                                                     \colon = cmdNameElm[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                                                                • \cmdmthoargelm{cmdElm}[NewName];
                                                                     \cmbox{cmdElmElm[sub] [sub] [arg]} = NewName_{sub}^{sub}(arg)
                                                        734 \DeclareRobustCommandx{\cmdmthoargelm}[2][2=]
                                                        735 {\usrmth{#1}{Elm}{oargelm}[#2]}
         \cmdmthparelm ... to do!
                                                                • \cmdmthparelm{cmdName};
                                                                     \label{local_cond_norm_sub} $$ \operatorname{[sub][sub][ext1][par][ext2]} = cmdName_{sub}^{sub}ext1[par]ext2$
                                                                • \cmdmthparelm{cmdName}[NewName];
                                                                     \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                                        736 \DeclareRobustCommandx{\cmdmthparelm}[2][2=]
                                                                     {\usrmth{#1}{Elm}{parelm}[#2]}
      \cmdmthoparelm ... to do!
                                                                \cmdmthoparelm{cmdName};
                                                                      \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                                                • \cmdmthoparelm{cmdElm}[NewName];
                                                                      \verb|\cmdElmElm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                        738 \DeclareRobustCommandx{\cmdmthoparelm}[2][2=]
                                                                      {\usrmth{#1}{Elm}{oparelm}[#2]}
                                                        \cmdmthsymelm ... to do!
                                                                \cmdmthsymelm{cmdName};
                                                                      \colon colon col
                                                                      \verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                • \cmdmthsymelm{cmdName}[NewName];
                                                                      \colon colon col
                                                                     \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                                        741 \DeclareRobustCommandx{\cmdmthsymelm}[2][2=]
                                                                      {\cmdmthsym{#1}[#2]%
                                                        743
                                                                       \cmdmthelm{#1}[#2]}
\cmdmthargsymelm ... to do!
                                                                • \cmdmthargsymelm{cmdName};
                                                                      \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg)ext2
                                                                      \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargsymelm{cmdName}[NewName];
                                                \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                      744 \DeclareRobustCommandx{\cmdmthargsymelm}[2][2=]
                                                {\cmdmthargsym{#1}[#2]%
                                       746
                                                 \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                            \cmdmthoargsymelm{cmdName};
                                               \verb|\cmdNameSym[sub][sub][arg]| = \verb|\cmdName|^{sub}_{sub}(arg)
                                                \colonerge{cmdNameElm[sub][sub][arg]} = cmdName^{sub}_{sub}(arg)
                                            \cmdmthoargsymelm{cmdName}[NewName];
                                                \verb|\cmdNameSym[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                \cmbox{\cmdNameElm[sub][sub][arg]} = NewName^{sub}_{sub}(arg)
                                       747 \DeclareRobustCommandx{\cmdmthoargsymelm}[2][2=]
                                                {\cmdmthoargsym{#1}[#2]%
                                                 \cmdmthoargelm{#1}[#2]}
 \cmdmthparsymelm ... to do!
                                           • \cmdmthparsymelm{cmdName};
                                               \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|| sub| ext1[par]ext2|
                                                \colone{local} \col
                                            • \cmdmthparsymelm{cmdName}[NewName];
                                               \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames| uber ext1[par]ext2|
                                                \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                       750 \DeclareRobustCommandx{\cmdmthparsymelm}[2][2=]
                                                {\cmdmthparsym{#1}[#2]%
                                                \cmdmthparelm{#1}[#2]}
\cmdmthoparsymelm ... to do!
                                            \cmdmthoparsymelm{cmdName};
                                               \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|^{sub}_{sub}[par]|
                                                \colonerge{cmdNameSub[par]} = cmdName_{sub}^{sub[par]}
                                            • \cmdmthoparsymelm{cmdName}[NewName];
                                               \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                \colonerright{CmdNameElm[sub][sub][par]} = NewName^{sub}_{sub}[par]
                                       753 \DeclareRobustCommandx{\cmdmthoparsymelm}[2][2=]
                                                {\cmdmthoparsym{#1}[#2]%
                                                 \cmdmthoparelm{#1}[#2]}
                                      \mthluop ... to do!
                                            \bullet \ \texttt{\bary [sub] [sup] [Ext]} = \oplus_{sub}^{sup} Ext ]
                                           • \mthlbop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                      757 %% Style for \LaTex Operators
                                       758 \cmdmth{luop}
                                       759 \DeclareRobustCommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                       760 \cmdmth{lbop}
                                       761 \DeclareRobustCommand{\mthstylbop}[1]{\textstyle\mathbin{#1}}
            \cmdmthluop ... to do!
                                           \cmdmthluop{cmdName};
                                               \cmdNameUOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                            • \cmdmthluop{cmdName}[\oplus];
                                               \verb|\cmdNameUOp[sub][sub][ext]| = \oplus_{sub}^{sub} ext
                                            \cmdmthlbop{cmdName};
                                               \verb|\cmdNameBOp[sub][sub][ext]| = cmdName_{sub}^{sub}ext
```

```
• \cmdmthlbop{cmdName}[\oplus];
                                                                            \colon = \oplus_{sub}^{sub} [sub] [ext] = \oplus_{sub}^{sub} ext
                                                            762 \DeclareRobustCommandx{\cmdmthluop}[2][2=]
                                                            763 {\usrmth{#1}{UOp}{luop}[#2]}
                                                             764 \DeclareRobustCommandx{\cmdmthlbop}[2][2=]
                                                                            {\usrmth{#1}{BOp}{lbop}[#2]}
                       \mthlrel ... to do!
                                                                     • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                            766 %% Style for \LaTex Relations
                                                            767 \cmdmth{lrel}
                                                            768 \DeclareRobustCommand{\mthstylrel}{\mathrel}
           \cmdmthlrel ... to do!
                                                                     • \cmdmthlrel{cmdName};
                                                                            \colon dNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                     • \cmdmthlrel{cmdName}[\preceq];
                                                                             \cmdNameRel[sub][sub][ext] = \leq_{sub}^{sub} ext
                                                             769 \DeclareRobustCommandx{\cmdmthlrel}[2][2=]
                                                                          {\usrmth{#1}{Rel}{lrel}[#2]}
                                                            \mthsnt ... to do!
                                                                     • \mathbb{I}[Sub][Sub][Ext] = \mathbb{I}[Sub][Ext]
                                                                      \bullet \texttt{ \ \ } \texttt{[Ext2]} = \texttt{Name}^{sup}_{sub} \texttt{Ext1} \texttt{[Arg^{Ex^{Ex}}$)} \texttt{Ext2} = \texttt{Name}^{sup}_{sub} \texttt{Ext1} \Big( Arg^{Ex^{Ex}} \Big) \texttt{Ext2} 
                                                                     \bullet \  \, \texttt{Name} \  \, \texttt{[sub] [sup] [Ext1] \{Arg^{\{Ex^{}\}}\}[Ext2]} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \underbrace{Ext1(Arg^{Ex})Ext2} \  \, = \  \, \underbrace{Ext1(Arg
                                                                     \bullet \  \, \texttt{Name}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}] \\ \{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext2 \\ = \  \, \texttt{Name}^{sub}_{sub} Ext2 \\ = \  \, \texttt{Nam
                                                                      • \mthparsnt*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                             772 %% Style for Sentences
                                                            773 \cmdmthall{snt}
                                                            774 \DeclareRobustCommand{\mthstysnt}{\mathsf}
                                  \aSnt ... to do!
                                          \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                         A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                         \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                        A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                           775 \seqoflet{Snt}{mthsnt}
               \cmdmthsnt ... to do!
                                                                     • \cmdmthsnt{cmdName}:
                                                                            \c MameSnt[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                      • \cmdmthsnt{cmdName}[NewName];
                                                                            \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                                             776 \DeclareRobustCommandx{\cmdmthsnt}[2][2=]
                                                            777 {\usrmth{#1}{Snt}{snt}[#2]}
   \cmdmthargsnt ... to do!
                                                                     • \cmdmthargsnt{cmdName}:
                                                                             \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|| sub|| ext1|| (arg)ext2||
                                                                      • \cmdmthargsnt{cmdName}[NewName];
                                                                            \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                            778 \DeclareRobustCommandx{\cmdmthargsnt}[2][2=]
                                                            779 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
```

```
\cmdmthoargsnt{cmdName};
                         \cmdNameSnt[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      • \cmdmthoargsnt{cmdName}[NewName];
                         \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                   780 \DeclareRobustCommandx{\cmdmthoargsnt}[2][2=]
                   781 {\usrmth{#1}{Snt}{oargsnt}[#2]}
 \cmdmthparsnt ... to do!
                      \cmdmthparsnt{cmdName};
                        \label{lem:cmdNameSnt} $$ \operatorname{sub}[\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2 $$
                      • \cmdmthparsnt{cmdName}[NewName];
                         \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2]
                   782 \DeclareRobustCommandx{\cmdmthparsnt}[2][2=]
                        {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                      \cmdmthoparsnt{cmdName};
                         \cmdNameSnt[sub][sub][par] = cmdName_{sub}^{sub}[par]
                      • \cmdmthoparsnt{cmdName}[NewName];
                        \colon = NewNameSub[sub][sub][par] = NewNameSub[par]
                   784 \DeclareRobustCommandx{\cmdmthoparsnt}[2][2=]
                         {\usrmth{#1}{Snt}{oparsnt}[#2]}
        \mthfrm ... to do!
                      • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                      • \mthargfrm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{}}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                      \bullet \  \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = Name_{sub}^{sup} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, .
                      786 %% Style for Formulae
                   787 \cmdmthall{frm}
                   788 \DeclareRobustCommand{\mthstyfrm}{\mathit}
           \aFrm ... to do!
             \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                  A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                  \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                  A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\varUpsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                   789 \seqoflet{Frm}{mthfrm}
     \cmdmthfrm ... to do!
                      • \cmdmthfrm{cmdName};
                        \verb|\cmdNameFrm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                      • \cmdmthfrm{cmdName}[NewName];
                        \cmdNameFrm[sub][sub][ext] = NewName_{sub}^{sub}ext
                   790 \DeclareRobustCommandx{\cmdmthfrm}[2][2=]
                        {\usrmth{#1}{Frm}{frm}[#2]}
 \cmdmthargfrm ... to do!
                      • \cmdmthargfrm{cmdName};
                         \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                      • \cmdmthargfrm{cmdName}[NewName];
                        \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                   792 \DeclareRobustCommandx{\cmdmthargfrm}[2][2=]
                   793 {\usrmth{#1}{Frm}{argfrm}[#2]}
```

```
\cmdmthoargfrm ... to do!
                                           • \cmdmthoargfrm{cmdName};
                                               \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargfrm{cmdName}[NewName];
                                               \verb|\cmdNameFrm[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                      794 \DeclareRobustCommandx{\cmdmthoargfrm}[2][2=]
                                     795 {\usrmth{#1}{Frm}{oargfrm}[#2]}
  \cmdmthparfrm ... to do!
                                           • \cmdmthparfrm{cmdName};
                                               \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                           • \cmdmthparfrm{cmdName}[NewName];
                                               \cmdNameFrm[sub][sub][ext1][par][ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                     796 \DeclareRobustCommandx{\cmdmthparfrm}[2][2=]
                                     797 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                                           • \cmdmthoparfrm{cmdName};
                                               \verb|\cmdNameFrm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                           • \cmdmthoparfrm{cmdName}[NewName];
                                               \colon dNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                                      798 \DeclareRobustCommandx{\cmdmthoparfrm}[2][2=]
                                              {\usrmth{#1}{Frm}{oparfrm}[#2]}
                                     \mthmat ... to do!
                                           • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} ame \sup_{sub} Ext
                                            \bullet \texttt{ \baselineskip [Sub] [Sub] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = \mathbf{Name}^{sup}_{sub} Ext1 \Big(Arg^{Ex^{Ex}}\Big) Ext2 \\
                                           • \mthargmat*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                           \bullet \  \, \texttt{Name}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}] \\ \{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \\ \mathbf{Name}^{sup}_{sub} Ext2 \\ = \\ \mathbf{Name}^{sub}_{sub} Ext2 \\ = \\ \mathbf{Name}^{sub}_{s
                                           • \mthparmat*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                      801 %% Style for Matrices
                                      802 \cmdmthall{mat}
                                     803 \DeclareRobustCommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
                     \aMat ... to do!
                          \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                   \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                   A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                     804 \seqoflet{Mat}{mthmat}
         \cmdmthmat ... to do!
                                           \cmdmthmat{cmdName};
                                               \verb|\cmdNameMat[sub][sub][ext]| = \mathbf{cmdName}_{sub}^{sub} ext|
                                           \cmdmthmat{cmdName} [NewName];
                                               \colon dNameMat[sub][sub][ext] = NewName_{sub}^{sub}ext
                                     805 \DeclareRobustCommandx{\cmdmthmat}[2][2=]
                                              {\usrmth{#1}{Mat}{mat}[#2]}
  \c to do!
                                           • \cmdmthargmat{cmdName};
                                               \cmdNameMat[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                           • \cmdmthargmat{cmdName}[NewName];
                                               \cmdNameMat[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
```

```
807 \DeclareRobustCommandx{\cmdmthargmat}[2][2=]
                                                                      {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                                                                \cmdmthoargmat{cmdName};
                                                                      \c Mame Mat [sub] [sub] [arg] = cmd Name <sup>sub</sup><sub>sub</sub> (arg)
                                                                 • \cmdmthoargmat{cmdName}[NewName];
                                                                      \verb|\cmdNameMat[sub][sub][arg]| = \verb|NewName|_{sub}^{sub}(arg)
                                                        809 \DeclareRobustCommandx{\cmdmthoargmat}[2][2=]
                                                                     {\usrmth{#1}{Mat}{oargmat}[#2]}
   \cmdmthparmat ... to do!
                                                                • \cmdmthparmat{cmdName};
                                                                      \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1[par]ext2
                                                                 • \cmdmthparmat{cmdName}[NewName];
                                                                      \cmdNameMat[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                        811 \DeclareRobustCommandx{\cmdmthparmat}[2][2=]
                                                        812 {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                                                • \cmdmthoparmat{cmdName};
                                                                      \cmdNameMat[sub][sub][par] = \operatorname{cmdName}_{sub}^{sub}[par]
                                                                 • \cmdmthoparmat{cmdName}[NewName];
                                                                      \colon dNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                        813 \DeclareRobustCommandx{\cmdmthoparmat}[2][2=]
                                                                      {\usrmth{#1}{Mat}{oparmat}[#2]}
                         \mthvec ... to do!
                                                               ullet \mthvec{Name} [sub] [sup] [Ext] = oldsymbol{Name}^{sup}_{sub}Ext
                                                                • \mthargvec{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                                 \bullet \  \, \texttt{\colored} \ 
                                                                 • \mthparvec{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1|Par^{Ex^{Ex}}|Ext2
                                                                 \bullet \  \, \texttt{\colored}[sub][sup][Ext1] \{ Par^{Ex^{-}}\{Ex\} \} \} [Ext2] \\ = Name_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2 \\ = Name_{sub}^{sup} Ext2[Par^{Ex^{Ex}}] Ext2[Par^{Ex^{Ex}}] Ext2[Par^{Ex^{Ex}}] \\ = Name_{sub}^{sup} Ext2[Par^{Ex^{Ex}}] \\ = Name_{sub}^{sub} Ex
                                                        815 %% Style for Vectors
                                                        816 \cmdmthall{vec}
                                                        817 \DeclareRobustCommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
                               \aVec ... to do!
                                       \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                     A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                        818 \seqoflet{Vec}{mthvec}
              \cmdmthvec ... to do!
                                                                • \cmdmthvec{cmdName};
                                                                      \cmdNameVec[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                 • \cmdmthvec{cmdName}[NewName];
                                                                      \verb|\cmdNameVec[sub][sub][ext]| = NewName^{sub}_{sub}ext
                                                        819 \DeclareRobustCommandx{\cmdmthvec}[2][2=]
                                                       820 {\usrmth{#1}{Vec}{vec}[#2]}
   \cmdmthargvec ... to do!
                                                                 \cmdmthargvec{cmdName};
                                                                      \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargvec{cmdName} [NewName];
                                        \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewName^{sub}_{sub}ext1(arg)ext2
                               821 \DeclareRobustCommandx{\cmdmthargvec}[2][2=]
                                        {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                    \cmdmthoargvec{cmdName};
                                        \verb|\cmdNameVec[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                    • \cmdmthoargvec{cmdName}[NewName];
                                        \verb|\cmdNameVec[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                               823 \DeclareRobustCommandx{\cmdmthoargvec}[2][2=]
                                       {\usrmth{#1}{Vec}{oargvec}[#2]}
 \cmdmthparvec ... to do!
                                    • \cmdmthparvec{cmdName};
                                        \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                     • \cmdmthparvec{cmdName} [NewName];
                                        \cmdNameVec[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                               825 \DeclareRobustCommandx{\cmdmthparvec}[2][2=]
                                       {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                                    • \cmdmthoparvec{cmdName};
                                        \verb|\cmdNameVec[sub][sub][par]| = cmdName^{sub}_{sub}[par]|
                                     • \cmdmthoparvec{cmdName}[NewName];
                                        \cmdNameVec[sub][sub][par] = NewName_{sub}^{sub}[par]
                                827 \DeclareRobustCommandx{\cmdmthoparvec}[2][2=]
                                        {\usrmth{#1}{Vec}{oparvec}[#2]}
                               829 \fi
                               834 \iftxt@
                                    • A\dotcheck a\dotcheck.a = A.a. a
          \dotcheck
                               835 \DeclareRobustCommand{\dotcheck}
                                        {\clustering} \{\clustering \{\
                               \adhoc
                                    • \label{eq:adhoc} adhoc = ad\ hoc
                               838 \cmdtxtabr{adhoc}[ad hoc]
        \afortiori
                                    • \arrange a fortiori
                               839 \cmdtxtabr{afortiori}[a fortiori]
           \apriori
                                    • \apriori = a priori
                               840 \cmdtxtabr{apriori}[a priori]
    \aposteriori
                                    • \aposteriori = a posteriori
                               841 \cmdtxtabr{aposteriori}[a posteriori]
                                    • \backslash cf = cf.
                      \cf
                               842 \cmdtxtabr{cf}[cf.\@]
                                    • \del{dedicto} = de \ dicto
            \dedicto
                                843 \cmdtxtabr{dedicto}[de dicto]
```

```
\defacto
                       • \del{defacto} = de \ facto
                    844 \cmdtxtabr{defacto}[de facto]
                       • \forall ere = de re
            \dere
                    845 \cmdtxtabr{dere}[de re]
 \divideetimpera
                       • \divideetimpera = divide et impera
                    846 \cmdtxtabr{divideetimpera}[divide et impera]
              \eg
                       • \backslash eg = e.g.
                    847 \cmdtxtabr{eg}[e.g.\@]
            \ergo
                       • \ergo = ergo
                    848 \cmdtxtabr{ergo}
                       • \errata = errata
          \errata
                    849 \cmdtxtabr{errata}
                       • \erratum = erratum
         \erratum
                    850 \cmdtxtabr{erratum}
                       • \ensuremath{\backslash} \mathtt{etal} = et \ al.
            \etal
                    851 \cmdtxtabr{etal}[et al.\@]
              \etc
                       • \ensuremath{\backslash} \mathsf{etc} = \mathit{etc}.
                    852 \cmdtxtabr{etc}[etc.\@]
              \ie
                       • \forall ie = i.e.
                    853 \cmdtxtabr{ie}[i.e.\@]
                       \bullet \mutatismutandis = mutatis\ mutandis
\mutatismutandis
                    854 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
                        \bullet \ \backslash \mathtt{percontra} = \mathit{per} \ \mathit{contra}
       \percontra
                    855 \cmdtxtabr{percontra}[per contra]
                        \bullet \ \ \texttt{\ \ } primafacie = prima \ facie \\
     \primafacie
                    856 \cmdtxtabr{primafacie}[prima facie]
       \viceversa
                       • \forall viceversa = vice versa
                    857 \cmdtxtabr{viceversa}[vice versa]
              \vs
                       • \vert vs = vs.
                    858 \cmdtxtabr{vs}[vs.\@]
                       • \forall viz = viz.
              \viz
                    859 \cmdtxtabr{viz}[viz.\@]
                    \Afortiori
                       ullet \Afortiori = A \ fortiori
                    861 \cmdtxtabr{Afortiori}[A fortiori]
         \Apriori
                       • \Apriori = A \ priori
                    862 \cmdtxtabr{Apriori}[A priori]
    \Aposteriori
                       • \Aposteriori = A posteriori
                    863 \cmdtxtabr{Aposteriori}[A posteriori]
```

```
\Dedicto
               • \Dedicto = De \ dicto
             864 \cmdtxtabr{Dedicto}[De dicto]
               ullet \Defacto = De\ facto
      \Defacto
             865 \cmdtxtabr{Defacto}[De facto]
        \Dere
               • \Dere = De re
             866 \cmdtxtabr{Dere}[De re]
               • \Divideetimpera = Divide et impera
\Divideetimpera
             867 \cmdtxtabr{Divideetimpera}[Divide et impera]
          \Eg
               • \Eg = E.g.
             868 \cmdtxtabr{Eg}[E.g.\@]
               \bullet \Errata = Errata
      \Errata
             869 \cmdtxtabr{Errata}
               • \Erratum = Erratum
      \Erratum
             870 \cmdtxtabr{Erratum}
               • \Mutatismutandis = Mutatis mutandis
\Mutatismutandis
             871 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
    \Percontra
               • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
             872 \cmdtxtabr{Percontra} [Per contra]
   \Primafacie
               ullet \Primafacie = Prima\ facie
             873 \cmdtxtabr{Primafacie}[Prima facie]
               • \Viceversa = Vice versa
    \Viceversa
             874 \cmdtxtabr{Viceversa}[Vice versa]
             \ala
               • \alphala = \grave{a} la
             878 \cmdtxtabr{ala}[\'a la]
        \nif
               • \n naif = naif
             879 \cmdtxtabr{naif}[na\"{i}f]
       \naive
               • \ne naive = na\"{i}ve
             880 \cmdtxtabr{naive}[na\"{i}ve]
               • \role = r\hat{o}le
        \role
             881 \cmdtxtabr{role}[r\^{o}le]
             \Role
               883 \cmdtxtabr{Role}[R\^{o}le]
```

```
\aka
      885 \cmdtxtabr{aka}[a.k.a.\@]
      • \contd = contd.
\contd
     886 \cmdtxtabr{contd}[contd.\@]
 \iff
      • \iff = iff
     887 \cmdtxtabr{iff}
 \iht
      • \iht = i.h.t.
     888 \cmdtxtabr{iht}[i.h.t.\@]
 \stx
      • \ \ \ \ stx = s.t.
     889 \cmdtxtabr{stx}[s.t.\@]
      • \resp = resp.
 \resp
     890 \cmdtxtabr{resp} [resp.\@]
      \wrt.
     891 \cmdtxtabr{wrt}[w.r.t.\@]
\wlogx
      • \wdots w.l.o.g.
     892 \cmdtxtabr{wlogx}[w.l.o.g.\@]
     \Contd
      • \Contd = Contd.
     894 \cmdtxtabr{Contd} [Contd.\@]
\Wlogx
      • \W log x = W.l.o.g.
     895 \cmdtxtabr{Wlogx}[W.l.o.g.\@]
     896 \fi
     901 \ifmth@
     \defeq ...
\seteq 903 \DeclareRobustCommand{\defeq}
       {\@ifstar%
         {\mthlbop{\stackrel{\text{\textup{def}}}}{=}}}%
     905
         {\mthlbop{\triangleq}}}
     907 \DeclareRobustCommand{\seteq}
       {\@ifstar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
     \limp ...
  ••• 910 \DeclareRobustCommand{\limp}
     911 {\mthlbop{\rightarrow}}
\lcoimp ...
     912 \DeclareRobustCommand{\lcoimp}
       {\mthlbop{\leftrightarrow}}
```

```
\implies ...
             ··· 915 \DeclareRobustCommand{\implies}
                     916 {\mthlrel{\Rightarrow}}
                     917 \DeclareRobustCommand{\notimplies}
                     918 {\mthlrel{\not\Rightarrow}}
   \implied ...
             · · · 919 \DeclareRobustCommand{\implied}
                     920 {\mthlrel{\Leftarrow}}
                     921 \DeclareRobustCommand{\notimplied}
                     922 {\mthlrel{\not\Leftarrow}}
\coimplies ...
             · · · 923 \DeclareRobustCommand{\coimplies}
                     924 {\mthlrel{\Leftrightarrow}}
                      925 \DeclareRobustCommand{\notcoimplies}
                     926 {\mthlrel{\not\!\Leftrightarrow}}
                      \cmodels ...
             · · · 928 \DeclareRobustCommand{\cmodels}
                     929 {\mthlrel{\models}}
                     930 \DeclareRobustCommand{\notcmodels}
                     931 {\mthlrel{\not\models}}
     \cequiv ...
             · · · 932 \DeclareRobustCommand{\cequiv}
                     933 {\mthlrel{\equiv}}
                      934 \DeclareRobustCommand{\notcequiv}
                     935 {\mthlrel{\not\equiv}}
                      \denot ...
                      937 \DeclareRobustCommand{\denot}
                      938 {\@ifstar{\@sdenot}{\@denot}}
                     939 \DeclareRobustCommand{\@denot}[1]
                     941 \DeclareRobustCommand{\Qsdenot}[1]
                     \dual ...
           \verb| \adj 944 \end{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\c
                     945 {\mth{\overline{#1}}}
                     946 \DeclareRobustCommand{\adj}[1]
                     947 {\mth{\mathring{#1}}}
                     948 \DeclareRobustCommand{\der}[1]
                      949 {\bf \{\bf \{}\}}
                      950 \DeclareRobustCommand{\trn}[1]
                     951 {\bf \{\mbox{widetilde}\{\#1\}\}}
           \vec ...
                      952 \DeclareRobustCommand{\vec}
                      953 {\c}^{\c}
                      954 \DeclareRobustCommand{\@vec}[1]
                      955 {\mth{\mathaccent"017E{#1}}}
                      956 \DeclareRobustCommand{\@svec}[1]
                     957 {\mth{\overline{#1}}}
```

```
\enumeration ...
       \cdots 959 \varcmd{enumeration}{\mth*}{}{,}{}}
            960 \mbox{\ensuremath} \mbox{\mbox{\ensuremath}{};}{};}{}
  \sequence ...
       ••• 961 \DeclareRobustCommand{\sequence}
            962 {\@ifstar{\@ssequence}{\@sequence}}
            964 \texttt{\nth*}{[]}{,}{]}{}
            965 \DeclareRobustCommand{\sequencel}
               {\@ifstar{\@ssequencel}{\@sequencel}}
            967 \varcmd{@sequencel}{\mth}{\left[}{,}{\right.}{}
            968 \varcmd{@ssequencel}{\mth*}{[]{,}{}}
            969 \DeclareRobustCommand{\sequencer}
               {\@ifstar{\@ssequencer}{\@sequencer}}
            971 \varcmd{@sequencer}{\mth}{\left.}{,}{\right]}{}
            972 \varcmd{@ssequencer}{\mth*}{}{,}{]}{}
            973 \DeclareRobustCommand{\sequencex}
            974 {\@ifstar{\@ssequencex}{\@sequencex}}
            976 \varcmd{@ssequencex}{\mth*}{[]{;}{]}{}
            977 \DeclareRobustCommand{\sequencex1}
            978 {\@ifstar{\@ssequencexl}} \
            979 \varcmd{@sequencexl}{\mth}{\left[}{;}{\right.}{}
            980 \varcmd{@ssequencex1}{\mth*}{[}{;}{}{}
            981 \DeclareRobustCommand{\sequencexr}
            982 {\@ifstar{\@ssequencexr}{\@sequencexr}}
            984 \cmod{@ssequencexr}{\mth*}{}{;}{]}{}
     \tuple ...
        ••• 985 \DeclareRobustCommand{\tuple}
            986 {\cluster{\cluster{\cluster}}}
            987 \varcmd{@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
            988 \varcmd{@stuple}{\mth*}{\langle}{,}{\rangle}{}
            989 \DeclareRobustCommand{\tuplel}
                {\@ifstar{\@stuplel}{\@tuplel}}
            991 \varcmd{@tuplel}{\mth}{\left\langle}{,}{\right.}{}
            992 \varcmd{@stuplel}{\mth*}{\langle}{,}{}}
            993 \DeclareRobustCommand{\tupler}
                {\@ifstar{\@stupler}{\@tupler}}
            996 \varcmd{@stupler}{\mth*}{}{,}{\rangle}{}
            997 \DeclareRobustCommand{\tuplex}
               {\@ifstar{\@stuplex}{\@tuplex}}
            999 \varcmd{@tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
           1000 \varcmd{@stuplex}{\mth*}{\langle}{;}{\rangle}{}
           1001 \DeclareRobustCommand{\tuplex1}
                {\@ifstar{\@stuplexl}{\@tuplexl}}
           1003 \varcmd{@tuplex1}{\mth}{\left\langle}{;}{\right.}{}
           1004 \varcmd{@stuplex1}{\mth*}{\langle}{;}{}}
           1005 \DeclareRobustCommand{\tuplexr}
           1006 {\@ifstar{\@stuplexr}{\@tuplexr}}
           1007 \varcmd{@tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
           1008 \varcmd{@stuplexr}{\mth*}{}{;}{\rangle}{}
           \set ...
        · · · 1010 \DeclareRobustCommand{\set}
                {\@ifstar{\@sset{\vert}}{\@set{\vert}}}
           1012 \DeclareRobustCommand{\setx}
           1013 {\@ifstar{\@sset{:}}{\@set{.\!:}}}
           1014 \DeclareRobustCommand{\@set}[3]
```

```
{\mth{\argmid{\left\lbrace}{\argsep{#2}{\,\middle#1\,}{#3}}{\right\rbrace}}}
        1016 \DeclareRobustCommand{\@sset}[3]
        1018 \DeclareRobustCommand{\set1}
            {\@ifstar{\@ssetl{\vert}}{\@setl{\vert}}}
        1020 \DeclareRobustCommand{\setlx}
        1021 {\@ifstar{\@ssetl{:}}{\@setl{.\!\!\!:}}}
        1022 \DeclareRobustCommand{\@set1}[2]
        1023 {\bf 1023} {\bf 1023} {\bf 1023}
        1024 \DeclareRobustCommand{\@sset1}[2]
           {\mth*{\argmid{\lbrace}{#2}{\,#1\!}}}
        1026 \DeclareRobustCommand{\setr}
            {\@ifstar{\@ssetr}{\@setr}}
        1027
        1028 \DeclareRobustCommand{\setrx}
            {\@ifstar{\@ssetr}{\@setr}}
        1030 \DeclareRobustCommand{\@setr}[1]
           {\mth{\argmid{\left.}{#1}{\right\rbrace}}}
        1032 \DeclareRobustCommand{\@ssetr}[1]
            {\mth*{\argmid{}{#1}{\rbrace}}}
   \card ...
        1034 \DeclareRobustCommand{\card}
           {\@ifstar{\@scard}{\@card}}
        1036 \DeclareRobustCommand{\@card}[1]
            {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
        1038 \DeclareRobustCommand{\@scard}[1]
            {\mth*{\argmid{\lvert}{#1}{\rvert}}}
    \pow ...
        1040 \DeclareRobustCommand{\pow}[1]
            {\mth{2^{\defval{#1}{\cdot}}}}
        \emptyrel ...
        1043 \DeclareRobustCommand{\emptyrel}
            {\mth{\varnothing}}
        \dom ...
    \cod _{1046} \usrmth{dom}{}{argfun}
    ... 1047 \usrmth{cod}{}{argfun}
        1048 \usrmth{rng}{}{argfun}
        1049 \usrmth{img}{}{argfun}
    \deg ...
        1050 \mbox{ \normth{deg}{\normth{deg}{\normth{deg}}}} 
        \prj ...
        1052 \DeclareRobustCommand{\prj}
        1053 {\mthlbop{\downarrow}}
    \rst ...
        1054 \DeclareRobustCommand{\rst}
        1055 {\mthlbop{\upharpoonright}}
    \cmp ...
        1056 \DeclareRobustCommand{\cmp}
           {\mthlbop{\circ}}
```

```
\emptyfun ...
                     1059 \DeclareRobustCommand{\emptyfun}
                               {\mth{\varnothing}}
                     \pto ...
  \pmapsto 1062 \DeclareMathOperator{\pto}
                                {\ensuremath{\rightharpoonup}}
                     1064 \DeclareMathOperator{\pmapsto}
                                {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
                                      \kern-1.5ex\rightharpoonup}}}
                     \fix ...
          \ifp _{1068} \ \mbox{usrmth}{fix}{}{fun}
            \cdots 1069 \usrmth{ifp}{}{fun}
                     1070 \mbox{ \norm}{1070 \mbox{
                     1071 \sl \{gfp}{fun}
                     \Aomega ...
    \verb|\AOmega|_{1073} \verb|\usrmth{Aomega}{{\tt fargset}[\onega]}|
                     1074 \usrmth{AOmega}{}{argset}[\Omega]
    \Atheta ...
    1076 \usrmth{ATheta}{}{argset}[\Theta]
\Aomicron ...
            \cdots \ 1077 \ \texttt{\Aomicron}{\{\}\{argset\}[\texttt{\comicron}]}
                     1078 \usrmth{AOmicron}{}{argset}[\Omicron]
                     \SetB ...
                     1080 \DeclareRobustCommand{\SetB}
                              {\mthset[mathbb]{B}}
        \SetF ...
                     1082 \DeclareRobustCommand{\SetF}
                     1083 {\mthset[mathbb]{F}}
        \SetN ...
            · · · 1084 \DeclareRobustCommand{\SetN}
                     1085 \quad \{\mathbf{N}\}\
                     1086 \DeclareRobustCommand{\SetNI}[1][]
                     1087 {\SetN[\infty #1]}
        \SetZ ...
            · · · 1088 \DeclareRobustCommand{\SetZ}
                     1089 {\mthset[mathbb]{Z}}
                     1090 \DeclareRobustCommand{\SetZI}[1][]
                     1091 {\SetZ[\pm\infty #1]}
                     1092 \DeclareRobustCommand{\SetZPI}[1][]
                     1093 {\SetZ[+\infty #1]}
                     1094 \DeclareRobustCommand{\SetZNI}[1][]
                     1095 {\SetZ[-\infty #1]}
```

```
\SetQ ...
      \cdots 1096 \DeclareRobustCommand{\SetQ}
              1097 {\mthset[mathbb]{Q}}
              1098 \DeclareRobustCommand{\SetQI}[1][]
                        {\SetQ[\pm\infty #1]}
              {\tt 1100 \ \backslash DeclareRobustCommand \{\backslash SetQPI\} [1] []}
                        {\SetQ[+\infty #1]}
              1102 \DeclareRobustCommand{\SetQNI}[1][]
              1103 {\SetQ[-\infty #1]}
 \SetR ...
      · · · 1104 \DeclareRobustCommand{\SetR}
              1105 \quad \{\text{mthset[mathbb]}\{R\}\}
              1106 \DeclareRobustCommand{\SetRI}[1][]
                       {\SetR[\pm\infty #1]}
              1107
              1108 \DeclareRobustCommand{\SetRPI}[1][]
                        {\SetR[+\infty #1]}
              1110 \DeclareRobustCommand{\SetRNI}[1][]
              1111 {\SetR[-\infty #1]}
 \SetC ...
      · · · 1112 \DeclareRobustCommand{\SetC}
                        {\mthset[mathbb]{C}}
              1114 \DeclareRobustCommand{\SetCI}[1][]
                        {\SetC[\infty #1]}
              \num ...
      · · · 1117 \DeclareRobustCommand{\num}[1]
              1118 {\mth{[#1]}}
             1119 \DeclareRobustCommand{\numcc}[2]
             1120 {\mth{[\argsep{#1}{,}{#2}]}}
             1121 \DeclareRobustCommand{\numco}[2]
             1122 \quad \{ \mathbf{1}_{2} \  \  \, \{ \mathbf{1}_{3}, \{ 2 \} ) \} 
             1123 \DeclareRobustCommand{\numoc}[2]
             1124 {\mth{(\argsep{#1}{,}{#2}]}}
              1125 \DeclareRobustCommand{\numoo}[2]
                        {\mth{(\argsep{#1}{,}{#2})}}
              \abs ...
 \norm\ _{1128}\DeclareRobustCommand{\abs}
                       {\@ifstar{\@sabs}{\@abs}}
              1130 \DeclareRobustCommand{\Qabs}[1]
                        {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
              1132 \DeclareRobustCommand{\@sabs}[1]
                       {\mth*{\argmid{\lvert}{#1}{\rvert}}}
              1134 \DeclareRobustCommand{\norm}
                        {\@ifstar{\@snorm}{\@norm}}
              1136 \DeclareRobustCommand{\@norm}[1]
                         {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
              1138 \DeclareRobustCommand{\@snorm}[1]
                        {\mth*{\argmid{\lVert}{#1}{\rVert}}}
\floor ...
 \cit 1140 \cit
                        {\@ifstar{\@sfloor}{\@floor}}
              1142 \DeclareRobustCommand{\@floor}[1]
                         {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
              1144 \DeclareRobustCommand{\@sfloor}[1]
                        {\mth*{\argmid{\lfloor}{#1}{\rfloor}}}
              1146 \DeclareRobustCommand{\ceil}
```

```
1147 {\c}^{\c} \
                                   1148 \DeclareRobustCommand{\@ceil}[1]
                                   1150 \DeclareRobustCommand{\@sceil}[1]
                                                    {\mth*{\argmid{\lceil}{#1}{\rceil}}}
                                   \arg ...
                                  1153 \usrmth{arg}{}{fun}
                   \evn ...
                   \odd _{1154} \usrmth{evn}{fun}
                                  1155 \operatorname{\sqrt{odd}}{fun}
                   \bst ...
                      \cdots 1156 \usrmth{bst}{}{fun}
                                   1157 \usrmth{argbst}{}{fun}[arg\,bst]
                   \min ...
                   \max_{1158} \operatorname{lmin}{{fun}}
                      \cdots 1159 \usrmth{max}{}{fun}
                                    1160 \usrmth{argmin}{}{fun}[arg\,min]
                                   1161 \usrmth{argmax}{}{fun}[arg\,max]
                   \inf ...
                   \sup _{1162} \usrmth{inf}{}{fun}
                                  1163 \mbox{ \scalebox{ } \scalebox{ \scalebox{ } \scalebox{ } \scalebox{ } \scalebox{ \scalebox{ } \scalebox{ } \scalebox{ } \scalebox{ \scalebox{ } \scalebox{ } \scalebox{ } \scalebox{ } \scalebox{ \scalebox{ } \scalebox{ } \scalebox{ } \scalebox{ } \scalebox{ \scalebox{ } \scalebox{ \scalebox{ } \scalebox
                   \gcd ...
                  \label{lower} $$ \prod_{1164 \leq 1164} \left( \ \ \ \ \ \ \ \ \ \ \ \ \right) $$
                                   1165 \operatorname{lcm}{}{fun}
                                   \emptyseq ...
                                   1167 \DeclareRobustCommand{\emptyseq}
                                                   {\mth{\varepsilon}}
                   \len ...
                                  1169 \DeclareRobustCommand{\len}
                                  1170 \quad {\c {\c }\c {
                                  1171 \DeclareRobustCommand{\@len}[1]
                                  1172 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
                                   1173 \DeclareRobustCommand{\@slen}[1]
                                  1174 {\mth*{\argmid{\lvert}{#1}{\rvert}}}
                   \fst ...
                   \lst 1175 \usrmth{fst}{}{argfun}
                                  1176 \usrmth{lst}{}{argfun}
                                  1182 \ifcom@
\defcomcls ... to do!
                                             • \defcomcls{CompClass};
                                                    \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
```

```
\defcomcls{CompClass}[NewClass];
                                    \CompClass[sub][sup][arg] = NEWCLASS_{SUB}^{SUP}(ARG)
                          1183 \DeclareRobustCommandx{\defcomcls}[2][2=]
                                    {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
                                • \defcomclsgrp{CompClass};
                                   \verb|\CompClass[sub][sup][arg]| = \operatorname{COMPCLASS}^{SUP}_{SUB}(ARG)
                                    \CoCompClass[sub][sup][arg] = CoCompClass_{SUB}^{SUP}(ARG)
                                    \CompClassE[sub][sup][arg] = COMPCLASS-EASY_{SUB}^{SUP}(ARG)
                                    \verb|\CoCompClassE[sub][sup][arg]| = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \verb|\CompClassH[sub][sup][arg]| = CompClass-Hard_{SUB}^{SUP}(ARG)
                                   \verb|\CoCompClassH[sub][sup][arg]| = CoCompClass-Hard_{SuB}^{SUP}(ARG)
                                   \compClassC[sub][sup][arg] = CompCLASS-CompLete_{Sub}^{SUP}(ARG)
                                   \verb|\CoCompClassC[sub][sup][arg]| = CoCompClass-Complete_{SUB}^{SUP}(ARG)
                                   \DCompClass[sub][sup][arg] = DComPCLASS_{SUB}^{SUP}(ARG)
                                   \verb|\CoDCompClass[sub][sup][arg]| = CoDCompClass(Sub)(ARG)
                                   \verb|\DCompClassE[sub][sup][arg]| = DCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \verb|\CoDCompClassE[sub][sup][arg]| = CoDCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \verb|\DCompClassH[sub][sup][arg]| = DCompClass-Hard_{SUB}^{SUP}(ARG)
                                   \verb|\CoDCompClassH[sub][sup][arg]| = CoDCompClass-Hard_{SUB}^{SUP}(ARG)
                                   \CoDCompClassC[sub][sup][arg] = CoDCompClass-Complete_{SUB}^{SUP}(ARG)
                                   \NCompClass[sub][sup][arg] = NCompClass_{SUB}^{SUP}(ARG)
                                   \ConCompClass[sub][sup][arg] = ConCompClass_{SUB}^{SUP}(ARG)
                                   \NCompClassE[sub][sup][arg] = NCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \ConCompClassE[sub][sup][arg] = ConCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \NCompClassH[sub][sup][arg] = NCompClass-Hard_{SUB}^{SUP}(ARG)
                                   \verb|\CoNCompClassH[sub][sup][arg]| = CoNCompClass-Hard_{SUB}^{SUP}(ARG)
                                   \NCompClassC[sub][sup][arg] = NCompClass-Complete_{SUB}^{SUP}(ARG)
                                   \verb|\ConCompClassC[sub][sup][arg]| = ConCompClass-complete_{SUB}^{SUP}(ARG)
                                   \UCompClass[sub][sup][arg] = UCompCLASS_{SUB}^{SUP}(ARG)
                                   \verb|\CoUCompClass[sub][sup][arg]| = CoUCoMPCLASS^{SUP}_{SUB}(ARG)
                                   \verb|\UCompClassE[sub][sup][arg]| = UCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \verb|\CoUCompClassE[sub][sup][arg]| = CoUCOMPCLASS-EASY_{SUB}^{SUP}(ARG)
                                   \verb|\UCompClassH[sub][sup][arg]| = UCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
                                   \Coultberg Coultberg Cou
                                   \UCompClassC[sub][sup][arg] = UCompClass-Complete_{SUB}^{SUP}(ARG)
                                   \CoulompClassC[sub][sup][arg] = CoUCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                                   \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
                                   \verb|\CoACompClass[sub][sup][arg]| = CoACompClass_{SUB}^{SUP}(ARG)
                                   \verb|\ACompClassE[sub][sup][arg]| = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)
                                   \CoACompClassE[sub][sup][arg] = CoACompClass-Easy_{SUB}^{SUP}(ARG)
                                   \Lambda CompClassH[sub][sup][arg] = ACOMPCLASS-HARD_{SUB}^{SUP}(ARG)
                                   \verb|\CoACompClassH[sub][sup][arg]| = CoACompClass-Hard_{SUB}^{SUP}(ARG)
                                   \label{eq:acompClassC} $$ \Delta CompClassC[sub][sup][arg] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG) $$
                                   \CoACompClassC[sub][sup][arg] = CoACompClass-CompLete_{Sub}^{SUP}(ARG)
                                \defcomclsgrp{CompClass}[NewClass];
                                   \CompClass[sub][sup][arg] = NewClass_{SUB}^{SUP}(ARG)
                                   \CoCompClass[sub][sup][arg] = CoNewClass_{SUB}^{SUP}(ARG)
                                   \CompClassE[sub][sup][arg] = NewClass-easy_{SUB}^{SUP}(ARG)
                                   \verb|\CoCompClassE[sub][sup][arg]| = CoNewClass-Easy_{SUB}^{SUP}(ARG)
                                   \verb|\CompClassH[sub][sup][arg]| = NewClass-Hard_{SUB}^{SUP}(ARG)
                                   \verb|\CoCompClassH[sub][sup][arg]| = \operatorname{CoNewClass-HARD}_{SUB}^{SUP}(ARG)
                                   \verb|\CompClassC[sub][sup][arg]| = NewClass-complete_{SUB}^{SUP}(ARG)
```

 $\verb|\CoCompClassC[sub][sup][arg]| = CoNewClass-complete_{SUB}^{SUP}(ARG)$ 

```
\CoDCompClass[sub][sup][arg] = CoDNewClass_{SUB}^{SUP}(ARG)
                              \DCompClassE[sub][sup][arg] = DNEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \verb|\CoDCompClassE[sub][sup][arg]| = CoDNewClass-Easy_{SUB}^{SUP}(ARG)
                              \label{eq:decompClassH} $$ \D{\compClassH[sub][sup][arg]} = DNEWCLASS-HARD_{SUB}^{SUP}(ARG) 
                              \verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{SUB}^{SUP}(ARG)
                              \DCompClassC[sub][sup][arg] = DNewClass-Complete_{SUB}^{SUP}(ARG)
                              \CoDCompClassC[sub][sup][arg] = CoDNewClass-Complete_{SUB}^{SUP}(ARG)
                              \label{eq:ncompClass} $$ [\sup] [\sup] = NNEWCLASS_{SUB}^{SUP}(ARG) $$
                              \verb|\CoNCompClass[sub][sup][arg]| = CoNNewClass_{SUB}^{SUP}(ARG)
                              \verb|\NCompClassE[sub][sup][arg]| = NNewClass-easy_{Sub}^{SUP}(ARG)
                              \ConCompClassE[sub][sup][arg] = ConNewClass-Easy_{SUB}^{SUP}(Arg)
                              \N{\c CLASS-HARD}_{SUB}[sup][arg] = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{SUB}^{SUP}(Arg)
                              \NCompClassC[sub][sup][arg] = NNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                              \ConCompClassC[sub][sup][arg] = ConNewClass-Complete_{SUB}^{SUP}(ARG)
                              \UCompClass[sub][sup][arg] = UNEWCLASS_{SUB}^{SUP}(ARG)
                              \verb|\CoUCompClass[sub][sup][arg]| = CoUNewClass_{SUB}^{SUP}(ARG)
                              \UCompClassE[sub][sup][arg] = UNEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \CoulompClassE[sub][sup][arg] = CoUNEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \UCompClassH[sub][sup][arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \verb|\CoUCompClassH[sub][sup][arg]| = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \verb|\UCompClassC[sub][sup][arg]| = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                              \Coulomb Class C[sub][sup][arg] = Council Co
                              \label{eq:accompclass} $$ \arg] = ANEWCLASS_{SUB}^{SUP}(ARG) $$
                              \verb|\CoACompClass[sub][sup][arg]| = CoANewClass_{SUB}^{SUP}(ARG)
                              \triangle CompClassE[sub][sup][arg] = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \CoACompClassE[sub][sup][arg] = CoANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \triangle CompClassH[sub][sup][arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \CoACompClassH[sub][sup][arg] = CoANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \ACompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                              \CoACompClassC[sub][sup][arg] = CoANewClass-Complete_{SUB}^{SUP}(ARG)
                    1185 \DeclareRobustCommandx{\defcomclsgrp}[2][2=]
                               {\displaystyle \{ \cdot \}_{i=1}^{t} }
                    1186
                                \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
                    1187
                    1188 \DeclareRobustCommandx{\defcomclsgrpsem}[3][3=]
                               {\defcomclsgrpred{#3#1}{#2}[#3]%
                               \defcomclsgrpred{#3D#1}{#2}[#3D]%
                    1191
                               \defcomclsgrpred{#3N#1}{#2}[#3N]%
                    1192
                               \defcomclsgrpred{#3U#1}{#2}[#3U]%
                    1193
                               \defcomclsgrpred{#3A#1}{#2}[#3A]}
                    1194 \DeclareRobustCommandx{\defcomclsgrpred}[3][3=]
                              {\defcomclsgrpcmd{#1}{#2}[#3]%
                    1195
                               \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                    1196
                               \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                    1197
                               \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                    1199 \DeclareRobustCommandx{\defcomclsgrpcmd}[4][3=, 4=]
                               {\csdef{#1}{\txtoargcom{#3#2#4}}}
\defcomhrc ... to do!
                           \defcomhrc{CompHierarchy};
                              \texttt{CompHierarchy[sub][sup][par]} = \texttt{CompHierarchy}^{\texttt{SUP}}_{\texttt{SUB}}[\texttt{PAR}]
                           • \defcomhrc{CompHierarchy} [NewHierarchy];
                              CompHierarchy[sub][sup][par] = NEWHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                    1201 \DeclareRobustCommandx{\defcomhrc}[2][2=]
                              {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
```

 $\DCompClass[sub][sup][arg] = DNEWCLASS_{SUB}^{SUP}(ARG)$ 

```
\Easv
\Hard 1204 \cmdtxtcom{Easy}
   · · · 1205 \cmdtxtcom{Hard}
        1206 \cmdtxtcom{Complete}
        \FPT
           • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
           • \FPLin[sub][sup][arg] = FPL_{SUB}^{SUP}(ARG)
           ullet \FPQdr[sub][sup][arg] = \mathrm{FPQ}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
           • \FPCub[sub][sup][arg] = FPC_{SUB}^{SUP}(ARG)
       1208 \defcomcls{FPT}
       1209 \defcomcls{FPLin}[FPL]
       1210 \defcomcls{FPQdr}[FPQ]
       1211 \defcomcls{FPCub}[FPC]
        \Time
           • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
             TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
             TimeH[sub][sup][arg] = TIME-HARD_{SUB}^{SUP}(ARG)
             TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
           • \DTime[sub][sup][arg] = DTIME_{SUB}^{SUP}(ARG)
             \DTimeE[sub][sup][arg] = DTIME-EASY_{SUB}^{SUP}(ARG)
             \texttt{\DTimeH[sub][sup][arg]} = \mathrm{DTIME-HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
             \DTimeC[sub][sup][arg] = DTIME-COMPLETE_{SUB}^{SUP}(ARG)
           • \NTime[sub][sup][arg] = NTIME_{SUB}^{SUP}(ARG)
             \NTimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
             \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
             \NTimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
           • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
             \verb|\UTimeE[sub][sup][arg]| = \mathrm{UTIME\text{-}EASY}^{SUP}_{SUB}(ARG)
             \UTimeH[sub][sup][arg] = UTIME-HARD_{SUB}^{SUP}(ARG)
             \UTimeC[sub][sup][arg] = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
           • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
             \Delta TimeE[sub][sup][arg] = ATIME-EASY_{SUB}^{SUP}(ARG)
             \Delta TimeH[sub][sup][arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
             \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
       1213 \defcomclsgrp{Time}
           • Space[sub][sup][arg] = SPACE_{SUB}^{SUP}(ARG)
\Space
             \SpaceE[sub][sup][arg] = SPACE-EASY_{SUB}^{SUP}(ARG)
             \SpaceH[sub][sup][arg] = SPACE-HARD_{SUB}^{SUP}(ARG)
             \verb|\SpaceC[sub][sup][arg]| = Space-Complete_{SUB}^{SUP}(ARG)
           • DSpace[sub][sup][arg] = DSPACE_{SUB}^{SUP}(ARG)
             \DSpaceE[sub][sup][arg] = DSPACE-EASY_{SUB}^{SUP}(ARG)
             \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
             \verb|\DSpaceC[sub][sup][arg]| = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
           • NSpace[sub][sup][arg] = NSPACE_{SUB}^{SUP}(ARG)
             \verb|NSpaceE[sub][sup][arg]| = NSPACE-EASY_{SUB}^{SÚP}(ARG)
             \verb|\NSpaceH[sub][sup][arg]| = NSPACE-HARD_{SUB}^{SUP}(ARG)
             \texttt{NSpaceC[sub][sup][arg]} = \operatorname{NSPACE-COMPLETE}^{SUP}_{SUB}(ARG)
           • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
             \verb|\USpaceE[sub][sup][arg]| = USPACE-EASY_{SUB}^{SUP}(ARG)
             \verb| USpaceH[sub][sup][arg] = USPACE-HARD_{SUB}^{SUP}(ARG)
             \verb|\USpaceC[sub][sup][arg]| = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

```
• ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                              \texttt{ASpaceE[sub][sup][arg]} = ASPACE-EASY_{SUB}^{SUP}(ARG)
                               ASpaceH[sub][sup][arg] = ASPACE-HARD_{SUB}^{SUP}(ARG)
                               ASpaceC[sub][sup][arg] = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                    1214 \defcomclsgrp{Space}
                           \bullet \ \texttt{\logTime[sub][sup][arg]} = \mathrm{LOGTIME}^{SUP}_{SUB}(\mathrm{ARG}) 
 \LogTime
                              \verb|\LogTimeE[sub][sup][arg]| = LogTime-easy_{sub}^{SUP}(ARG)
                               \verb|\LogTimeH[sub][sup][arg]| = \operatorname{LogTime-HARD}_{SUB}^{SUP}(ARG)
                               \lceil LogTimeC[sub][sup][arg] = LogTime-Complete_{SUB}^{SUP}(ARG)
                           • \DLogTime[sub][sup][arg] = DLogTIME_{SUB}^{SUP}(ARG)
                               \DLogTimeE[sub][sup][arg] = DLogTime-EASY_{SUB}^{SUP}(ARG)
                              \DLogTimeH[sub][sup][arg] = DLogTime-HARD_{SUB}^{SUP}(ARG)
                              \DLogTimeC[sub][sup][arg] = DLogTime-COMPLETE_{SUB}^{SUP}(ARG)
                           \label{eq:NLogTimeE} $$ \NLogTimeE[sub] [sup] [arg] = NLogTime-EASY_{SUB}^{SUP}(ARG) $$
                               \verb|\NLogTimeH[sub][sup][arg]| = NLOGTIME-HARD_{SUB}^{SUP}(ARG)
                               \NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)
                           • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                              \verb| ULogTimeE[sub][sup][arg] = ULogTime-easy_{sub}^{SUP}(ARG)
                               \ULogTimeH[sub][sup][arg] = ULogTime-HARD_{SUB}^{SUP}(ARG)
                               \ULogTimeC[sub][sup][arg] = ULogTime-Complete_{SUB}^{SUP}(ARG)
                           • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                              \ALogTimeE[sub][sup][arg] = ALogTime-EASY_{SUB}^{SUP}(ARG)
                               \verb|\ALogTimeH[sub][sup][arg]| = ALogTime-Hard_{SUB}^{SUP}(ARG)
                               \Lambda LogTimeC[sub][sup][arg] = ALogTime-Complete_{SUB}^{SUP}(ARG)
                    1215 \defcomclsgrp{LogTime}
                           • \LogSpace[sub][sup][arg] = LogSpace<sub>SUB</sub>(ARG)
\LogSpace
                               \LogSpaceE[sub][sup][arg] = LogSpace-Easy_{SUB}^{SUP}(ARG)
           . . .
                              LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(ARG)
                              \verb|\LogSpaceC[sub][sup][arg]| = \operatorname{LogSpace-Complete}_{SUB}(ARG)
                           • \DLogSpace[sub][sup][arg] = DLogSpace_{SUB}^{SUP}(ARG)
                               \DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)
                              \DLogSpaceH[sub][sup][arg] = DLogSpace-HardSup(Arg)
                               \verb|\DLogSpaceC[sub][sup][arg]| = DLogSpace-Complete_{SUB}^{SUP}(ARG)
                           • \NLogSpace[sub][sup][arg] = NLogSpace[sub](Arg)
                               \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                               \NLogSpaceH[sub][sup][arg] = NLogSpace-Hard_{SUB}^{SUP}(Arg)
                               \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(ARG)
                           • \ULogSpace[sub][sup][arg] = ULogSpace_{SUB}^{SUP}(ARG)
                              \ULogSpaceE[sub][sup][arg] = ULogSpace-Easy_{SUB}^{SUP}(ARG)
                               \ULogSpaceH[sub][sup][arg] = ULogSpace-Hard_{SUB}^{SUP}(Arg)
                              \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(ARG)
                           • ALogSpace[sub][sup][arg] = ALogSpace_{SUB}^{SUP}(ARG)
                              \verb|\ALogSpaceE[sub][sup][arg]| = ALogSpace-Easy_{SUB}^{SUP}(ARG)
                              ALogSpaceH[sub][sup][arg] = ALogSpace-HardSup(Arg)
                              ALogSpaceC[sub][sup][arg] = ALogSpace-Complete_{Sub}^{SUP}(Arg)
                    1216 \defcomclsgrp{LogSpace}
                            \bullet \ \ \texttt{\baseline}[\mathtt{sub}] \ [\mathtt{sup}] \ [\mathtt{arg}] \ = \ \mathrm{PTIME}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{ARG}) 
      \PTime
                              \label{eq:ptimeEsub} $$ \Pr[\sup] [arg] = \Pr[ME-EASY_{SUB}^{SUP}(ARG)] $$
            . . .
                              \label{eq:ptimeH} $$ \Pr[\sup] [\arg] = \Pr[\operatorname{HARD}^{SUP}_{SUB}(\operatorname{ARG}) $$
                              \verb|\PTimeC[sub][sup][arg]| = PTime-COMPLETE_{SUB}^{SUP}(ARG)
                           \bullet \ \ \texttt{\baseline}[\mathtt{sub}][\mathtt{sup}][\mathtt{arg}] = \mathrm{DPTime}^{SUP}_{SUB}(\mathtt{ARG})
                               \label{eq:def:DPTimeE[sub] sup of the control of 
                              \label{eq:def:DPTimeH} $$ \operatorname{DPTIME-HARD}_{SUB}^{SUP}(ARG) = \operatorname{DPTIME-HARD}_{SUB}^{SUP}(ARG) 
                              \label{eq:def:DPTimeC} $$ \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
```

```
• \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                \label{eq:nptimeEsub} $$ \PTime=[sub][sup] = NPTime-EASY_{SUB}^{SUP}(ARG) $$
                \NPTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG)
                \NPTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
              • \UPTime[sub][sup][arg] = UPTIME_{SUB}^{SUP}(ARG)
                \verb|\UPTimeE[sub][sup][arg]| = UPTime-EASY_{SUB}^{SUP}(ARG)
                \label{eq:uptimeH} $$ \UPTimeH[sub][sup][arg] = UPTIME-HARD_{SUB}^{SUP}(ARG) $$
                \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
              • APTime[sub][sup][arg] = APTIME_{SUB}^{SUP}(ARG)
                \verb| APTimeE[sub][sup][arg] = APTIME-EASY_{SUB}^{SUP}(ARG)
                \label{eq:aptimeH} $$ \Delta PTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG) 
                \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
          1217 \defcomclsgrp{PTime}
              \PSpace
                 \label{eq:pspace} $$ \PSpace[sub] [sup] [arg] = PSpace-EASY_{SUB}^{SUP}(ARG) 
                 \label{eq:pspaceH} $$ \PSpaceH[sub] [sup] [arg] = PSpace-HARD_{SUB}^{SUP}(ARG) $$
                 \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
              • \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
                \label{eq:decomposition} $$ \DPSpaceE[sub][sup][arg] = DPSpace-EASY_{SUB}^{SUP}(ARG) $$
                \DPSpaceH[sub][sup][arg] = DPSPACE-HARD_{SUB}^{SUP}(ARG)
                \label{eq:def:DPSpaceC[sub] sup of the definition} \begin{center} $\operatorname{DPSPACE-COMPLETE}^{SUP}_{SUB}(ARG)$ \\ \end{center}
              • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                \label{eq:NPSpaceEsub} $$ \[\sup] [arg] = NPSPACE-EASY_{SUB}^{SUP}(ARG) $$
                 \label{eq:NPSpaceH} $$ \NPSpaceH[sub] [sup] [arg] = NPSpace-HARD_{SUB}^{SUP}(ARG) $$
                \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
              • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                \verb| UPSpaceE[sub][sup][arg] = UPSpace-EASY_{SUB}^{SUP}(ARG)
                \verb|VPSpaceH[sub][sup][arg]| = UPSPACE-HARD_{SUB}^{SUP}(ARG)
                \UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
              • APSpace[sub][sup][arg] = APSPACE_{SUB}^{SUP}(ARG)
                \APSpaceE[sub][sup][arg] = APSPACE-EASY_{SUB}^{SUP}(ARG)
                 \verb|\APSpaceH[sub][sup][arg]| = APSPACE-HARD_{SUB}^{SUP}(ARG)
                \label{eq:apsign} $$ \APSpaceC[sub][sup][arg] = APSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
          1218 \defcomclsgrp{PSpace}
              • \QPTime[sub][sup][arg] = QPTIME_SUB(ARG)
\QPTime
                \QPTimeE[sub][sup][arg] = QPTIME-EASY_{SUB}^{SUP}(ARG)
                \QPTimeH[sub][sup][arg] = QPTIME-HARD_{SUB}^{SUP}(ARG)
                \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
              • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                \verb|\DQPTimeE[sub][sup][arg]| = DQPTIME-EASY_{SUB}^{SUP}(ARG)
                 \texttt{DQPTimeH[sub][sup][arg]} = \mathrm{DQPTIME-HARD}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{ARG})
                \label{eq:def-DQPTimeC} $$ \DQPTimeC[sub] [sup] [arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
              \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                \NQPTimeH[sub][sup][arg] = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
              \verb|VQPTimeE[sub][sup][arg]| = UQPTIME-EASY_{SUB}^{SUP}(ARG)
                 \verb|VQPTimeH[sub][sup][arg]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                 \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
              • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                \texttt{AQPTimeE[sub][sup][arg]} = \mathrm{AQPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                \texttt{\AQPTimeH[sub][sup][arg]} = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                \AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
          1219 \defcomclsgrp{QPTime}
```

52

```
\QPSpace
                 • \QPSpace[sub][sup][arg] = QPSpace_{SUB}^{SUP}(ARG)
                   \verb|\QPSpaceE[sub][sup][arg]| = QPSpace-EASY_{SUB}^{SUP}(ARG)
                    \label{eq:QPSpaceHardsub} $$ \QPSpaceHard_{SUB}^{SUP}(ARG) = QPSpace-Hard_{SUB}^{SUP}(ARG) $$
                    \QPSpaceC[sub][sup][arg] = QPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                   \DQPSpaceE[sub][sup][arg] = DQPSPACE-EASY_{SUB}^{SUP}(ARG)
                   \verb|\DQPSpaceH[sub][sup][arg]| = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                   \verb|\DQPSpaceC[sub][sup][arg]| = \mathrm{DQPSPACE\text{-}COMPLETE}^{SUP}_{SUB}(ARG)
                 • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                   \NQPSpaceE[sub][sup][arg] = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                   \verb|NQPSpaceH[sub][sup][arg]| = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                   \NQPSpaceC[sub][sup][arg] = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 • \UQPSpace[sub][sup][arg] = UQPSPACE_{SUB}^{SUP}(ARG)
                    \UQPSpaceE[sub][sup][arg] = UQPSPACE-EASY_{SUB}^{SUP}(ARG)
                    \verb|VQPSpaceH[sub][sup][arg]| = \mathrm{UQPSPACE-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                    \UQPSpaceC[sub][sup][arg] = UQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 \bullet \ \ \texttt{\ AQPSpace[sub][sup][arg]} = \mathrm{AQPSpace}^{SUP}(\mathrm{ARG})
                   \verb|AQPSpaceE[sub][sup][arg]| = \mathrm{AQPSPACE\text{-}EASY}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                   \verb|\AQPSpaceH[sub][sup][arg]| = \mathrm{AQPSPACE}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                   \verb|AQPSpaceC[sub][sup][arg]| = AQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
             1220 \defcomclsgrp{QPSpace}
                 \bullet \ \texttt{\baseline[sub][sup][arg]} = \mathrm{ExpTime}^{SUP}_{SUB}(ARG)
 \ExpTime
                   \ExpTimeE[sub][sup][arg] = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                   \ExpTimeH[sub][sup][arg] = EXPTIME-HARD_{SUB}^{SUP}(ARG)
                   \ExpTimeC[sub][sup][arg] = EXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                 • \DExpTime[sub][sup][arg] = DEXPTIME_{SUB}^{SUP}(ARG)
                   \label{eq:decomposition} $$ \DExpTimeE[sub][sup][arg] = DExpTime-EASY_{SUB}^{SUP}(ARG) $$
                    \texttt{\DExpTimeH[sub][sup][arg]} = DEXPTIME-HARD_{SUB}^{SUP}(ARG)
                    \texttt{\DExpTimeC[sub][sup][arg]} = DEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                 • \NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                   \NExpTimeE[sub][sup][arg] = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                   \verb|\NExpTimeH[sub][sup][arg]| = NEXPTIME-HARD_{SUB}^{SUP}(ARG)
                   \NExpTimeC[sub][sup][arg] = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                 \verb|\UExpTimeE[sub][sup][arg]| = UEXPTIME-EASY_{SUB}^{SUP}(ARG)
                    \UExpTimeH[sub][sup][arg] = UEXPTIME-HARD_{SUB}^{SUP}(ARG)
                    \verb|\UExpTimeC[sub][sup][arg]| = UEXPTIME-COMPLETE_{SUB}^{SUB}(ARG)
                 • \triangleExpTime[sub][sup][arg] = \triangleEXPTIME^{SUP}_{SUB}(ARG)
                    \texttt{AExpTimeE[sub][sup][arg]} = AEXPTIME-EASY_{SUB}^{SUP}(ARG)
                    \verb|\AExpTimeH[sub][sup][arg]| = AEXPTIME-HARD_{SUB}^{SUP}(ARG)
                    \triangle ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
             1221 \defcomclsgrp{ExpTime}
                 • \ExpSpace[sub][sup][arg] = EXPSPACE_{SUB}^{SUP}(ARG)
\ExpSpace
                   \verb|\ExpSpaceE[sub][sup][arg]| = \operatorname{ExpSpace-Easy}^{SUP}_{SUB}(\operatorname{Arg})
                    \texttt{\ensuremath{\color{ExpSpaceH[sub][sup][arg]}} = ExpSpace+HARD_{SUB}^{SUP}(ARG)}
                    \texttt{ExpSpaceC[sub][sup][arg]} = \text{ExpSpace-complete}_{\text{SUB}}^{\text{SUP}}(\text{Arg})
                 • \DExpSpace[sub][sup][arg] = DExpSpace[sub](ARG)
                    \verb|\DExpSpaceE[sub][sup][arg]| = DEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                    \verb|\DExpSpaceH[sub][sup][arg]| = DEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                    \texttt{DExpSpaceC[sub][sup][arg]} = DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 • \NExpSpace[sub][sup][arg] = NExpSpace[sub](ARG)
                    \verb|\NExpSpaceE[sub][sup][arg]| = NEXPSPACE-EASY_{SUB}^{SUB}(ARG)
                   \NExpSpaceH[sub][sup][arg] = NExpSpace-HARD_{SUB}^{SUP}(ARG)
                   \NExpSpaceC[sub][sup][arg] = NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 • \UExpSpace[sub][sup][arg] = UExpSpace_{SUB}^{SUP}(ARG)
                    \verb|\UExpSpaceE[sub][sup][arg]| = UEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                    \UExpSpaceH[sub][sup][arg] = UExpSpace-Hard_{SUB}^{SUP}(Arg)
                    \UExpSpaceC[sub][sup][arg] = UExpSpace-COMPLETE_{SUB}^{SUP}(ARG)
```

```
• \AExpSpace[sub][sup][arg] = AExpSpace_Sup(ARG)
            \verb|\AExpSpaceE[sub][sup][arg]| = AExpSpace-Easy_{sub}^{SUP}(ARG)
            \verb|\AExpSpaceH[sub][sup][arg]| = AEXPSPACE-HARD_{SUB}^{SUP}(ARG)
            \AExpSpaceC[sub][sup][arg] = AExpSpace-Complete_{Sub}^{SUP}(Arg)
       1222 \defcomclsgrp{ExpSpace}
       \PH
          • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
       1224 \defcomhrc{PH}
          ullet \WH[sub][sup][par] = W_{SUB}^{SUP}[PAR]
    \WH
       1225 \defcomhrc{WH}[W]
          \bullet \AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
       1226 \defcomhrc{AH}[A]
          ullet \DLH[sub] [sup] [par] =\Delta_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
   \DLH
   \DBH
          ullet \DBH[sub][sup][par] = oldsymbol{\Delta}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
       1227 \defcomhrc{DLH}[{\mth{\Delta}}]
       1228 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
          ullet \ELH[sub] [sup] [par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
   \ELH
   \EBH
          ullet \EBH[sub] [sup] [par] = oldsymbol{\Sigma}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
       1229 \defcomhrc{ELH}[{\mth{\Sigma}}]
       1230 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
   \ULH
          • \ULH[sub][sup][par] = \Pi_{SUB}^{SUP}[PAR]
   \UBH
          ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
       1231 \defcomhrc{ULH}[{\mth{\Pi}}]
       1232 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
       1238 \ifgrp@
       \GrpName ...
    · · · 1240 \newcommand{\grpname}{G}
       1241 \usrmthlatupp{Grp}{Name}{name}[\grpname]
\VerSet ...
    ··· 1242 \newcommand{\versym}{v}
       1243 \mbox{ } \mbox{verset}{V}
       1244 \cmdmthsetext{Ver}[\verset][\versym]
       1245 \cmdmthsymelm{iver}[\versym_{I}]
       1246 \cmdmthsymelm{fver}[\versym_{F}]
\EdgRel ...
       1247 \newcommand{\edgrel}{E}
       1248 \cmdmthrel{Edg}[\edgrel]
       \PthSet ...
 1251 \newcommand{\pthset}{Pth}
       1252 \cmdmthsetext{Pth}[\pthset][\pthsym]
       1253 \usrmth{path}{}{argfun}
```

```
\pre ...
            \suc _{1254} \usrmth{pre}{}{oargfun}
                      1256 \fi
                      1261 \ifgam@
                      \SATG ...
              \cdots 1263 %% Satisfiability Games
                      1264 \cmdtxtoparname{SATG}[Sat]
                     1265
                     1266 %% Validity Games
                     1267 \cmdtxtoparname{VALG}[Val]
                     1269 %% Evaluation Games
                     1270 \cmdtxtoparname{EVLG}[Ev1]
                     1272 %% Synthesis Games
                     1273 \cmdtxtoparname{SYNG}[Syn]
                     1275 %% Model-Checking Games
                     1276 \cmdtxtoparname{MCG} [MC]
                     1277
                      1278 %% Ehrenfeucht-Fraisse Games
                      1279 \cmdtxtoparname{EFG}[EF]
                      \PlrSym ...
      \verb|\OppSym|_{1281} \le \mbox{lnewcommand} \end{\plrsym} \end{\cite{Command}} \end{\cite{Comman
                      1282 \cmdmthsym{Plr}[\plrsym]
                      1283 \mbox{ } \mbox{newcommand{\oppsym}{A}}
                      1284 \cmdmthsym{Opp}[\oppsym]
\ArenaName ...
              \cdots 1285 \newcommand{\arenaname}{A}
                      1286 \verb|\arena| \{ \texttt{Name} \} \{ \texttt{(name)} \} [ \texttt{(name)} \} [ \texttt{(name)} \} [ \texttt{(name)} ]
      \PosSet ...
              \cdots 1287 \newcommand{\possym}{v}
                      1288 \newcommand{\posset}{Ps}
                      1289 \cmdmthsetext{Pos}[\posset][\possym]
                      1290 \cmdmthsymelm{ipos}[\possym_{I}]
                      1291 \cmdmthsymelm{fpos}[\possym_{F}]
                      1292 \verb|\cmdmthset{PPos}[\posset_{\PlrSym}]|
                      1293 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                      1294 \cmdmthset{OPos} [\posset_{\OppSym}]
                      1295 \cmdmthsymelm{opos}[\possym_{\OppSym}]
     \PlrFun ...
                      1296 \newcommand{\plrfun}{pl}
                      1297 \cmdmthfun{plr}[\plrfun]
      \MovRel ...
                      1298 \newcommand{\movrel}{Mv}
                      1299 \cmdmthrel{Mov}[\movrel]
```

```
\GameName ...
     \cdots 1300 \newcommand{\gamename}{\Game}
         1301 \verb|\usrmth|| atupp{Game}{\{name\}[\lceil lame]\}|} 
  \WinSet ...
         1302 \newcommand{\winset}{Wn}
         1303 \cmdmthset{Win}[\winset]
  \ObsSet ...
 \obsFun _{1304} \newcommand{\obsset}{0b}
         1305 \cmdmthset{Obs}[\obsset]
         1306 \cmdmthfun{obs}
         \HstSet ...
     · · · 1308 \newcommand{\hstsym}{\varpi}
         1309 \newcommand{\hstset}{Hst}
         1310 \cmdmthsetext{Hst}[\hstset][\hstsym]
         1311 \cmdmthset{PHst}[\hstset_{\PlrSym}]
         1312 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
         1313 \cmdmthset{OHst}[\hstset_{\OppSym}]
          1314 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
         1315 \usrmth{play}{}{argfun}
\PlaySet ...
1317 \newcommand{\playset}{Play}
         1318 \cmdmthsetext{Play}[\playset][\playsym]
         1319 \usrmth{hst}{}{argfun}
 \StrSet ...
     · · · 1320 \newcommand{\strsym}{\sigma}
         1321 \newcommand{\strset}{Str}
         1322 \cmdmthsetext{Str}[\strset][\strsym]
         1323 \cmdmthset{PStr}[\strset_{\PlrSym}]
         1324 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
         1325 \cmdmthset{OStr}[\strset_{\OppSym}]
         1326 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]
  \PrfSet ...
  \prfFun 1327 \newcommand{\prfsym}{\xi}
          1328 \newcommand{\prfset}{Prf}
         1329 \cmdmthsetext{Prf}[\prfset][\prfsym]
    \ent ...
    \esc _{1330} \usrmth{ent}{}{oargfun}
         1331 \usrmth{esc}{}{oargfun}
    \int ...
    \verb|\out $_{1332} \le \inf\{\inf\{\}\{oargfun\}|
         1333 \usrmth{out}{}{oargfun}
    \rch 1334 \usrmth{atr}{}{oargfun}
         1335 \usrmth{rch}{}{oargfun}
   \lift ...
         1336 \verb|\usrmth{lift}{|} \{oargfun\}
    \sol ...
         1337 \usrmth{sol}{}{oargfun}
```

```
\BG ...
   · · · 1339 %% Buchi Games
      1340 \cmdtxtoparname{BG}
      1342 %% Co-Buchi Games
      1343 \cmdtxtoparname{CG}
      1345 %% Parity Games
      1346 \cmdtxtoparname{PG}
      1348 \, \text{\%} Rabin Games
      1349 \cmdtxtoparname{RG}
      1351 %% Streett Games
      1352 \cmdtxtoparname{SG}
      1354 \% Muller Games
      1355 \cmdtxtoparname{MG}
      \EvnSym ...
\verb| OddSym | 1357 \verb| newcommand{| evnsym}{0}|
      1358 \cmdmthsym{Evn}[\evnsym]
      1359 \mbox{ } \mbox{newcommand{\oddsym}{1}}
      1360 \cmdmthsym{Odd}[\oddsym]
\PrtSet ...
\label{lem:linear_prtsym} $$ \prod_{1361} \end{\displaystyle \prod_{1361} \end{\rm prtsym}} $$ $$ $$ $$ $$
      1362 \newcommand{\prtset}{Pr}
      1363 \cmdmthsetext{Prt}[\prtset][\prtsym]
      1364 \cmdmthfun{prt}[pr]
      \EG ...
   · · · 1367 %% Energy Games
      1368 \cmdtxtoparname{EG}
      1369
      1370 %% Mean-Payoff Games
      1371 \cmdtxtoparname{MPG}
      1373 %% Discounted-Payoff Games
      1374 \cmdtxtoparname{DPG}
      \MaxSym ...
\label{lem:minSym} $$1376 \rightarrow {\max}{\command{\maxsym}{\command{\cdots}}} $$
      1377 \cmdmthsym{Max}[\maxsym]
      1378 \mbox{newcommand{\minsym}{\langle boxminus}}
      1379 \cmdmthsym{Min}[\minsym]
\WghSet ...
\label{lem:linear_state} $$ \wghFun_{1380} \end{\wghsym}_{w} $$
      1381 \newcommand{\wghset}{Wg}
      1382 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
      1383 \cmdmthfun{wgh} [wg]
```

```
1385 \fi
                         1390 \iflog@
                         \BF ...
         \QBF _{1392} % Boolean Formulae
            ... 1393 \cmdtxtoparname{BF}
                         1394
                         1395 % Quantified Boolean Formulae
                         1396 \DeclareRobustCommand{\QBF}
                                        {\{\text{txtname}\{Q\}\}\setminus BF\}}
                         1398 \DeclareRobustCommand{\EBF}
                                         {\ensuremath{\exists}\BF}
                         1400 \DeclareRobustCommand{\UBF}
                         1401 {\ensuremath{\forall}\BF}
                         \LogSig ...
            \cdots 1403 \newcommand{\logsig}{L}
                         1404 \verb|\usrmth|| a tupp{Log}{Sig}{sig}[\logsig]
            \Tt ...
            \label{final} $$ \mathbf{1}_{405} \end{\text{ttsym}}_{\cline{1}}$
                         1406 \operatorname{Tt}{sym}[\operatorname{ttsym}]
                         1407 \verb|\newcommand{\ffsym}{\bot}|
                         1408 \operatorname{ff}{sym}[\ffsym]
      \LNeg ...
      \LNot _{1409} \rightarrow _{1409} \rightarrow _{1409}
                         1410 \usrmth{LNeg}{}{luop}[\lnegsym]
                         1411 \mbox{ } {\mbox{lnotsym}}{\mbox{sim}}
                         1412 \usrmth{LNot}{}{luop}[\lnotsym]
      \LCon ...
      \LDis _{1413} \rightarrow _{1413} \rightarrow _{1413}
                         1414 \usrmth{LCon}{}{lbop}[\lconsym]
                         1415 \newcommand{\ldissym}{\lor}
                         1416 \verb|\usrmth{LDis}{{}} [\label{ldissym}]
      \LImp ...
      \verb|\LCoi|_{1417} \verb|\newcommand{{\lim psym}}{{\operatorname{limpsym}}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}}{\operatorname{limpsym}
                         1418 \usrmth{LImp}{}{lbop}[\limpsym]
                         1419 \newcommand{\lcoisym}{\leftrightarrow}
                         1420 \verb|\usrmth{LCoi}{{]}{lbop}[\lcoisym]}
      \LExs ...
      \LAll _{1421} \rightarrow {1421} = 1421
                         1422 \usrmth{LExs}{}{luop}[\lexssym]
                         1423 \mbox{ } {\mbox{newcommand{\lallsym}{\forall}}
                         1424 \usrmth{LAll}{}{luop}[\lallsym]
   \APSet ...
             \cdots 1425 \newcommand{\apsym}{p}
                         1426 \mbox{ \newcommand{\apset}{AP}}
                         1427 \cmdmthsetext{AP}[\apset][\apsym]
                         1428 \usrmth{ap}{}{argfun}
```

```
\sub ...
       1429 \usrmth{sub}{}{argfun}
  \Cnt ...
  \Sym 1431 \setminus \{Qnt}{ \Sym}[Q]
       1432 \usrmth{Sym}{}{sym}[\odot]
  \QAE ...
  \label{eq:QEA} $$ \QEA _{1433} \left( \AE\right)_{sym} [\forall\exists] $$
       1434 \operatorname{QEA}{}{sym}[\operatorname{CEA}]
\QntSet ...
   \cdots 1435 \newcommand{\qntsym}{\wp}
       1436 \newcommand{\qntset}{Qn}
       1437 \cmdmthsetext{Qnt} [\qntset] [\qntsym]
 \free ...
 \bound _{1438} \t free}{}{argfun}
       1439 \usrmth{bound}{}{argfun}
  \dep ...
  1441 \usrmth{alt}{}{argfun}
  \cnf ...
  \dnf _{1442} \cmdtxtabr{cnf}
   · · · 1443 \cmdtxtabr{dnf}
       1444 \cmdtxtabr{pnf}
       1445 \mbox{cmdtxtabr{nnf}}
       \LogStr ...
   \cdots 1447 \newcommand{\logstr}{L}
       1448 \verb|\usrmth|| a tupp{Log}{Str}{str}[\logstr]
\ValSet ...
   \cdots 1449 \newcommand{\valsym}{\xi}
       1450 \newcommand{\valset}{Val}
       1451 \verb|\cmdmthsetext{Val}|[\verb|\valset|]| [\valsym]|
\AsgSet ...
   \cdots 1452 \newcommand{\asgsym}{\chi}
       1453 \mbox{ \newcommand{\asgset}{Asg}}
       1454 \cmdmthsetext{Asg}[\asgset][\asgsym]
       \FOL ...
   · · · 1456 % First-Order Logic
       1457 \cmdtxtoparname{FOL} [Fol]
       1458 \cmdtxtoparname{F0}[F0]
       1459
       1460 % Monadic First-Order Logic
       1461 \DeclareRobustCommand{\MFOL}
           {\{\text{txtname}\{M\}}\FOL\}
       1463 \DeclareRobustCommand{\MFO}
           {\{\text{txtname}\{M\}}\F0\}
```

```
\VarSig ...
    \cdots 1466 \newcommand{\varsig}{V}
         1467 \verb|\usrmth|| a tupp{Var}{Sig}{sig}[\varsig]
         1468 \mbox{ \newcommand{\varsym}{x}}
         1469 \mbox{ } \mbox{\em newcommand{\warset}{Vr}}
         1470 \verb|\cmdmthsetext{Var}| [\verb|\varset|]| [\varsym]|
         1471 \usrmth{var}{}{argfun}[vr]
        1472 \usrmth{dim}{}{argfun}[dm]
\ConSig ...
    \cdots \ 1473 \texttt{\newcommand{\consig}{C}}
         1474 \usrmthlatupp{Con}{Sig}{sig}[\consig]
         1475 \mbox{ }\mbox{newcommand{\consym}{c}}
         1476 \mbox{ } \mbox{conset}{Cn}
         1477 \cmdmthsetext{Con}[\conset][\consym]
         1478 \usrmth{con}{}{argfun}[cn]
\FunSig ...
    · · · 1479 \newcommand{\funsig}{F}
         1480 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
         1481 \neq 1481 
         1482 \mbox{ } \mbox{newcommand{\funset}{Fn}}
         1483 \cmdmthsetext{Fun} [\funset] [\funsym]
         1484 \usrmth{fun}{}{argfun}[fn]
         1485 \usrmth{art}{}{argfun}[ar]
\TerSig ...
    ··· 1486 \newcommand{\tersig}{T}
         1487 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
         1488 \mbox{ } \mbox{newcommand{\tersym}{t}}
         1489 \newcommand{\terset}{Tr}
         1490 \verb|\cmdmthsetext{Ter}| [\verb|\terset|]| [\verb|\tersym|]|
         1491 \t \{er}{{argfun}}
\RelSig ...
    \cdots 1492 \newcommand{\relsig}{R}
         1493 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
         1494 \newcommand{\relsym}{r}
         1495 \mbox{ } \mbox{newcommand{\relset}{R1}}
         1496 \cmdmthsetext{Rel}[\relset][\relsym]
         1497 \usrmth{rel}{}{argfun}[rl]
   \skm ...
         1498 \mbox{ \normth{skm}{skm}{}} \
         \ConStr ...
    · · · 1500 \newcommand{\constr}{C}
         1501 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr ...
    \cdots 1502 \newcommand{\funstr}{F}
         1503 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr ...
    \cdots 1504 \newcommand{\terstr}{T}
         1505 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr ...
    \cdots 1506 \newcommand{\relstr}{R}
         1507 \usrmthlatupp{Rel}{Str}{str}[\relstr]
```

```
\DF ...
  \IF 1509 % Dependence-Friendly Logic
  ... 1510 \cmdtxtoparname{DF}
     1512 % Independence-Friendly Logic
     1513 \cmdtxtoparname{IF}
     1515 % Dependence/Independence-Friendly Logic
     1516 \cmdtxtoparname{DIF}
     1518 % Dependence Logic
     1519 \cmdtxtoparname{DL}
     1520
     1521 % Team Logic
     1522 \cmdtxtoparname{TL}
     1524\,\% Alternating Dependence-Friendly Logic
     1525 \verb|\cmdtxtoparname{ADF}|
     1526
     1527\;\text{\%} Alternating Independence-Friendly Logic
     1528 \verb|\cmdtxtoparname{AIF}|
     1530 % Alternating Dependence/Independence-Friendly Logic
     1531 \cmdtxtoparname{ADIF}
     \LEExs ...
\LAAll _{1533} \newcommand{\leexssym}{\Sigma}
     1534 \usrmth{LEExs}{}{luop}[\leexssym]
     1535 \newcommand{\laallsym}{\Pi}
     1536 \usrmth{LAAll}{}{luop}[\laallsym]
     \SOL ...
  · · · 1539 % Second-Order Logic
     1540 \cmdtxtoparname{SOL}[Sol]
     1541 \cmdtxtoparname{SO}
     1542
     1543 % Weak Second-Order Logic
     1544 \DeclareRobustCommand{\WSOL}
          {{\txtname{W}}\SOL}
     1546 \DeclareRobustCommand{\WSO}
          {{\txtname{W}}\SO}
     1547
     1548
     1549 % coWeak Second-Order Logic
     1550 \DeclareRobustCommand{\coWSOL}
          {{\txtname{coW}}\SOL}
     1552 \DeclareRobustCommand{\coWSO}
     1553
          {{\txtname{coW}}\SO}
     1554
     1555 % Monadic Second-Order Logic
     1556 \DeclareRobustCommand{\MSOL}
         {{\txtname{M}}\SOL}
     1558 \DeclareRobustCommand{\MSO}
          {\{\text{Xtname}\{M\}\}\S0\}}
     1559
     1560
```

```
1561 % Weak Monadic Second-Order Logic
        1562 \DeclareRobustCommand{\WMSOL}
        1563 \{\{\text{w}}\}\MSOL\}
        1564 \DeclareRobustCommand{\WMSO}
        1565 \{\{\text{w}}\}\MSO\}
        1567 % coWeak Monadic Second-Order Logic
        1568 \DeclareRobustCommand{\coWMSOL}
        1569 {{\txtname{coW}}\MSOL}
        1570 \DeclareRobustCommand{\coWMSO}
             {{\txtname{coW}}\MSO}
        \FVarSet ...
    · · · 1573 \newcommand{\fvarsym}{x}
        1574 \newcommand{\fvarset}{FVr}
        1575 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet ...
    · · · 1576 \newcommand{\svarsym}{X}
        1577 \newcommand{\svarset}{SVr}
        1578 \cmdmthsetext{SVar}[\svarset][\svarsym]
        \TL ...
    \CL _{1581}\,\% Tree Logic
    \label{eq:pl_1582} $$ \PL _{1582} \cmdtxtoparname{TL} $
        1584 % Weak Tree Logic
        1585 \DeclareRobustCommand{\WTL}
            {\{\text{txtname}\{W\}}\TL\}
        1586
        1587
        1588 % coWeak Tree Logic
        1589 \DeclareRobustCommand{\coWTL}
             {{\txtname{coW}}\TL}
        1592 % Monadic Tree Logic
        1593 \DeclareRobustCommand{\MTL}
        1594
             {{\txtname{M}}\TL}
        1596 % Weak Monadic Tree Logic
        1597 \DeclareRobustCommand{\WMTL}
        1598
             {{\txtname{W}}\MTL}
        1600 % coWeak Monadic Tree Logic
        1601 \DeclareRobustCommand{\coWMTL}
        1602
             {{\txtname{coW}}\MTL}
        1604 % Chain Logic
        1605 \verb|\cmdtxtoparname{CL}|
        1606
        1607 % Weak Chain Logic
        1608 \DeclareRobustCommand{\WCL}
            {\{\text{txtname}\{W\}}\CL\}
        1610
        1611 % coWeak Chain Logic
        1612 \DeclareRobustCommand{\coWCL}
        1613 \{\{\text{txtname}\{\text{coW}\}\}\CL\}
        1614
```

```
1615 % Monadic Chain Logic
    1616 \DeclareRobustCommand{\MCL}
    1617
        {\{\text{Xtname}\{M\}\}\CL\}}
    1618
    1619\;\mbox{\ensuremath{\%}} Weak Monadic Chain Logic
    1620 \DeclareRobustCommand{\WMCL}
        {\{\text{txtname}\{W\}}\}\MCL\}
    1623 % coWeak Monadic Chain Logic
    1624 \DeclareRobustCommand{\coWMCL}
         {{\txtname{coW}}\MCL}
    1627 % Path Logic
    1628 \cmdtxtoparname{PL}
    1629
    1630 % Weak Path Logic
    1631 \DeclareRobustCommand{\WPL}
        {\{\text{txtname}\{W\}}\PL\}
    1632
    1633
    1634 % coWeak Path Logic
    1635 \DeclareRobustCommand{\coWPL}
        {{\txtname{coW}}\PL}
    1637
    1638 % Monadic Path Logic
    1639 \DeclareRobustCommand{\MPL}
         {\{\text{Ntxtname}\{M\}}\PL\}
    1640
    1641
    1642 % Weak Monadic Path Logic
    1643 \DeclareRobustCommand{\WMPL}
         {{\txtname{W}}\MPL}
    1645
    1646 % coWeak Monadic Path Logic
    1647 \DeclareRobustCommand{\coWMPL}
        {{\txtname{coW}}\MPL}
    \ML ...
\GML _{1652}\,\% Modal Logic
· · · 1653 \cmdtxtoparname{ML}
    1655 % Graded Modal Logic
    1656 \DeclareRobustCommand{\GML}
         {\{\text{txtname}\{G\}\}\}ML}
    1657
    1658
    1659 % Quantified Modal Logic
    1660 \DeclareRobustCommand{\QML}
        {{\txtname{Q}}\ML}
    1662 \DeclareRobustCommand{\EML}
    1663 {\ensuremath{\exists}\ML}
    1664 \DeclareRobustCommand{\UML}
        {\ensuremath{\forall}\ML}
    \Opr ...
    1667 \usrmth{Opr}{}{sym}[Op]
```

```
\DMod ...
 \verb|\BMod $_{1668} \searrow \mathbb{N}[\Diamond]|
       1669 \usrmth{BMod}{}{sym}[\Box]
  \Exs ...
  \All _{1670} \DeclareRobustCommand{\Exs}
            {\@ifstar{\@sexs}{\@exs}}
       1672 \DeclareRobustCommand{\@sexs}[1]
       1673 {\mth{\DMod}[#1]}
       1674 \DeclareRobustCommand{\@exs}[1]
       1675 \quad {\bf \{\defval{\argmid{\langle}{\#1}{\rangle}}}{\bf \{\DMod}}}
       1676 \DeclareRobustCommand{\All}
            {\@ifstar{\@sall}{\@all}}
       1678 \DeclareRobustCommand{\@sall}[1]
            {\mth{\BMod}[#1]}
       1680 \DeclareRobustCommand{\@all}[1]
            {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
       \KrpStr ...
   \cdots 1683 \newcommand{\krpstr}{K}
       1684 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
\WrlSet ...
    \cdots 1685 \newcommand{\wrlsym}{w}
       1686 \newcommand{\wrlset}{W}
       1687 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
       1688 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel ...
\TrnRel _{1689} \rightarrow {R}
       1690 \cmdmthrel{Acc}[\accsym]
       1691 \cmdmthrel{Trn}[\accsym]
\labFun ...
       1692 \mbox{labsym}{{\labsym}}
       1693 \cmdmthfun{lab}[\labsym]
\PthSet ...
    ··· 1694 \providecommand{\pthsym}{\pi}
       1695 \providecommand{\pthset}{Pth}
       1696 \cmdmthsetext{Pth}[\pthset][\pthsym]
       1697 \usrmth{path}{}{argfun}
       \MC ...
   \GMC _{1699} % Mu Calculus
    · · · 1700 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
       1702 % Graded Mu Calculus
       1703 \DeclareRobustCommand{\GMC}
            {\{\text{txtname}\{G\}\}\setminus MC\}}
       1706 % Quantified Mu Calculus
       1707 \DeclareRobustCommand{\QMC}
            \{\{\text{txtname}\{Q\}\}\}\
       1709 \DeclareRobustCommand{\EMC}
            {\ensuremath{\exists}\MC}
       1711 \DeclareRobustCommand{\UMC}
            {\ensuremath{\forall}\MC}
       1714 % Alternation-Free Mu Calculus
```

```
1715 \DeclareRobustCommand{\AFMC}
    1716
        {\{\text{XF}}\MC\}
   1717
   1718 % Alternation-Free Graded Mu Calculus
    1719 \DeclareRobustCommand{\AFGMC}
        {{\txtname{AF}}\GMC}
   1720
   1721
   1722 % Quantified Alternation-Free Mu Calculus
   1723 \DeclareRobustCommand{\QAFMC}
        {\{\text{txtname}\{Q\}\}\setminus AFMC\}}
    1725 \DeclareRobustCommand{\EAFMC}
    1726 {\ensuremath{\exists}\AFMC}
    1727 \DeclareRobustCommand{\UAFMC}
        {\ensuremath{\forall}\AFMC}
   1729
    \LTL 1733 % Propositional Temporal Logic
· · · 1734 \cmdtxtoparname{PTL}
    1735
    1736 % Quantified Propositional Temporal Logic
    1737 \DeclareRobustCommand{\QPTL}
   1738 \{\{\text{txtname}\{Q\}\}\}\}
   1739 \DeclareRobustCommand{\EPTL}
   1740 {\ensuremath{\exists}\PTL}
   1741 \DeclareRobustCommand{\UPTL}
        {\ensuremath{\forall}\PTL}
   1744 % Linear Temporal Logic
   1745 \cmdtxtoparname{LTL}
   1747 % Quantified Linear Temporal Logic
   1748 \DeclareRobustCommand{\QLTL}
        {\{\text{txtname}\{Q\}\}\setminus LTL\}}
    1750 \DeclareRobustCommand{\ELTL}
        {\ensuremath{\exists}\LTL}
    1752 \DeclareRobustCommand{\ULTL}
        {\ensuremath{\forall}\LTL}
    \X ...
 ··· 1755 \usrmth{X}{}{sym}[X\,]
    1756 \usrmth{F}{}{sym}[F\,]
    1757 \usrmth{G}{}{sym}[G\,]
    1758 \usrmth{U}{sym}[\,U\,]
    1759 \usrmth{R}{}{sym}[\,R\,]
 \Y ...
 · · · 1760 \usrmth{Y}{}{sym}[G\,]
    1761 \operatorname{lusrmth}\{P\}\{\}\{sym\}[P\,]\
    1762 \t \{H}{sym}[H\,]\t Save Double A cute \t H
    1763 \space{1}{sym}[\,S\,]\leq SaveSectionSymbol\S
    1764 \usrmth{B}{}{sym}[\,B\,]
```

```
\PDL ...
\CTL 1767 % Propositional Dynamic Logic
... 1768 \cmdtxtoparname{PDL}
    1770 % Computation Tree Logic
   1771 \cmdtxtoparname{CTL}
    1773 % Weak Computation Tree Logic
    1774 \DeclareRobustCommand{\WCTL}
        {\{\text{txtname}\{W\}}\CTL\}
    1777 % Quantified Computation Tree Logic
    1778 \DeclareRobustCommand{\QCTL}
        {\{\text{txtname}\{Q\}\}\CTL\}}
    1780 \DeclareRobustCommand{\ECTL}
        {\ensuremath{\exists}\CTL}
    1782 \DeclareRobustCommand{\UCTL}
    1783
        {\ensuremath{\forall}\CTL}
    1785 % Improved Computation Tree Logic
    1786 \cmdtxtoparname{CTLP}[CTL$^{+}$]
    1788 % Weak Improved Computation Tree Logic
    1789 \DeclareRobustCommand{\WCTLP}
        {{\txtname{W}}\CTLP}
    1790
    1791
    1792 % Quantified Improved Computation Tree Logic
    1793 \DeclareRobustCommand{\QCTLP}
        {{\txtname{Q}}\CTLP}
    1795 \DeclareRobustCommand{\ECTLP}
        {\ensuremath{\exists}\CTLP}
    1797 \DeclareRobustCommand{\UCTLP}
        {\ensuremath{\forall}\CTLP}
    1799
    1800 % Full Computation Tree Logic
    1801 \cmdtxtoparname{CTLS}[CTL*]
    1803 % Weak Full Computation Tree Logic
    1804 \DeclareRobustCommand{\WCTLS}
        {{\txtname{W}}\CTLS}
    1805
    1807 % Quantified Full Computation Tree Logic
    1808 \DeclareRobustCommand{\QCTLS}
        {\{\text{txtname}\{Q\}\}\}\
    1810 \DeclareRobustCommand{\ECTLS}
    1811 {\ensuremath{\exists}\CTLS}
    1812 \DeclareRobustCommand{\UCTLS}
    1813 {\ensuremath{\forall}\CTLS}
    \E ...
 \A _{1815} \sl \{E\}{\sym}
    1816 \operatorname{A}{{}}{sym}
    \ATL ...
```

. . .

```
1819 % Alternating Temporal Logic
        1820 \cmdtxtoparname{ATL}
        1821
        1822 % Weak Alternating Tree Logic
        1823 \DeclareRobustCommand{\WATL}
             {{\txtname{W}}\ATL}
       1824
        1825
        1826 % Quantified Alternating Temporal Logic
        1827 \DeclareRobustCommand{\QATL}
            {\{\text{txtname}\{Q\}\}\setminus ATL\}}
        1829 \DeclareRobustCommand{\EATL}
             {\ensuremath{\exists}\ATL}
        1831 \DeclareRobustCommand{\UATL}
             {\ensuremath{\forall}\ATL}
        1833
        1834\ \% Improved Alternating Temporal Logic
        1835 \cmdtxtoparname{ATLP}[ATL$^{+}$]
        1837 % Weak Improved Alternating Tree Logic
        1838 \DeclareRobustCommand{\WATLP}
        1839
             {{\txtname{W}}\ATLP}
        1841 % Quantified Improved Alternating Temporal Logic
        1842 \DeclareRobustCommand{\QATLP}
        1843 \{\{\text{txtname}\{Q\}\}\}\
        1844 \DeclareRobustCommand{\EATLP}
       1845 {\ensuremath{\exists}\ATLP}
        1846 \DeclareRobustCommand{\UATLP}
        1847
             {\ensuremath{\forall}\ATLP}
        1849 % Full Alternating Temporal Logic
        1850 \cmdtxtoparname{ATLS}[ATL*]
        1852 % Weak Full Alternating Tree Logic
       1853 \DeclareRobustCommand{\WATLS}
             {\{\text{Xtname}(W)\}\setminus ATLS}
        1855
        1856 % Quantified Full Alternating Temporal Logic
        1857 \DeclareRobustCommand{\QATLS}
             {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
        1859 \DeclareRobustCommand{\EATLS}
             {\ensuremath{\exists}\ATLS}
        1861 \DeclareRobustCommand{\UATLS}
             {\ensuremath{\forall}\ATLS}
        \EExs ...
 \verb|\AAll | 1864 \verb|\DeclareRobustCommand{\EExs}[1]|
             {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
        1866 \DeclareRobustCommand{\AAll}[1]
             {\mth{\argmid{\left[\left[\left[\left[\left[t\right],\left[t\right],\left[t\right]\right]\right]\right]}}}
        \CGS ...
        1869 \cmdtxtname{CGS}
\CGSStr ...
    ··· 1870 \newcommand{\cgsstr}{G}
        1871 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet ...
    \cdots 1872 \newcommand{\agnsym}{a}
```

```
1873 \newcommand{\agnset}{Ag}
          1874 \cmdmthsetext{Agn} [\agnset] [\agnsym]
 \ActSet ...
      ··· 1875 \newcommand{\actsym}{c}
          1876 \newcommand{\actset}{Ac}
          1877 \cmdmthsetext{Act}[\actset][\actsym]
 \PosSet ...
      \cdots 1878 \texttt{\providecommand{\possym}{v}}
          1879 \displaystyle \frac{1879 \providecommand{posset}{Ps}}
          1880 \cmdmthsetext{Pos}[\posset][\possym]
          1881 \cmdmthsymelm{ipos}[\possym_{I}]
          1882 \verb|\cmdmthsymelm{fpos}| [\verb|\possym_{F}|]
          1883 \verb|\cmdmthset{PPos}[\posset_{\prop}]
          1884 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
          1885 \cmdmthset{OPos}[\posset_{\OppSym}]
          1886 \verb|\cmdmthsymelm{opos}[\possym_{\colored{OppSym}}]
 \SttSet ...
     · · · 1887 \newcommand{\sttsym}{s}
          1888 \newcommand{\sttset}{St}
          1889 \cmdmthsetext{Stt}[\sttset][\sttsym]
          1890 \cmdmthset{IStt}[\sttset_{I}]
          1891 \cmdmthsymelm{istt}[\sttsym_{I}]
          1892 \verb|\cmdmthset{FStt}| [\sttset_{F}]|
          1893 \cmdmthsymelm{fstt}[\sttsym_{F}]
 \DecSet ...
      · · · 1894 \newcommand{\decsym}{d}
          1895 \newcommand{\decset}{Dc}
          1896 \cmdmthsetext{Dec} [\decsym]
 \movFun ...
 \label{lower_loss} $$\max_{1897} \\operatorname{lower_mand}(\movsym}_{\tau}$$
          1898 \cmdmthfun{mov}[\movsym]
          1899 \cmdmthrel{mov}[\movsym]
 \trnFun ...
 \label{local_trnsym} $$ \underset{1900 \neq 1}{\text{hewcommand}} {\trnsym}_{\delta} $$
          1901 \cmdmthfun{trn}[\trnsym]
          1902 \cmdmthrel{trn}[\trnsym]
 \PrfSet ...
          1903 \providecommand{\prfsym}{\xi}
          1904 \providecommand{\prfset}{Prf}
          1905 \cmdmthsetext{Prf}[\prfset][\prfsym]
 \HstSet ...
      · · · 1906 \providecommand{\hstsym}{\varpi}
          1907 \providecommand{\hstset}{Hst}
          1908 \cmdmthsetext{Hst}[\hstset][\hstsym]
          1909 \cmdmthset{PHst}[\hstset_{\PlrSym}]
          1910 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
          1911 \cmdmthset{OHst}[\hstset_{\OppSym}]
          1912 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
          1913 \usrmth{hst}{}{argfun}
\PlaySet ...
      ··· 1914 \providecommand{\playsym}{\pi}
          1915 \providecommand{\playset}{Play}
          1916 \cmdmthsetext{Play}[\playset][\playsym]
          1917 \usrmth{play}{}{argfun}
```

```
\PlnSet ...
    · · · 1918 \providecommand{\plnsym}{\rho}
        1919 \providecommand{\plnset}{Pln}
        1920 \cmdmthsetext{Pln}[\plnset][\plnsym]
        1921 \verb|\cmdmthset{PPln}[\plnset_{\PlrSym}]|
        1922 \mbox{ \cmdmthsymelm{pPln} [\plnsym_{\plnsym}]}
        1923 \cmdmthset{OPln}[\plnset_{\OppSym}]
        1924 \verb|\cmdmthsymelm{oPln}[\plnsym_{\colored}]
\StrSet ...
    \cdots \ 1925 \providecommand{\strsym}{\sigma}
        1926 \providecommand{\strset}{Str}
        1927 \cmdmthsetext{Str}[\strset][\strsym]
        1928 \cmdmthset{PStr}[\strset_{\PlrSym}]
        1929 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
        1930 \cmdmthset{OStr}[\strset_{\OppSym}]
        1931 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
        \PL ...
    · · · 1933 % Plan Logic
        1934 \cmdtxtoparname{PL}
        1935
        1936 \DeclareRobustCommand{\EPL}
              {\ensuremath{\exists}\PL}
        1937
        1938 \DeclareRobustCommand{\UPL}
        1939
              {\ensuremath{\forall}\PL}
        1940
        1941 \DeclareRobustCommand{\FPL}
              {\{\text{txtname}\{F\}}\PL\}
        1942
        1944 \DeclareRobustCommand{\EFPL}
             {\ensuremath{\exists}\FPL}
        1946 \DeclareRobustCommand{\UFPL}
             {\ensuremath{\forall}\FPL}
        1947
        1948
        1949 % One-Goal Plan Logic
        1950 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
              {\PL[#1][#2][1g\arglef{,}{#3}]}
        1952
        1953 \DeclareRobustCommand{\EOGPL}
             {\ensuremath{\exists}\OGPL}
        1955 \DeclareRobustCommand{\UOGPL}
             {\ensuremath{\forall}\OGPL}
        1956
        1957
        1958 \DeclareRobustCommand{\FOGPL}
             {{\txtname{F}}\OGPL}
        1959
        1960
        1961 \DeclareRobustCommand{\EFOGPL}
             {\ensuremath{\exists}\FOGPL}
        1963 \DeclareRobustCommand{\UFOGPL}
             {\ensuremath{\forall}\FOGPL}
        1964
        1965
        1966 % Conjunctive-Goal Plan Logic
        1967 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
              {\PL[#1][#2][cg\arglef{,}{#3}]}
        1968
        1969
        1970 \DeclareRobustCommand{\ECGPL}
              {\ensuremath{\exists}\CGPL}
        1972 \DeclareRobustCommand{\UCGPL}
              {\ensuremath{\forall}\CGPL}
        1975 \DeclareRobustCommand{\FCGPL}
```

```
1976
      {{\txtname{F}}\CGPL}
1977
1978 \DeclareRobustCommand{\EFCGPL}
1979
      {\ensuremath{\exists}\FCGPL}
1980 \DeclareRobustCommand{\UFCGPL}
      {\ensuremath{\forall}\FCGPL}
1981
1982
1983 % Disjunctive-Goal Plan Logic
1984 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][dg\arglef{,}{#3}]}
1986
1987 \DeclareRobustCommand{\EDGPL}
      {\ensuremath{\exists}\DGPL}
1989 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
1990
1991
1992 \DeclareRobustCommand{\FDGPL}
      {{\txtname{F}}\DGPL}
1993
1994
1995 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
1997 \DeclareRobustCommand{\UFDGPL}
1998
      {\ensuremath{\forall}\FDGPL}
1999
2000 % Alternating-Goal Plan Logic
2001 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][ag\arglef{,}{#3}]}
2002
2003
2004 \DeclareRobustCommand{\EAGPL}
      {\ensuremath{\exists}\AGPL}
2006 \DeclareRobustCommand{\UAGPL}
      {\ensuremath{\forall}\AGPL}
2008
2009 \DeclareRobustCommand{\FAGPL}
     {{\txtname{F}}\AGPL}
2010
2011
2012 \DeclareRobustCommand{\EFAGPL}
     {\ensuremath{\exists}\FAGPL}
2014 \DeclareRobustCommand{\UFAGPL}
2015
      {\ensuremath{\forall}\FAGPL}
2017 % Extended-Goal Plan Logic
2018 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
     {\PL[#1][#2][eg\arglef{,}{#3}]}
2020
2021 \DeclareRobustCommand{\EEGPL}
2022
     {\ensuremath{\exists}\EGPL}
2023 \DeclareRobustCommand{\UEGPL}
      {\ensuremath{\forall}\EGPL}
2024
2025
2026 \DeclareRobustCommand{\FEGPL}
      {\{\texttxtname}_{F}\}\EGPL}
2029 \DeclareRobustCommand{\EFEGPL}
     {\ensuremath{\exists}\FEGPL}
2031 \DeclareRobustCommand{\UFEGPL}
2032
      {\ensuremath{\forall}\FEGPL}
2033
2034 % Boolean-Goal Plan Logic
2035 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
2036
      {\PL[#1][#2][bg\arglef{,}{#3}]}
2037
2038 \DeclareRobustCommand{\EBGPL}
```

```
{\ensuremath{\exists}\BGPL}
    2040 \DeclareRobustCommand{\UBGPL}
    2041
         {\ensuremath{\forall}\BGPL}
    2042
    2043 \DeclareRobustCommand{\FBGPL}
          {{\txtname{F}}\BGPL}
    2044
    2045
    2046 \DeclareRobustCommand{\EFBGPL}
         {\ensuremath{\exists}\FBGPL}
    2048 \DeclareRobustCommand{\UFBGPL}
          {\ensuremath{\forall}\FBGPL}
    2051 % Undefined-Goal Plan Logic
    2052 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
          {\PL[#1][#2][xg\arglef{,}{#3}]}
    2053
    2054
    2055 \DeclareRobustCommand{\EXGPL}
          {\ensuremath{\exists}\XGPL}
    2056
    2057 \DeclareRobustCommand{\UXGPL}
          {\ensuremath{\forall}\XGPL}
    2060 \DeclareRobustCommand{\FXGPL}
    2061
          {{\txtname{F}}\XGPL}
    2062
    2063 \DeclareRobustCommand{\EFXGPL}
          {\ensuremath{\exists}\FXGPL}
    2065 \DeclareRobustCommand{\UFXGPL}
         {\ensuremath{\forall}\FXGPL}
\SL ...
· · · 2067 % Strategy Logic
    2068 \cmdtxtoparname{SL}
    2069
    2070 \DeclareRobustCommand{\ESL}
         {\ensuremath{\exists}\SL}
    2072 \DeclareRobustCommand{\USL}
          {\ensuremath{\forall}\SL}
    2073
    2074
    2075 \DeclareRobustCommand{\FSL}
          {\{\text{txtname}\{F\}\}\SL\}}
    2078 \DeclareRobustCommand{\EFSL}
         {\ensuremath{\exists}\FSL}
    2080 \DeclareRobustCommand{\UFSL}
          {\ensuremath{\forall}\FSL}
    2081
    2082
    2083 \% One-Goal Strategy Logic
    2084 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
    2085
          {\SL[#1][#2][1g\arglef{,}{#3}]}
    2086
    2087 \DeclareRobustCommand{\EOGSL}
          {\ensuremath{\exists}\OGSL}
    2089 \DeclareRobustCommand{\UOGSL}
          {\ensuremath{\forall}\OGSL}
    2091
    2092 \DeclareRobustCommand{\FOGSL}
          {{\txtname{F}}\OGSL}
    2093
    2094
    2095 \DeclareRobustCommand{\EFOGSL}
          {\ensuremath{\exists}\FOGSL}
    2097 \DeclareRobustCommand{\UFOGSL}
          {\ensuremath{\forall}\FOGSL}
    2100 % Conjunctive-Goal Strategy Logic
```

```
2101 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
2102
      {\SL[#1][#2][cg\arglef{,}{#3}]}
2103
2104 \DeclareRobustCommand{\ECGSL}
     {\ensuremath{\exists}\CGSL}
2106 \DeclareRobustCommand{\UCGSL}
     {\ensuremath{\forall}\CGSL}
2107
2109 \DeclareRobustCommand{\FCGSL}
     {{\txtname{F}}\CGSL}
2110
2112 \DeclareRobustCommand{\EFCGSL}
2113 {\ensuremath{\exists}\FCGSL}
2114 \DeclareRobustCommand{\UFCGSL}
     {\ensuremath{\forall}\FCGSL}
2115
2116
2117 % Disjunctive-Goal Strategy Logic
2118 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
2119
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2121 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
2123 \DeclareRobustCommand{\UDGSL}
     {\ensuremath{\forall}\DGSL}
2124
2125
2126 \DeclareRobustCommand{\FDGSL}
      {\{\text{txtname}\{F\}\}\setminus DGSL}
2127
2128
2129 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
2131 \DeclareRobustCommand{\UFDGSL}
     {\ensuremath{\forall}\FDGSL}
2134 % Alternating-Goal Strategy Logic
2135 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][ag\arglef{,}{#3}]}
2137
2138 \DeclareRobustCommand{\EAGSL}
     {\ensuremath{\exists}\AGSL}
2140 \DeclareRobustCommand{\UAGSL}
2141
      {\ensuremath{\forall}\AGSL}
2143 \DeclareRobustCommand{\FAGSL}
     {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2146 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
2148 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
2149
2150
2151 % Extended-Goal Strategy Logic
2152 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
2154
2155 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
2157 \DeclareRobustCommand{\UEGSL}
     {\ensuremath{\forall}\EGSL}
2158
2159
2160 \DeclareRobustCommand{\FEGSL}
      {\{\text{txtname}\{F\}\}\setminus EGSL\}}
2161
2162
2163 \DeclareRobustCommand{\EFEGSL}
```

```
{\ensuremath{\exists}\FEGSL}
        2165 \DeclareRobustCommand{\UFEGSL}
       2166
             {\ensuremath{\forall}\FEGSL}
       2168 % Boolean-Goal Strategy Logic
       2169 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
             {\SL[#1][#2][bg\arglef{,}{#3}]}
       2172 \DeclareRobustCommand{\EBGSL}
             {\ensuremath{\exists}\BGSL}
        2174 \DeclareRobustCommand{\UBGSL}
             {\ensuremath{\forall}\BGSL}
       2176
       2177 \DeclareRobustCommand{\FBGSL}
             {\{\text{txtname}\{F\}\}\setminus BGSL}
       2178
       2179
       2180 \DeclareRobustCommand{\EFBGSL}
             {\ensuremath{\exists}\FBGSL}
        2181
        2182 \DeclareRobustCommand{\UFBGSL}
             {\ensuremath{\forall}\FBGSL}
        2184
        2185 % Nested-Goal Strategy Logic
        2186 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
             {\SL[#1][#2][ng\arglef{,}{#3}]}
       2188
       2189 \DeclareRobustCommand{\ENGSL}
             {\ensuremath{\exists}\NGSL}
       2191 \DeclareRobustCommand{\UNGSL}
       2192
             {\ensuremath{\forall}\NGSL}
        2194 \DeclareRobustCommand{\FNGSL}
             {\{ \text{NGSL} \}}
       2196
       2197 \DeclareRobustCommand{\EFNGSL}
             {\ensuremath{\exists}\FNGSL}
       2199 \DeclareRobustCommand{\UFNGSL}
             {\ensuremath{\forall}\FNGSL}
       2200
        2202 % Undefined-Goal Strategy Logic
        2203 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
        2204
             {\SL[#1][#2][xg\arglef{,}{#3}]}
        2205
        2206 \DeclareRobustCommand{\EXGSL}
             {\ensuremath{\exists}\XGSL}
        2208 \DeclareRobustCommand{\UXGSL}
             {\ensuremath{\forall}\XGSL}
        2209
        2210
       2211 \DeclareRobustCommand{\FXGSL}
       2212
             {\{\text{xtname}\{F\}\}\} XGSL}
        2214 \DeclareRobustCommand{\EFXGSL}
        2215 {\ensuremath{\exists}\FXGSL}
        2216 \DeclareRobustCommand{\UFXGSL}
             {\ensuremath{\forall}\FXGSL}
        \BndSet ...
    · · · 2219 \newcommand{\bndsym}{\flat}
        2220 \newcommand{\bndset}{Bn}
       2221 \cmdmthsetext{Bnd}[\bndset][\bndsym]
       2222 \cmdmthsymelm{idbnd}[\bndsym_{\text{id}}]
        2223 \usrmth{bnd}{}{argfun}
```

```
\psn ...
                              2224 \usrmth{psn}{}{argfun}
                              \nxt. ...
                             2226 \usrmth{nxt}{}{argfun}
                             2227\fi
                             2232 \ifaut@
                              \DFA ...
                  \cdots 2234 \cmdtxtoparname{DFA}\cmdtxtoparname{MFA}\cmdtxtoparname{AFA}
                              2236 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{AWA}| cmdtxtoparname{AWA} cmdtxtoparname{AWA}| c
                             2237
                              2238 \verb|\cmdtxtoparname{DFW}| cmdtxtoparname{UFW}| cmdtxtoparname{AFW}| cmdtxtoparname{AFW}|
                             2239 \verb|\cmdtxtoparname{DWW}\cmdtxtoparname{AWW}| cmdtxtoparname{AWW}| 
                             2240 \verb|\cmdtxtoparname{DBW}\cmdtxtoparname{MBW}\cmdtxtoparname{ABW}|
                             2241 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{MCW}\cmdtxtoparname{ACW}|
                              2242 \cmdtxtoparname{DPW}\cmdtxtoparname{MPW}\cmdtxtoparname{MPW}
                              2243 \cmdtxtoparname{DRW}\cmdtxtoparname{ARW}
                              2244 \cmdtxtoparname{DSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}
                              2245 \verb|\cmdtxtoparname{NMW}\cmdtxtoparname{UMW}\cmdtxtoparname{AMW}|
             \GFG ...
                 ··· 2246 \cmdtxtoparname{GFG}
                             2247
                             2248 \cmdtxtoparname{PD}
                             2249 \cmdtxtoparname{PN}
                              2251 \cmdtxtoparname{LD}
                              2252 \cmdtxtoparname{LN}
                              \AutName ...
                 \cdots 2254 \newcommand{\autname}{A}
                             2255 \mbox{\sc Name}{\name}[\autname]
                              2256 \newcommand{\autset}{Aut}
                              2257 \cmdmthset{Aut}[\autset]
\WAutSet ...
                              2258 \mbox{ \newcommand{\wautset}{WAut}}
                              2259 \cmdmthset{WAut}[\wautset]
   \SymSet ...
                 ··· 2260 \newcommand{\symsym}{\sigma}
                              2261 \newcommand{\symset}{\Sigma}
                             2262 \cmdmthsetext{Sym} [\symset] [\symsym]
   \SttSet ...
                 ··· 2263 \providecommand{\sttsym}{q}
                              2264 \providecommand{\sttset}{Q}
                              2265 \cmdmthsetext{Stt}[\sttset][\sttsym]
                              2266 \cmdmthset{IStt}[\sttset_{I}]
                              2267 \cmdmthsymelm{istt}[\sttsym_{I}]
                              2268 \mbox{ \cmdmthset{FStt}[\sttset_{F}]}
                              2269 \cmdmthsymelm{fstt}[\sttsym_{F}]
```

```
\trnFun ...
    2271 \cmdmthfun{trn}[\trnsym]
                              2272 \cmdmthrel{trn}[\trnsym]
                              \WrdSet ...
                 \cdots 2274 \newcommand{\wrdsym}{w}
                              2275 \mbox{ } \mbox{newcommand{\wrdset}{Wr}}
                              2276 \cmdmthsetext{Wrd}[\wrdset][\wrdsym]
          \Lang ...
                              2277 \usrmth{Lang}{}{argfun}[L]
                              \DTA ...
                 \cdots 2279 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{NTA}\cmdtxtoparname{ATA}|
                              2281 \verb|\cmdtxtoparname{NFT}| cmdtxtoparname{VFT}| cmdtxtoparname{AFT}| cmdtxtoparname{AFT}|
                              2282 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}\cmdtxtoparname{UWT}\cmdtxtoparname{AWT}
                              2283 \cmdtxtoparname{DBT}\cmdtxtoparname{MBT}\cmdtxtoparname{MBT}\cmdtxtoparname{ABT}
                              2284 \verb|\cmdtxtoparname{NCT}| cmdtxtoparname{UCT}| cmdtxtoparname{ACT}| cmdtxtoparname{ACT}|
                              2285 \verb|\cmdtxtoparname{NPT}| cmdtxtoparname{MPT}| cmdtxtoparname{MPT}|
                              2286 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{URT}\cmdtxtoparname{URT}\cmdtxtoparname{ART}|
                              2287 \verb|\cmdtxtoparname{NST}\cmdtxtoparname{UST}\cmdtxtoparname{AST}| \\
                              2288 \verb|\cmdtxtoparname{NMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
                              \TAutSet ...
                              2290 \mbox{ } \mbox{TAut}
                              2291 \cmdmthset{TAut}[\tautset]
   \DirSet ...
                 ··· 2292 \newcommand{\dirsym}{d}
                              2293 \newcommand{\dirset}{\Lambda}
                              2294 \cmdmthsetext{Dir}[\dirset][\dirsym]
                              \TreeSet ...
                 ··· 2296 \newcommand{\treesym}{T}
                              2297 \newcommand{\treeset}{Tr}
                              2298 \cmdmthsetext{Tree} [\treeset] [\treesym]
              \wot ...
                              2299 \usrmth{wot}{}{argfun}
                              2305 \iffrm@
                 2306 %%...
```

```
2312 \iffig@
      2313 \RequirePackage{tikz}
     2314 \usetikzlibrary{calc,arrows,shapes,patterns,graphs,matrix}
      2315 \tikzstyle{every node} =
      2316 [draw = none, fill = none, black, thin]
      2317 \tikzstyle{every edge} +=
        [black, thick]
      2318
      2319 \tikzstyle{noall} =
        [draw = none, fill = none]
      2321 \text{ } \text{tikzstyle} \{ \text{nodraw} \} =
      2322 [draw = none, fill = white]
      2323 \tikzstyle{nofill} =
     2324 [draw = black, fill = none]
      2325 \ifwrpfig@
     2326 % Wrapfig Package
     2327 \RequirePackage{wrapfig}
      2328 \fi
      2329 \fi
      2334 \iftab@
   2335 %%...
     2336 \fi
      2341 \ifalg@
      2342 \RequirePackage[ruled,vlined]{algorithm2e}
      2343 \DontPrintSemicolon
      2344 \SetInd{0.25em}{0.5em}
      2345 \text{setlength}\{\text{algomargin}\}\{1.25em\}
\Signature ...
     2346 \SetKw{Signature}{signature}
  \Macro ...
   ··· 2347 \SetKwFor{Macro}{macro}{}}
      2348 \SetKwFor{Function}{function}{}}
     2349 \SetKwFor{Procedure}{procedure}{}{}
   \Let ...
     2350 \five {1et}{in}{}
  \True ...
  \False _{2351} \SetKw{True}{true}
     2352 \SetKw{False}{false}
  \From ...
   · · · 2353 \SetKw{From}{from}
      2354 \SetKw{To}{to}
      2355 \SetKw{DownTo}{downto}
```

```
\GoTo ...
                  ··· 2356 \SetKw{GoTo}{goto}
                                         2357 \SetKw{Break}{break}
                                         2358 \SetKw{Continue}{continue}
\Guess ...
                 · · · 2359 \SetKw{Guess}{guess}
                                          2360 \SetKw{ExsGuess}{$\exists$-guess}
                                         2361 \SetKw{AllGuess}{$\forall$-guess}
           \MIf ...
                  2362 \texttt{MElse}{\text{f}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}{\text{mif}}
            \nlr ...
                                          2363 \DeclareRobustCommand{\nlr}[1]
                                          2364 \quad \{\addtocounter\{AlgoLine\}\{1\}\%
                                                                             \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
                                         2365
                                         2366 \fi
                                         2368 \endinput
                                          2369 (/package)
```

## 2 Change History

v0.0	v0.23
General: First public release $\dots 1$	General: New 'Graphs' section and small
v0.1	improvements $\dots \dots \dots$
General: Algorithm tricks 1	v0.24
v0.10	General: Correction of fragile macros 1
General: Small refinements 1	v0.25
v0.11	General: Few additions and corrections 1
General: Few additions and corrections 1	v0.26
v0.12	General: Few additions
General: New starred variants	v0.27
v0.13	General: Small addition to 'Algorithm tricks' 1
General: Further starred variants 1	v0.28
v0.14	General: Few additions
General: Few additions and corrections 1	v0.29
v0.15	General: Correction of fragile macros 1
General: Refactoring of dtx sources 1	v0.3
v0.16	General: Few problems solved 1
General: Small refinements and few additions 1 v0.17	v0.4
General: Few additions	General: Refactoring, corrections, and
v0.18	extensions
General: Few new starred variants 1	v0.5
v0.19	General: Figure tricks
General: Additional starred variants 1	v0.6
v0.2	General: Small refinements 1
General: Changes in 'Auxiliary tricks' 1	v0.7
v0.20	General: Refinements, corrections, and
General: New binary operators 1	extensions
v0.21	v0.8
General: Refactoring of function macros 1	General: Few refinements and corrections $\dots$ 1
v0.22	v0.9
General: Few additions $\dots \dots \dots$	General: Small addition to 'Algorithm tricks' 1

## 3 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.

```
Symbols
                                                   1010, 1046, 1068, 1077,
                                                                                             2234, 2246, 2254, 2260,
                                                  1084, 1088, 1096, 1104,
                                                                                             2263, 2274, 2279, 2292,
    \dots 427, 451, 926, 1013,
                                                  <u>1112</u>, <u>1117</u>, <u>1156</u>, <u>1158</u>,
                                                                                             2296, 2306, 2335, 2347,
        1021, 1023, 1025, 1865
                                                  1204, 1208, 1213, 1214,
                                                                                             2353, 2356, 2359, 2362
     . . . . . . . . . . . . . . . . 879, 880
                                                  \underline{1215},\ \underline{1216},\ \underline{1217},\ \underline{1218},
                                                                                            1219, 1220, 1221, 1222,
                                                                                             847, 851, 852, 853, 858,
    1240, 1242, 1263, 1285,
                                                                                             859, 868, 885, 886, 888,
        1017, 1023, 1025, 1157,
                                                  1287, 1300, 1308, 1320,
                                                                                             889, 890, 891, 892, 894, 895
        1160, 1161, 1755, 1756,
                                                  1339, 1367, 1392, 1403,
                                                                                    \@abs ..... 1129, 1130
        1757, 1758, 1759, 1760,
                                                  <u>1425</u>, <u>1435</u>, <u>1442</u>, <u>1447</u>,
                                                                                    \@all .... 1677, 1680
        1761, 1762, 1763, 1764
                                                  1449, 1452, 1456, 1466,
                                                                                    \@card ..... 1035, 1036
\... <u>144</u>,
                                                  1473, 1479, 1486, 1492,
                                                                                    \@ceil ..... 1147, 1148
        535, 548, 562, 575, 594,
                                                  1500, 1502, 1504, 1506,
                                                                                    \@denot ..... 938, 939
        <u>597</u>, <u>608</u>, <u>611</u>, <u>622</u>, <u>625</u>,
                                                  <u>1509</u>, <u>1539</u>, <u>1573</u>, <u>1576</u>,
                                                                                    \@exs ..... 1671, 1674
        636, 639, 650, 653, 664,
                                                  1581, 1652, 1683, 1685,
                                                                                    \@floor ..... 1141, 1142
        <u>667</u>, <u>684</u>, <u>687</u>, <u>698</u>, <u>701</u>,
                                                  <u>1694</u>, <u>1699</u>, <u>1733</u>, <u>1755</u>,
                                                                                    \@for ..... 176, 180
        <u>712</u>, <u>715</u>, <u>726</u>, <u>729</u>, <u>757</u>,
                                                  1760, 1767, 1819, 1870,
                                                                                    \@ifnextchar ..... 836
        <u>762</u>, <u>772</u>, <u>775</u>, <u>786</u>, <u>789</u>,
                                                  <u>1872</u>, <u>1875</u>, <u>1878</u>, <u>1887</u>,
        <u>801</u>, <u>804</u>, <u>815</u>, <u>818</u>, <u>910</u>,
                                                                                    \@ifstar ..... 300,
                                                  <u>1894</u>, <u>1906</u>, <u>1914</u>, <u>1918</u>,
        912, 915, 919, 923, 928,
                                                                                            306, 312, 318, 324, 330,
                                                  <u>1925</u>, <u>1933</u>, <u>2067</u>, <u>2219</u>,
        932, 944, 959, 961, 985,
                                                                                            336, 342, 348, 354, 363,
```

	\	
365, 367, 369, 371, 377,	\@snewtxtarg 312, 315	\ala
382, 387, 392, 397, 405,	\@snewtxtargsty 318, 321	\alg@false 126, 128
413, 419, 425, 431, 437,	\@snewtxtoarg 324, 327	\alg@true 127
443, 449, 455, 461, 467,	\@snewtxtoargsty 330, 333	\algomargin 2345
476, 478, 480, 482, 484,	\@snewtxtopar 348, 351	\All <u>1670</u>
490, 493, 496, 499, 502,	\@snewtxtoparsty $354, 357$	\Alpha <u>144</u>
508, 904, 908, 938, 953,	\@snewtxtpar 336, 339	\alt 1440
962, 966, 970, 974, 978,	\@snewtxtparsty 342, 345	\aMat <u>804</u>
982, 986, 990, 994, 998,	\@snewtxtsty 306, 309	\amsdef@false 17
1002, 1006, 1011, 1013,	\@snorm 1135, 1138	\amsdef@true 16
1019, 1021, 1027, 1029,	\@ssequence 962	\amsthm@false 21
1035, 1129, 1135, 1141,	\@ssequencel 966	\amsthm@true 20
1147, 1170, 1671, 1677	\@ssequencer 970	
\@len 1170, 1171	\@ssequencex 974	
\@newmth 413, 414	\@ssequencex1 978	\A0mega
\@newmtharg 425, 426	\@ssequencexr 982	\Aomega 1073
<u> </u>	\@sset 1011, 1013, 1016	\Aomicron <u>1077</u>
\Onewmthargsty 431, 432	, , ,	\Aposteriori <u>863</u>
\@newmthoarg 437, 438	\\0ssetl \\\1019, \\1021, \\1024	\aposteriori <u>841</u>
\@newmthoargsty 443, 444	\@ssetr 1027, 1029, 1032	\Apriori <u>862</u>
\@newmthopar $461, 462$	\@stuple 986	\apriori <u>840</u>
\@newmthoparsty $467, 468$	\@stuple1 990	\APSet
\@newmthpar 449, 450	\@stupler 994	\apset 1426, 1427
$\ensuremath{\texttt{Qnewmthparsty}}$ $455, 456$	\@stuplex 998	\apsym 1425, 1427
\@newmthsty 419, 420	\@stuplex1 1002	\arabic
\@newtxt 300, 301	\@stuplexr 1006	\aRel 687
\@newtxtarg 312, 313	\@svec 953, 956	\ArenaName
\@newtxtargsty 318, 319	\@tuple 986	\arenaname 1285, 1286
\@newtxtoarg 324, 325	\@tuplel 990	
\@newtxtoargsty 330, 331	\@tupler 994	\arg
\@newtxtopar 348, 349	\@tuplex 998	\arglef <u>157</u> , 164, 427,
_	\@tuplex1 1002	451, 1951, 1968, 1985,
\@newtxtoparsty 354, 355 \@newtxtpar 336, 337	\@tuplexr 1006	2002, 2019, 2036, 2053,
\(\text{Onewtythar}\) 33h 33/	( <u>F</u>	
	\@vec 953, 954	2085, 2102, 2119, 2136,
\@newtxtparsty 342, 343	\@vec 953, 954 \^ 881, 883	2153, 2170, 2187, 2204
\@newtxtparsty 342, 343 \@newtxtsty 306, 307	\^ 881, 883	
\@newtxtparsty	· · · · · · · · · · · · · · · · · · ·	2153, 2170, 2187, 2204
\@newtxtparsty 342, 343 \@newtxtsty 306, 307 \@norm 1135, 1136 \@sabs 1129, 1132	\^	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\@newtxtparsty	\^ \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\@newtxtparsty 342, 343 \@newtxtsty 306, 307 \@norm 1135, 1136 \@sabs 1129, 1132	\^ \. \. \. 881, 883 \' \. 878 \A \. \. \. 1815	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\@newtxtparsty 342, 343 \@newtxtsty 306, 307 \@norm 1135, 1136 \@sabs 1129, 1132 \@sall 1677, 1678	\^ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\@newtxtparsty 342, 343 \@newtxtsty 306, 307 \@norm 1135, 1136 \@sabs 1129, 1132 \@sall 1677, 1678 \@scard 1035, 1038	$\begin{tabular}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c} 2153, \ 2170, \ 2187, \ 2204 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
\\( \text{Qnewtxtparsty} & 342, 343 \\  \text{Qnewtxtsty} & 306, 307 \\  \text{Qnorm} & 1135, 1136 \\  \text{Qsabs} & 1129, 1132 \\  \text{Qsall} & 1677, 1678 \\  \text{Qscard} & 1035, 1038 \\  \text{Qsceil} & 1147, 1150 \\  \text{Qsdenot} & 938, 941 \end{array}	\frac{1}{100}  \text{881, 883}  \text{883}  \text{881}  \text{881, 883}  \text{883}  \text{881}   \text{881}  \text{881}  \text{881}  \text{881}  \text{881}  \text{881}  \text{881}  \tex	$\begin{array}{c} 2153, \ 2170, \ 2187, \ 2204 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
\\( \text{Qnewtxtparsty} & 342, 343 \\ \text{Qnewtxtsty} & 306, 307 \\ \text{Qnorm} & 1135, 1136 \\ \text{Qsabs} & 1129, 1132 \\ \text{Qsall} & 1677, 1678 \\ \text{Qscard} & 1035, 1038 \\ \text{Qsceil} & 1147, 1150 \\ \text{Qsdenot} & 938, 941 \\ \text{Qsequence} & 962 \end{array}	\frac{1}{1}\cdot \frac{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\	$\begin{array}{c} 2153, \ 2170, \ 2187, \ 2204 \\ \texttt{(argmid)} \ . \ \underline{161}, \ 314, \ 316, \ 338, \\ 340, \ 427, \ 429, \ 451, \ 453, \\ 940, \ 942, \ 1015, \ 1017, \\ 1023, \ 1025, \ 1031, \ 1033, \\ 1037, \ 1039, \ 1131, \ 1133, \\ 1137, \ 1139, \ 1143, \ 1145, \\ 1149, \ 1151, \ 1172, \ 1174, \\ 1675, \ 1681, \ 1865, \ 1867 \\ \end{array}$
\\( \text{Qnewtxtparsty} & 342, 343 \\ \text{Qnewtxtsty} & 306, 307 \\ \text{Qnorm} & 1135, 1136 \\ \text{Qsabs} & 1129, 1132 \\ \text{Qsall} & 1677, 1678 \\ \text{Qscard} & 1035, 1038 \\ \text{Qsceil} & 1147, 1150 \\ \text{Qsdenot} & 938, 941 \\ \text{Qsequence} & 962 \\ \text{Qsequencel} & 966 \end{array}	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} & 342, 343 \\ \text{Qnewtxtsty} & 306, 307 \\ \text{Qnorm} & 1135, 1136 \\ \text{Qsabs} & 1129, 1132 \\ \text{Qsall} & 1677, 1678 \\ \text{Qscard} & 1035, 1038 \\ \text{Qsceil} & 1147, 1150 \\ \text{Qsdenot} & 938, 941 \\ \text{Qsequence} & 962 \\ \text{Qsequencer} & 966 \\ \text{Qsequencer} & 970 \end{array}	\frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}\cdot \f	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}\cdot \frac{1}\cdot \frac{1}{1}\cdot \frac{1}\cdot \frac{1}\cdot \f	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\( 342, 343 \) \\\( \text{Qnewtxtsty} \) \\( 306, 307 \) \\\( \text{Qnorm} \) \\( 1135, 1136 \) \\\( \text{Qsabs} \) \\( 1129, 1132 \) \\\( \text{Qsall} \) \\( 1677, 1678 \) \\( \text{Qscard} \) \\( 1035, 1038 \) \\\( \text{Qscard} \) \\( 1147, 1150 \) \\( \text{Qsdenot} \) \\( 938, 941 \) \\( \text{Qsequence} \) \\( 966 \) \\( \text{Qsequencer} \) \\( 966 \) \\( \text{Qsequencex} \) \\( 974 \) \\( \text{Qsequencex} \) \\( 978 \) \\\( \text{Qsequencex} \) \\( 978 \) \\( \text{Qsequencex} \)	\(^\circ\) 881, 883 \(^\circ\) 878  A \(\lambda\) \(\l	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\( 342, 343 \) \\\( \text{Qnewtxtsty} \) \\( 306, 307 \) \\\( \text{Qnorm} \) \\( 1135, 1136 \) \\\( \text{Qsabs} \) \\( 1129, 1132 \) \\\( \text{Qsall} \) \\( 1677, 1678 \) \\( \text{Qscard} \) \\( 1035, 1038 \) \\\( \text{Qscard} \) \\( 1147, 1150 \) \\( \text{Qsdenot} \) \\( 938, 941 \) \\( \text{Qsequence} \) \\( 962 \) \\( \text{Qsequence} \) \\( 966 \) \\( \text{Qsequencex} \) \\( 970 \) \\( \text{Qsequencex} \) \\( 974 \) \\( \text{Qsequencexl} \) \\( 978 \) \\\( \text{Qsequencexr} \) \\( 982 \) \\( \text{Qsequencexr} \)	\(^\circ\) 881, 883 \(^\circ\) 878  A \(^\Lambda\) 1815 \(^\Lambda\) 1864 \(^\Lambda\) 1128 \(^\Lambda\) 1689 \(^\Lambda\) 1689, 1690, 1691 \(^\Lambda\) 625 \(^\Lambda\) 1875 \(^\Lambda\) 1875 \(^\Lambda\) 1875, 1877	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qsceil} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 2938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 970 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencexl} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 1011, 1013, 1014	\(^\circ\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 2938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 970 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 982 \\ \\ \text{Qsequencex} \) \\ 1011, 1013, 1014 \\ \\ \text{Qsetl} \) \\ 1019, 1021, 1022 \end{array}	\(^\circ\) 881, 883 \(^\circ\) 878  A \(^\Lambda\) 1815 \(^\Lambda\) 1864 \(^\Lambda\) 1128 \(^\Lambda\) 1689 \(^\Lambda\) 1689, 1690, 1691 \(^\Lambda\) 625 \(^\Lambda\) 1875 \(^\Lambda\) 1875 \(^\Lambda\) 1875, 1877	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty}  342, 343 \\ \text{Qnewtxtsty}  306, 307 \\ \text{Qnorm}  1135, 1136 \\ \text{Qsabs}  1129, 1132 \\ \text{Qsall}  1677, 1678 \\ \text{Qscard}  1035, 1038 \\ \text{Qsceil}  1147, 1150 \\ \text{Qsdenot}  938, 941 \\ \text{Qsequence}  962 \\ \text{Qsequence}  966 \\ \text{Qsequencex}  970 \\ \text{Qsequencex}  974 \\ \text{Qsequencex}  978 \\ \text{Qsequencex}  982 \\ \text{Qsequencex}  1011, 1013, 1014 \\ \text{Qset1}  1019, 1021, 1022 \\ \text{Qsetr}  1027, 1029, 1030 \end{array}	A  A  \A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 970 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 982 \\ \\ \text{Qsequencex} \) \\ 982 \\ \\ \text{Qsequencex} \) \\ 1011, 1013, 1014 \\ \\ \text{Qsett} \) \\ 1029, 1030 \\ \\ \text{Qsexs} \) \\ 1671, 1672 \\ \ext{Qsexs} \)	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) 342, 343 \\( \text{Qnewtxtsty} \) 306, 307 \\( \text{Qnorm} \) 1135, 1136 \\( \text{Qsabs} \) 1129, 1132 \\( \text{Qsall} \) 1677, 1678 \\( \text{Qscard} \) 1035, 1038 \\( \text{Qscard} \) 1147, 1150 \\( \text{Qsdenot} \) 238, 941 \\( \text{Qsequence} \) 262 \\( \text{Qsequence} \) 262 \\( \text{Qsequence} \) 266 \\( \text{Qsequence} \) 270 \\( \text{Qsequencex} \) 274 \\( \text{Qsequencex} \) 278 \\( \text{Qsequencex} \) 278 \\( \text{Qsequencex} \) 278 \\( \text{Qsequencex} \) 282 \\( \text{Qset} \) 1011, 1013, 1014 \\( \text{Qset} \) 1022 \\( \text{Qset} \) 1027, 1029, 1030 \\( \text{Qsexs} \) 1671, 1672 \\( \text{Qsfloor} \) 1141, 1144	A  A  \A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qset} \) \\ 1011, 1013, 1014 \\ \\ \text{Qset} \) \\ 1025 \\ 1027, 1029, 1030 \\ \\ \text{Qsexs} \) \\ \\ 1671, 1672 \\ \\ \text{Qsfloor} \) \\ 1141, 1144 \\ \\ \text{Qslen} \) \\ 1170, 1173	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 1011, 1013, 1014 \\ \\ \text{Qsetl} \) \\ 1021, 1022 \\ \\ \text{Qsetr} \) \\ 1027, 1029, 1030 \\ \\ \text{Qsexs} \) \\ 1671, 1672 \\ \\ \text{Qsfloor} \) \\ 1141, 1144 \\ \\ \text{Qslen} \) \\ 1170, 1173 \\ \\ \text{Qsnewmth} \) \\ 413, 416	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qsequencexr} \) \\ 982 \\ \\ \text{Qset} \) \\ 1011, 1013, 1014 \\ \\ \text{Qset} \) \\ 1025 \\ 1027, 1029, 1030 \\ \\ \text{Qsexs} \) \\ \\ 1671, 1672 \\ \\ \text{Qsfloor} \) \\ 1141, 1144 \\ \\ \text{Qslen} \) \\ 1170, 1173	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 1011, 1013, 1014 \\ \\ \text{Qsetl} \) \\ 1021, 1022 \\ \\ \text{Qsetr} \) \\ 1027, 1029, 1030 \\ \\ \text{Qsexs} \) \\ 1671, 1672 \\ \\ \text{Qsfloor} \) \\ 1141, 1144 \\ \\ \text{Qslen} \) \\ 1170, 1173 \\ \\ \text{Qsnewmth} \) \\ 413, 416	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 1011, 1013, 1014 \\ \\ \text{Qsett} \) \\ 1021, 1022 \\ \\ \text{Qsett} \) \\ 1027, 1029, 1030 \\ \\ \text{Qsexs} \) \\ 1671, 1672 \\ \\ \text{Qsfloor} \) \\ 1141, 1144 \\ \\ \text{Qslen} \) \\ 1170, 1173 \\ \\ \text{Qsnewmtharg} \) \\ 425, 428	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \) \\ 342, 343 \\ \\ \text{Qnewtxtsty} \) \\ 306, 307 \\ \\ \text{Qnorm} \) \\ 1135, 1136 \\ \\ \text{Qsabs} \) \\ 1129, 1132 \\ \\ \text{Qsall} \) \\ 1677, 1678 \\ \\ \text{Qscard} \) \\ 1035, 1038 \\ \\ \text{Qscard} \) \\ 1147, 1150 \\ \\ \text{Qsdenot} \) \\ 938, 941 \\ \\ \text{Qsequence} \) \\ 962 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequence} \) \\ 966 \\ \\ \text{Qsequencex} \) \\ 970 \\ \\ \text{Qsequencex} \) \\ 978 \\ \\ \text{Qsequencex} \) \\ 1011, 1013, 1014 \\ \text{Qset} \) \\ 1025 \\ 1025 \\ 1027, 1029, 1030 \\ \text{Qsexs} \) \\ \\ 1026 \\ 1141, 1144 \\ \\ \text{Qslen} \) \\ 1170 \\ 173 \\ \\ \text{Qsnewmtharg} \) \\ 1173 \\ \\ \text{Qsnewmtharg} \) \\ 431, 434 \\ \\ \end{args} \]	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \tag{342}, 343 \\ \text{Qnewtxtsty} \tag{306}, 307 \\ \text{Qnorm} \tag{1135}, 1136 \\ \text{Qsabs} \tag{1129}, 1132 \\ \text{Qsall} \tag{1677}, 1678 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qsceil} \tag{1147}, 1150 \\ \text{Qsdenot} \tag{938}, 941 \\ \text{Qsequence} \tag{962} \\ \text{Qsequence} \tag{966} \\ \text{Qsequence} \tag{966} \\ \text{Qsequencex} \tag{970} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{978} \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1017}, 1029, 1030 \\ \text{Qsexs} \tag{1027}, 1029, 1030 \\ \text{Qsexs} \tag{1071}, 1672 \\ \text{Qsfloor} \tag{1141}, 1144 \\ \text{Qslen} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1170}, 124 \\ \text{Qsnewmtharg} \tag{1170}, 143 \\ \text{Qsnewmthargsty} \tag{1170}, 443 \\ \text{Qsnewmthoargsty} \tag{1170}, 443 \\ \text{1170}, 443 \\ \text{Qsnewmthoargsty} \tag{1170}, 443 \\ Qsnewmthoargsty	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \tag{342}, 343 \\ \text{Qnewtxtsty} \tag{306}, 307 \\ \text{Qnorm} \tag{1135}, 1136 \\ \text{Qsabs} \tag{1129}, 1132 \\ \text{Qsall} \tag{1677}, 1678 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1147}, 1150 \\ \text{Qsdenot} \tag{938}, 941 \\ \text{Qsequence} \tag{962} \\ \text{Qsequence} \tag{966} \\ \text{Qsequence} \tag{966} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{982} \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1027}, 1029, 1030 \\ \text{Qsexs} \tag{1071}, 1672 \\ \text{Qsfloor} \tag{1141}, 1144 \\ \text{Qslen} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1170}, 431, 434 \\ \text{Qsnewmthoarg} \tag{1170}, 443, 446 \\ \text{Qsnewmthoargsty} \tag{1170}, 443, 446 \\ \text{Qsnewmthoargsty} \tag{1170}, 446, 446 \\ \text{Qsnewmthoarg} \tag{1170}, 461, 464 \\ \text{Qsnewmthoarg} \text{Qsnewmthoarg} \tag{1170}, 461, 461, 464 \\ Qsnewmthoar	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \tag{342}, 343 \\ \text{Qnewtxtsty} \tag{306}, 307 \\ \text{Qnorm} \tag{1135}, 1136 \\ \text{Qsabs} \tag{1129}, 1132 \\ \text{Qsall} \tag{1677}, 1678 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1147}, 1150 \\ \text{Qsdenot} \tag{938}, 941 \\ \text{Qsequence} \tag{962} \\ \text{Qsequence} \tag{966} \\ \text{Qsequence} \tag{966} \\ \text{Qsequencex} \tag{970} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{982} \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1027}, 1029, 1030 \\ \text{Qsex} \tag{1141}, 1144 \\ \text{Qslen} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1170}, 434 \\ \text{Qsnewmthoarg} \tag{1170}, 443, 446 \\ \text{Qsnewmthoparsty} \tag{1170}, 443, 446 \\ \text{Qsnewmthoparsty} \tag{1170}, 470 \end{1027} \end{1027} \\ \text{Qsnewmthoparsty} \tag{1170}, 443, 446 \\ \text{Qsnewmthoparsty} \tag{1170}, 443, 446 \\ \text{Qsnewmthoparsty} \tag{1170}, 470 \\ \text{Qsnewmthoparsty} \ta	A  A  A  A  A  A  A  A  A  A  A  A  A	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\\( \text{Qnewtxtparsty} \tag{342}, 343 \\ \text{Qnewtxtsty} \tag{306}, 307 \\ \text{Qnorm} \tag{1135}, 1136 \\ \text{Qsabs} \tag{1129}, 1132 \\ \text{Qsall} \tag{1677}, 1678 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1147}, 1150 \\ \text{Qsdenot} \tag{938}, 941 \\ \text{Qsequence} \tag{962} \\ \text{Qsequence} \tag{966} \\ \text{Qsequence} \tag{966} \\ \text{Qsequencex} \tag{970} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{982} \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1027}, 1029, 1030 \\ \text{Qsexx} \tag{1017}, 1672 \\ \text{Qsfloor} \tag{1141}, 1144 \\ \text{Qslen} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1170}, 431, 434 \\ \text{Qsnewmthoargsty} \tag{1170}, 443, 446 \\ \text{Qsnewmthoparsty} \tag{1170}, 470 \\ \text{Qsnewmthopar} \tag{1170}, 470 \\ \tex	A  A  \A	2153, 2170, 2187, 2204 \argmid \ \frac{161}{161}, 314, 316, 338, 340, 427, 429, 451, 453, 940, 942, 1015, 1017, 1023, 1025, 1031, 1033, 1037, 1039, 1131, 1133, 1137, 1139, 1143, 1145, 1149, 1151, 1172, 1174, 1675, 1681, 1865, 1867 \argrig \ \text{argrig} \ \frac{159}{120} \text{argsep} \frac{163}{168}, 168, 1015, 1017, 1120, 1122, 1124, 1126 \aset \ \frac{667}{120} \text{Asgset} \ \frac{1452}{1452} \text{asgset} \ \frac{1452}{1454} \text{asgsym} \ \frac{639}{1452} \text{asgsym} \ \frac{639}{1452} \text{asgrym} \ \frac{653}{1454} \text{asgym} \ \frac{653}{1454} \text{astr} \ \frac{653}{1454} \text{astr} \ \frac{1075}{15} \text{Atheta} \ \frac{1075}{150} \text{Atheta} \ \frac{1075}{150} \text{ATL} \ \frac{1839}{1843}, 1845, 1847 \text{ATLS} \ \frac{1854}{1858}, 1860, 1862 \text{atr} \ \frac{1334}{1840} \text{aut@false} \ \frac{56}{66}, 62, 98, 100 \text{aut@true} \ \text{99}
\\( \text{Qnewtxtparsty} \tag{342}, 343 \\ \text{Qnewtxtsty} \tag{306}, 307 \\ \text{Qnorm} \tag{1135}, 1136 \\ \text{Qsabs} \tag{1129}, 1132 \\ \text{Qsall} \tag{1677}, 1678 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1147}, 1150 \\ \text{Qsdenot} \tag{938}, 941 \\ \text{Qsequence} \tag{962} \\ \text{Qsequence} \tag{966} \\ \text{Qsequence} \tag{966} \\ \text{Qsequencex} \tag{970} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{982} \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1027}, 1029, 1030 \\ \text{Qsex} \tag{1027}, 1029, 1030 \\ \text{Qsex} \tag{1027}, 1029, 1030 \\ \text{Qsex} \tag{1141}, 1144 \\ \text{Qslen} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1143}, 416 \\ \text{Qsnewmtharg} \tag{1143}, 434 \\ \text{Qsnewmthoargsty} \tag{1143}, 434 \\ \text{Qsnewmthoargsty} \tag{1143}, 446 \\ Qsnewmthoargsty	A  A  \A	2153, 2170, 2187, 2204 \argmid \ \frac{161}{161}, 314, 316, 338, 340, 427, 429, 451, 453, 940, 942, 1015, 1017, 1023, 1025, 1031, 1033, 1037, 1039, 1131, 1133, 1137, 1139, 1143, 1145, 1149, 1151, 1172, 1174, 1675, 1681, 1865, 1867 \argrig \ \text{argrig} \ \frac{159}{120} \text{argsep} \ \frac{163}{168}, 168, 1015, 1017, 1120, 1122, 1124, 1126 \aSet \ \ \frac{667}{1452} \text{asgset} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\\( \text{Qnewtxtparsty} \tag{342}, 343 \\ \text{Qnewtxtsty} \tag{306}, 307 \\ \text{Qnorm} \tag{1135}, 1136 \\ \text{Qsabs} \tag{1129}, 1132 \\ \text{Qsall} \tag{1677}, 1678 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1035}, 1038 \\ \text{Qscard} \tag{1147}, 1150 \\ \text{Qsdenot} \tag{938}, 941 \\ \text{Qsequence} \tag{962} \\ \text{Qsequence} \tag{966} \\ \text{Qsequence} \tag{966} \\ \text{Qsequencex} \tag{970} \\ \text{Qsequencex} \tag{974} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{978} \\ \text{Qsequencex} \tag{982} \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1011}, 1013, 1014 \\ \text{Qset} \tag{1027}, 1029, 1030 \\ \text{Qsexx} \tag{1017}, 1672 \\ \text{Qsfloor} \tag{1141}, 1144 \\ \text{Qslen} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmth} \tag{1170}, 1173 \\ \text{Qsnewmtharg} \tag{1170}, 431, 434 \\ \text{Qsnewmthoargsty} \tag{1170}, 443, 446 \\ \text{Qsnewmthoparsty} \tag{1170}, 470 \\ \text{Qsnewmthopar} \tag{1170}, 470 \\ \tex	A  A  \A	2153, 2170, 2187, 2204 \argmid \ \frac{161}{161}, 314, 316, 338, 340, 427, 429, 451, 453, 940, 942, 1015, 1017, 1023, 1025, 1031, 1033, 1037, 1039, 1131, 1133, 1137, 1139, 1143, 1145, 1149, 1151, 1172, 1174, 1675, 1681, 1865, 1867 \argrig \ \text{argrig} \ \frac{159}{120} \text{argsep} \frac{163}{168}, 168, 1015, 1017, 1120, 1122, 1124, 1126 \aset \ \frac{667}{120} \text{Asgset} \ \frac{1452}{1452} \text{asgset} \ \frac{1452}{1454} \text{asgsym} \ \frac{639}{1452} \text{asgsym} \ \frac{639}{1452} \text{asgrym} \ \frac{653}{1454} \text{asgym} \ \frac{653}{1454} \text{astr} \ \frac{653}{1454} \text{astr} \ \frac{1075}{15} \text{Atheta} \ \frac{1075}{150} \text{Atheta} \ \frac{1075}{150} \text{ATL} \ \frac{1839}{1843}, 1845, 1847 \text{ATLS} \ \frac{1854}{1858}, 1860, 1862 \text{atr} \ \frac{1334}{1840} \text{aut@false} \ \frac{56}{66}, 62, 98, 100 \text{aut@true} \ \text{99}

		1000 1000 1011 1001
\aux@false 11, 13	\cmdmthfun 702,	1892, 1909, 1911, 1921,
\aux@true	1297, 1306, 1364, 1383,	1923, 1928, 1930, 2257,
\aVec <u>818</u>	1693, 1898, 1901, 2271	2259, 2266, 2268, 2291
D	\cmdmthlbop 764	\cmdmthsetext
B 1200	\cmdmthlrel	$\frac{678}{1210}$ , $\frac{1210}{1210}$ , $\frac{1220}{1220}$
\BF	\cmdmthluop <u>762</u>	1289, 1310, 1318, 1322,
\bfseries 537	\cmdmthmat <u>805</u>	1329, 1363, 1382, 1427,
\BG	\cmdmthname <u>598</u>	1437, 1451, 1454, 1470,
\BGPL 2035, 2039, 2041, 2044	\cmdmthoarg <u>494, 504</u>	1477, 1483, 1490, 1496,
\bgroup	\cmdmthoargcls 630	1575, 1578, 1687, 1696,
\BGSL 2169, 2173, 2175, 2178	\cmdmthoargelm <u>734</u> , 749	1874, 1877, 1880, 1889,
\BMod <u>1668</u> , 1679, 1681	\cmdmthoargfam 616	1896, 1905, 1908, 1916,
\BndSet <u>2219</u>	\cmdmthoargfrm 794	1920, 1927, 2221, 2262, 2265, 2276, 2294, 2298
\bndset 2220, 2221	\cmdmthoargfun	0.10
\bndsym 2219, 2221, 2222	\cmdmthoargmat 809	\cmdmthsig 640 \cmdmthsnt 776
\boldsymbol 803, 817	\cmdmthoargname 602	\cmdmthstr 654
\bot 1407	\cmdmthoargrel 692	\cmdmthsym
\bound	\cmdmthoargset 672	. <u>716,</u> 742, 1282, 1284,
\Box	\cmdmthoargsig <u>644</u> \cmdmthoargsnt <u>780</u>	1358, 1360, 1377, 1379
\bst	•	\cmdmthsymelm
\bst	\cmdmthoargstr 658	<u>741</u> , 1245, 1246,
$\mathbf{C}$	\cmdmthoargsym <u>720</u> , 748	1290, 1291, 1293, 1295,
\card 1034	\cmdmthoargsymelm 747 \cmdmthoargvec 823	1312, 1314, 1324, 1326,
\caselower 679	\cmdmthoargvec 823 \cmdmthopar 500, 504	1688, 1881, 1882, 1884,
\cdot 1041	·	1886, 1891, 1893, 1910,
\ceil 1041	\cmdmthoparcls 634	1912, 1922, 1924, 1929,
\cequiv 932	\cmdmthoparelm <u>738</u> , 755 \cmdmthoparfam <u>620</u>	1931, 2222, 2267, 2269
\cf 842	· · · · · · · · · · · · · · · · · · ·	\cmdmthvec 819
\CGPL 1967, 1971, 1973, 1976	$\label{eq:cmdmthoparfrm} \begin{tabular}{ll} $\frac{798}{10}$ \\ \begin{tabular}{ll} $\frac{710}{10}$ \\ \end{tabular}$	\cmdtxt 375, 401
\CGS 1869	\cmdmthoparrat 813	\cmdtxtabr <u>551</u> ,
\CGSL 2101, 2105, 2107, 2110	\cmdmthoparname 606	838, 839, 840, 841, 842,
\CGSStr	\cmdmthoparrel 696	843, 844, 845, 846, 847,
\cgsstr 1870, 1871	\cmdmthoparset 676	848, 849, 850, 851, 852,
\chgbar@false 44	\cmdmthoparsig 648	853, 854, 855, 856, 857,
\chgbar@true 45	\cmdmthoparsnt 784	858, 859, 861, 862, 863,
\chi 1452	\cmdmthoparstr 662	864, 865, 866, 867, 868,
\circ 1057	\cmdmthoparsym <u>724</u> , 754	869, 870, 871, 872, 873,
\CL 1581	\cmdmthoparsymelm 753	874, 878, 879, 880, 881,
\cmdmth $488, 504, 758, 760, 767$	\cmdmthoparvec 827	883, 885, 886, 887, 888,
\cmdmthall $\frac{503}{595}$ , $\frac{595}{609}$ , $\frac{623}{595}$ ,	\cmdmthpar 497, 504	889, 890, 891, 892, 894,
637, 651, 665, 685, 699,	\cmdmthparcls 632	895, 1442, 1443, 1444, 1445
713, 727, 773, 787, 802, 816	\cmdmthparelm 736, 752	$\column{1}{c}$ \cmdtxtall $\underline{400}, 536, 549, 563, 576$
\cmdmtharg 491, 504	\cmdmthparfam 618	\cmdtxtarg $380$ , $401$
\cmdmthargcls 628	\cmdmthparfrm 796	\cmdtxtargabr $\underline{553}$
\cmdmthargelm <u>732</u> , <u>746</u>	\cmdmthparfun 708	\cmdtxtargcom $\dots \dots 580$
\cmdmthargfam <u>614</u>	\cmdmthparmat 811	\cmdtxtargdef $\underline{540}$
\cmdmthargfrm <u>792</u>	\cmdmthparname <u>604</u>	\cmdtxtargname $\underline{567}$
\cmdmthargfun <u>704</u>	\cmdmthparrel 694	\cmdtxtcom $578$ , $1204$ , $1205$ , $1206$
\cmdmthargmat <u>807</u>	\cmdmthparset $\dots \dots \dots$	\cmdtxtdef <u>538</u>
\cmdmthargname <u>600</u>	\cmdmthparsig <u>646</u>	\cmdtxtname $\underline{565}$ , $1869$
\cmdmthargrel <u>690</u>	\cmdmthparsnt 782	\cmdtxtoarg <u>385</u> , 401
\cmdmthargset <u>670</u>	\cmdmthparstr 660	$\c$ \cmdtxtoargabr $\underline{555}$
\cmdmthargsig <u>642</u>	\cmdmthparsym <u>722</u> , <u>751</u>	\cmdtxtoargcom $\dots 582$
\cmdmthargsnt <u>778</u>	\cmdmthparsymelm 750	\cmdtxtoargdef $\underline{542}$
\cmdmthargstr <u>656</u>	\cmdmthparvec 825	\cmdtxtoargname <u>569</u>
\cmdmthargsym <u>718</u> , <u>745</u>	\cmdmthrel	\cmdtxtopar $395, \overline{401}$
\cmdmthargsymelm 744	<u>688,</u> 1248, 1299, 1690,	\cmdtxtoparabr <u>559</u>
\cmdmthargvec <u>821</u>	$1\overline{691}$ , $1899$ , $1902$ , $2272$	\cmdtxtoparcom $\dots \dots 586$
\cmdmthcls <u>626</u>	\cmdmthset <u>668</u> ,	\cmdtxtopardef $\dots \dots $ $546$
\cmdmthelm <u>730</u> , 743	679, 1292, 1294, 1303,	\cmdtxtoparname $573$ ,
$\verb \cmdmthfam  \dots \dots \dots \underline{612}$	1305, 1311, 1313, 1323,	$1264, 1267, 1270, 1\overline{273},$
$\verb \cmdmthfrm  \dots \dots \underline{790}$	1325, 1883, 1885, 1890,	1276, 1279, 1340, 1343,

```
1346, 1349, 1352, 1355,
                                 \CurrentOption ..... 131
                                                                          1680, 1703, 1707, 1709,
       1368, 1371, 1374, 1393,
                                                                          1711, 1715, 1719, 1723,
                                                \mathbf{D}
       1457, 1458, 1510, 1513,
                                                                          1725, 1727, 1737, 1739,
                                 \DBH .... <u>1227</u>
                                                                          1741, 1748, 1750, 1752,
       1516, 1519, 1522, 1525,
                                 \DeclareMathAlphabet ....
       1528, 1531, 1540, 1541,
                                                                          1774, 1778, 1780, 1782,
       1582, 1605, 1628, 1653,
                                        291, 292, 293, 294
                                                                          1789, 1793, 1795, 1797,
       1700, 1734, 1745, 1768,
                                 \DeclareMathOperator 1062, 1064
                                                                          1804, 1808, 1810, 1812,
                                 \DeclareOption 12, 13, 17, 21,
                                                                          1823, 1827, 1829, 1831,
       1771, 1786, 1801, 1820,
       1835, 1850, 1934, 2068,
                                        25, 29, 33, 37, 41, 45,
                                                                          1838, 1842, 1844, 1846,
      2234, 2236, 2238, 2239,
                                        49, 54, 55, 60, 61, 67,
                                                                          1853, 1857, 1859, 1861,
      2240, 2241, 2242, 2243,
                                        68, 72, 73, 78, 79, 84,
                                                                          1864, 1866, 1936, 1938,
      2244, 2245, 2246, 2248,
                                        85, 89, 90, 94, 95, 99,
                                                                          1941, 1944, 1946, 1953,
      2249, 2251, 2252, 2279,
                                        100, 105, 106, 111, 112,
                                                                          1955, 1958, 1961, 1963,
      2281, 2282, 2283, 2284,
                                        116, 121, 122, 127, 128, 131
                                                                          1970, 1972, 1975, 1978,
                                 \verb|\DeclareRobustCommand| ...
       2285, 2286, 2287, 2288
                                                                          1980, 1987, 1989, 1992,
                                         ... 152, 157, 159, 161,
                                                                          1995, 1997, 2004, 2006,
\cmdtxtpar .... <u>390</u>, 401
                                        163, 166, 175, 179, 184,
                                                                          2009, 2012, 2014, 2021,
\cmdtxtparabr .....
                                        186, 188, 191, 195, 199,
                                                                          2023, 2026, 2029, 2031,
\cmdtxtparcom .....
                                        202, 204, 206, 299, 305,
                                                                          2038, 2040, 2043, 2046,
\cmdtxtpardef .....
                            544
                                        311, 317, 323, 329, 335,
                                                                          2048, 2055, 2057, 2060,
\cmdtxtparname .....
                                        341, 347, 353, 359, 362,
                                                                          2063, 2065, 2070, 2072,
\cmodels ..... <u>928</u>
                                        364, 366, 368, 370, 372,
                                                                          2075, 2078, 2080, 2087,
\cmp ..... <u>1056</u>
                                                                          2089, 2092, 2095, 2097,
                                        375, 380, 385, 390, 395,
\cnf .... <u>1442</u>
                                        400, 412, 418, 424, 430,
                                                                          2104, 2106, 2109, 2112,
\Cnt ..... <u>1430</u>
                                        436, 442, 448, 454, 460,
                                                                          2114, 2121, 2123, 2126,
\cod ..... <u>1046</u>
                                        466, 472, 475, 477, 479,
                                                                          2129,\,2131,\,2138,\,2140,
\coimplies ..... <u>923</u>
                                                                          2143, 2146, 2148, 2155,
                                        481, 483, 488, 491, 494,
\Coloneqq .....
                                        497, 500, 503, 537, 550,
                                                                          2157, 2160, 2163, 2165,
\coloneqq ..... 908
                                        564, 577, 596, 610, 624,
                                                                          2172, 2174, 2177, 2180,
\com@false \dots 56, 77, 79
                                        638, 652, 666, 686, 700,
                                                                          2182, 2189, 2191, 2194,
\com@true ..... 78
                                        714, 728, 759, 761, 768,
                                                                          2197, 2199, 2206, 2208,
\conset ..... 1476, 1477
                                        774, 788, 803, 817, 835,
                                                                          2211, 2214, 2216, 2363
\ConSig ..... <u>1473</u>
                                        903, 907, 910, 912, 915,
\consig ..... 1473, 1474
                                        917, 919, 921, 923, 925,
                                                                   \DeclareRobustCommandx 301,
\ConStr ..... <u>1500</u>
                                                                          303, 307, 309, 313, 315,
                                        928, 930, 932, 934, 937,
\constr ..... 1500, 1501
                                                                          319, 321, 325, 327, 331,
                                        939, 941, 944, 946, 948,
\consym ..... 1475, 1477
                                        950, 952, 954, 956, 961,
                                                                          333, 337, 339, 343, 345,
\Contd ..... <u>894</u>
                                        965, 969, 973, 977, 981,
                                                                          349, 351, 355, 357, 403,
\contd ..... <u>886</u>
                                        985, 989, 993, 997, 1001,
                                                                          414, 416, 420, 422, 426,
\coWCL ..... 1612
                                        1005, 1010, 1012, 1014,
                                                                          428, 432, 434, 438, 440,
\coWMCL .... 1624
                                        1016, 1018, 1020, 1022,
                                                                          444, 446, 450, 452, 456,
\coWMPL .... 1647
                                        1024, 1026, 1028, 1030,
                                                                          458, 462, 464, 468, 470,
\coWMSO \dots 1570
                                        1032, 1034, 1036, 1038,
                                                                          506, 512, 514, 516, 518,
\coWMSOL ..... 1568
                                        1040, 1043, 1052, 1054,
                                                                          520, 522, 524, 526, 528,
\coWMTL .... 1601
                                        1056, 1059, 1080, 1082,
                                                                          538, 540, 542, 544, 546,
\coWPL ..... 1635
                                        1084, 1086, 1088, 1090,
                                                                          551, 553, 555, 557, 559,
\coWSO ..... 1552
                                                                          565, 567, 569, 571, 573,
                                        1092, 1094, 1096, 1098,
\coWSOL ..... 1550
                                        1100, 1102, 1104, 1106,
                                                                          578, 580, 582, 584, 586,
\coWTL ..... 1589
                                        1108, 1110, 1112, 1114,
                                                                          598, 600, 602, 604, 606,
\crv@false ..... 40
                                                                          612, 614, 616, 618, 620,
                                        1117, 1119, 1121, 1123,
\crv@true ..... 41
                                        1125, 1128, 1130, 1132,
                                                                          626, 628, 630, 632, 634,
\csdef 143, 144, 145, 146, 147,
                                        1134, 1136, 1138, 1140,
                                                                          640, 642, 644, 646, 648,
      376,\,381,\,386,\,391,\,396,
                                        1142, 1144, 1146, 1148,
                                                                          654, 656, 658, 660, 662,
       404, 489, 492, 495, 498,
                                        1150, 1167, 1169, 1171,
                                                                          668, 670, 672, 674, 676,
       501, 507, 1184, 1200, 1202
                                        1173, 1396, 1398, 1400,
                                                                          678, 688, 690, 692, 694,
\csedef ..... 177, 181
                                        1461, 1463, 1544, 1546,
                                                                          696, 702, 704, 706, 708,
\csname . 167, 168, 169, 170,
                                        1550, 1552, 1556, 1558,
                                                                          710, 716, 718, 720, 722,
       171, 172, 173, 178, 182,
                                        1562, 1564, 1568, 1570,
                                                                          724, 730, 732, 734, 736,
      378, 379, 383, 384, 388,
                                        1585, 1589, 1593, 1597,
                                                                          738, 741, 744, 747, 750,
      389, 393, 394, 398, 399,
                                        1601, 1608, 1612, 1616,
                                                                          753, 762, 764, 769, 776,
      406, 407, 415, 417, 509, 510
                                                                          778, 780, 782, 784, 790,
                                        1620, 1624, 1631, 1635,
\CTL ..... <u>1767</u>
                                        1639, 1643, 1647, 1656,
                                                                          792, 794, 796, 798, 805,
\CTLP ... 1790, 1794, 1796, 1798
                                        1660, 1662, 1664, 1670,
                                                                          807, 809, 811, 813, 819,
\CTLS ... 1805, 1809, 1811, 1813
                                        1672, 1674, 1676, 1678,
                                                                          821, 823, 825, 827, 1183,
```

	\	
1185, 1188, 1194, 1199,	\DTA \. \. \. \. \. \. \. \. \. \. \.	378, 379, 383, 384, 388,
1201, 1950, 1967, 1984,	\dual <u>944</u>	389, 393, 394, 398, 399,
2001, 2018, 2035, 2052,	TD	406, 407, 415, 417, 509, 510
2084, 2101, 2118, 2135,	E 1015	\endinput 2368
2152, 2169, 2186, 2203	\E <u>1815</u>	\ENGSL 2189
\DecSet <u>1894</u>	\EAFMC 1725 \EAGPL 2004	\enmtls@false 29
\decset 1895, 1896	\EAGSL	\enmtls@true 28
\decsym 1894, 1896	\Easy	\ensuremath 360, 415,
\Dedicto 864	\EATL 1829	417, 1063, 1065, 1399,
\dedicto <u>843</u>	\EATLP 1844	1401, 1663, 1665, 1700,
\def 485	\EATLS	1710, 1712, 1726, 1728,
\Defacto <u>865</u>	\EBF	1740, 1742, 1751, 1753,
\defacto <u>844</u>	\EBGPL	1781, 1783, 1796, 1798,
\defcomcls <u>1183</u> ,	\EBGSL 2172	1811, 1813, 1830, 1832, 1845, 1847, 1860, 1862,
1208, 1209, 1210, 1211	\EBH 1229	1937, 1939, 1945, 1947,
\defcomclsgrp <u>1185</u> , 1213, 1214,	\ECGPL 1970	1954, 1956, 1962, 1964,
1215, 1216, 1217, 1218,	\ECGSL 2104	1971, 1973, 1979, 1981,
1219, 1210, 1217, 1218, 1219, 1220, 1221, 1222	\ECTL 1780	1988, 1990, 1996, 1998,
\defcomclsgrpcmd 1195,	\ECTLP 1795	2005, 2007, 2013, 2015,
1196, 1197, 1198, 1199	\ECTLS 1810	2022, 2024, 2030, 2032,
\defcomclsgrpred 1189, 1190,	\EDGPL 1987	2039, 2041, 2047, 2049,
1191, 1192, 1193, 1194	\EdgRel <u>1247</u>	2056, 2058, 2064, 2066,
\defcomclsgrpsem	\edgrel 1247, 1248	2071, 2073, 2079, 2081,
1186, 1187, 1188	\EDGSL 2121	2088, 2090, 2096, 2098,
\defcomhrc <u>1201</u> , <u>1224</u> ,	\EEGPL 2021	2105, 2107, 2113, 2115,
$1225, 1226, \overline{1227}, 1228,$	\EEGSL 2155	2122, 2124, 2130, 2132,
1229, 1230, 1231, 1232	\EExs	2139, 2141, 2147, 2149,
\defeq <u>903</u>	VEFAGEL	2156, 2158, 2164, 2166,
\defval $154, 308, 310,$	\EFAGSL	2173, 2175, 2181, 2183,
320, 322, 332, 334, 344,	\EFBGSL	2190, 2192, 2198, 2200,
346, 356, 358, 406, 407,	\EFCGPL 1978	2207, 2209, 2215, 2217
421, 423, 433, 435, 445,	\EFCGSL	\ent <u>1330</u>
447, 457, 459, 469, 471,	\EFDGPL 1995	\enumeration 959
509, 510, 681, 683, 1041,	\EFDGSL 2129	\EOGPL
1184, 1186, 1187, 1202,	\EFEGPL 2029	\EOGSL
1675, 1681, 1865, 1867 \deg 1050	\EFEGSL 2163	\EPTL
\Delta 1227, 1228	\EFNGSL 2197	\equiv 933, 935
\delta 1900, 2270	\EFOGPL 1961	\ergo 848
\denot 937	\EFOGSL 2095	\Errata 869
\dep 1440	\EFPL 1944	\errata 849
\der 948	\EFSL 2078	\Erratum 870
\Dere <u>866</u>	\EFXGPL 2063	\erratum <u>850</u>
\dere <u>845</u>	\EFXGSL	\esc 1330
\DF <u>1509</u>	\Eg	\ESL 2070
\DFA <u>2234</u>	\eg 847	\etal <u>851</u>
\DGPL 1984, 1988, 1990, 1993	\EGPL 2018, 2022, 2024, 2027	\etc <u>852</u>
\DGSL 2118, 2122, 2124, 2127	\EGSL 2152, 2156, 2158, 2161	\evn <u>1154</u>
\Diamond 1668	\ELH <u>1229</u>	\EvnSym <u>1357</u>
\DirSet <u>2292</u>	\else 153, 155, 164, 263, 277	\evnsym 1357, 1358
\dirset 2293, 2294	\ELTL 1750	\ExecuteOptions 133
\dirsym 2292, 2294	\em 537, 550	\EXGPL 2055
\Divideetimpera 867	\EMC 1709	\EXGSL 2206
\divideetimpera 846	\EML 1662	\exists 1399, 1421,
\DLH	\empchk <u>152,</u> 158, 160,	1433, 1434, 1663, 1710,
\DMod <u>1668</u> , 1673, 1675	162, 168, 360, 473, 681, 683	1726, 1740, 1751, 1781,
\dnf	\emptyfun <u>1059</u>	1796, 1811, 1830, 1845,
\do 176, 180	\emptyrel <u>1043</u>	1860, 1937, 1945, 1954,
\dom	\emptyseq	1962, 1971, 1979, 1988,
\DontPrintSemicolon 2343 \dotcheck 835	\emptyset 1865, 1867 \endcsname 167, 168, 169, 170,	1996, 2005, 2013, 2022, 2030, 2039, 2047, 2056,
\downarrow 1053	171, 172, 173, 178, 182,	2050, 2059, 2047, 2050, 2064, 2071, 2079, 2088,
,,	111, 112, 110, 110, 102,	2001, 2011, 2010, 2000,

2096, 2105, 2113, 2122,	\fst <u>1175</u>	\ifgam@ 88, 1261
2130, 2139, 2147, 2156,	\funset 1482, 1483	\ifgrp@ 83, 1238
2164, 2173, 2181, 2190,	\FunSig	\ifhypref@ 32, 238
2198, 2207, 2215, 2360	\funsig 1479, 1480	\iflinnum@ 48, 273
\expandafter	\FunStr <u>1502</u>	\iflog@ 93, 1390
. 167, 169, 172, 177, 181	\funstr 1502, \overline{1503}	\ifmth@ 71, 901
	,	•
\ExpSpace <u>1222</u>	\funsym 1481, 1483	\ifmthgen@ 59, 593
\ExpTime <u>1221</u>	\FVarSet <u>1573</u>	\ifp <u>1068</u>
\Exs 1670	\fvarset 1574, 1575	\iftab@ 120, 2334
(2112 1111 1111 1111 1111	*	
T.	\fvarsym 1573, 1575	\ifthmtls@ 24, 227
${f F}$	\FXGPL 2060, 2064, 2066	\iftxt@ 66, 834
\FAGPL 2009, 2013, 2015	\FXGSL 2211, 2215, 2217	\iftxtgen@ 53, 534
\FAGSL 2143, 2147, 2149	, ,	\ifwrpfig@ 115, 2325
\False 2351	${f G}$	
-		\iht <u>888</u>
\FBGPL 2043, 2047, 2049	\gam@false 56, 62, 88, 90	\implied <u>919</u>
\FBGSL 2177, 2181, 2183	\gam@true 89	\implies 915
\FCGPL 1975, 1979, 1981	\Game 1300	\inf <u>1162</u>
\FCGSL 2109, 2113, 2115	\GameName <u>1300</u>	\infty 1087, 1091, 1093,
\FDGPL 1992, 1996, 1998	\gamename 1300, 1301	1095, 1099, 1101, 1103,
\FDGSL 2126, 2130, 2132	\gcd <u>1164</u>	1107, 1109, 1111, 1115
\FEGPL 2026, 2030, 2032	\GFG 2246	
· · · · · · · · · · · · · · · · · · ·		\int <u>1332</u>
\FEGSL 2160, 2164, 2166	\GMC <u>1699</u>	\interdisplaylinepenalty 219
\Ff <u>1405</u>	\GML <u>1652</u>	\itr 176, 177, 178, 180, 181, 182
\ffsym $1407$ , $\overline{1408}$	\GoTo 2356	, , , , ==, = , ==
\fi 153,		K
·	\grp@false 83, 85	
155, 164, 220, 225, 231,	\grp@true 84	\kern 1066
236, 251, 256, 271, 279,	\GrpName 1240	\KrpStr 1683
280, 284, 286, 588, 829,	\grpname 1240, 1241	\krpstr 1683, 1684
	·	(MIPBUI 1000, 1001
896, 1177, 1233, 1256,	\Guess <u>2359</u>	-
1385, 2227, 2300, 2307,		${f L}$
2328, 2329, 2336, 2366	H	\LAA11 <u>1533</u>
\fig@false 110, 112	\H	\laallsym 1535, 1536
\fig@true 111		,
\fig@trije	\Hard 1204	
-		\labFun <u>1692</u>
\fix <u>1068</u>	\HstSet <u>1308</u> , <u>1906</u>	\labsym 1692, 1693
\fix <u>1068</u>	\HstSet <u>1308</u> , <u>1906</u>	\labsym 1692, 1693
\fix	\HstSet $\underline{1308}$ , $\overline{1906}$ \hstset	\labsym 1692, 1693 \LA11 1421
\fix	\HstSet	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\fix	\HstSet	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\fix	\HstSet	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix 1068 \flat 2219 \floor 1140 \FNGSL 2194, 2198, 2200 \fnttls@false 37 \fnttls@true 36	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix 1068 \flat 2219 \floor 1140 \FNGSL 2194, 2198, 2200 \fnttls@false 37 \fnttls@true 36 \FO 1464	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix 1068 \flat 2219 \floor 1140 \FNGSL 2194, 2198, 2200 \fnttls@false 37 \fnttls@true 36 \FO 1464 \FOGPL 1958, 1962, 1964 \FOGSL 2092, 2096, 2098	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\HstSet	\labsym 1692, 1693 \LA11 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\HstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 988, 991, 992, 999, 1000,  1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\HstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 988, 991, 992, 999, 1000,  1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151 \lcm 1164
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\HstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 988, 991, 992, 999, 1000,  1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151 \lcm 1164 \LCoi 1417
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\HstSet	$\begin{tabular}{ll} $ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\HstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 988, 991, 992, 999, 1000,  1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151 \lcm 1164 \LCoi 1417
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 987,
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 987, 988, 991, 992, 999, 1000, 1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151 \lcm 1164 \LCoi 1149, 1151 \lcoimp 912 \lcoisym 1419, 1420 \LCon 1413 \lconsym 1413, 1414
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 987, 988, 991, 992, 999, 1000, 1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151 \lcm 1164 \LCoi 1149, 1151 \lcoimp 912 \lcoisym 1419, 1420 \LCon 1413 \lconsym 1413, 1414
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix	\HstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix	\HstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LA11
\fix	\hstSet	\labsym 1692, 1693 \LA11
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 987,  988, 991, 992, 999, 1000,  1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1419, 1151 \lcm 1419, 1151 \lcm 1417 \lcoimp 912 \lcoisym 1419, 1420 \LCoi 1417 \lcoimp 912 \lcoisym 1413, 1414 \LDis 1413, 1414 \LDis 1413, 1414 \LDis 1413, 1414 \LDis 1513, 1533 \leexssym 1533, 1534 \left 427, 451, 940, 963,  967, 971, 975, 979, 983,  987, 991, 995, 999, 1003,  1007, 1015, 1023, 1031,  1037, 1131, 1137, 1143,  1149, 1172, 1681, 1867
\fix \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\hstSet	\labsym 1692, 1693 \LAll 1 1421 \lallsym 1423, 1424 \Lambda 2293 \lambda 1692 \land 1413 \Lang 2277 \langle 987, 988, 991, 992, 999, 1000, 1003, 1004, 1675, 1865 \LaTex 757, 766 \lbrace 1015, 1017, 1023, 1025 \lceil 1149, 1151 \lcm 1149, 1151 \lcoimp 912 \lcoisym 1419, 1420 \LCoi 1417 \lcoimp 912 \lcoisym 1413, 1414 \LDis 1413, 1414 \LDis 1413, 1414 \LDis 1533, 1534 \left 1427, 451, 940, 963, 967, 971, 975, 979, 983, 987, 991, 995, 999, 1003, 1007, 1015, 1023, 1031, 1037, 1131, 1137, 1143,

\leftrightarrow 913, 1419	\min <u>1158</u>	\mthstyfrm 788
\len <u>1169</u>	\MinSym <u>1376</u>	\mthstyfun 700
\Let 2350	\minsym 1378, 1379	\mthstylbop 761
\let $1761, 1762, \overline{1763}$	\ML 1652	\mthstylrel 768
\LExs <u>1421</u>	\models 929, 931	\mthstyluop 759
\lexssym 1421, 1422	• /	
,	\movFun	
\lfloor 1143, 1145	\MovRel <u>1298</u>	\mthstyname 596
\lift <u>1336</u>	\movRel <u>1897</u>	\mthstyrel 686
\LImp <u>1417</u>	\movrel 1298, 1299	\mthstyset 666
\limp <u>910</u>	\movsym 1897, 1898, 1899	\mthstysig 638
\limpsym 1417, 1418	\MPL 1639, 1644, 1648	\mthstysnt 774
\linenumbers 276, 278	\MSO 1558, 1565, 1571	\mthstystr 652
\linnum@false 48	\MSOL 1556, 1563, 1569	\mthstysym 714
\linnum@true 49		\mthstyvec 817
\llbracket 940, 942	\mth 475, 940, 942, 945, 947,	\mthsubsup 415, 417, 472
\llcorner 1065	949, 951, 955, 957, 959,	\mthsym 712
•	960, 963, 964, 967, 968,	<u> </u>
\LNeg <u>1409</u>	971, 972, 975, 976, 979,	\mthvec <u>815</u>
\lnegsym 1409, 1410	980, 983, 984, 987, 988,	\MTL 1593, 1598, 1602
\LNot <u>1409</u>	991, 992, 995, 996, 999,	\mu 1700
\lnotsym 1411, 1412	1000, 1003, 1004, 1007,	\Mutatismutandis 871
\log@false $56, 62, 93, 95$	1008, 1015, 1017, 1023,	\mutatismutandis $854$
\log@true 94	1025, 1031, 1033, 1037,	
\LogSig 1403		${f N}$
\logsig 1403, 1404	1039, 1041, 1044, 1060,	\naif 879
\LogSpace	1118, 1120, 1122, 1124,	\naive
<u> </u>	1126, 1131, 1133, 1137,	\neg 1409
\LogStr <u>1447</u>	1139, 1143, 1145, 1149,	_
\logstr 1447, 1448	1151, 1168, 1172, 1174,	\newif 11,
\LogTime <u>1215</u>	1227, 1228, 1229, 1230,	16, 20, 24, 28, 32, 36,
\lor 1415	1231, 1232, 1673, 1675,	40, 44, 48, 53, 59, 66,
\lowercase 681, 683	1679, 1681, 1865, 1867	71, 77, 83, 88, 93, 98,
\lst <u>1175</u>	\mth@false 62, 71, 73	104, 110, 115, 120, 126, 137
\LTL 1733	\mth@true	\newmth \dots \frac{412}{2},
	\mithetrue	
\1Vert 1137, 1139		421, 423, 427, 429, 451, 453
\lvert 1137, 1139	\mtharg 477	421, 423, 427, 429, 451, 453 \newmtharg 424, 433, 435, 439, 441
\lvert 1037, 1039,		\newmtharg $424$ , $433$ , $435$ , $439$ , $441$
	\mtharg 477	\newmtharg $\underline{424}$ , $433$ , $435$ , $439$ , $441$ \newmthargsty $\underline{430}$ , $478$ , $493$
\lvert 1037, 1039, 1131, 1133, 1172, 1174	$\label{eq:model} $$ \mbox{ mtharg } \dots  \frac{477}{622} $$$	$\label{eq:linear_problem} $$ \operatorname{\underline{424}}, 433, 435, 439, 441 $$ \operatorname{\underline{430}}, 478, 493 $$ \operatorname{\underline{436}}, 445, 447 $$$
\lvert 1037, 1039, 1131, 1133, 1172, 1174 M	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\lambda vert \dots 1037, 1039, \\ 1131, 1133, 1172, 1174 \text{M} \text{Macro} \dots \dots \frac{2347}{2}	$\begin{array}{cccc} \text{\color mtharg} & & \underline{477} \\ \text{\color mthcls} & & \underline{622} \\ \text{\color mthelm} & & \underline{726} \\ \text{\color mthfam} & & \underline{608} \\ \text{\color mthfrm} & & & \underline{786} \\ \end{array}$	$\label{eq:linear_sty} $$\operatorname{433}, 435, 439, 441$$ \\ \operatorname{lowmthargsty} $$\frac{430}{478}, 478, 493$$ \\ \operatorname{lowmthoarg} $$\frac{436}{445}, 445, 447$$ \\ \operatorname{lowmthoargsty} $$\frac{442}{480}, 480, 496$$ \\ \operatorname{lowmthopar} $$\frac{460}{469}, 471$$$
\lvert 1037, 1039, 1131, 1133, 1172, 1174 M \Macro 2347 \mathaccent 955	\mtharg       477         \mthcls       622         \mthelm       726         \mthfam       608         \mthfrm       786         \mthfun       698	$\label{eq:linear_problem} $$ \operatorname{\frac{424}}, 433, 435, 439, 441 $$ \operatorname{lowmthargsty} \dots \frac{430}{436}, 478, 493 $$ \operatorname{lowmthoargsty} \dots \frac{436}{445}, 445, 447 $$ \operatorname{lowmthoargsty} \dots \frac{460}{460}, 469, 471 $$ \operatorname{lowmthoparsty} \dots \frac{466}{466}, 484, 502 $$$
\lvert 1037, 1039, 1131, 1133, 1172, 1174 M \Macro 2347 \mathaccent 955 \mathbbo 291	$\begin{array}{cccc} \text{\colored} & & 477 \\ \text{\colored} & & 622 \\ \text{\colored} & & 726 \\ \text{\colored} & & 608 \\ \text{\colored} & & 786 \\ \text{\colored} & & 698 \\ \text{\colored} & & 59,62 \\ \end{array}$	$\label{eq:linear_problem} $$ \operatorname{\frac{424}, 433, 435, 439, 441}$ \\ \operatorname{lemmthargsty}  .  \underline{430, 478, 493} \\ \operatorname{lemmthoarg}  .  .  \underline{436, 445, 447} \\ \operatorname{lemmthoargsty}  .  \underline{442, 480, 496} \\ \operatorname{lemmthopar}  .  .  .  \underline{460, 469, 471} \\ \operatorname{lemmthoparsty}  .  .  \underline{466, 484, 502} \\ \operatorname{lemmthopar}  \underline{448, 457, 459, 463, 465} \\ $$$
\lvert 1037, 1039, 1131, 1133, 1172, 1174 M \Macro 2347 \mathaccent 955	\mtharg       477         \mthcls       622         \mthelm       726         \mthfam       608         \mthfrm       786         \mthfun       698         \mthgen@false       59,62         \mthgen@true	$\label{eq:linear_problem} $$ \operatorname{424}, 433, 435, 439, 441 $$ \operatorname{lowmthargsty} \ . \ \underline{430}, 478, 493 $$ \operatorname{lowmthoarg} \ . \ . \ \underline{436}, 445, 447 $$ \operatorname{lowmthoargsty} \ . \ \underline{442}, 480, 496 $$ \operatorname{lowmthopar} \ . \ . \ . \ \underline{460}, 469, 471 $$ \operatorname{lowmthoparsty} \ . \ \underline{466}, 484, 502 $$ \operatorname{lowmthopar} \ \underline{448}, 457, 459, 463, 465 $$ \operatorname{lowmthoarsty} \ . \ . \ \underline{454}, 482, 499 $$$
\lvert 1037, 1039, 1131, 1133, 1172, 1174 M \Macro 2347 \mathaccent 955 \mathbbo 291	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_problem} $$ \operatorname{\frac{424}, 433, 435, 439, 441}$ \\ \operatorname{lemmthargsty}  .  \underline{430, 478, 493} \\ \operatorname{lemmthoarg}  .  .  \underline{436, 445, 447} \\ \operatorname{lemmthoargsty}  .  \underline{442, 480, 496} \\ \operatorname{lemmthopar}  .  .  .  \underline{460, 469, 471} \\ \operatorname{lemmthoparsty}  .  .  \underline{466, 484, 502} \\ \operatorname{lemmthopar}  \underline{448, 457, 459, 463, 465} \\ $$$
\lvert 1037, 1039, \\ 1131, 1133, 1172, 1174  M \Macro 2347 \\ mathaccent 955 \\ mathbbo 291 \\ mathbin 761	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_problem} $$ \operatorname{424}, 433, 435, 439, 441 $$ \operatorname{lowmthargsty} \ . \ \underline{430}, 478, 493 $$ \operatorname{lowmthoarg} \ . \ . \ \underline{436}, 445, 447 $$ \operatorname{lowmthoargsty} \ . \ \underline{442}, 480, 496 $$ \operatorname{lowmthopar} \ . \ . \ . \ \underline{460}, 469, 471 $$ \operatorname{lowmthoparsty} \ . \ \underline{466}, 484, 502 $$ \operatorname{lowmthopar} \ \underline{448}, 457, 459, 463, 465 $$ \operatorname{lowmthoarsty} \ . \ . \ \underline{454}, 482, 499 $$$
\lvert 1037, 1039, \\ 1131, 1133, 1172, 1174  M \Macro 2347 \\ mathaccent 955 \\ mathbbo 291 \\ mathbin 761 \\ mathcal 596	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_property} $$ \begin{array}{l} \  \   & 434,  433,  435,  439,  441 \\ \  \   & 430,  478,  493 \\ \  \   & 436,  445,  447 \\ \  \   & 436,  445,  447 \\ \  \   & 42,  480,  496 \\ \  \   & 460,  469,  471 \\ \  \   & 460,  469,  471 \\ \  \   & 466,  484,  502 \\ \  \   & 466,  484,  502 \\ \  \   & 466,  482,  499 \\ \  \   & 482,  499 \\ \  \   & 482,  499 \\ \  \   & 482,  490 \\ \  \   & 482,  482,  490 \\ \  \   & 482,  482,  490 \\ \  \   & 482, $
\lvert 1037, 1039, \\ 1131, 1133, 1172, 1174 \text{M} \text{Macro 2347} \\ \text{mathaccent 955} \\ \text{mathbbo 291} \\ \text{mathcal 596} \\ \text{matheus 292, 624} \\ \text{mathfrak 652}	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_property} $$ \begin{array}{l} \  \   & 434, 433, 435, 439, 441 \\ \  \   & 430, 478, 493 \\ \  \   & 436, 445, 447 \\ \  \   & 436, 445, 447 \\ \  \   & 42, 480, 496 \\ \  \   & 460, 469, 471 \\ \  \   & 460, 469, 471 \\ \  \   & 466, 484, 502 \\ \  \   & 466, 484, 502 \\ \  \   & 487, 459, 463, 465 \\ \  \   & 482, 499 \\ \  \   & 482, 499 \\ \  \   & 482, 499 \\ \  \   & 482, 490 \\ \  \   & 482$
\lvert 1037, 1039, \\ 1131, 1133, 1172, 1174 \) \text{M} \text{Macro 2347} \\ \text{mathaccent 955} \\ \text{mathbbo 291} \\ \text{mathcal 596} \\ \text{matheus 292, 624} \\ \text{mathfrak 652} \\ \text{mathit 686, 788, 817}	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_property} $$ \ \ \frac{430}{478}, 439, 441 $$ \ \ \ \ \frac{430}{478}, 493 $$ \ \ \ \ \ \frac{436}{445}, 445, 447 $$ \ \ \ \ \ \frac{436}{490}, 445, 447 $$ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
Name	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_sty} $$\operatorname{433}, 435, 439, 441$$\\ \operatorname{lemmthargsty} $$ . $$ $\frac{430}{45}, 445, 447$$\\ \operatorname{lemmthoargsty} $$ . $$ $\frac{442}{480}, 496$$\\ \operatorname{lemmthopar} $$ . $$ . $$ $\frac{460}{469}, 471$$\\ \operatorname{lemmthoparsty} $$ . $$ $\frac{466}{484}, 502$$\\ \operatorname{lemmthopar} $$ . $$ $\frac{454}{457}, 459, 463, 465$$\\ \operatorname{lemmthoparsty} $$ . $$ $\frac{454}{482}, 499$$\\ \operatorname{lemmthoparsty} $$ . $$ $\frac{454}{48}, 476, 490$$\\ \operatorname{lemmthoparsty} $$ . $$ . $$ $\frac{418}{48}, 476, 490$$\\ \operatorname{lemmthoparsty} $$ . $$ . $$ $\frac{299}{308}, 310, 314, 316, 338, 340$$\\ \operatorname{lemmtxtarg} $$ $\frac{311}{320}, 322, 326, 328$\\ \operatorname{lemmtxtargsty} $$ $\frac{317}{365}, 383, 384$$\\$
Name       1037, 1039, 1174         M       1131, 1133, 1172, 1174         M       Macro         Nathaccent       955         Nathbbo       291         Nathbin       761         Nathcal       596         Natheus       292, 624         Nathfrak       652         Nathit       686, 788, 817         Nathnormal       728         Nathop       759	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_property} $$\operatorname{433}, 435, 439, 441$$\\ \operatorname{lewmthargsty} $$\frac{430}{436}, 445, 447$$\\ \operatorname{lewmthoargsty} $$\frac{436}{445}, 445, 447$$\\ \operatorname{lewmthoargsty} $$\frac{460}{469}, 471$$\\ \operatorname{lewmthoparsty} $$\frac{466}{45}, 484, 502$$\\ \operatorname{lewmthpar} $\frac{448}{457}, 459, 463, 465$$\\ \operatorname{lewmthparsty} $$\frac{454}{454}, 482, 499$$\\ \operatorname{lewmthsty} $$\frac{418}{476}, 490$$\\ \operatorname{lewmth}  $$\frac{308}{310}, 314, 316, 338, 340$$\\ \operatorname{lewtxtarg} $\frac{311}{320}, 322, 326, 328$$\\ \operatorname{lewtxtargsty} $\frac{317}{365}, 383, 384$\\ \operatorname{lewtxtoarg} $$\frac{323}{332}, 332, 334$$\\ }$
Name       1037, 1039, 1172, 1174         M       M         Macro       2347         Mathaccent       955         Mathbin       761         Mathcal       596         Matheus       292, 624         Mathfrak       652         Mathit       686, 788, 817         Mathnormal       728         Mathop       759         Mathpzc       293, 638	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_sty} $$\operatorname{433}, 435, 439, 441$$\\ \operatorname{lnewmthargsty} $$ . $$ $\frac{430}{45}, 445, 447$$\\ \operatorname{lnewmthoargsty} $$ . $\frac{436}{445}, 447$$\\ \operatorname{lnewmthoargsty} $$ . $\frac{442}{480}, 496$$\\ \operatorname{lnewmthoparsty} $$ . $\frac{460}{469}, 471$$\\ \operatorname{lnewmthoparsty} $$ . $\frac{466}{45}, 484, 502$$\\ \operatorname{lnewmthpar} $\frac{448}{457}, 459, 463, 465$$\\ \operatorname{lnewmthparsty} $$ . $\frac{454}{454}, 482, 499$$\\ \operatorname{lnewmthsty} $$ . $$ . $\frac{418}{476}, 490$$\\ \operatorname{lnewtxt} $$ . $$ . $\frac{299}{308}, 310, 314, 316, 338, 340$$\\ \operatorname{lnewtxtarg} $\frac{311}{320}, 322, 326, 328$$\\ \operatorname{lnewtxtargsty} $\frac{317}{365}, 383, 384$\\ \operatorname{lnewtxtoargsty} $\frac{323}{329}, 367, 388, 389$$\\$
Name       1037, 1039, 1172, 1174         M       M         Macro       2347         Mathaccent       955         Mathbin       761         Mathcal       596         Matheus       292, 624         Mathfrak       652         Mathit       686, 788, 817         Mathnormal       728         Mathop       759         Mathpzc       293, 638         Mathrel       768, 1065	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_constraints} \begin{array}{l} \label{linear_constraints} \text{ \( \)} & \text{lowmthargsty} \  \   . \  \   & \text{lowmthoargsty} \  \   & \text{lowmthoargsty} \  \   & \text{lowmthoargsty} \  \   & \text{lowmthoargsty} \  \   & \text{lowmthopar} \  \  \  \   & \text{lowmthoparsty} \  \   & \text{lowmthoparsty} \  \   & \text{lowmthoarsty} \  \   & \text{lowmthoarsty} \  \   & \text{lowmthoarsty} \  \   & \text{lowmthoarsty} \  \  \   & \text{lowmthoarsty} \  \  $
Name	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_sty} $$\operatorname{433}, 435, 439, 441$$\\ \operatorname{lewmthargsty} $$ . $$ $\frac{430}{45}, 445, 447$$\\ \operatorname{lewmthoargsty} $$ . $$ $\frac{442}{480}, 496$$\\ \operatorname{lewmthopar} $$ . $$ . $\frac{460}{469}, 469, 471$$\\ \operatorname{lewmthoparsty} $$ . $\frac{466}{484}, 502$$\\ \operatorname{lewmthpar} $\frac{448}{457}, 459, 463, 465$$\\ \operatorname{lewmthparsty} $$ . $\frac{454}{482}, 482, 499$$\\ \operatorname{lewmthsty} $$ . $$ . $\frac{418}{476}, 490$$\\ \operatorname{lewmthsty} $$ . $$ . $\frac{299}{308}, 310, 314, 316, 338, 340$$\\ \operatorname{lewtxtarg} $\frac{311}{320}, 322, 326, 328$$\\ \operatorname{lewtxtargsty} $\frac{317}{365}, 365, 383, 384$$\\ \operatorname{lewtxtoargsty} $\frac{329}{367}, 388, 389$\\ \operatorname{lewtxtoparsty} $\frac{329}{353}, 371, 398, 399$$\\ \\ \operatorname{lewtxtoparsty} $\frac{353}{371}, 398, 399$$\\ }$
Name	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\label{eq:linear_sty} $$\operatorname{433}, 435, 439, 441$$\\ \operatorname{lewmthargsty} $$ . $$ $\frac{430}{45}, 445, 447$$\\ \operatorname{lewmthoargsty} $$ . $$ $\frac{442}{480}, 496$$\\ \operatorname{lewmthopar} $$ . $$ . $\frac{460}{469}, 469, 471$$\\ \operatorname{lewmthoparsty} $$ . $\frac{466}{484}, 502$$\\ \operatorname{lewmthpar} $\frac{448}{457}, 459, 463, 465$$\\ \operatorname{lewmthparsty} $$ . $\frac{454}{482}, 482, 499$$\\ \operatorname{lewmthsty} $$ . $$ . $\frac{418}{476}, 490$$\\ \operatorname{lewmthsty} $$ . $$ . $\frac{299}{308}, 310, 314, 316, 338, 340$$\\ \operatorname{lewtxtarg} $\frac{311}{320}, 322, 326, 328$$\\ \operatorname{lewtxtargsty} $\frac{317}{365}, 365, 383, 384$$\\ \operatorname{lewtxtoargsty} $\frac{329}{367}, 388, 389$\\ \operatorname{lewtxtoparsty} $\frac{329}{353}, 371, 398, 399$$\\ \\ \operatorname{lewtxtoparsty} $\frac{353}{371}, 398, 399$$\\ }$
Name	\mtharg  \frac{477} \mthcls  \frac{622} \mthelm  \frac{726} \mthfam  \frac{608} \mthfam  \frac{608} \mthfrm  \frac{698} \mthfrm  \frac{698} \mthgen@false  59, 62 \mthgen@false  59, 62 \mthgen@true  \frac{60, 72, 84, 89, 94, 99} \mthlbop  \frac{905, 906, 908, 911, 913, 1053, 1055, 1057} \mthlrel  \frac{766, 916, 918, 920, 922, 924, 926, 929, 931, 933, 935} \mthluop  \frac{757} \mthmat  \frac{801} \mthname  \frac{594} \mthoarg  \mthoarg  \frac{479} \mthopar  \frac{483} \mthpar  \frac{481} \end{481}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name	\mtharg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477} \mthcls  \frac{622} \mthelm  \frac{726} \mthfam  \frac{608} \mthfam  \frac{608} \mthfrm  \frac{698} \mthfrm  \frac{698} \mthgen@false  59, 62 \mthgen@false  59, 62 \mthgen@true  \frac{60, 72, 84, 89, 94, 99} \mthlbop  \frac{905, 906, 908, 911, 913, 1053, 1055, 1057} \mthlrel  \frac{766, 916, 918, 920, 922, 924, 926, 929, 931, 933, 935} \mthluop  \frac{757} \mthmat  \frac{801} \mthname  \frac{594} \mthoarg  \mthoarg  \frac{479} \mthopar  \frac{483} \mthpar  \frac{481} \end{481}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name       1037, 1039, 1172, 1174         M       M         Macro       2347         Mathaccent       955         Mathbbo       291         Mathbin       761         Matheus       292, 624         Mathit       686, 788, 817         Mathnormal       728         Mathop       759         Mathpzc       293, 638         Mathring       947         Mathrm       666         Mathrsc       294, 610         Mathsf       700, 774, 803         Matht       714         Max       1158	\mtharg  \frac{477} \mthcls  \frac{622} \mthelm  \frac{726} \mthfam  \frac{608} \mthfam  \frac{608} \mthfrm  \frac{698} \mthfrm  \frac{698} \mthgen@false  59, 62 \mthgen@false  59, 62 \mthgen@true  \frac{60, 72, 84, 89, 94, 99} \mthlbop  \frac{905, 906, 908, 911, 913, 1053, 1055, 1057} \mthlrel  \frac{766, 916, 918, 920, 922, 924, 926, 929, 931, 933, 935} \mthluop  \frac{757} \mthmat  \frac{801} \mthname  \frac{594} \mthoarg  \mthoarg  \frac{479} \mthopar  \frac{481} \mthrel  \mthrel  \frac{684} \end{4}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name	\text{mtharg} \frac{477}{\text{mthcls}} \frac{622}{\text{mthelm}} \frac{726}{\text{oos}} \text{mthelm} \frac{726}{\text{oos}} \text{mthfam} \frac{608}{\text{oos}} \text{mthfrm} \frac{786}{\text{oos}} \text{mthfun} \frac{698}{\text{oos}} \text{mthgen@false} \frac{59}{\text{oos}} \frac{62}{\text{mthgen@false}} \frac{59}{\text{oos}} \frac{698}{\text{oos}} \text{mthgen@false} \frac{59}{\text{oos}} \frac{92}{\text{oos}} \text{oos} \text{oos} \text{oos} \frac{92}{\text{oos}} \text{oos}	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477} \mthcls  \frac{622} \mthelm  \frac{726} \mthfam  \frac{608} \mthfam  \frac{608} \mthfrm  \frac{608} \mthfrm  \frac{698} \mthfrm  \frac{698} \mthgen@false  \frac{59}{62} \mthgen@false  \frac{59}{62} \mthgen@false  \frac{60}{72}, 84, 89, 94, 99 \mthlbop  \frac{905}{906}, 908,  \frac{911}{913}, 1053, 1055, 1057 \mthlrel  \frac{766} \text{916}, 918, 920, 922,  \frac{924}{924}, 926, 929, 931, 933, 935 \mthluop  \frac{757} \mthmat  \frac{801} \mthname  \frac{594} \mthoarg  \mthoarg  \frac{479} \mthopar  \mthopar  \frac{483} \mthpar  \mthrel  \frac{664}  \text{1081}, 1083, 1085,  \mthset \frac{664}  \text{1081}, 1083, 1085,   \text{1089}, 1097, 1105, 1113 \mthsig  \frac{636} \end{a}	\newmtharg \(\frac{424}{433}\), \(435\), \(439\), \(441\) \newmthargsty \(.\frac{430}{436}\), \(478\), \(493\) \newmthoarg \(\frac{436}{436}\), \(445\), \(447\) \newmthoargsty \(\frac{442}{480}\), \(496\) \newmthopar \(\frac{460}{466}\), \(484\), \(502\) \newmthoparsty \(\frac{466}{466}\), \(484\), \(502\) \newmthparsty \(\frac{454}{482}\), \(499\) \newmthparsty \(\frac{454}{482}\), \(499\) \newmthsty \(\frac{418}{418}\), \(476\), \(490\) \newtxt \(\frac{299}{308}\), \(310\), \(314\), \(316\), \(338\), \(340\) \newtxtarg \(311\), \(320\), \(322\), \(326\), \(328\) \newtxtargsty \(\frac{311}{317}\), \(365\), \(383\), \(384\) \newtxtoarg \(\frac{323}{332}\), \(332\), \(334\) \newtxtopar \(\frac{323}{353}\), \(371\), \(398\), \(399\) \newtxtopar \(\frac{347}{356}\), \(352\) \newtxtpar \(\frac{335}{344}\), \(369\), \(393\), \(394\) \newtxtsty \(\frac{305}{363}\), \(378\), \(379\) \newtxtsty \(\frac{2186}{2190}\), \(2192\), \(2195\) \nlr \(\frac{2363}{2365}\) \noexpand \(\frac{2365}{178}\)
Name	\mtharg  \frac{477}{\mthcls}  \frac{622}{\mthelm}  \frac{622}{\mthelm}  \frac{608}{\mthfam}  \frac{608}{\mthfrm}  \frac{608}{\mthfrm}  \frac{698}{\mthgen@false}  59, 62}{\mthgen@false}  59, 62}{\mthgen@false}  \frac{60}{\mthgen@false}  59, 92,  \frac{60}{\mthgen@false}  99, 90, 906, 908,  \frac{911}{\mthlbop}  \frac{905}{\mthlbop}  \frac{905}{\mthllop}  \frac{905}{\mthllop}  \frac{916}{\mthlop}  \frac{918}{\mthlop}  \frac{922}{\mthlop}  \frac{924}{\mthlop}  \frac{929}{\mthlop}  \frac{931}{\mthlop}  \frac{481}{\mthrop}  \frac{481}{\mthrop}  \frac{481}{\mthrop}  \frac{664}{\mthrop}  \frac{1081}{\mthrop}  \frac{1113}{\mthrop}  \frac{636}{\mthrop}  \frac{636}{\mthrop}  \frac{1105}{\mthrop}  \frac{1113}{\mthrop}  \frac{636}{\mthrop}  \frac{1113}{\mthrop}  \frac{636}{\mthrop}  \frac{1105}{\mthrop}  \frac{1113}{\mthrop}  \frac{636}{\mthrop}  \frac{1113}{\mthrop}  \frac{636}{\mthrop}  \frac{1113}{\mthrop}  \frac{636}{\mthrop}  \frac{1113}{\mthrop}  \frac{112}{\mthrop}   \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \frac{112}{\mthrop}  \q	\newmtharg \(\frac{424}{433}\), \(435\), \(439\), \(441\) \newmthargsty \(.\frac{430}{436}\), \(478\), \(493\) \newmthoarg \(\frac{436}{436}\), \(445\), \(447\) \newmthoargsty \(\frac{442}{480}\), \(496\) \newmthopar \(\frac{460}{466}\), \(484\), \(502\) \newmthoparsty \(\frac{466}{466}\), \(484\), \(502\) \newmthparsty \(\frac{454}{482}\), \(499\) \newmthparsty \(\frac{454}{482}\), \(499\) \newmthsty \(\frac{418}{418}\), \(476\), \(490\) \newtxt \(\frac{299}{308}\), \(310\), \(314\), \(316\), \(338\), \(340\) \newtxtarg \(311\), \(320\), \(322\), \(326\), \(328\) \newtxtargsty \(\frac{311}{317}\), \(365\), \(383\), \(384\) \newtxtoarg \(\frac{323}{332}\), \(332\), \(334\) \newtxtopar \(\frac{323}{353}\), \(371\), \(398\), \(399\) \newtxtopar \(\frac{347}{356}\), \(352\) \newtxtpar \(335\), \(344\), \(346\), \(350\), \(352\) \newtxtpar \(335\), \(344\), \(346\), \(350\), \(352\) \newtxtsty \(\frac{305}{363}\), \(378\), \(379\) \newtxtsty \(\frac{2186}{2190}\), \(2192\), \(2195\) \nlr \(\frac{2363}{265}\) \noexpand \(\frac{1128}{2195}\)
Name	\mtharg  \frac{477} \mthcls  \frac{622} \mthelm  \frac{726} \mthfam  \frac{608} \mthfam  \frac{608} \mthfrm  \frac{608} \mthfrm  \frac{698} \mthfrm  \frac{698} \mthgen@false  59, 62 \mthgen@false  \frac{60}{72}, 84, 89, 94, 99 \mthlbop  \frac{905}{906}, 908,  \frac{911}{913}, 1053, 1055, 1057 \mthlrel  \frac{766}{916}, 918, 920, 922,  \frac{924}{924}, 926, 929, 931, 933, 935 \mthluop  \frac{757}{mthmat}  \frac{801}{mthoarg}  \frac{479}{mthopar}  \frac{483}{mthopar}  \mthrel  \frac{664}{481} \mthrel  \mthset \frac{664}{64}, 1081, 1083, 1085,   1089, 1097, 1105, 1113  \mthsig  \frac{636}{486}  \mthsnt  \frac{772}{72} \mthstr  \mthstr  \frac{650}{650} \end{array}	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477}{\mthcls}  \frac{622}{\mthelm}  \frac{622}{\mthelm}  \frac{608}{\mthfam}  \frac{608}{\mthfam}  \frac{608}{\mthfrm}  \frac{698}{\mthgen@false}  59, 62}{\mthgen@false}  59, 62}{\mthgen@true}   \frac{60}{\mthgen@false}  59, 96, 908,  \text{911}, 913, 1053, 1055, 1057}{\mthlrel}  \frac{766}{\mthlrel}, 916, 918, 920, 922,  \text{924}, 926, 929, 931, 933, 935}{\mthluop}  \frac{757}{\mthmat}  \text{mthname}  \frac{801}{\mthoarg}  \frac{479}{\mthopar}  \frac{483}{\mthpar}  \mthrel  \frac{664}{\mthset}, 1081, 1083, 1085,   1089, 1097, 1105, 1113}{\mthsig}  \frac{636}{\mthset}  \mthset  \frac{636}{\mthset}  \mthset  \frac{650}{\mthset}  \mthree  \mthree \frac{650}{\mthset}  \mthree \frac{650}{\mthree}  \mthree                                 \q	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477}{\mthcls}  \frac{622}{\mthelm}  \frac{622}{\mthelm}  \frac{608}{\mthfam}  \frac{608}{608}  \mthfrm  \frac{698}{698}  \mthgen@false  59, 62  \mthgen@false  59, 62  \mthgen@false  59, 62  \mthgen@false  59, 62  \mthgen@false  59, 96, 908,  \mthlbop  \text{905}, 906, 908,  \mthlbop  \text{905}, 906, 908,  \mthlrel    \mthlrel    \mthluop   \mthluop    \mthloarg   \mthloarg   \mthloarg   \mthloarg   \mthloarg   \mthloarg	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477}{\mthcls}  \frac{622}{\mthelm}  \frac{622}{\mthelm}  \frac{608}{\mthfam}  \frac{608}{\mthfrm}  \frac{608}{\mthfrm}  \frac{698}{\mthgen@false}  59, 62}{\mthgen@true}   \frac{60}{\mthleon}  \frac{60}{\mthleon}  \frac{905}{\mthleon}  \frac{479}{\mthleon}  \frac{481}{\mthrel}  \frac{664}{\mthleon}  \frac{1081}{\mthleon}  \frac{636}{\mthleon}  \frac{645}{\mthleon}  \frac{650}{\mthleon}  \frac{476}{\mthleon}  \frac{480}{\mthleon}  \frac{484}{\mthleon}  \frac{485}{\mthleon}  \frac{476}{}  \frac{478}{}  \frac{480}{}  \frac{484}{}  \frac{485}{}  \frac{476}{}  \frac{478}{}  \frac{480}{}  \frac{484}{}  \frac{485}{}  \frac{476}{}  \frac{478}{}  \frac{480}{}   \frac{484}{}   \frac{476}{}  \frac{478}{}   \frac{480}{}   \frac{484}{}  \qu	$\begin{array}{llllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477}{\mthcls}  \frac{622}{\mthelm}  \frac{622}{\mthelm}  \frac{608}{\mthfam}  \frac{608}{608}  \mthfrm  \frac{698}{698}  \mthgen@false  59, 62  \mthgen@false  59, 62  \mthgen@false  59, 62  \mthgen@false  59, 62  \mthgen@false  59, 96, 908,  \mthlbop  \text{905}, 906, 908,  \mthlbop  \text{905}, 906, 908,  \mthlrel    \mthlrel    \mthluop   \mthluop    \mthloarg   \mthloarg   \mthloarg   \mthloarg   \mthloarg   \mthloarg	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
Name	\mtharg  \frac{477}{\mthcls}  \frac{622}{\mthelm}  \frac{622}{\mthelm}  \frac{608}{\mthfam}  \frac{608}{\mthfrm}  \frac{608}{\mthfrm}  \frac{698}{\mthgen@false}  59, 62}{\mthgen@true}   \frac{60}{\mthleon}  \frac{60}{\mthleon}  \frac{905}{\mthleon}  \frac{479}{\mthleon}  \frac{481}{\mthrel}  \frac{664}{\mthleon}  \frac{1081}{\mthleon}  \frac{636}{\mthleon}  \frac{645}{\mthleon}  \frac{650}{\mthleon}  \frac{476}{\mthleon}  \frac{480}{\mthleon}  \frac{484}{\mthleon}  \frac{485}{\mthleon}  \frac{476}{}  \frac{478}{}  \frac{480}{}  \frac{484}{}  \frac{485}{}  \frac{476}{}  \frac{478}{}  \frac{480}{}  \frac{484}{}  \frac{485}{}  \frac{476}{}  \frac{478}{}  \frac{480}{}   \frac{484}{}   \frac{476}{}  \frac{478}{}   \frac{480}{}   \frac{484}{}  \qu	$\begin{array}{llllllllllllllllllllllllllllllllllll$

0.4	1000 100% 10%0 1000	105
\notimplies 917	1293, 1295, 1878, 1880,	\relax 135
\num <u>1117</u>	1881, 1882, 1884, 1886	\relset 1495, 1496
\numcc 1119	\pow <u>1040</u>	\RelSig <u>1492</u>
\numco 1121	\pre <u>1254</u>	\relsig 1492, 1493
\numoc 1123	\prfFun <u>1327</u>	\RelStr <u>1506</u>
\numoo 1125	\PrfSet <u>1327</u> , <u>1903</u>	\relstr 1506, 1507
\nxt <u>2226</u>	\prfset . 1328, 1329, 1904, 1905	\relsym 1494, 1496
	\prfsym . 1327, 1329, 1903, 1905	\RequirePackage $.3, 5, 6, 7,$
O	\Primafacie <u>873</u>	216, 217, 218, 224, 229,
\obsFun	\primafacie <u>856</u>	230, 235, 240, 255, 270,
\ObsSet <u>1304</u>	\prj 1052	276, 278, 2313, 2327, 2342
\obsset 1304, 1305	\ProcessOptions 135	\resp <u>890</u>
\odd <u>1154</u>	\protect 377,	\rfloor 1143, 1145
\OddSym \. \. \. \. \. \. \. \. \. \. \.	382, 387, 392, 397, 405,	\rho 1918
\oddsym 1359, 1360	490, 493, 496, 499, 502, 508	\right 427, 451, 940, 963,
\odot 1432	\providecommand 1694,	967, 971, 975, 979, 983,
\OGPL 1950, 1954, 1956, 1959	1695, 1878, 1879, 1903,	987, 991, 995, 999, 1003,
\OGSL 2084, 2088, 2090, 2093		
\Omega 1074	1904, 1906, 1907, 1914,	1007, 1015, 1023, 1031,
•	1915, 1918, 1919, 1925,	1037, 1131, 1137, 1143,
\omega	1926, 2263, 2264, 2270	1149, 1172, 1681, 1867
\Omicron 1078	\prtFun <u>1361</u>	\Rightarrow 916, 918
\omicron <u>143, 1077</u>	\PrtSet <u>1361</u>	\rightarrow 911, 1417
\oplus 1376	\prtset 1362, 1363	\rightharpoonup 1063, 1066
\OppSym $\underline{1281}$ , $1294$ , $1295$ ,	\prtsym 1361, 1363	\rmfamily 373, 577
1313, 1314, 1325, 1326,	\psn <u>2224</u>	\Role <u>883</u>
1885, 1886, 1911, 1912,	\PSpace <u>1218</u>	\role <u>881</u>
1923, 1924, 1930, 1931	\pthFun <u>1250</u>	\rrbracket 940, 942
\oppsym 1283, 1284	\PthSet <u>1250</u> , <u>1694</u>	\rst <u>1054</u>
\Opr <u>1667</u>	\pthset . 1251, 1252, 1695, 1696	\rVert 1137, 1139
\out	\pthsym . 1250, 1252, 1694, 1696	\rvert 1037, 1039,
\overline 945, 957	\PTime 1217	1131, 1133, 1172, 1174
	\PTL 1733	, , ,
P	1000	6
r	\pto 1062	${f S}$
\P 1761	\pto <u>1062</u>	\S 1763
	\pto <u>1062</u> Q	
\P 1761	-	\S
\P		\s 1763
\P	Q \QAE	\S
\P	Q \QAE	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\P	Q \QAE	\S
\P 1761 \PackageWarning 131 \PDL 1767 \Percontra 872 \percontra 855 \PH 1231, 1232, 1535 \pi 1250, 1316, 1694, 1914 \PL 1581, 1933 \playFun 1316, 1914 \PL 1581, 1933 \playFun 1316, 1914 \playset 1316, 1914 \playset 1316, 1914 \playset 1316, 1914 \playset 1318, 1915, 1916 \playsym 1316, 1318, 1915, 1916 \playsym 1316, 1318, 1914, 1916 \PlnSet 1918 \plnset 1919, 1920, 1921, 1923 \plnsym 1918, 1920, 1922, 1924 \PlrFun 1296, 1297 \PlrSym 1281, 1292, 1293,	Q \QAE	\S
\P	Q \QAE	\S
\P 1761 \PackageWarning 131 \PDL 1767 \Percontra 872 \percontra 855 \PH 1231, 1232, 1535 \pi 1250, 1316, 1694, 1914 \PL 1581, 1933 \playFun 1316, 1914 \PL 1581, 1933 \playFun 1316, 1914 \playset 1316, 1914 \playset 1316, 1914 \playset 1316, 1914 \playset 1318, 1915, 1916 \playsym 1316, 1318, 1915, 1916 \playsym 1316, 1318, 1914, 1916 \PlnSet 1918 \plnset 1919, 1920, 1921, 1923 \plnsym 1918, 1920, 1922, 1924 \PlrFun 1296, 1297 \PlrSym 1281, 1292, 1293,	Q \QAE	\S
\P	Q \QAE	\S \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\P	Q \QAE	\S

\seteq <u>903</u>	\symset 2261, 2262	1644, 1648, 1657, 1661,
\SetF <u>1082</u>	\symsym 2260, 2262	1704, 1708, 1716, 1720,
\SetInd 2344		1724, 1738, 1749, 1775,
\SetKw 2346, 2351, 2352, 2353,	${f T}$	1779, 1790, 1794, 1805,
2354, 2355, 2356, 2357,	\tab@false 120, 122	1809, 1824, 1828, 1839,
	\tab@true	1843, 1854, 1858, 1942,
2358, 2359, 2360, 2361	\tau 1897	
\SetKwFor 2347, 2348, 2349, 2350		1959, 1976, 1993, 2010,
\SetKwIF 2362	\TAutSet 2290	2027, 2044, 2061, 2076,
\setl 1018	\tautset 2290, 2291	2093, 2110, 2127, 2144,
\setlength 2345	\terset 1489, 1490	2161, 2178, 2195, 2212
\setlx 1020	\TerSig <u>1486</u>	\txtoarg 366
\SetN 1084	\tersig 1486, 1487	\txtoargcom 1184, 1200
\SetNI 1086	\TerStr 1504	\txtopar 370
	\terstr $\dots 1504, \overline{1505}$	\txtoparcom 1202
\SetQ <u>1096</u>	\tersym 1488, 1490	\txtpar 368
\SetQI 1098	\text 302, 360, 905, 2222	· · ·
\SetQNI 1102		\txtsty
\SetQPI 1100	\textstyle 759, 761	363, 365, 367, 369, 371, <u>372</u>
\SetR <u>1104</u>	\textup 905	\txtstyabr 550
\setr 1026	\thestring 680, 681, 682, 683	\txtstycom 577
\SetRI 1106	\Theta 1076	\txtstydef 537
\SetRNI 1110	\theta 1075	\txtstyname 564
\SetRPI 1108	\thmtls@false 25	\txtsubsup 302, 304, 359
	\thmtls@true 24	• , , —
\setrx 1028	\tikzstyle 2315,	${f U}$
\setx 1012	2317, 2319, 2321, 2323	\UAFMC 1727
\SetZ <u>1088</u>	\Time 1213	\UAGPL 2006
\SetZI 1090		\UAGSL
\SetZNI 1094	\TL <u>1581</u>	
\SetZPI 1092	\top 1405	\UATL 1831
\sffamily 564	\TreeSet 2296	\UATLP 1846
\Sigma 1229, 1230, 1533, 2261	\treeset 2297, 2298	\UATLS 1861
\sigma 1320, 1925, 2260	\treesym 2296, 2298	\UBF 1400
	\triangleq 906	\UBGPL 2040
\Signature 2346	\trn 950	\UBGSL 2174
\sim 1411	\trnFun <u>1900</u> , <u>2270</u>	\UBH <u>1231</u>
\skm <u>1498</u>	\mD-1 1000	
	\TrnRel 1689	\UCGPL 1972
\SL <u>2067</u>		\UCGPL
\SL	\trnRel $\underline{1900}$ , $\overline{\underline{2270}}$	\UCGSL 2106
	\trnRel $1900$ , $2270$ \trnsym $1900$ , $1901$ ,	\UCGSL
\S0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\UCGSL
\S0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812
\S0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989
\S0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123
\S0	$\begin{array}{c ccccc} \text{\trnRel} & & & & \underline{1900}, & \underline{2270} \\ \text{\trnsym} & & & & 1900, & 1901, \\ & & & & 1902, & 2270, & 2271, & 2272 \\ \text{\true} & & & & & \underline{2351} \\ \text{\true} & & & & \underline{1405}, & 1406 \\ \text{\tuple} & & & & \underline{985} \\ \end{array}$	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023
\S0	$\begin{array}{c ccccc} \text{\trnRel} & & & & & & & & \\ \hline \text{\trnsym} & & & & & & & \\ \hline & & & & & & & \\ \hline & & & &$	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGSL 2157
\S0	\trnRel 1900, 2270 \trnsym 1900, 1901,	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGSL 2157 \UFAGPL 2014
\S0	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSI 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2157 \UFAGPL 2014 \UFAGSL 2148
\S0	\trnRel 1900, 2270 \trnsym 1900, 1901,	\UCGSI 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGSL 2157 \UFAGPL 2014
\S0	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSI \ 2106 \UCTL \ 1782 \UCTLP \ 1797 \UCTLS \ 1812 \UDGPL \ 1989 \UDGSI \ 2123 \UEGPL \ 2023 \UEGFL \ 2157 \UFAGPL \ 2014 \UFAGSL \ 2148
\S0	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGSL 2157 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048
\S0	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGFL 1980
\S0	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGSL 2114
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFGPL 2048 \UFGGPL 1980 \UFCGPL 1997
\S0	\trnRel \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGSL 2148 \UFBGFL 2048 \UFBGSL 2182 \UFGGPL 2048 \UFGGFL 1980 \UFGGFL 1980 \UFCGSL 2114 \UFDGFL 1997 \UFDGSL 2131
\S0	\trnRel       \frac{1900}{2270}         \trnsym       1900, 1901,         1902, 2270, 2271, 2272         \true       \frac{2351}{2351}         \tt       \frac{1405}{1406}         \ttsym       1405, 1406         \tuple       \frac{985}{989}         \tupler       993         \tuplex       997         \tuplexl       1001         \tuplexr       1005         \txt       \frac{362}{362}         \txt@false       56, 66, 68         \txt@true       67         \txtabr       \frac{548}{264}         \txtarg       \frac{362}{364}	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGSL 2157 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFGGPL 1980 \UFGGSL 2114 \UFCGSL 2114 \UFCGSL 2114 \UFCGSL 2114 \UFDGPL 2031 \UFGGSL 2131 \UFEGPL 2031
\S0	\trnRel	\UCGSI
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSIL 2123 \UEGPL 2023 \UEGSI 2157 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGSL 2114 \UFCGSL 2114 \UFCGSL 2114 \UFCGSL 2131 \UFCGSL 2031 \UFCGSL 2031 \UFCGSL 2165 \UFNGSL 2199
\S0	\trnRel       \frac{1900}{2270}         \trnsym       1900, 1901,         1902, 2270, 2271, 2272         \true       \frac{2351}{2351}         \tt       \frac{1405}{1406}         \ttsym       1405, 1406         \tuple       \frac{985}{989}         \tuple1       993         \tuplex       997         \tuplexl       1001         \tuplexr       1005         \txt       \frac{362}{362}         \txt\t0\true       67         \txt\dtrue       \frac{67}{48}         \txt\tom       \frac{575}{575}         \txt\tgen\text{\text}\frac{35}{160}	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGSL 2157 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGFL 1980 \UFCGSL 2114 \UFCGSL 2114 \UFDGPL 2031 \UFCGPL 2031 \UFGSL 2131 \UFEGPL 2031 \UFGSL 2165 \UFNGSL 2199 \UFOGPL 1963
\S0	\trnRel	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2014 \UFAGSL 2148 \UFBGSL 2148 \UFBGSL 2182 \UFGGFL 1980 \UFGGFL 2048 \UFGGFL 2048 \UFGGFL 2048 \UFGGFL 2182 \UFGGFL 2192 \UFGGFL 2196 \UFGGSL 2114 \UFDGSL 2131 \UFGGSL 2131 \UFGGFL 2031 \UFGGSL 2199 \UFGGFL 1963 \UFGGFL 2097
\S0	\trnRel       \frac{1900}{2270}         \trnsym       1900, 1901,         1902, 2270, 2271, 2272         \true       \frac{2351}{2351}         \tt       \frac{1405}{1406}         \ttsym       1405, 1406         \tuple       \frac{985}{989}         \tuple1       993         \tuplex       997         \tuplexl       1001         \tuplexr       1005         \txt       \frac{362}{362}         \txt\t0\true       67         \txt\dtrue       \frac{67}{48}         \txt\tom       \frac{575}{575}         \txt\tgen\text{\text}\frac{35}{160}	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2014 \UFAGSL 2148 \UFBGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGFL 1997 \UFCGSL 2114 \UFDGSL 2114 \UFDGSL 2131 \UFCGFL 2031 \UFCGFL 2031 \UFCGSL 2199 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1966
\S0	\trnRel	\UCGSL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2014 \UFAGSL 2148 \UFBGSL 2148 \UFBGSL 2182 \UFGGFL 1980 \UFGGFL 2048 \UFGGFL 2048 \UFGGFL 2048 \UFGGFL 2182 \UFGGFL 2192 \UFGGFL 2196 \UFGGSL 2114 \UFDGSL 2131 \UFGGSL 2131 \UFGGFL 2031 \UFGGSL 2199 \UFGGFL 1963 \UFGGFL 2097
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2014 \UFAGSL 2148 \UFBGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGFL 1997 \UFCGSL 2114 \UFDGSL 2114 \UFDGSL 2131 \UFCGFL 2031 \UFCGFL 2031 \UFCGSL 2199 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1966
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGSL 2182 \UFCGPL 1980 \UFCGSL 2114 \UFDGPL 2031 \UFCGSL 2131 \UFCGSL 2131 \UFEGPL 2031 \UFFGPL 2031 \UFFGSL 2165 \UFFGSL 2199 \UFCGSL 2199 \UFCGSL 2097 \UFPL 1966
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGFL 2014 \UFAGPL 2014 \UFAGSL 2148 \UFBGPL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGFL 1980 \UFCGSL 2114 \UFDGFL 2014 \UFCGSL 2182 \UFCGPL 1980 \UFCGSL 2114 \UFDGFL 2031 \UFCGSL 2131 \UFCGFL 2031 \UFCGFL 2031 \UFCGSL 2199 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 1963 \UFCGFL 2097 \UFFL 1946 \UFSL 2080 \UFXGPL 2065
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGFL 2014 \UFAGFL 2048 \UFBGFL 2048 \UFBGFL 2182 \UFCGPL 1980 \UFCGFL 1980 \UFCGSL 2114 \UFLGFL 2014 \UFLGFL 2048
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGFL 2014 \UFAGFL 2048 \UFBGFL 2048 \UFBGSL 2182 \UFCGPL 1980 \UFCGFL 1980 \UFCGSL 2114 \UFDGFL 2014 \UFCGFL 2048 \UFCGFL 1980 \UFCGSL 2114 \UFCGFL 2031 \UFFGFL 2031
\S0	\trnRel	\UCGSIL 2106 \UCTL 1782 \UCTLP 1797 \UCTLS 1812 \UDGPL 1989 \UDGSL 2123 \UEGPL 2023 \UEGPL 2014 \UFAGFL 2014 \UFAGFL 2048 \UFBGFL 2048 \UFBGFL 2182 \UFCGPL 1980 \UFCGFL 1980 \UFCGSL 2114 \UFLGFL 2014 \UFLGFL 2048

\UNGSL 2191	\usrmthgrklet <u>522</u>	\WATLP 1838
\U0GPL 1955	\usrmthgrklow 518	\WATLS 1853
\U0GSL 2089	\usrmthgrkupp 520	\WAutSet 2258
\upharpoonright 1055	\usrmthlatlet 516	
		\wautset 2258, 2259
\UPL 1938	\usrmthlatlow	\WCL 1608
\upshape 373	\usrmthlatupp <u>514,</u> 1241,	\WCTL 1774
\UPTL 1741	1286, 1301, 1404, 1448,	\WCTLP 1789
\usetikzlibrary 2314	1467, 1474, 1480, 1487,	\WCTLS 1804
\USL	1493, 1501, 1503, 1505,	\wghFun <u>1380</u>
\usrmth . <u>506</u> , 513, 515, 517,	1507, 1684, 1871, 2255	\WghSet <u>1380</u>
519, 521, 523, 525, 527,	\usrmthlet <u>528</u> , 680, 682	\wghset 1381, 1382
529, 599, 601, 603, 605,	\usrmthlow <u>524</u>	\wghsym 1380, 1382
607, 613, 615, 617, 619,	\usrmthupp <u>526</u>	\WH 1225
621, 627, 629, 631, 633,	\usrtxt	\widehat 949
635, 641, 643, 645, 647,	$\underline{403}$ , 539, 541, 543, 545,	\widetilde 951
649, 655, 657, 659, 661,	547, 552, 554, 556, 558,	\WinSet
663, 669, 671, 673, 675,	560, 566, 568, 570, 572,	\winset 1302, 1303
677, 689, 691, 693, 695,	574, 579, 581, 583, 585, 587	
697, 703, 705, 707, 709,	\UXGPL 2057	
711, 717, 719, 721, 723,	\UXGSL 2208	\wlogx
725, 731, 733, 735, 737,		\WMCL 1620
739, 763, 765, 770, 777,	$\mathbf{V}$	\WMPL 1643
779, 781, 783, 785, 791,	\ValSet 1449	\WMSO 1564
793, 795, 797, 799, 806,	\valset 1450, 1451	\WMSOL 1562
808, 810, 812, 814, 820,	\valsym 1449, 1451	\WMTL 1597
822, 824, 826, 828, 1046,	\varcmd \frac{166}{959}, 960,	\wot <u>2299</u>
1047, 1048, 1049, 1050,	963, 964, 967, 968, 971,	\wp 1435
1068, 1069, 1070, 1071,	972, 975, 976, 979, 980,	\WPL 1631
1073, 1074, 1075, 1076,	983, 984, 987, 988, 991,	\WrdSet <u>2274</u>
		\wrdset 2275, 2276
1077, 1078, 1153, 1154,	992, 995, 996, 999, 1000,	\wrdsym 2274, 2276
1155, 1156, 1157, 1158,	1003, 1004, 1007, 1008	\WrlSet 1685
1159, 1160, 1161, 1162,	\varepsilon 1168	\wrlset 1686, 1687
1163, 1164, 1165, 1175,	\varnothing 1044, 1060	\wrlsym 1685, 1687, 1688
1176, 1253, 1254, 1255,	\varpi 1308, 1906	\wrpfig@false 116
1315, 1319, 1330, 1331,	\varset 1469, 1470	\wrpfig@true 115
1332, 1333, 1334, 1335,	\VarSig	
1336, 1337, 1406, 1408,	\varsig 1466, 1467	
1410, 1412, 1414, 1416,	\varsym 1468, 1470	\WSO 1546
1418, 1420, 1422, 1424,	\vec <u>952</u>	\WSOL 1544
1428, 1429, 1430, 1431,	\VerSet <u>1242</u>	\WTL 1585
1432, 1433, 1434, 1438,	\verset 1243, 1244	
1439, 1440, 1441, 1471,	\versym . 1242, 1244, 1245, 1246	X
1472, 1478, 1484, 1485,	\vert 1011, 1019	\X
1491, 1497, 1498, 1534,	\Viceversa <u>874</u>	\XGPL 2052, 2056, 2058, 2061
1536, 1667, 1668, 1669,	\viceversa <u>857</u>	\XGSL 2203, 2207, 2209, 2212
1697, 1755, 1756, 1757,	\viz <u>859</u>	\xi 1327, 1449, 1903
1758, 1759, 1760, 1761,	\vs	\xspace 302, 304
1762, 1763, 1764, 1815,	<del></del>	·
1816, 1913, 1917, 2223,	$\mathbf{W}$	$\mathbf{Y}$
2224, 2226, 2277, 2299	\WATL 1823	\Y