fmocdmac — FM's OCD LATEX Macro*

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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 (*package)
    Required external packages:
  3 \RequirePackage{etoolbox}
  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\ \mbox{\%\%} AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
23 %% Extended Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \verb|\DeclareOption{noenmtls}{\cline{Condition}} | \cline{Condition} | \cline{Condit
31 %% Hyper reference
32 \neq 0 
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
```

^{*}This document describes version v0.11 of the fmocdmac package, last revised 2023/01/16.

```
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\text@false\com@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\math@false\gam@false\log@false\aut@false}
63
64
65 %% Elementary macros for text
66 \newif\iftext@ \text@false
67 \DeclareOption{text}{\text@true\txtgen@true}
68 \DeclareOption{notext}{\text@false}
70 %% Elementary macros for math
71 \newif\ifmath@ \math@false
72 \DeclareOption{math}{\math@true\mthgen@true}
73 \ensuremath{$\ $\ $} \{\math@false}
75
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 games
83 \newif\ifgam@ \gam@false
84 \end{true} txtgen@true\mthgen@true\}
85 \DeclareOption{nogam}{\gam@false}
87 %% Macros for logics
88 \newif\iflog@ \log@false
89 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
90 \DeclareOption{nolog}{\log@false}
91
92 %% Macros for automata
93 \newif\ifaut@ \aut@false
94 \end{aut} {\aut@true} txtgen@true\mthgen@true}
95 \DeclareOption{noaut}{\aut@false}
96
98 %% Format-related tricks
99 \newif\iffrm@ \frm@false
```

```
100 \DeclareOption{frm}{\frm@true}
101 \DeclareOption{nofrm}{\frm@false}
102
103
104 %% Figure-related tricks
105 \neq \frac{1}{100} \fig@false
106 \DeclareOption{fig}{\fig@true}
107 \DeclareOption{nofig}{\fig@false}
108
109 %% Wrapfig package
110 \newif\ifwrpfig@ \wrpfig@true
111 \DeclareOption{nowrpfig}{\wrpfig@false}
112
113
114 %% Table-related tricks
115 \newif\iftab@ \tab@false
116 \DeclareOption{tab}{\tab@true}
117 \DeclareOption{notab}{\tab@false}
118
119
120 %% Algorithm-related tricks
121 \newif\ifalg@ \alg@false
122 \DeclareOption{alg}{\alg@true}
123 \DeclareOption{noalg}{\alg@false}
124
          Option-processing code:
125
126 \ensuremath{\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{$\mbox{$\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{
128 \ExecuteOptions{aux,txtgen,mthgen,text,math,com,gam,log,aut}%
130 \ProcessOptions\relax%
132 \ \texttt{\formula} \ \texttt{\formu
137 \ifaux@
138
139 \ifamsdef@
140 % AMS Packages
                    \RequirePackage{amsmath}
                    \RequirePackage{amssymb}
                    \RequirePackage{stmaryrd}
                    \interdisplaylinepenalty=2500
144
145\fi
146
147 \ifamsthm@
148 % AMS Theorem Tools
                \RequirePackage{amsthm}
150 \fi
151
152 \left| \text{ifthmtls@} \right|
153 % Extended Theorem Tools
154
                    \RequirePackage{thmtools, thm-restate}
155 \fi
156
157 \ifenmtls@
                    % Enumeration Tools
                    \RequirePackage{paralist}
160 \fi
161
```

```
163
                                                % Hyper References
                                 164
                                                 \RequirePackage{hyperref}
                                 165
                                                \hypersetup
                                 166
                                 167
                                                      pdfsubject
                                                                                                  = {},
                                 168
                                                      pdfkeywords
                                                                                                  = {},
                                 169
                                                      pdfproducer
                                                                                                 = {},
                                 170
                                                      pdfcreator
                                                                                                  = {},
                                 171
                                                      pdfpagemode = {UseNone},
                                 172
                                 173
                                                      pdfstartview = {FitH},
                                                                                                 = {blue},
                                 174
                                                      urlcolor
                                                      colorlinks
                                 175
                                 176
                                 177 \fi
                                 178
                                 179 \iffnttls@
                                                % Font Tools
                                                 \RequirePackage[final]{microtype}
                                 181
                                 182 \fi
                                 183
                                 184 \ifcrv@
                                               % Camera-Ready Version
                                 185
                                 186
                                                %%...
                                 187
                                 188
                                 189 \else
                                               % Draft Version
                                 190
                                 191
                                               %%...
                                 192
                                                \ifchgbar@
                                 194
                                 195
                                                      % Change Bars
                                                      \RequirePackage{changebar}
                                 196
                                                \fi
                                 197
                                 198
                                                \iflinnum@
                                 199
                                                      % Line Numbers
                                 200
                                 201
                                                       \if@twocolumn
                                 202
                                                             \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                                 203
                                                             \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                                 204
                                 205
                                                \fi
                                 206
                                 207
                                 208
                                                %%...
                                209
                                210 \fi
                                211
                                 \mathbbo Bbo Math Font: ... to do!
                                 217 \left( \mathbf{Mathbbo}_{l} \right) \\  217 \left( \mathbf{mathbbo}_{l} \right) \\ 
\matheus Eus Math Font: ... to do!
                                 218 \left\{ \mathbb{T}_{matheus} \right. \\
\mathpzc Pzc Math Font: ... to do!
                                  219 \left\{ \mathbf{T1}_{pzc}_{m}(it) \right\} \\
```

162 \ifhypref@

```
\mathscr Scr Math Font: ... to do!
          220 \left\{ \mathbf{Wathscr} { \mathbb{U} { rsfs}{m}{n} } \right\}
          \omicron Auxiliary Greek lowercase letter: ... to do!
          225 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
          226 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
          227 \texttt{Zeta}{Z} \texttt{Eta}{H} \texttt{Iota}{I} \texttt{Kappa}{K}
          228 \csdef{varKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{O}
          229 \csdef{Rho}{P} \csdef{varRho}{P} \csdef{Tau}{T} \csdef{Chi}{X}
          Emptiness check: \{A\}\{\langle B\}\}\ evaluates to the empty string, if Argument \langle A\rangle is empty,
          and to Argument \langle B \rangle, otherwise.
            • \empchk{}{B} = ""
            • \empchk{A}{B} = "B"
          234 \newcommand{\empchk}[2]
             {\left\{ if & 1 \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"
          236 \newcommand{\defval}[2]
              {\left\{ if & 1 & 2 \le 1 \le 1 \right\}}
          \alpha Left extension: \alpha \alpha 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"
          239 \newcommand{\arglef}[2]
              {\empchk{#2}{#1\allowbreak#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"
          241 \newcommand{\argrig}[2]
             {\empchk{#1}{#1\allowbreak#2}}
  \ Middle extension: \ 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"
          243 \newcommand{\argmid}[3]
             {\empchk{#2}{#1\allowbreak#2\allowbreak#3}}
```

```
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"
               245 \newcommand{\argsep}[3]
                    Variadic commands: \operatorname{Varcmd}\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\{\langle D \rangle\}\{\langle E \rangle\}\{\langle F \rangle\} \dots to do!
     \varcmd
               248 \newcommand{\varcmd}[6]
                     {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
               249
                       {\csname check#1arg\endcsname{\argsep{##1}{#4}{##2}}}%
               250
               251
                     \expandafter\newcommand\csname check#larg\endcsname[1]
               252
                       {\csname @ifnextchar\endcsname%
                         \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
               253
                     \expandafter\newcommand\csname#1\endcsname[1]
               254
                       {\csname check#1arg\endcsname{#3##1}}}
               \seqoftag Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
               257 \newcommand{\seqoftag}[3]
               258
                    {\@for\itr:={#1}\do%
               259
                       {\expandafter\csedef{\itr#2}%
                         {\noexpand\csname #3\endcsname{\itr}}}
               260
              Sequence of commands: \sqoign{A}{\langle A \rangle} {\langle A \rangle} {\langle C \rangle} \dots \text{ to do!}
   \seqofcmd
               261 \newcommand{\seqofcmd}[3]
               262
                    {\@for\itr:={#1}\do%
               263
                       {\expandafter\csedef{\itr#2}%
               264
                         {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
               \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow{\langle A \rangle}{\langle B \rangle} ... to do!
               266 \newcommand{\seqoflatlow}
                     {\left(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\right)}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               268 \newcommand{\seqoflatupp}
                     {\left(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\right)}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               270 \newcommand{\seqoflatlet}[2]
                     {\seqoflatlow{#1}{\#2}\seqoflatupp{#1}{\#2}}
               Sequence of Greek lowercase letters: \seqofgrklow{\langle A \rangle}{\langle B \rangle} ... to do!
\seqofgrklow
               273 \newcommand{\seqofgrklow}
                     {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
               275
                     iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
               276
                     varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
              Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\}\ ... to do!
\seqofgrkupp
               277 \newcommand{\seqofgrkupp}
               278
                     {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
               279
                     Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
               280
                     varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
```

```
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   281 \newcommand{\seqofgrklet}[2]
                                             {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
                                   \seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
                                   284 \newcommand{\seqoflow}[2]
                                            {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
        \seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   286 \newcommand{\seqofupp}[2]
                                             {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
        \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   288 \newcommand{\seqoflet}[2]
                                             {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
                                   \newtxt ... to do!
                                        • \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"
                                   294 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
                                              {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
      \newtxtsty ... to do!
                                        • \newtxtsty{\rmfamily}{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                        • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                         • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                   296 \newcommandx{\newtxtsty}[2][2=]
                                             {\newtxt[\defval{#2}{#1}]}
      \newtxtarg ... to do!
                                        • \newtxtarg[\rmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{\text{sup}}^{\text{sup}}Ext1(Arg)Ext2"
                                        • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                         • \newtxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                   298 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                              {\newtxt[#1]{#2}[#3][#4][#5\argmid{(}{#6}{)}#7]}
\newtxtargsty ... to do!
                                         \bullet \mathtt{Name}^{\sup}_{\sup} [\mathtt{Ext1}] \{\mathtt{Arg}\} [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ext1}] \{\mathtt{Arg}\} [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ext1}] (\mathtt{Arg}) [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ex
                                        • \newtxtargsty{\rmfamily}[\sffamily][\sup][\sup][\sup][\sup][\st1]{\Arg}[\st2] = "Name_sup_\sup \st1(\Arg)\st2"
                                         • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Namesup Ext1(Arg)Ext2"
                                   300 \newcommandx{\newtxtargsty}[2][2=]
                                            {\newtxtarg[\defval{#2}{#1}]}
    \newtxtoarg ... to do!
                                        • \newtxtoarg[\rmfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                         • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                         • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                   302 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                                            {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
```

```
\newtxtoargsty ... to do!
                                     • \mbox{\ensuremath{\text{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{sup}}(Arg)}"
                                      \bullet \verb| \newtxtoargsty{\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}] [\mbox{\newtxt
                                304 \newcommandx{\newtxtoargsty}[2][2=]
                                305 {\newtxtoarg[\defval{#2}{#1}]}
       \newtxtpar ... to do!
                                     • \newtxtpar[\rmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup_Ext1[Par]Ext2"
                                     • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup}Ext1[Par]Ext2"
                                     • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                306 \newcommandx{\newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                        {\newtxt[#1]{#2}[#3][#4][#5\argmid{[}{#6}{]}#7]}
 \newtxtparsty ... to do!
                                     • \newtxtparsty{\rmfamily}{Name}[sub] [sup] [Ext1] {Par} [Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2"
                                     • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[\Par]Ext2"
                                     • \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
                                308 \newcommandx{\newtxtparsty}[2][2=]
                                309 {\newtxtpar[\defval{#2}{#1}]}
     \newtxtopar ... to do!
                                     • \newtxtopar[\rmfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                     • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                     • \newtxtopar[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_Par]"
                                310 \newcommandx{\newtxtopar}[5][1=, 3=, 4=, 5=]
                                       {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                                     • \mbox{\ensuremath{\mbox{Name}} (Sub) [Sup] [Par] = "Name}_{sub} [Par]"}
                                     \newtxtoparsty{\rmfamily}[\sffamily] {\Name} [sub] [sup] [Par] = "Name_sup[Par]"
                                     • \newtxtoparsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Par] = "Name_sup_[Par]"
                                312 \newcommandx{\newtxtoparsty}[2][2=]
                                       {\newtxtopar[\defval{#2}{#1}]}
       \txtsubsup ... to do!
                                     • \txtsubsup{sub}{} = "sub"; \txtsubsup{}{sup} = "sup"; \txtsubsup{sub}{sup} = "sub"
                                     • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                     • \txtsubsup[\ttfamily]{Aa}{Bb} = ^{\text{"Bb"}}_{Aa}
                                314 \newcommand{\txtsubsup}[3][]
                                        {\ensuremath{\empchk{#2}{_{\text{#1#2}}}\empchk{#3}{^{\text{#1#3}}}}}
                                \txt ... to do!
                                     • \text{txt{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext"}
                                     • \txt[\schape]{Name}[sub][sup][Ext] = "NAME_{SUB}^{SUP}EXT"
                                     • \text{txt}[\text{bfseries}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext}"
                                317 \newcommand{\txt}
                                        {\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[\scshape]{Name}[sub] [sup] [Ext1] {Arg}[Ext2] = "NAME_SUB_EXT1(ARG)EXT2"
```

```
• \txtarg[\bfseries]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
               319 \newcommand{\txtarg}
               320 {\newtxtargsty{\txtsty}}
   \txtoarg ... to do!
                  • \txtoarg{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                  • \txtoarg[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                  • \t \ [sub] [sup] [Arg] = "Name \ [sub]" [Arg] = "Name \ [sub]"
               321 \newcommand{\txtoarg}
               322 {\newtxtoargsty{\txtsty}}
    \txtpar ... to do!
                  • \text{txtpar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[Par]\text{Ext2"}
                  • \txtpar[\scshape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAME_{SUB}^{SUP}EXT1[PAR]EXT2"
                  • \txtpar[\bfseries] {Name} [sub] [sub] [Ext1] {Par} [Ext2] = "Name sub Ext1[Par] Ext2"
               323 \newcommand{\txtpar}
               324 {\newtxtparsty{\txtsty}}
   \txtopar ... to do!
                  • \text{txtopar{Name}[sub][sup][Par]} = \text{"Name}_{\text{sub}}^{\text{sup}}[Par]"
                  • \txtopar[\schape]{Name}[sub][sup][Par] = "NAME_{SUB}^{SUP}[PAR]"
                  • \t \ [Sub] [Sup] [Par] = "Name \ [Par]"
               325 \newcommand{\txtopar}
                    {\newtxtoparsty{\txtsty}}
    \txtsty ... to do!
               327 \newcommand{\txtsty}
                    {\mdseries\upshape\rmfamily}
               \cmdtxt ... to do!
                  • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                    \mathsf{Name}[\mathsf{sub}][\mathsf{sup}][\mathsf{Ext}] = \mathsf{Name}^{\mathsf{SUP}}_{\mathsf{SUB}}[\mathsf{Ext}]
               330 \newcommand{\cmdtxt}[1]
                    {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}
 \cmdtxtarg ... to do!
                  • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                    \texttt{\txtargNewCmd}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Arg}\}[\texttt{Ext2}] = \texttt{Name}^{\texttt{SUP}}_{\texttt{SUB}}\texttt{Ext1}(\texttt{Arg})\texttt{Ext2}
               332 \newcommand{\cmdtxtarg}[1]
               333 {\csdef{txtarg#1}{\newtxtargsty{\csname txtsty#1\endcsname}}}
\cmdtxtoarg ... to do!
                  • \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                    \t Name [sub] [sup] [Arg] = Name_{SUB} (Arg)
               334 \newcommand{\cmdtxtoarg}[1]
                    {\csdef{txtoarg#1}{\newtxtoargsty{\csname txtsty#1\endcsname}}}
 \cmdtxtpar ... to do!
                  • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                    \txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_SUB_EXT1[PAR]EXT2
               336 \newcommand{\cmdtxtpar}[1]
                    {\csdef{txtpar#1}{\newtxtparsty{\csname txtsty#1\endcsname}}}
\cmdtxtopar ... to do!
```

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\cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                  \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\Name|_{SUB}^{SUP}[Par]|
                                       338 \newcommand{\cmdtxtopar}[1]
                                                  {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}
       \cmdtxtall ... to do!
                                              • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                  \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\NAME|_{SUB}^{SUP}Ext|
                                                  \txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_SUB_EXT1(ARG)EXT2
                                                  \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|^{SUP}(Arg)
                                                  \verb|\txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\txtparNewCmd{Name}[sub][sup][ext1]{Par}[ext2]
                                                  \t \ [sub] [sup] [Par] = NAME_{SUB}^{SUP} [PAR]
                                       340 \newcommand{\cmdtxtall}[1]
                                       341 {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
               \usrtxt ... to do!
                                             • \usrtxt{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                                  \t CmdName {Suf}{arg}; \c MameSuf{Arg} = cmdName(Arg)
                                                   \t \operatorname{CmdName} \{Suf\} \{par\}; \operatorname{CmdNameSuf} \{Par\} = \operatorname{cmdName} [Par] 
                                              • \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                  \usrtxt{cmdName}{Suf}{arg}[newName]; \cmdNameSuf{Arg} = newName(Arg)
                                                  \t {cmdName} {Suf} {par} [newName]; \t {Par} = newName [Par]
                                       343 \newcommandx{\usrtxt}[4][4=]
                                                 {\csdef{#1#2}{\csname txt#3\endcsname{\defval{#4}{#1}}}}
                                       \newmth ... to do!
                                             • \newmth[mathrm]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                             • \newmth[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                              • \newmth[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                        349 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                                 {\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"
                                       351 \newcommandx{\newmthsty}[2][2=]
                                       352 \{ \left( \frac{\#2}{\#1} \right) \}
       \newmtharg ... to do!
                                             • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sub}^{sup} Ext1(Arg)Ext2"
                                              • \newmtharg[mathsf]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
                                               \bullet \verb| \newmtharg[mathtt] {Name}[sub][sup][Ext1] {Arg}[Ext2] = "Name|_{sub}^{sup} Ext1(Arg) Ext2" \\
                                        353 \newcommandx{\newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                 {\newmth[#1]{#2}[#3][#4][#5\argmid{\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
\newmthargsty ... to do!
                                             • \newmthargsty{mathrm}{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sub}^{sup} Ext1(Arg) Ext2"
                                               \bullet \verb| \newmthargsty{mathrm}[mathsf]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2" | \normalised for the subset of the s
                                               \bullet \verb| \newmthargsty{mathrm}[mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name $^{sup}_{sub}Ext1(Arg)Ext2" | The substitution of the substitution
```

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355 \newcommandx{\newmthargsty}[2][2=]
                                                                                   {\newmtharg[\defval{#2}{#1}]}
            \newmthoarg ... to do!
                                                                            • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg] = "Name _{sub}^{sup}(Arg)"
                                                                             • \newmthoarg[mathsf]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                             • \newmthoarg[mathtt]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                   357 \newcommandx{\newmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                       {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                            • \newmthoargsty{mathrm}{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                            • \newmthoargsty{mathrm} [mathsf] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                              \qquad \qquad \texttt{(Name) [sub] [sup] [Arg]} = \texttt{(Name)}^{sup} (Arg) \texttt{(Arg)} \texttt{(Arg)} \texttt{(Arg)} \texttt{(Name)}^{sup} (Arg) \texttt{(Arg)} \texttt{(
                                                                   359 \newcommandx{\newmthoargsty}[2][2=]
                                                                                       {\newmthoarg[\defval{#2}{#1}]}
               \newmthpar ... to do!
                                                                            • \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
                                                                            \bullet \ \texttt{\ \ } [\texttt{Ext1}] \ \texttt{\ \ } [\texttt{Ext2}] = "\texttt{Name}^{sup}_{sub} Ext1[Par] Ext2"
                                                                              \bullet \ \texttt{\  Name} \ \texttt{\  Ext1} \ \texttt{\  (Par)} \ \texttt{\  Ext2} \ = \ \texttt{\  \  } \ \texttt{\  Ext1} \ \texttt{\  } \ \texttt{\ 
                                                                   361 \newcommandx{\newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                      {\newmth[#1]{#2}[#3][#4][#5\argmid{\!\left[}{#6}{\right]\arglef{\!}{#7}}]}
   \newmthparsty ... to do!
                                                                             \bullet \verb| \newmthparsty{mathrm}{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2" 
                                                                             • \newmthparsty{mathrm} [mathsf] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par] Ext2"
                                                                              \bullet \texttt{ \  \  } \texttt{ [Ext1] \{Par\}[Ext2]} = \texttt{``Name} \texttt{ \  } \texttt{ Ext1[Par]Ext2''} 
                                                                   363 \newcommandx{\newmthparsty}[2][2=]
                                                                                    {\newmthpar[\defval{#2}{#1}]}
            \newmthopar ... to do!
                                                                             \bullet \verb| \newmthopar[mathrm]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]" 
                                                                              \qquad \qquad \texttt{`Name}^{sup}_{sub} \texttt{[Sub] [Sup] [Par]} = \texttt{``Name}^{sup}_{sub} [Par]" \\
                                                                             • \newmthopar[mathtt] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup}[Par]"
                                                                  365 \newcommandx{\newmthopar}[5][1=, 3=, 4=, 5=]
                                                                                      {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                             \bullet \texttt{\ \ } [sub] [sup] [Par] = "Name_{sub}^{sup} [Par]" 
                                                                            • \newmthoparsty{mathrm} [mathsf] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup}[Par]"
                                                                             • \newmthoparsty{mathrm} [mathtt] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup} [Par]"
                                                                  367 \newcommandx{\newmthoparsty}[2][2=]
                                                                                   {\mathbb{L}}{\mathbb{L}}
               \mthsubsup ... to do!
                                                                  369 \newcommand{\mthsubsup}[2]
                                                                  370 {\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
```

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372 \newcommand{\mth}
                                                                                                                          {\newmthsty{\mthsty}}
                          \mtharg ... to do!
                                                                                                               \bullet \  \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, "Name_{sub}^{sup} Ext1 (Arg) Ext2"
                                                                                                               • \mbox{\mbox{\tt mtharg[mathbf]} {\tt Name} [sub] [sup] [Ext1] {\tt Arg} [Ext2] = "Name_{sub}^{sup} Ext1(Arg) Ext2"}
                                                                                                                • \mtharg[mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name _{sub}^{sup}Ext1(Arg)Ext2"
                                                                                              374 \newcommand{\mtharg}
                                                                                                                           {\newmthargsty{\mthsty}}
                    \mthoarg ... to do!
                                                                                                               • \mthoarg{Name}[sub][sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                               • \mthoarg[mathbf] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                                \bullet \ \texttt{\t Name} \ \texttt{\t [sub] [sup] [Arg]} = \texttt{\t "Name} \ \texttt{\t sub} \ \texttt{\t [sup] [Arg]} = \texttt{\t "Name} \ \texttt{\t sub} \ \texttt{\t [sup] [Arg]} 
                                                                                              376 \newcommand{\mthoarg}
                                                                                                                                  {\newmthoargsty{\mthsty}}
                          \mthpar ... to do!
                                                                                                               \bullet \  \  \, \texttt{\bare}[\mathtt{Sub}] \  \, \texttt{\bare}[\mathtt{Ext1}] \  \, \texttt{\bare}[\mathtt{Ext2}] \  \, = \  \, "Name^{sup}_{sub} Ext1[Par] Ext2"
                                                                                                               \bullet \  \, \texttt{\bare}[mathbf] \  \, \texttt{\bare}[sub] \  \, \texttt{\bare}[Ext1] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \texttt{\bare}[sub] \  \, \texttt{\bare}[Ext1] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \texttt{\bare}[sub] \  \, \texttt{
                                                                                                               \bullet \  \, \texttt{\bare}[\texttt{mathtt}] \, \{\texttt{Name}\} \, [\texttt{sub}] \, [\texttt{sup}] \, [\texttt{Ext1}] \, \{\texttt{Par}\} \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 [Par] Ext2 \, \text{'`Par} \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} 
                                                                                               378 \newcommand{\mthpar}
                                                                                                                           {\newmthparsty{\mthsty}}
                    \mthopar ... to do!
                                                                                                               • \mthopar[mathbf]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                                                • \mthopar[mathtt] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup}[Par]"
                                                                                              380 \newcommand{\mthopar}
                                                                                                                            {\newmthoparsty{\mthsty}}
                           \mthsty ... to do!
                                                                                             382 \newcommand{\mthsty}
                                                                                             383 {}
                                                                                              \cmdmth ... to do!
                                                                                                               \bullet \ \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{$\mbox{$\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{$\mb
                                                                                                                           \verb|\mthNewCmd{Name}[sub][sup][Ext] = \verb|\mame| sub| Ext|
                                                                                               385 \newcommand{\cmdmth}[1]
                                                                                                                         {\csdef{mth#1}{\newmthsty{mthsty#1}}}
      \cmdmtharg ... to do!
                                                                                                                • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                            \verb|\mathresize | \texttt{Sub} [\texttt{sub}] [\texttt{sup}] [\texttt{Ext1}] \{\texttt{Arg}\} [\texttt{Ext2}] = \texttt{Name}_{sub}^{sup} Ext1(Arg) Ext2
                                                                                               387 \newcommand{\cmdmtharg}[1]
                                                                                                                       {\csdef{mtharg#1}{\newmthargsty{mthsty#1}}}
                                                                                             388
\cmdmthoarg ... to do!
                                                                                                                • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                           \verb|\mbox| \verb| [sub] [sup] [Arg] = \verb|\mbox| \verb| [sup] [Arg] = \verb|\mbox| \verb| [sup] [Arg] = \verb|\mbox| \verb| [sub] [sub] [sup] [arg] = \verb|\mbox| \verb| [sub] [sub] [sub] [sub] [sub] [sub] [sub] = \verb|\mbox| \verb| [sub] [sub] [sub] [sub] [sub] = \verb|\mbox| \verb| [sub] [sub] [sub] [sub] [sub] = \verb|\mbox| \verb| [sub] [sub] [sub] [sub] = \verb|\mbox| \verb| [sub] [sub] [sub] [sub] = \verb|\mbox| \verb| [sub] [sub] [sub] = \verb|\mbox| \verb| [sub] = \verb|\mbox| = \verb|\m
                                                                                              389 \newcommand{\cmdmthoarg}[1]
                                                                                                                         {\csdef{mthoarg#1}{\newmthoargsty{mthsty#1}}}
      \cmdmthpar ... to do!
```

```
\cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                     \mathbb{E}[\operatorname{Ext2}] = \operatorname{Name}_{sub}^{sup} Ext1 
                                                       391 \newcommand{\cmdmthpar}[1]
                                                                      {\csdef{mthpar#1}{\newmthparsty{mthsty#1}}}
       \cmdmthopar
                                                  ... to do!
                                                               • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                     \mbox{\continuous} \mbox{\continuous} \mbox{\continuous} \mbox{\continuous} \mbox{\continuous} \mbox{\continuous} \mbox{\cot} \mbox{\continuous} \mbox{\cot} \mb
                                                      393 \newcommand{\cmdmthopar}[1]
                                                                    {\csdef{mthopar#1}{\newmthoparsty{mthsty#1}}}
          \cmdmthall ... to do!
                                                               • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                      \verb|\mathNewCmd{Name}[sub][sup][Ext]| = \verb|\mathNewCmd{Name}| Ext|
                                                                      \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][Ext2] = \verb|\mathargNewCmd{Name}[sub][sub][sup][ext1][ext2][sub][ext2][sub][ext2][sub][ext2][sub][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub
                                                                      \verb|\mbox| \verb| Sub| [sup] [Arg] = \verb|\mbox| mame|_{sub}^{sup} (Arg)
                                                                      \verb|\mbox| | [sub] [sup] [Par] = \verb|\mbox| | [Par] = \verb|\mbox| | [Par] |
                                                      395 \newcommand{\cmdmthall}[1]
                                                                     {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
                                                      \usrmth ... to do!
                                                               • \sl = cmdName 
                                                                     \verb|\usrmth{cmdName}{Suf}{par}[newName]; \verb|\cmdNameSuf}{Par} = newName[Par]
                                                       398 \newcommandx{\usrmth}[4][4=]
                                                                      {\csdef{#1#2}{\csname mth#3\endcsname{\defval{#4}{#1}}}}
                                                      \usrmthlatlow ... to do!
                                                      401 \newcommandx{\usrmthlatlow}[4][4=]
                                                                     {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
                                                      403 \verb|\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcommandx{\newcomman
                                                                     {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                                      405 \newcommandx{\usrmthlatlet}[4][4=]
                                                                     {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
\usrmthgrklow ... to do!
                                                      407 \newcommandx{\usrmthgrklow}[4][4=]
                                                                       {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                                      409 \newcommandx{\usrmthgrkupp}[4][4=]
                                                                      {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
\usrmthgrklet ... to do!
                                                      411 \newcommandx{\usrmthgrklet}[4][4=]
                                                                       {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
          \usrmthlow ... to do!
                                                      413 \newcommandx{\usrmthlow}[4][4=]
                                                                     {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}
```

```
\usrmthupp ... to do!
                               415 \newcommandx{\usrmthupp}[4][4=]
                               416 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
       \usrmthlet ... to do!
                               417 \newcommandx{\usrmthlet}[4][4=]
                               418 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
                                423 \iftxtgen@
   \txtdef, ... to do!
                                    ullet \txtdef{Name}[sub][sup][Ext] = Name^{sup}_{sub}Ext
                                     \qquad \qquad \bullet \  \  \, \texttt{`txtargdef\{Name\}[sub][sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2 
                                    ullet \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{ext}^{sup}Ext1/Par]Ext2
                                424 %% Style for Definitions
                               425 \verb|\def|\newcommand{\txtstydef}{\normalfont\bfseries\em}|
       \cmdtxtdef ... to do!
                                    • \cmdtxtdef{cmdName};
                                        \verb|\cmdName[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                    • \cmdtxtdef{cmdName}[newName];
                                        \colon = newName[sub][sub][ext] = newName^{sub}_{sub}ext
                                426 \newcommandx{\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];
                                        \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                                428 \newcommandx{\cmdtxtargdef}[2][2=]
                               429 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                    \cmdtxtoargdef{cmdName};
                                        \colon colon col
                                    • \cmdtxtoargdef{cmdName}[newName];
                                        \colon = [sub][sub][arg] = newName^{sub}_{sub}(arg)
                                430 \newcommandx{\cmdtxtoargdef}[2][2=]
                                431 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                                    • \cmdtxtpardef{cmdName};
                                        \cmdName[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1/par/ext2
                                    \cmdtxtpardef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2
                                432 \newcommandx{\cmdtxtpardef}[2][2=]
                               433 {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                    • \cmdtxtopardef{cmdName};
                                        \cmdName[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                    • \cmdtxtopardef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][par]| = newName_{sub}^{sub}/par|
```

```
434 \newcommandx{\cmdtxtopardef}[2][2=]
                    435 {\usrtxt{#1}{}{opardef}[#2]}
  \txtabr, ... to do!
                       ullet \txtabr{Name}[sub][sup][Ext] = Name_{
m sub}^{
m sup}Ext
                       • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{\text{sub}}^{\text{sup}} Ext1(Arg) Ext2
                        • \txtparabr{Name} [sub] [sup] [Ext1] {Par} [Ext2] = Name_{\mathrm{sub}}^{\mathrm{sup}} Ext1[Par]Ext2
                    436 %% Style for Abbreviations
                    437 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
    \cmdtxtabr ... to do!
                       \cmdtxtabr{cmdName};
                          \verb|\cmdName[sub][sub][ext]| = cmdName_{\rm sub}^{\rm sub}ext
                        • \cmdtxtabr{cmdName}[newName];
                          \colon dName[sub][sub][ext] = newName_{sub}^{sub}ext
                    438 \verb|\newcommandx{\cmdtxtabr}[2][2=]
                         {\usrtxt{#1}{}{abr}[#2]}
 \cmdtxtargabr ... to do!
                       • \cmdtxtargabr{cmdName};
                          \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName^{\text{sub}}_{\text{sub}}ext1(arg)ext2
                        • \cmdtxtargabr{cmdName} [newName];
                          \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                    440 \newcommandx{\cmdtxtargabr}[2][2=]
                    441 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                       • \cmdtxtoargabr{cmdName};
                          \cmdName[sub][sub][arg] = cmdName_{sub}^{sub}(arq)
                        • \cmdtxtoargabr{cmdName}[newName];
                          \colon = newName[sub][sub][arg] = newName[sub](arg)
                    442 \newcommandx{\cmdtxtoargabr}[2][2=]
                    443 {\usrtxt{#1}{}{oargabr}[#2]}
 \cmdtxtparabr ... to do!
                       • \cmdtxtparabr{cmdName};
                          \cmdName[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                        • \cmdtxtparabr{cmdName} [newName];
                          \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2|
                    444 \newcommandx{\cmdtxtparabr}[2][2=]
                         {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                       • \cmdtxtoparabr{cmdName};
                          \cmdName[sub] [sub] [par] = cmdName_{\text{sub}}^{\text{sub}}/par
                        • \cmdtxtoparabr{cmdName}[newName];
                          \colon dName[sub][sub][par] = newName_{sub}^{sub}/par]
                    446 \newcommandx{\cmdtxtoparabr}[2][2=]
                         {\usrtxt{#1}{}{oparabr}[#2]}
                    \txtname, ... to do!
                       • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Sup}][\text{Ext}] = \text{Name}_{\text{Sup}}^{\text{SUP}}\text{Ext}
                        • \text{txtargname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext1}(\text{Arg})\text{Ext2}
                        • \text{txtparname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext1}[\text{Par}]\text{Ext2}
```

```
449 %% Style for Names
                                         450 \cmdtxtall{name}\newcommand{\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
                                         451 \newcommandx{\cmdtxtname}[2][2=]
                                         452 {\usrtxt{#1}{}{name}[#2]}
  \cmdtxtargname ... to do!
                                               • \cmdtxtargname{cmdName};
                                                   \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
                                               • \cmdtxtargname{cmdName}[newName];
                                                   \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                          453 \newcommandx{\cmdtxtargname}[2][2=]
                                         454 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                               \cmdtxtoargname{cmdName};
                                                   \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                               • \cmdtxtoargname{cmdName}[newName];
                                                   \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                         455 \newcommandx{\cmdtxtoargname}[2][2=]
                                                   {\usrtxt{#1}{}{oargname}[#2]}
  \cmdtxtparname ... to do!
                                               \cmdtxtparname{cmdName};
                                                   \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub]| = \verb|\cmdNam
                                               • \cmdtxtparname{cmdName}[newName];
                                                   457 \newcommandx{\cmdtxtparname}[2][2=]
                                                   {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                               \cmdtxtoparname{cmdName};
                                                   \verb|\cmdName[sub][par]| = CMDNAME_{SUB}^{SUB}[PAR]|
                                               \cmdtxtoparname{cmdName}[newName];
                                                   \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                                         459 \newcommandx{\cmdtxtoparname}[2][2=]
                                         460 {\usrtxt{#1}{}{oparname}[#2]}
       \txtcom, ... to do!
                                               • \text{txtcom{Name}[sub][sup][Ext]} = \text{Name}_{SUB}^{SUP} \text{Ext}
                                               • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                               \bullet \ \texttt{\txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = NAME^{SUP}_{SUB}EXT1[PAR]EXT2
                                         461 %% Style for Complexities
                                         462 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
           \cmdtxtcom ... to do!
                                               • \cmdtxtcom{cmdName};
                                                   \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
                                               • \cmdtxtcom{cmdName} [newName];
                                                   463 \newcommandx{\cmdtxtcom}[2][2=]
                                          464 {\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];
                         465 \newcommandx{\cmdtxtargcom}[2][2=]
                         {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                       • \cmdtxtoargcom{cmdName};
                         \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                       \cmdtxtoargcom{cmdName}[newName];
                         \verb|\cmdName[sub][sub][arg]| = NEWNAME_{SUB}^{SUB}(ARG)
                    467 \newcommandx{\cmdtxtoargcom}[2][2=]
                         {\usrtxt{#1}{}{oargcom}[#2]}
 \cmdtxtparcom ... to do!
                       • \cmdtxtparcom{cmdName};
                         \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                       • \cmdtxtparcom{cmdName} [newName];
                         \label{lem:lemma:equation:lemma:equation:ext1} $$ \operatorname{cmdName}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}][\operatorname{ext2}] = \operatorname{NEWNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}] \operatorname{EXT2} $$
                    469 \verb|\newcommandx{\cmdtxtparcom}[2][2=]
                        {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                       • \cmdtxtoparcom{cmdName};
                         \label{eq:cmdName} $$ \operatorname{CMDNAME}_{SUB}^{SUB}[PAR] = \operatorname{CMDNAME}_{SUB}^{SUB}[PAR] $$
                       \cmdtxtoparcom{cmdName}[newName];
                         \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                    471 \newcommandx{\cmdtxtoparcom}[2][2=]
                         {\usrtxt{#1}{}{oparcom}[#2]}
                    473 \fi
                    478 \ifmthgen@
 \mthname, ... to do!
                       ullet \mthname{NAME}[sub] [sup] [Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                       \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                       • \mthparname{NAME}[sub][sup][Ext1]{Par}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par]Ext2
                    479 %% Style for Names
                    480 \mbox{ } \mbox{mthall{name}\newcommand{\mbox{mthstyname}{\mbox{mathcal}}}
   \AName, ... to do!
                   \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}
                   481 \seqoflatupp{Name}{mthname}
   \cmdmthname ... to do!
                       • \cmdmthname{CMDNAME};
                         \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                       • \cmdmthname{cmdName}[NEWNAME];
                         \colon {\tt CmdNameName[sub][sub][ext]} = \mathcal{NEWNAME}^{sub}_{sub} ext
                    482 \newcommandx{\cmdmthname}[2][2=]
                    483 {\usrmth{#1}{Name}{name}[#2]}
```

```
\cmdmthargname ... to do!
                         • \cmdmthargname{CMDNAME};
                            \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
                      484 \newcommandx{\cmdmthargname}[2][2=]
                            {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                         • \cmdmthoargname{CMDNAME};
                            \verb|\CMDNAMEName[sub][sub][arg]| = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                         • \cmdmthoargname{cmdName}[NEWNAME];
                            \colon {\tt CmdNameName[sub][sub][arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                      486 \newcommandx{\cmdmthoargname}[2][2=]
                            {\usrmth{#1}{Name}{oargname}[#2]}
 \cmdmthparname ... to do!
                         • \cmdmthparname{CMDNAME};
                            \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
                      488 \newcommandx{\cmdmthparname}[2][2=]
                           {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                         • \cmdmthoparname{CMDNAME};
                            \CMDNAMEName[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                         • \cmdmthoparname{cmdName}[NEWNAME];
                            \verb|\cmdNameName[sub][sub][par]| = \mathcal{NEWNAME}^{sub}_{sub}[par]
                      490 \newcommandx{\cmdmthoparname}[2][2=]
                            {\usrmth{#1}{Name}{oparname}[#2]}
   \mthfam, ... to do!
                         \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]{Arg}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                         \bullet \  \, \texttt{\baselinestable MAME} \  \, \texttt{\baseline Sub} \  \, \texttt{\baseline Ext1} \  \, \texttt{\baseline Par} \  \, \texttt{\baseline Ext2} \  \, = \  \, \mathcal{NAME} \  \, \mathcal{E}^{sup}_{sub} Ext1 [Par] Ext2
                      492 %% Style for Families
                      493 \cmdmthall{fam}\newcommand{\mthstyfam}{\mathscr}
      \AFam, ... to do!
                     \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{I}, \mathcal{H}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{F}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Y}
                      494 \seqoflatupp{Fam}{mthfam}
      \cmdmthfam ... to do!
                         \cmdmthfam{CMDNAME};
                            \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext]
                         • \cmdmthfam{cmdName}[NEWNAME];
                            \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                      495 \newcommandx{\cmdmthfam}[2][2=]
                           {\usrmth{#1}{Fam}{fam}[#2]}
  \cmdmthargfam ... to do!
                         • \cmdmthargfam{CMDNAME};
                            • \cmdmthargfam{cmdName}[NEWNAME];
                            \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1(arg)ext2
```

```
497 \newcommandx{\cmdmthargfam}[2][2=]
                          {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                        \cmdmthoargfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][arg] = \mathscr{CMDNAMEFam}[sub](arg)
                        \cmdmthoargfam{cmdFam}[NEWNAME];
                           \verb|\cmdFamFam[sub][sub][arg]| = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                     499 \newcommandx{\cmdmthoargfam}[2][2=]
                          {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                        • \cmdmthparfam{CMDNAME};
                           \verb|\CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par][ext2]
                        • \cmdmthparfam{cmdName}[NEWNAME];
                           501 \newcommandx{\cmdmthparfam}[2][2=]
                          {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                        • \cmdmthoparfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                        \cmdmthoparfam{cmdFam}[NEWNAME];
                           \label{eq:cmdFamFam} $$ \operatorname{[sub]}[\operatorname{par}] = \mathcal{NEWNAME}^{sub}_{sub}[\operatorname{par}] $$
                     503 \newcommandx{\cmdmthoparfam}[2][2=]
                          {\usrmth{#1}{Fam}{oparfam}[#2]}
  \mthcls, ... to do!
                        • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                        • \mthargcls{NAME}[sub][sup][Ext1]{Arg}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg)Ext2
                        \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Par\} [Ext2]} = \mathcal{NAME} sub_{sub}^{sup} Ext1[Par] Ext2
                     505 %% Style for Classes
                     506 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}
     \ACls, ... to do!
                    \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}
                     507 \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
                     508 \newcommandx{\cmdmthcls}[2][2=]
                          {\usrmth{#1}{Cls}{cls}[#2]}
 \cmdmthargcls ... to do!
                        • \cmdmthargcls{CMDNAME};
                           \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargcls{cmdName}[NEWNAME];
                           \label{lem:lemma:energy:ext2} $$ \operatorname{CmdNameCls[sub][sub][ext1]} = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg)ext2$
                     510 \newcommandx{\cmdmthargcls}[2][2=]
                          {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                        • \cmdmthoargcls{CMDNAME};
```

\CMDNAMECls[sub][sub][arg] = $\mathcal{CMDNAME}_{sub}^{sub}(arg)$

```
\cmdmthoargcls{cmdCls}[NEWNAME];
                                                                        \verb|\cmdClsCls[sub][sub][arg]| = NEWNAME_{sub}^{sub}(arg)
                                                         512 \newcommandx{\cmdmthoargcls}[2][2=]
                                                                       {\usrmth{#1}{Cls}{oargcls}[#2]}
   \cmdmthparcls ... to do!
                                                                  \cmdmthparcls{CMDNAME};
                                                                        \verb|\CMDNAMECls[sub][sub][ext1]{par}[ext2] = \verb|\CMDNAME| sub| ext1| par| ext2|
                                                                  • \cmdmthparcls{cmdName}[NEWNAME];
                                                                        \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2|
                                                         514 \newcommandx{\cmdmthparcls}[2][2=]
                                                                      {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                 • \cmdmthoparcls{CMDNAME};
                                                                       \verb|\CMDNAMECls[sub][sub][par]| = \verb|\CMDNAME|_{sub}^{sub}[par]|
                                                                  \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                       \cmdClsCls[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                                          516 \newcommandx{\cmdmthoparcls}[2][2=]
                                                         517 {\usrmth{#1}{Cls}{oparcls}[#2]}
      \mthsig, ... to do!
                                                                 • \mthsig{Name} [sub] [sup] [Ext] = \mathcal{N}_{sub}Ext
                                                                 \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Arg\} [Ext2]} = \mathcal{N}\!\mathit{ame}^{sup}_{sub} Ext1(Arg) Ext2
                                                                 \bullet \ \texttt{\t Name} \ \texttt{[Sub]} \ \texttt{[Sup]} \ \texttt{\t [Ext1]} \ \texttt{\t Par} \ \texttt{\t [Ext2]} \ = \ \textit{\textbf{\textit{Name}}} \ sub \ \texttt{\t Ext1} \ \texttt{\t [Par]} \ \texttt{\t Ext2}
                                                         518 %% Style for Signatures
                                                         519 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
             \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},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~Q,~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~X,~\mathcal{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
                                                         520 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
             \cmdmthsig ... to do!
                                                                 • \cmdmthsig{cmdName};
                                                                       \colon d \cmdNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                  • \cmdmthsig{cmdName}[NewName];
                                                                       \verb|\cmdNameSig[sub][sub][ext]| = \textit{NewName}_{sub}^{sub} ext|
                                                          521 \newcommandx{\cmdmthsig}[2][2=]
                                                         522 {\usrmth{#1}{Sig}{sig}[#2]}
   \cmdmthargsig ... to do!
                                                                  • \cmdmthargsig{cmdName};
                                                                       \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = cmd Name_{sub}^{sub} ext1(arg) ext2
                                                                  • \cmdmthargsig{cmdName}[NewName];
                                                                       \cmdNameSig[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                         523 \newcommandx{\cmdmthargsig}[2][2=]
                                                         524 {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                 • \cmdmthoargsig{cmdName};
                                                                       \colon 
                                                                  • \cmdmthoargsig{cmdSig}[NewName];
                                                                       \colon 
                                                          525 \newcommandx{\cmdmthoargsig}[2][2=]
                                                         526 {\usrmth{#1}{Sig}{oargsig}[#2]}
```

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\cmdmthparsig ... to do!
                           • \cmdmthparsig{cmdName};
                              \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{cmdName}_{sub}^{sub}ext1[par]ext2
                           • \cmdmthparsig{cmdName}[NewName];
                             \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{NewName}^{sub}_{sub}ext1[par]ext2
                        527 \newcommandx{\cmdmthparsig}[2][2=]
                             {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                           • \cmdmthoparsig{cmdName};
                             \verb|\cmdNameSig[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                           • \cmdmthoparsig{cmdSig}[NewName];
                             \colon cmdSigSig[sub][sub][par] = NewName_{sub}^{sub}[par]
                        529 \newcommandx{\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}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg)Ext2
                           \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Par\} [Ext2]} = \mathfrak{Name}^{sup}_{sub} Ext1[Par]Ext2
                        531 %% Style for Structures
                        532 \mbox{ \cmdmthall{str}\newcommand{\mbox{\mbox{\cmthstystr}}{\mbox{\cmdmthfrak}}}
     \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, z
                      \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{S}, \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
                       533 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
     \cmdmthstr ... to do!
                           \cmdmthstr{cmdName};
                             \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{cmdName}_{sub}^{sub} ext
                           • \cmdmthstr{cmdName} [NewName];
                             \cmdNameStr[sub][sub][ext] = \mathfrak{NewName}_{sub}^{sub}ext
                        534 \newcommandx{\cmdmthstr}[2][2=]
                       535 {\usrmth{#1}{Str}{str}[#2]}
 \cmdmthargstr ... to do!
                           • \cmdmthargstr{cmdName};
                             \cmdNameStr[sub][sub][ext1]{arg}[ext2] = cmdMamesubext1(arg)ext2
                           • \cmdmthargstr{cmdName}[NewName];
                             \cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                        536 \mbox{ } \mbox{cmdmthargstr}[2][2=]
                             {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                           • \cmdmthoargstr{cmdName};
                              \cmdNameStr[sub] [sub] [arg] = cmdMame_{sub}^{sub}(arg)
                           • \cmdmthoargstr{cmdStr}[NewName];
                             \colon dStrStr[sub][sub][arg] = \mathfrak{NewName}^{sub}_{sub}(arg)
                        538 \newcommandx{\cmdmthoargstr}[2][2=]
                             {\usrmth{#1}{Str}{oargstr}[#2]}
 \cmdmthparstr ... to do!
                           • \cmdmthparstr{cmdName};
                             \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName$| subert1[par] ext2|
```

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• \cmdmthparstr{cmdName} [NewName];
                                                \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                      540 \newcommandx{\cmdmthparstr}[2][2=]
                                                {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                            • \cmdmthoparstr{cmdName};
                                                \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                                            • \cmdmthoparstr{cmdStr}[NewName];
                                                \color{local} 
                                      542 \newcommandx{\cmdmthoparstr}[2][2=]
                                               {\usrmth{#1}{Str}{oparstr}[#2]}
    \mthset, ... to do!
                                            • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} ame \mathbb{N} \mathbb{N}
                                            • \mthargset{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                            \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par][Ext2]} = \mathrm{Name}_{sub}^{sup} Ext1[Par]Ext2
                                      544 %% Style for Sets
                                      545 \mbox{ \mbox{\mbox{mthall{set}}\newcommand{\mbox{\mbox{\mbox{mthstyset}}{\mbox{\mbox{\mbox{mathrm}}}}}
         \aSet, ... 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,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                    A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\varTheta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\varPi,\,P,\,P,\,\Sigma,\,\varSigma,\,T,\,\Upsilon,\,\Phi,\,\varPhi,\,X,\,\Psi,\,\Omega
                                      546 \seqoflet{Set}{mthset}
         \cmdmthset ... to do!
                                            • \cmdmthset{cmdName};
                                                \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                            • \cmdmthset{cmdName}[NewName];
                                                \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} = xt
                                      547 \newcommandx{\cmdmthset}[2][2=]
                                      548 {\usrmth{#1}{Set}{set}[#2]}
  \cmdmthargset ... to do!
                                            • \cmdmthargset{cmdName};
                                                \cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                            • \cmdmthargset{cmdName}[NewName];
                                                \colon = NewName (sub) [sub] [ext1] {arg} [ext2] = NewName (sub) ext1 (arg) ext2
                                      549 \newcommandx{\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)
                                      551 \newcommandx{\cmdmthoargset}[2][2=]
                                      552 {\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];
                                                \cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                      553 \newcommandx{\cmdmthparset}[2][2=]
                                      554 {\usrmth{#1}{Set}{parset}[#2]}
```

```
\cmdmthoparset ... to do!
                       \cmdmthoparset{cmdName};
                          \colon dNameSet[sub][sub][par] = cmdName_{sub}^{sub}[par]
                       • \cmdmthoparset{cmdSet}[NewName];
                          \colon dSetSet[sub][sub][par] = NewName_{sub}^{sub}[par]
                    555 \newcommandx{\cmdmthoparset}[2][2=]
                          {\usrmth{#1}{Set}{oparset}[#2]}
 \cmdmthsetext ... to do!
                    557 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                    558 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                          \usrmthlet{\thestring}{Sym}{sym}
                            [\defval{#3}{\defval{\empchk{#2}{\lowercase{#2}}}}{\thestring}}]%
                         \usrmthlet{\thestring}{Elm}{elm}
                    562
                             [\defval{#3}{\defval{\mpchk{#2}}}] 
  \mthrel, ... to do!
                       • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                       \bullet \  \, \texttt{\bar{Name}[Sub][Sub][Ext1][Arg][Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                       • \mthparrel{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                    563 %% Style for Relations
                    564 \mbox{ \label{rel}\newcommand{\mbstyrel}{\mathbb{}}}
    \aRel, ... 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, L, 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,\,\varSigma,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                    565 \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
                    566 \newcommandx{\cmdmthrel}[2][2=]
                    567 {\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
                    568 \newcommandx{\cmdmthargrel}[2][2=]
                    569 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                       \cmdmthoargrel{cmdName};
                         \cmdNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                       • \cmdmthoargrel{cmdRel}[NewName];
                          \colon dRelRel[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                    570 \newcommandx{\cmdmthoargrel}[2][2=]
                    571 {\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]|
                                        572 \newcommandx{\cmdmthparrel}[2][2=]
                                                  {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                              • \cmdmthoparrel{cmdName};
                                                  \verb|\cmdNameRel[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                              • \cmdmthoparrel{cmdRel}[NewName];
                                                  \colone{local} \col
                                        574 \newcommandx{\cmdmthoparrel}[2][2=]
                                                  {\usrmth{#1}{Rel}{oparrel}[#2]}
    \mthfun, ... to do!
                                              • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                              \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Arg][Ext2]} = \mathsf{\bar{Name}}_{sub}^{sup} Ext1(Arg) Ext2
                                              \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \mathsf{Name}^{sup}_{sub}Ext1[Par]Ext2
                                        576 %% Style for Functions
                                        577 \mbox{ \mbox{maths1}{fun}\newcommand{\mbox{mthstyfun}{\mbox{mathsf}}}
         \arraycolor{1}{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
                                      \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\mathsf{\Delta},\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\mathsf{\Sigma},\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                        578 \seqoflet{Fun}{mthfun}
         \cmdmthfun ... to do!
                                              • \cmdmthfun{cmdName};
                                                  \cmdNameFun[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                              • \cmdmthfun{cmdName}[NewName];
                                                  \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} = t
                                        579 \newcommandx{\cmdmthfun}[2][2=]
                                                 {\usrmth{#1}{Fun}{fun}[#2]}
  \cmdmthargfun ... to do!
                                              • \cmdmthargfun{cmdName};
                                                  \cmdNameFun[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                              • \cmdmthargfun{cmdName}[NewName];
                                                  \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                        581 \newcommandx{\cmdmthargfun}[2][2=]
                                                  {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                              • \cmdmthoargfun{cmdName};
                                                  \colon = cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                              • \cmdmthoargfun{cmdFun} [NewName];
                                                  \verb|\cmdFunFun[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                        583 \newcommandx{\cmdmthoargfun}[2][2=]
                                        584 {\usrmth{#1}{Fun}{oargfun}[#2]}
  \cmdmthparfun ... to do!
                                              • \cmdmthparfun{cmdName};
                                                  \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName$| sub| ext1[par]ext2|
                                              • \cmdmthparfun{cmdName}[NewName];
                                                  \cmdNameFun[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                        585 \newcommandx{\cmdmthparfun}[2][2=]
                                                 {\usrmth{#1}{Fun}{parfun}[#2]}
```

```
\cmdmthoparfun ... to do!
                                                                                     • \cmdmthoparfun{cmdName};
                                                                                              \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                      • \cmdmthoparfun{cmdFun} [NewName];
                                                                                              \verb|\cmdFunFun[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                           587 \newcommandx{\cmdmthoparfun}[2][2=]
                                                                                             {\usrmth{#1}{Fun}{oparfun}[#2]}
        \mthsym, ... to do!
                                                                                     • \mthsym{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                     \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathtt{Name}^{sup}_{sub}Ext1(Arg)Ext2
                                                                                      • \mathbb{E}_{sub}[Sub][Sup][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                                                                          589 %% Style for Symbols
                                                                          590 \mbox{\mbox{\mbox{$\sim$}}{\mathbf{\mbox{\mbox{$\sim$}}}}{\mathbf{\mbox{\mbox{$\sim$}}}}{\mathbf{\mbox{\mbox{$\sim$}}}}{\mathbf{\mbox{$\sim$}}}{\mathbf{\mbox{$\sim$}}}
                 \aggreen \
                                                                       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, T, \Phi, \Phi, X, \Psi, \Omega
                                                                          591 \seqoflet{Sym}{mthsym}
                 \cmdmthsym ... to do!
                                                                                     \cmdmthsym{cmdName};
                                                                                             \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                                                                                      • \cmdmthsym{cmdName}[NewName];
                                                                                             \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                                           592 \newcommandx{\cmdmthsym}[2][2=]
                                                                          593 {\usrmth{#1}{Sym}{sym}[#2]}
    \cmdmthargsym ... to do!
                                                                                      \cmdmthargsym{cmdName};
                                                                                             \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                                      • \cmdmthargsym{cmdName}[NewName];
                                                                                             \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                          594 \newcommandx{\cmdmthargsym}[2][2=]
                                                                                          {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                                      \cmdmthoargsym{cmdName};
                                                                                             \colon 
                                                                                      • \cmdmthoargsym{cmdSym}[NewName];
                                                                                              \colon 
                                                                           596 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                                          {\usrmth{#1}{Sym}{oargsym}[#2]}
    \cmdmthparsym ... to do!
                                                                                     \cmdmthparsym{cmdName};
                                                                                              \c MameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                      • \cmdmthparsym{cmdName}[NewName];
                                                                                             \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\NewName|^{sub}_{sub}ext1[par]ext2|
                                                                           598 \newcommandx{\cmdmthparsym}[2][2=]
                                                                                                 {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                                      \cmdmthoparsym{cmdName};
                                                                                              \cmdNameSym[sub][sub][par] = cmdName_{sub}^{sub}[par]
```

```
\cmdmthoparsym{cmdSym}[NewName];
                           \verb|\cmdSymSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                      600 \newcommandx{\cmdmthoparsym}[2][2=]
                           {\usrmth{#1}{Sym}{oparsym}[#2]}
  \mbox{\em mthelm}, ... to do!
                         • \mthelm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                         • \mthargelm{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                         • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                      602 %% Style for Elements
                      603 \mbox{ \cmdmthall{elm}\newcommand{\mbox{\mbox{mthstyelm}}{\mbox{\mbox{\cmdmthall}}}}
     \all lm, ... 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, 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
                      604 \seqoflet{Elm}{mthelm}
     \cmdmthelm ... to do!
                         \cmdmthelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                         • \cmdmthelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                      605 \newcommandx{\cmdmthelm}[2][2=]
                      606 {\usrmth{#1}{Elm}{elm}[#2]}
 \cmdmthargelm ... to do!
                         • \cmdmthargelm{cmdName};
                           \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
                      607 \newcommandx{\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)
                      609 \newcommandx{\cmdmthoargelm}[2][2=]
                           {\usrmth{#1}{Elm}{oargelm}[#2]}
 \cmdmthparelm ... to do!
                         • \cmdmthparelm{cmdName};
                           \label{local_cond_norm_sub} $$ \operatorname{Lim}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}] = cmdName_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2 $$
                         • \cmdmthparelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                      611 \newcommandx{\cmdmthparelm}[2][2=]
                      612 {\usrmth{#1}{Elm}{parelm}[#2]}
\cmdmthoparelm ... to do!
                         • \cmdmthoparelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                         • \cmdmthoparelm{cmdElm}[NewName];
                           \colonerge{cmdElmElm[sub][sub][par]} = NewName_{sub}^{sub}[par]
                      613 \newcommandx{\cmdmthoparelm}[2][2=]
                      614 {\usrmth{#1}{Elm}{oparelm}[#2]}
```

```
\cmdmthsymelm ... to do!
                                                                    \cmdmthsymelm{cmdName};
                                                                          \colone{cmdNameSym[sub][sub][ext] = cmdName}_{sub}^{sub}ext}
                                                                          {\tt \cmdNameElm[sub][sub][ext]} = cmdName^{sub}_{sub}ext
                                                                    • \cmdmthsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                                         \colon dNameElm[sub][sub][ext] = NewName^{sub}_{sub}ext
                                                            616 \newcommandx{\cmdmthsymelm}[2][2=]
                                                                            {\cmdmthsym{#1}[#2]%
                                                            618
                                                                            \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|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                             619 \newcommandx{\cmdmthargsymelm}[2][2=]
                                                                            {\cmdmthargsym{#1}[#2]%
                                                                            \cmdmthargelm{#1}[#2]}
                                                            621
\cmdmthoargsymelm ... to do!
                                                                    \cmdmthoargsymelm{cmdName};
                                                                          \cmdNameSym[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                          \colonerge{cmdNameElm[sub][sub][arg]} = cmdName^{sub}_{sub}(arg)
                                                                    • \cmdmthoargsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][arg]| = \verb|\NewNames|^{sub}(arg)
                                                                          \colone{locality} \colone{lo
                                                            622 \mbox{ } [2] [2=]
                                                                           {\cmdmthoargsym{#1}[#2]%
                                                                            \cmdmthoargelm{#1}[#2]}
                                                            624
  \cmdmthparsymelm ... to do!
                                                                    \cmdmthparsymelm{cmdName};
                                                                          \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                    • \cmdmthparsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames|^{sub}_{sub}ext1[par]ext2|
                                                                          \colone{lm} [sub] [sub] [ext1] [par] [ext2] = NewName_{sub}^{sub} ext1[par] ext2
                                                             625 \newcommandx{\cmdmthparsymelm}[2][2=]
                                                                            {\cmdmthparsym{#1}[#2]%
                                                            627
                                                                            \cmdmthparelm{#1}[#2]}
                                                        ... to do!
\cmdmthoparsymelm
                                                                    \cmdmthoparsymelm{cmdName};
                                                                          \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|^{sub}_{sub}[par]|
                                                                          \colone{local} \col
                                                                    • \cmdmthoparsymelm{cmdName}[NewName];
                                                                          \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                          628 \newcommandx{\cmdmthoparsymelm}[2][2=]
                                                                            {\cmdmthoparsym{#1}[#2]%
                                                                            \cmdmthoparelm{#1}[#2]}
                                                            \mthluop, ... to do!
```

```
• \mthluop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                                  • \mthlbop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                             632 %% Style for \LaTex Operators
                                             633 \t {luop}\newcommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                            634 \cmdmth{lbop}\newcommand{\mthstylbop}[1]{\textstyle\mathbin{#1}}
\cmdmthluop, ... to do!
                                                  • \cmdmthluop{cmdName};
                                                      \verb|\cmdNameUOp[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                                                  • \cmdmthluop{cmdName}[\oplus];
                                                      \verb|\cmdNameUOp[sub][sub][ext]| = \oplus_{sub}^{sub} ext
                                                  \cmdmthlbop{cmdName};
                                                      \cmdNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                  • \cmdmthlbop{cmdName}[\oplus];
                                                      \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                                             635 \newcommandx{\cmdmthluop}[2][2=]
                                                     {\usrmth{#1}{UOp}{luop}[#2]}
                                             637 \newcommandx{\cmdmthlbop}[2][2=]
                                                     {\usrmth{#1}{BOp}{lbop}[#2]}
                   \mthlrel ... to do!
                                                  • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                            639 %% Style for \LaTex Relations
                                            640 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
            \cmdmthlrel \dots to \operatorname{do}!
                                                  • \cmdmthlrel{cmdName};
                                                      \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                  • \cmdmthlrel{cmdName}[\preceq];
                                                      \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                                             641 \newcommandx{\cmdmthlrel}[2][2=]
                                            642 {\usrmth{#1}{Rel}{lrel}[#2]}
                                            \mthsnt, ... to do!
                                                  • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                                  \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathsf{Name}^{sup}_{sub}Ext1(Arg)Ext2
                                                  • \mathbb{E}_{sub}[Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                                            644 %% Style for Sentences
                                            645 \mbox{ \mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mb
              \aSnt, ... 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, 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
                                            646 \seqoflet{Snt}{mthsnt}
              \cmdmthsnt ... to do!
                                                  • \cmdmthsnt{cmdName};
                                                      • \cmdmthsnt{cmdName}[NewName];
                                                      \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                            647 \newcommandx{\cmdmthsnt}[2][2=]
                                            648 {\usrmth{#1}{Snt}{snt}[#2]}
       \c cmdmthargsnt ... to do!
```

```
\cmdmthargsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2|
                        \cmdmthargsnt{cmdName} [NewName];
                          \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\NewName|^{sub}_{sub}ext1(arg)ext2|
                     649 \newcommandx{\cmdmthargsnt}[2][2=]
                          {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                        \cmdmthoargsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\cmdNames|^{sub}(arg)
                        • \cmdmthoargsnt{cmdName}[NewName];
                          \colon = NewNameSnt[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                     651 \newcommandx{\cmdmthoargsnt}[2][2=]
                          {\usrmth{#1}{Snt}{oargsnt}[#2]}
 \cmdmthparsnt ... to do!
                        • \cmdmthparsnt{cmdName}:
                          \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                        • \cmdmthparsnt{cmdName}[NewName];
                          \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\NewName|^{sub}_{sub}ext1[par]ext2|
                     653 \newcommandx{\cmdmthparsnt}[2][2=]
                         {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                        \cmdmthoparsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdName|^{sub}_{sub}[par]|
                        • \cmdmthoparsnt{cmdName}[NewName];
                          \colon = NewNameSub[sub][sub][par] = NewNameSub[par]
                     655 \newcommandx{\cmdmthoparsnt}[2][2=]
                         {\usrmth{#1}{Snt}{oparsnt}[#2]}
  \mthfrm, ... to do!
                        • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                        \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                        • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                     657 %% Style for Formulae
                     658 \mbox{\cmmand{\bf https:/mathit}} \
     \aFrm, ... 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, 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,\ \varPhi,\ \varPhi,\ X,\ \Psi,\ \Omega
                     659 \seqoflet{Frm}{mthfrm}
     \cmdmthfrm ... to do!
                        \cmdmthfrm{cmdName};
                          \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthfrm{cmdName} [NewName];
                          \cmdNameFrm[sub][sub][ext] = NewName_{sub}^{sub}ext
                     660 \newcommandx{\cmdmthfrm}[2][2=]
                         {\usrmth{#1}{Frm}{frm}[#2]}
 \cmdmthargfrm ... to do!
                        • \cmdmthargfrm{cmdName};
                          \verb|\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
```

```
662 \newcommandx{\cmdmthargfrm}[2][2=]
                        {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                       • \cmdmthoargfrm{cmdName};
                         \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                       • \cmdmthoargfrm{cmdName}[NewName];
                         \c MameFrm[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                    664 \newcommandx{\cmdmthoargfrm}[2][2=]
                    665 {\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
                    666 \newcommandx{\cmdmthparfrm}[2][2=]
                    667 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                       • \cmdmthoparfrm{cmdName};
                         \colon dNameFrm[sub][sub][par] = cmdName_{sub}^{sub}[par]
                       • \cmdmthoparfrm{cmdName}[NewName];
                         \cmdNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                    668 \newcommandx{\cmdmthoparfrm}[2][2=]
                         {\usrmth{#1}{Frm}{oparfrm}[#2]}
                    \mthmat, ... to do!
                       • \mathbb{E}_{sub}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                       \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Arg][Ext2]} = \mathbf{Name}^{sup}_{sub}Ext1(Arg)Ext2
                       • \mathbb{E}_{sub}[Sub][Sup][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                    671 %% Style for Matrices
                    672 \cmdmthall{mat}\newcommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
    \aMat, ... 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,\,\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, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                    673 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                       • \cmdmthmat{cmdName};
                         \c Mame Mat[sub][sub][ext] = cmd Name _{sub}^{sub} ext
                       • \cmdmthmat{cmdName} [NewName];
                         \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName|^{sub}_{sub} ext|
                    674 \newcommandx{\cmdmthmat}[2][2=]
                    675 {\usrmth{#1}{Mat}{mat}[#2]}
 \cmdmthargmat ... to do!
                       \cmdmthargmat{cmdName};
                         \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \mathbf{cmdName}_{sub}^{sub} ext1(arg) ext2
                       • \cmdmthargmat{cmdName}[NewName];
                         \cmdNameMat[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                    676 \newcommandx{\cmdmthargmat}[2][2=]
                    677 {\usrmth{#1}{Mat}{argmat}[#2]}
```

```
\cmdmthoargmat ... to do!
                                           • \cmdmthoargmat{cmdName};
                                               \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargmat{cmdName}[NewName];
                                               \verb|\cmdNameMat[sub][sub][arg]| = \verb|NewName||_{sub}^{sub}(arg)
                                      678 \newcommandx{\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];
                                               \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \verb|NewName|^{sub}_{sub}ext1[par]ext2|
                                      680 \newcommandx{\cmdmthparmat}[2][2=]
                                               {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                           • \cmdmthoparmat{cmdName};
                                               \verb|\cmdNameMat[sub][sub][par]| = \mathbf{cmdName}_{sub}^{sub}[par]|
                                           • \cmdmthoparmat{cmdName}[NewName];
                                               \colon dNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                                      682 \newcommandx{\cmdmthoparmat}[2][2=]
                                              {\usrmth{#1}{Mat}{oparmat}[#2]}
    \mthvec, ... to do!
                                           ullet \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                           \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                                           \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]{Par}[Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2
                                      684 %% Style for Vectors
                                     685 \label{lem:command} $$685 \cmdmthall{vec}\newcommand{\mathbf \{\mthstyvec}[1]{\boldsymbol{\mathbf \{\#1\}}}$
         \aVec, ... 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,\,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
                                     686 \seqoflet{Vec}{mthvec}
         \cmdmthvec ... to do!
                                           \cmdmthvec{cmdName};
                                               \verb|\cmdNameVec[sub][sub][ext]| = cmdName^{sub}_{sub}ext|
                                           • \cmdmthvec{cmdName} [NewName];
                                               \colon = NewName^{sub}_{sub} = NewName^{sub}_{sub} = t
                                      687 \newcommandx{\cmdmthvec}[2][2=]
                                      688 {\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
                                      689 \newcommandx{\cmdmthargvec}[2][2=]
                                               {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                           • \cmdmthoargvec{cmdName};
                                               \colon = cmdName \col
```

```
\verb|\cmdNameVec[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
               691 \newcommandx{\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];
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = NewName^{sub}_{sub}ext1[par]ext2
               693 \newcommandx{\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]
               695 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
               702 \iftext@
               \adhoc
                 • \adhoc = ad\ hoc
               704 \cmdtxtabr{adhoc}[ad hoc]
    \afortiori
                 • \arrange a fortiori
               705 \cmdtxtabr{afortiori}[a fortiori]
     \apriori
                 • \apriori = a priori
               706 \cmdtxtabr{apriori}[a priori]
                 • \arrowvertaposteriori = a\ posteriori
  \aposteriori
               707 \cmdtxtabr{aposteriori}[a posteriori]
          \cf
                 • \backslash cf = cf.
               708 \cmdtxtabr{cf}[cf.]
      \dedicto
                 • \del{dedicto} = de \ dicto
               709 \cmdtxtabr{dedicto}[de dicto]
      \defacto
                 • \del{defacto} = de \ facto
               710 \cmdtxtabr{defacto}[de facto]
        \dere
                 • \forall dere = de re
               711 \cmdtxtabr{dere}[de re]
\divideetimpera
                 • \divideetimpera = divide et impera
               712 \cmdtxtabr{divideetimpera}[divide et impera]
          \eg
                 • \backslash eg = e.g.
               713 \cmdtxtabr{eg}[e.g.]
```

\cmdmthoargvec{cmdName} [NewName];

```
\ergo
                       ◆ \ergo = ergo
                    714 \cmdtxtabr{ergo}
                       • \errata = errata
         \errata
                    715 \cmdtxtabr{errata}
                       • \erratum = erratum
        \erratum
                    716 \cmdtxtabr{erratum}
           \etal
                      • \ensuremath{\backslash} \mathtt{etal} = et \ al.
                    717 \cmdtxtabr{etal}[et al.]
            \etc
                      • \backslashetc = etc.
                    718 \cmdtxtabr{etc}[etc.]
                      • \forallie = i.e.
              \ie
                    719 \cmdtxtabr{ie}[i.e.]
                       \bullet \mutatismutandis = mutatis\ mutandis
\mutatismutandis
                    720 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
      \percontra
                      • \percontra = per contra
                    721 \cmdtxtabr{percontra}[per contra]
     \primafacie
                       ullet \primafacie = prima\ facie
                    722 \cmdtxtabr{primafacie}[prima facie]
      \viceversa
                       • \viceversa = vice versa
                    723 \cmdtxtabr{viceversa}[vice versa]
                      • \vert vs = vs.
              \vs
                    724 \cmdtxtabr{vs}[vs.]
            \viz
                      • \viz = viz.
                    725 \cmdtxtabr{viz}[viz.]
                    \Afortiori
                      • \Afortiori = A fortiori
                    727 \cmdtxtabr{Afortiori}[A fortiori]
        \Apriori
                       • \Apriori = A \ priori
                    728 \cmdtxtabr{Apriori}[A priori]
    \Aposteriori
                       • \Aposteriori = A posteriori
                    729 \cmdtxtabr{Aposteriori}[A posteriori]
                       • \Dedicto = De \ dicto
        \Dedicto
                    730 \cmdtxtabr{Dedicto}[De dicto]
        \Defacto
                      \bullet \ \ \texttt{\ } \texttt{Defacto} = \textit{De facto}
                    731 \cmdtxtabr{Defacto} [De facto]
           \Dere
                       • \Dere = De re
                    732 \cmdtxtabr{Dere}[De re]
\Divideetimpera
                       • \Divideetimpera = Divide \ et \ impera
```

733 \cmdtxtabr{Divideetimpera}[Divide et impera]

```
\Eg
               • \Eg = E.g.
             734 \cmdtxtabr{Eg}[E.g.]
               • \Errata = Errata
      \Errata
              735 \cmdtxtabr{Errata}
      \Erratum
               • \Erratum = Erratum
             736 \cmdtxtabr{Erratum}
               • \Mutatismutandis = Mutatis mutandis
\Mutatismutandis
             737 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
    \Percontra
               • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
             738 \cmdtxtabr{Percontra}[Per contra]
   \Primafacie
                \bullet \ \ \verb|\Primafacie| = Prima\ facie \\
              739 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
               • \forall Viceversa = Vice versa
              740 \cmdtxtabr{Viceversa}[Vice versa]
              • \n naif = naif
        \n
              744 \mbox{cmdtxtabr{naif}[na\"{i}f]}
       \naive
               • \naive = naive
              745 \cmdtxtabr{naive}[na\"{i}ve]
        \role
               • \role = r\hat{o}le
              746 \cmdtxtabr{role}[r\^{o}le]
              \Role
               748 \cmdtxtabr{Role}[R\^{o}le]
              \aka
               750 \cmdtxtabr{aka}[a.k.a.]
       \contd
               • \contd = contd.
             751 \cmdtxtabr{contd}[contd.]
        \iff
               • \iff = iff
             752 \cmdtxtabr{iff}
               • \ \ \ \ stx = s.t.
        \stx
              753 \cmdtxtabr{stx}[s.t.]
        \resp
               • \resp = resp.
              754 \cmdtxtabr{resp}[resp.]
```

```
\wrt
            755 \cmdtxtabr{wrt}[w.r.t.]
     \wlogx
            • \wdots w.l.o.g.
           756 \cmdtxtabr{wlogx}[w.l.o.g.]
           \Contd
            • \c Contd = Contd.
           758 \cmdtxtabr{Contd}[Contd.]
            • \Wlogx = W.l.o.q.
     \Wlogx
           759 \cmdtxtabr{Wlogx}[W.l.o.g.]
           765 \ifmath@
           \defeq, \seteq ...
           767 \DeclareRobustCommand{\defeq}
           768 {\mthlbop{\triangleq}}
           769 \DeclareRobustCommand{\seteq}
           770 {\mthlbop{:=}}
           \implies, ...
           772 \DeclareRobustCommand{\implies}
           773 {\mthlrel{\Rightarrow}}
           774 \DeclareRobustCommand{\notimplies}
           775 {\mthlrel{\not\Rightarrow}}
 \implied, ... ...
           776 \DeclareRobustCommand{\implied}
           777 {\mthlrel{\Leftarrow}}
           778 \DeclareRobustCommand{\notimplied}
           779 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
           780 \DeclareRobustCommand{\coimplies}
           781 {\mthlrel{\Leftrightarrow}}
           782 \verb|\DeclareRobustCommand{\notcoimplies}|
           783 {\mthlrel{\not\!\Leftrightarrow}}
           \cmodels, ... ...
           785 \DeclareRobustCommand{\cmodels}
           786 {\mthlrel{\models}}
           787 \DeclareRobustCommand{\notcmodels}
           788 {\mthlrel{\not\models}}
 \landcequiv, ... ...
           789 \DeclareRobustCommand{\cequiv}
           790 {\mthlrel{\equiv}}
           791 \DeclareRobustCommand{\notcequiv}
           792 {\mthlrel{\not\equiv}}
```

```
\dual, \adj, ... ...
                                       794 \DeclareRobustCommand{\dual}[1]
                                                {\mth{\overline{#1}}}
                                       796 \DeclareRobustCommand{\adj}[1]
                                                {\mth{\mathring{#1}}}
                                        798 \DeclareRobustCommand{\der}[1]
                                                 {\mth{\widehat{#1}}}
                                       800 \DeclareRobustCommand{\trn}[1]
                                       801 \quad \{\mathbf{mth}\{\mathbf{41}\}\}
                         \vec ...
                                       802 \DeclareRobustCommand{\vec}[1]
                                        803 {\mth{\mathaccent"017E{#1}}}
                                       \enumeration, ... ...
                                       805 \\ \end{enumeration}_{\hf}_{\hf}_{\hf}
                                       806 \operatorname{denumerationx}{\mathbf{}}{;}{}{}
     \sequence, ... ...
                                       807 \varcmd{sequence}{\mth}{\left[}{,}{\right]}{}
                                       808 \\ \varcmd{sequencel}{\mth}{\left[}{,}{\right.}{}
                                       809 \varcmd{sequencer}{\mth}{\left.}{,}{\right]}{}
                                       810 \varcmd{sequencex}{\mth}{\left[}{;}{\right]}{}
                                       811 \varcmd{sequencexl}{\mth}{\left[}{;}{\right.}{}
                                       812 \end{sequencexr} {\bf \{} \end{sequencexr}
           \tuple, ... ...
                                       813 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
                                       814 \varcmd{tuplel}{\mth}{\left\langle}{,}{\right.}{}
                                       815 \varcmd{tupler}{\mth}{\left.}{,}{\right\rangle}{}
                                       816 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                                       817 \varcmd{tuplexl}{\mth}{\left\langle}{;}{\right.}{}
                                       818 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
                                       \set, ... ...
                                       820 \DeclareRobustCommand{\set}[2]
                                                {\argmid{\left\lbrace}{\argsep{#1}{\,\middle\vert\,}{#2}}{\right\rbrace}}
                                       822 \DeclareRobustCommand{\set1}[1]
                                       823 \quad {\argmid{\left\{ \left( \frac{\#1}{\,\right\} }\right\} }}
                                       824 \DeclareRobustCommand{\setr}[1]
                                                {\argmid{\left.}{#1}{\right\rbrace}}
                        \card ...
                                       826 \DeclareRobustCommand{\card}[1]
                                               {\mth{\argmid{\lvert}{#1}{\rvert}}}
                         ... woa/
                                       828 \DeclareRobustCommand{\pow}[1]
                                                {\bf 2^{\hat 1}}{\cdot}}
                      \denot ...
                                       830 \DeclareRobustCommand{\denot}[1]
                                                {\mth{\argmid{\llbracket}{#1}{\rrbracket}}}
```

```
\emptyrel ...
             833 \DeclareRobustCommand{\emptyrel}
             834 {\mth{\varnothing}}
             \dom, \cod, ... ...
             836 \DeclareRobustCommand{\dom}
             837 {\mthargfun{dom}}
             838 \DeclareRobustCommand{\cod}
             839 {\mthargfun{cod}}
             840 \DeclareRobustCommand{\rng}
             841 {\mthargfun{rng}}
             842 \DeclareRobustCommand{\img}
             843 \quad \{\mathbf{mthargfun\{img}\}\}\
             \prj ...
             845 \DeclareRobustCommand{\prj}
             846 {\mthargfun{prj}}
        \rst ...
             847 \DeclareRobustCommand{\rst}
             848 {\mthlbop{\upharpoonright}}
        \cmp ...
             849 \DeclareRobustCommand{\cmp}
             850 {\mthlbop{\circ}}
             \emptyfun ...
             852 \verb|\DeclareRobustCommand{\emptyfun}|
             853 {\mth{\varnothing}}
             \pto, \pmapsto
             855 \DeclareMathOperator{\pto}
             856 {\ensuremath{\rightharpoonup}}
             857 \DeclareMathOperator{\pmapsto}
             858 \qquad {\tt \{\notemath{\nathrel{\naisebox\{0.5ex\}{\notemathsize$\{\llcorner\}$\}\%}}}
                  \kern-1.5ex\rightharpoonup}}}
             \fix, \ifp, ... ...
             861 \DeclareRobustCommand{\fix}
             862 {\mthfun{fix}}
             863 \DeclareRobustCommand{\ifp}
             864 {\mthfun{ifp}}
             865 \DeclareRobustCommand{\lfp}
             866 {\mthfun{lfp}}
             867 \DeclareRobustCommand{\gfp}
                {\mthfun{gfp}}
             \Aomega, \AOmega
             870 \DeclareRobustCommand{\Aomega}
                {\mthargset{\omega}}
             872 \DeclareRobustCommand{\AOmega}
             873 {\mthargset{\Omega}}
```

```
\Atheta, \ATheta ...
                  874 \DeclareRobustCommand{\Atheta}
                  875 {\mthargset{\theta}}
                  876 \DeclareRobustCommand{\ATheta}
                  877 {\mthargset{\Theta}}
 \Aomicron, ... ...
                  878 \DeclareRobustCommand{\Aomicron}
                  879 {\mthargset{\omicron}}
                  880 \label{lem:bustCommand} $$80 \label{lem:bustCommand} \AOmicron $$
                  881 {\mthargset{\Omicron}}
                  \SetB ...
                  883 \DeclareRobustCommand{\SetB}
                  884 {\mthset[mathbb]{B}}
          \SetF ...
                  885 \DeclareRobustCommand{\SetF}
                  886 {\mthset[mathbb]{F}}
     \SetN, ... ...
                  887 \DeclareRobustCommand{\SetN}
                  888 {\mthset[mathbb]{N}}
                  889 \DeclareRobustCommand{\SetNI}[1][]
                  890 {\SetN[\infty #1]}
     \SetZ, ... ...
                  891 \DeclareRobustCommand{\SetZ}
                  892 {\mthset[mathbb]{Z}}
                  893 \DeclareRobustCommand{\SetZI}[1][]
                  894 {\SetZ[\pm\infty #1]}
                  895 \DeclareRobustCommand{\SetZPI}[1][]
                  896 {\SetZ[+\infty #1]}
                  897 \DeclareRobustCommand{\SetZNI}[1][]
                  898 {\SetZ[-\infty #1]}
     \SetQ, ... ...
                  899 \DeclareRobustCommand{\SetQ}
                  900 {\mthset[mathbb]{Q}}
                  901 \DeclareRobustCommand{\SetQI}[1][]
                  902 {\SetQ[\pm\infty #1]}
                  903 \DeclareRobustCommand{\SetQPI}[1][]
                  904 {\SetQ[+\infty #1]}
                  905 \DeclareRobustCommand{\SetQNI}[1][]
                  906 {\SetQ[-\infty #1]}
     \SetR, ... ...
                  907 \DeclareRobustCommand{\SetR}
                  908 {\mthset[mathbb]{R}}
                  909 \DeclareRobustCommand{\SetRI}[1][]
                  910 {\SetR[\pm\infty #1]}
                  911 \DeclareRobustCommand{\SetRPI}[1][]
                  912 {\SetR[+\infty #1]}
                  913 \DeclareRobustCommand{\SetRNI}[1][]
                  914 {\SetR[-\infty #1]}
     \SetC, ... ...
                  915 \DeclareRobustCommand{\SetC}
                  916 {\mthset[mathbb]{C}}
                  917 \DeclareRobustCommand{\SetCI}[1][]
                  918 {\SetC[\infty #1]}
```

```
\num, ... ...
              920 \DeclareRobustCommand{\num}[1]
              921
                 {\mth{[#1]}}
              922 \DeclareRobustCommand{\numcc}[2]
              923 {\mth{[\argsep{#1}{,}{#2}]}}
              924 \DeclareRobustCommand{\numco}[2]
                 {\mth{[\argsep{#1}{,}{#2})}}
              926 \DeclareRobustCommand{\numoc}[2]
              927 {\mth{(\argsep{#1}{,}{#2}]}}
              928 \DeclareRobustCommand{\numoo}[2]
                  {\mth{(\argsep{#1}{,}{#2}))}}
              \floor, \ceil
              931 \DeclareRobustCommand{\floor}[1]
              932 {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
              933 \DeclareRobustCommand{\ceil}[1]
                 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
              \arg ...
              936 \DeclareRobustCommand{\arg}
              937 {\mthfun{arg}}
    \evn, \odd ...
              938 \DeclareRobustCommand{\evn}
              939 {\mthfun{evn}}
              940 \DeclareRobustCommand{\odd}
              941 {\mthfun{odd}}
    \bst, ... ...
              942 \DeclareRobustCommand{\bst}
              943 {\mthfun{bst}}
              944 \DeclareRobustCommand{\argbst}
              945 {\mthfun{arg bst}}
\min, \max, ... ...
              946 \DeclareRobustCommand{\min}
              947 {\bf min}
              948 \DeclareRobustCommand{\max}
              949 {\bf mthfun\{max\}}
              950 \DeclareRobustCommand{\argmin}
                 {\mthfun{arg min}}
              952 \DeclareRobustCommand{\argmax}
                 {\mthfun{arg max}}
    \inf, \sup
              954 \DeclareRobustCommand{\inf}
              955 {\bf \{mthfun\{inf\}}
              956 \DeclareRobustCommand{\sup}
              957 {\bf \{mthfun\{sup\}}\}
              \emptyseq ...
              959 \DeclareRobustCommand{\emptyseq}
              960 {\bf \{nth\{varepsilon\}}\}
```

```
\fst, \lst ...
              961 \verb|\DeclareRobustCommand{\fst}|
              962 {\mthargfun{fst}}
              963 \DeclareRobustCommand{\lst}
              964 {\mathbf{t}}
              965 \fi
              970 \ifcom@
\defcomcls ... to do!
                • \defcomcls{CompClass};
                   \CompClass[sub][sup][ext] = COMPCLASS_{SUB}^{SUP}EXT
                   \CoCompClass[sub][sup][ext] = CoCompClass_{SUB}^{SUP}EXT
                   \CompClassE[sub][sup][ext] = COMPCLASS-EASY_{SUB}^{SUP}EXT
                   \verb|\CoCompClassE[sub][sup][ext]| = CoCompClass-Easy_{SUB}^{SUP}EXT|
                   \CompClassH[sub][sup][ext] = COMPCLASS-HARD_{SUB}^{SUP}EXT
                   \verb|\CoCompClassH[sub][sup][ext]| = CoCompClass-Hard_{Sup}^{SUP}EXT
                   \verb|\CompClassC[sub][sup][ext]| = CompClass-complete_{SUB}^{SUP}EXT
                   \CoCompClassC[sub][sup][ext] = CoCompClass-CompLete_{SUB}^{SUP}EXT
                  \verb|\NCompClass[sub][sup][ext]| = NCOMPCLASS^{SUP}_{SUB}EXT
                  \verb|\ConCompClass[sub][sup][ext]| = ConCompClass_{SUB}^{SUP}EXT
                  \verb|\NCompClassE[sub][sup][ext]| = NCompClass-Easy_{SUB}^{SUP}EXT|
                  \verb|\ConCompClassE[sub][sup][ext]| = ConCompClass-Easy_{SUB}^{SUP}EXT
                  \verb|\NCompClassH[sub][sup][ext]| = NCompClass-Hard_{SUB}^{SUP}EXT
                   \ConCompClassH[sub][sup][ext] = ConCompClass-Hard_{SUB}^{SUP}EXT
                   \label{eq:ncompClassC} $$\N{\compClassC[sub][sup][ext]} = N{\ccompClass-compLete}_{SUB}^{SUP}{\ccompClassC[sub][sup][ext]} = N{\ccompClassC[sub][sup][ext]} 
                   \verb|\ConCompClassC[sub][sup][ext]| = ConCompClass-complete_{sur}^{SUP}EXT
                  \UCompClass[sub][sup][ext] = UCompClass_{SUB}^{SUP}EXT
                  \texttt{CoUCompClass[sub][sup][ext]} = \texttt{CoUCompClass}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{EXT}
                  \UCompClassE[sub][sup][ext] = UCompClass-Easy_{SUB}^{SUP}EXT
                  \Coulomb Class E[sub][sup][ext] = Coulomb Class-Easy_{SUB}^{SUP}EXT
                  \verb|VCompClassH[sub][sup][ext]| = UCOMPCLASS-HARD_{SUB}^{SUP}EXT
                  \verb|\CoUCompClassH[sub][sup][ext]| = CoUCOMPCLASS-HARD_{SUB}^{SUP}EXT
                   \label{eq:UCompClassC} $$\UCompClassC[sub][sup][ext] = UCompClass-Complete_{SUB}^{SUP}EXT$
                  \verb|\CoUCompClassC[sub][sup][ext]| = CoUCOMPCLASS-COMPLETE_{SUB}^{SUP}EXT
                  \triangle CompClass[sub][sup][ext] = ACOMPCLASS_{SUB}^{SUP}EXT
                   \verb|\CoACompClass[sub][sup][ext]| = CoACompClass_{SUB}^{SUP}EXT
                   \verb|\ACompClassE[sub][sup][ext]| = ACOMPCLASS-EASY_{SUB}^{SUP}EXT
                   \verb|\CoACompClassE[sub][sup][ext]| = CoACompClass-Easy_{SUB}^{SUP}EXT
                   \ACompClassH[sub][sup][ext] = ACOMPCLASS-HARD_{SUB}^{SUP}EXT
                   \CoACompClassH[sub][sup][ext] = CoACompClass-Hard_{SUB}^{SUP}EXT
                   \triangle CompClassC[sub][sup][ext] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}EXT
                   \verb|\CoACompClassC[sub][sup][ext]| = CoACompClass-complete_{SUB}^{SUP}EXT
                 \defcomcls{CompClass}[NewClass];
                   \CompClass[sub][sup][ext] = NewClass_{Sub}^{SUP}EXT
                   \verb|\CoCompClass[sub][sup][ext]| = CoNewClass_{SUB}^{SUP}EXT
                   \CompClassE[sub][sup][ext] = NewClass-easy_{Sub}^{SUP}EXT
                   \CoCompClassE[sub][sup][ext] = CoNewClass-Easy_{SUB}^{SUP}EXT
                   \CompClassH[sub][sup][ext] = NewClass-Hard_{SUB}^{SUP}EXT
                   \verb|\CoCompClassH[sub][sup][ext]| = CoNewClass-Hard_{Sur}^{SUP}EXT
                   \verb|\CompClassC[sub][sup][ext]| = NewClass-complete_{SUB}^{SUP}EXT
                   \verb|\CoCompClassC[sub][sup][ext]| = CoNewClass-complete_{SUB}^{SUP}EXT
                   \N{\c CompClass[sub][sup][ext]} = NN{\c EWCLASS}_{SUB}^{SUP}{\c EXT}
                   \verb|\CoNCompClass[sub][sup][ext]| = CoNNewClass^{SUP}_{SUB}EXT
```

```
\verb|\CoNCompClassE[sub][sup][ext]| = CoNNewClass-Easy_{SUB}^{SUP}EXT|
                          \verb|\NCompClassH[sub][sup][ext]| = NNEWCLASS-HARD_{SUB}^{SUP}EXT
                          \verb|\ConCompClassH[sub][sup][ext]| = ConNewClass-Hard_{SUB}^{SUP}EXT
                          \verb|\NCompClassC[sub][sup][ext]| = NNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                          \ConCompClassC[sub][sup][ext] = ConNewClass-Complete_{SUB}^{SUP}EXT
                          \verb|\UCompClass[sub][sup][ext]| = UNEWCLASS^{SUP}_{SUB}EXT
                          \verb|\CoUCompClass[sub][sup][ext]| = CoUNEWCLASS_{SUB}^{SUP}EXT
                          \verb|\UCompClassE[sub][sup][ext]| = UNEWCLASS-EASY_{SUB}^{SUP}EXT
                          \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEWCLASS-EASY_{SUB}^{SUP}EXT
                          \verb|\UCompClassH[sub][sup][ext]| = UNEWCLASS-HARD_{SUB}^{SUP}EXT
                          \Coulomb ClassH[sub][sup][ext] = CoUNEW CLASS-HARD_{SUR}^{SUP}EXT
                          \UCompClassC[sub][sup][ext] = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                          \verb|\CoUCompClassC[sub][sup][ext]| = CoUNewClass-Complete_{SUB}^{SUP}EXT
                          \triangle CompClass[sub][sup][ext] = ANEWCLASS_{SUB}^{SUP}EXT
                          \CoACompClass[sub][sup][ext] = CoANEWCLASS_{SUB}^{SUP}EXT
                          \triangle CompClassE[sub][sup][ext] = ANEWCLASS-EASY_{SUB}^{SUP}EXT
                          \verb|\CoACompClassE[sub][sup][ext]| = CoANewClass-easy_{sup}^{SUP}EXT|
                          \Lambda CompClassH[sub][sup][ext] = ANEWCLASS-HARD_{SUB}^{SUP}EXT
                          \verb|\CoACompClassH[sub][sup][ext]| = CoANewClass-Hard_{SUB}^{SUP}EXT
                          \verb|\ACompClassC[sub][sup][ext]| = ANEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                          \CoACompClassC[sub][sup][ext] = CoANewClass-CompLete_{Sup}^{SUP}EXT
                     971 \newcommandx{\defcomcls}[2][2=]
                          {\defcomclssem{#1}{\defval{#2}{#1}}%
                           \displaystyle \operatorname{defcomclssem}\{\#1\}\{\operatorname{defval}\{\#2\}\{\#1\}\}[Co]\}
                     973
                     974 \newcommandx{\defcomclssem}[3][3=]
                     975
                         {\defcomclsred{#3#1}{#2}[#3]%
                          \defcomclsred{#3N#1}{#2}[#3N]%
                          \defcomclsred{#3U#1}{#2}[#3U]%
                          \defcomclsred{#3A#1}{#2}[#3A]}
                     979 \newcommandx{\defcomclsred}[3][3=]
                          {\defcomclscmd{#1}{#2}[#3]%
                          \defcomclscmd{#1E}{#2}[#3][-easy]%
                     981
                          \defcomclscmd{#1H}{#2}[#3][-hard]%
                     982
                          \defcomclscmd{#1C}{#2}[#3][-complete]}%
                     984 \newcommandx{\defcomclscmd}[4][3=, 4=]
                          {\csdef{#1}{\txtcom{#3#2#4}}}
       \defcomhrc ... to do!
                        • \defcomhrc{CompHierarchy};
                          CompHierarchy[sub][sup][ext] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>EXT
                        • \defcomhrc{CompHierarchy} [NewHierarchy];
                          CompHierarchy[sub][sup][ext] = NEWHIERARCHY_{SUB}^{SUP}EXT
                     986 \newcommandx{\defcomhrc}[2][2=]
                          {\csdef{#1}{\txtcom{\defval{#2}{#1}}}}
                     \Easy, \Hard, ...
                     989 \cmdtxtcom{Easy}
                     990 \cmdtxtcom{Hard}
                     991 \cmdtxtcom{Complete}
                     • Time[sub][sup][ext] = TIME_{SUB}^{SUP}EXT
       \Time, ...
                          \verb|\TimeE[sub][sup][ext]| = TIME-EASY_{SUR}^{SUP}EXT
                          TimeH[sub][sup][ext] = TIME-HARD_{SUB}^{SUP}EXT
                          TimeC[sub][sup][ext] = TIME-COMPLETE_{SUB}^{SUP}EXT
```

 $\NCompClassE[sub][sup][ext] = NNEWCLASS-EASY_{SUB}^{SUP}EXT$

```
\verb| NTimeC[sub][sup][ext] = NTime-complete | Sup | Su
                                       \UTimeE[sub][sup][ext] = UTIME-EASY_{SUB}^{SUP}EXT
                                          \verb|\UTimeH[sub][sup][ext]| = UTime-Hard_{SUB}^{SUP}EXT
                                          \verb| UTimeC[sub][sup][ext] = UTime-complete_{sub}^{sup}Ext
                                       • ATime[sub][sup][ext] = ATIME_{SUB}^{SUP}EXT
                                           \verb|\ATimeE[sub][sup][ext]| = ATime-EASY_{SUB}^{SUP}EXT
                                           \Delta TimeH[sub][sup][ext] = ATIME-HARD_{SUB}^{SUP}EXT
                                          \verb| ATimeC[sub][sup][ext] = ATIME-COMPLETE_{SUB}^{SUP}EXT|
                                  993 \defcomcls{Time}
      \Space, ...
                                       \verb|\SpaceE[sub][sup][ext]| = SPACE-EASY_{SUB}^{SUP}EXT
                                           \SpaceH[sub][sup][ext] = SPACE-HARD_{SUB}^{SUP}EXT
                                           \SpaceC[sub][sup][ext] = SPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • \NSpace[sub][sup][ext] = NSPACE_{SUB}^{SUP}EXT
                                          \verb|\NSpaceE[sub][sup][ext]| = NSPACE-EASY_{SUB}^{SUP}EXT
                                           \verb|\NSpaceH[sub][sup][ext]| = NSPACE-HARD_{SUB}^{SUP}EXT
                                           \NSpaceC[sub][sup][ext] = NSPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • USpace[sub][sup][ext] = USPACE_{SUB}^{SUP}EXT
                                           \USpaceE[sub][sup][ext] = USPACE-EASY_{SUB}^{SUP}EXT
                                           \verb|\USpaceH[sub][sup][ext]| = USpace-Hard_{Sub}^{SUP}EXT
                                           \USpaceC[sub][sup][ext] = USPACE-COMPLETE_{SUB}^{SUP}EXT
                                       • ASpace[sub][sup][ext] = ASPACE_{SUB}^{SUP}EXT
                                           \verb|\ASpaceE[sub][sup][ext]| = ASPACE-EASY_{SUB}^{SUP}EXT
                                           \verb|\ASpaceH[sub][sup][ext]| = ASPACE-HARD_{SUB}^{SUP}EXT
                                          ASpaceC[sub][sup][ext] = ASPACE-COMPLETE_{SUB}^{SUP}EXT
                                  994 \defcomcls{Space}
 \LogTime, ...
                                       • \lfloor LogTime[sub][sup][ext] = LogTime_{Sub}^{Sup}EXT
                                          \lceil LogTimeE[sub][sup][ext] = LogTime-Easy_{Sub}^{SUP}EXT
                                          LogTimeH[sub][sup][ext] = LogTime-Hard_{Sub}^{Sup}EXT
                                          \verb|\LogTimeC[sub][sup][ext]| = LogTime-complete_{sup}^{SUP}EXT|
                                       • NLogTime[sub][sup][ext] = NLogTime_{SUP}^{SUP}EXT
                                           \NLogTimeE[sub][sup][ext] = NLogTime-EASY_{SUB}^{SUP}EXT
                                           \NLogTimeH[sub][sup][ext] = NLogTime-HARD_{SUB}^{SUP}EXT
                                          \label{eq:NLogTimeC} $$\NLogTimeC[sub][sup][ext] = NLogTime-COMPLETE_{SUB}^{SUP}EXT$
                                       • \ULogTime[sub][sup][ext] = ULogTime_{SUB}^{SUP}EXT
                                          \ULogTimeE[sub][sup][ext] = ULogTime-EASY_{SUB}^{SUP}EXT
                                           \ULogTimeH[sub][sup][ext] = ULogTime-Hard_{Sub}^{SUP}EXT
                                          \ULogTimeC[sub][sup][ext] = ULogTIME-COMPLETE_{SUB}^{SUP}EXT
                                       • ALogTime[sub][sup][ext] = ALogTime_{SUB}^{SUP}EXT
                                          \verb|\ALogTimeE[sub][sup][ext]| = ALogTime-Easy_{SUB}^{SUP}EXT
                                          \Lambda = ALogTimeH[sub][sup][ext] = ALogTime-Hard_{Sup}^{SUP}EXT
                                          ALogTimeC[sub][sup][ext] = ALogTime-Complete_{Sub}^{SUP}EXT
                                 995 \defcomcls{LogTime}
                                        \bullet \ \texttt{LogSpace[sub][sup][ext]} = \mathrm{LogSpace}^{SUP}_{SUB} EXT \\
\LogSpace, ...
                                          \verb|\LogSpaceE[sub][sup][ext]| = LogSpace-Easy_{SUB}^{SUP}EXT
                                          LogSpaceH[sub][sup][ext] = LogSpace-Hard_{Sub}^{SUP}EXT
                                          LogSpaceC[sub][sup][ext] = LogSpace-Complete_{Sub}^{SUP}EXT
                                       \NLogSpaceE[sub][sup][ext] = NLogSpace-Easy_{SUB}^{SUP}EXT
                                           \verb|\NLogSpaceH[sub][sup][ext]| = NLogSpace-hard_{SUB}^{SUP}EXT
                                          \NLogSpaceC[sub][sup][ext] = NLogSpace-Complete_{SUB}^{SUP}EXT
```

• $\NTime[sub][sup][ext] = NTIME_{SUB}^{SUP}EXT$

 $\label{eq:NTimeEsub} $$ [\sup] [ext] = NTIME-EASY_{SUB}^{SUP} EXT $$ NTIMEH[sub] [sup] [ext] = NTIME-HARD_{SUB}^{SUB} EXT $$ Extra $$ NT$

• \ALogSpace[sub][sup][ext] = ALogSpace_Sup_EXT $\verb|\ALogSpaceE[sub][sup][ext]| = ALogSpace-easy_{\text{\tiny SUP}}^{\text{SUP}} EXT$ $\verb|\ALogSpaceH[sub][sup][ext]| = ALogSpace-hard_{SUB}^{SUP}EXT$ $\verb|\ALogSpaceC[sub][sup][ext]| = ALogSpace-complete_{SUB}^{SUP}EXT$ 996 \defcomcls{LogSpace} \PTime, ... • \P [sub] [sup] [ext] = $PTIME_{SUB}^{SUP}EXT$ \PTimeE[sub][sup][ext] = PTIME-EASY_SUP_EXT \P \PTimeH[sub][sup][ext] = \PTIME-HARD_SUP_SUP_EXT $\PTimeC[sub][sup][ext] = PTIME-COMPLETE_{SUB}^{SUP}EXT$ $\verb|\NPTimeE[sub][sup][ext]| = NPTIME-EASY_{SUB}^{SUP}EXT$ $\verb|\NPTimeH[sub][sup][ext]| = NPTIME-HARD_{SUB}^{SUP}EXT$ $\NPTimeC[sub][sup][ext] = NPTIME-COMPLETE_{SUB}^{SUP}EXT$ • $\UPTime[sub][sup][ext] = UPTIME_{SUB}^{SUP}EXT$ $\UPTimeE[sub][sup][ext] = UPTIME-EASY_{SUP}^{SUP}EXT$ $\label{eq:uptimeH} $$ \operatorname{UPTIME-HARD}_{SUB}^{SUP} = \operatorname{UPTIME-HARD}_{SUB}^$ $\UPTimeC[sub][sup][ext] = UPTIME-COMPLETE_{SUB}^{SUP}EXT$ $\bullet \ \ \texttt{APTime[sub][sup][ext]} = APTIME^{SUP}_{SUB}EXT$ $\label{eq:aptimeEsub} $$ \Delta PTimeE[sub][sup][ext] = APTIME-EASY_{SUB}^{SUP}EXT $$$ $\verb| APTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT$ $\APTimeC[sub][sup][ext] = APTIME-COMPLETE_{SUB}^{SUP}EXT$ 997 \defcomcls{PTime} • $\PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT$ \PSpace, ... $\verb|\PSpaceE[sub][sup][ext]| = PSPACE-EASY_{SUB}^{SUP}EXT$ $\label{eq:pspaceH} $$ \PSpaceH[sub][sup][ext] = PSpace-Hard_{Sub}^{SUP}EXT$ $\label{eq:pspaceC} $$ \PSpaceC[sub][sup][ext] = PSpace-Complete_{SUB}^{SUP}EXT $$ • $\NPSpace[sub][sup][ext] = NPSPACE_{SUB}^{SUP}EXT$ $\verb|NPSpaceE[sub][sup][ext]| = NPSPACE-EASY_{SUB}^{SUP}EXT|$ $\NPSpaceH[sub][sup][ext] = NPSPACE-HARD_{SUB}^{SUP}EXT$ $\verb|\NPSpaceC[sub][sup][ext]| = NPSPACE-COMPLETE_{SUB}^{SUP}EXT$ • \UPSpace[sub][sup][ext] = UPSPACE_SUP_EXT $\verb|VPSpaceE[sub][sup][ext]| = UPSPACE-EASY_{SUB}^{SUP}EXT|$ $\UPSpaceH[sub][sup][ext] = UPSpace-HARD_{SUB}^{SUP}EXT$ $\verb| UPSpaceC[sub][sup][ext] = UPSPACE-COMPLETE^{SUP}_{SUB}EXT$ • $APSpace[sub][sup][ext] = APSPACE_{SUB}^{SUP}EXT$ $\verb|\APSpaceE[sub][sup][ext]| = APSPACE-EASY_{SUB}^{SUP}EXT$ $APSpaceH[sub][sup][ext] = APSPACE-HARD_{SUB}^{SUP}EXT$ $\label{eq:apsilon} $$ APSpaceC[sub][sup][ext] = APSPACE-COMPLETE_{SUB}^{SUP}EXT $$$ 998 \defcomcls{PSpace} • $\QPTime[sub][sup][ext] = QPTIME_{SUB}^{SUP}EXT$ \QPTime, ... $\label{eq:QPTimeEsub} $$ \PTIME-EASY_{SUB}^{SUP} = QPTIME-EASY_{SUB}^{SUP} = QPTIME-EASY_{SUB}^{SUB}^{SUP} = QPTIME-EASY_{SUB}^{SUP} = QPTIME-EASY_{SUB}^{SUP} = QPTIME-EASY_{SUB}^{SUP} = QPTIME-EASY_{SUB}^{SUP} = QPTIME-EASY_$ $\verb|\QPTimeH[sub][sup][ext]| = \mathrm{QPTIME-HARD}^{SUP}_{SUB}\mathrm{EXT}|$ $\QPTimeC[sub][sup][ext] = QPTIME-COMPLETE_{SUB}^{SUP}EXT$ • $\NQPTime[sub][sup][ext] = NQPTIME_{SUB}^{SUP}EXT$ $\verb|\NQPTimeE[sub][sup][ext]| = NQPTIME-EASY_{SUB}^{SUP}EXT|$ $\verb|\NQPTimeH[sub][sup][ext]| = NQPTIME-HARD_{SUB}^{SUP}EXT$ $\verb|\NQPTimeC[sub][sup][ext]| = NQPTIME-COMPLETE_{SUB}^{SUP}EXT|$ • $\UQPTime[sub][sup][ext] = UQPTIME_{SUB}^{SUP}EXT$ $\verb|VQPTimeE[sub][sup][ext]| = UQPTIME-EASY_{SUB}^{SUP}EXT$ $\verb|VQPTimeH[sub][sup][ext]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}\mathrm{EXT}$ $\label{eq:uqptimec} $$ \UQPTimeC[sub][sup][ext] = UQPTIME-COMPLETE_{SUB}^{SUP}EXT $$$

• \ULogSpace[sub][sup][ext] = ULogSpace_Sup_EXT

 $\label{eq:logspace} $$ \U\log PACE-EASY_{SUB}^{SUP} = ULOGSPACE-EASY_{SUB}^{SUP} = ULOGSPACE-HARD_{SUB}^{SUP} = ULOGSPACE-HARD_{SUB}^{SUP} = ULOGSPACE-COMPLETE_{SUB}^{SUP} = ULOGSPACE-COMPLETE_{SUB}^$

```
\verb|\AQPTimeE[sub][sup][ext]| = \mathrm{AQPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                            \verb|\AQPTimeH[sub][sup][ext]| = \mathrm{AQPTIME-HARD}^{SUP}_{SUB}\mathrm{EXT}|
                           \verb| AQPTimeC[sub][sup][ext] = AQPTIME-COMPLETE_{SUB}^{SUP}EXT
                      999 \defcomcls{QPTime}
 \QPSpace, ...
                         • \QPSpace[sub][sup][ext] = QPSPACE_{SUB}^{SUP}EXT
                           \verb|\QPSpaceE[sub][sup][ext]| = QPSpace-easy_{Sub}^{Sup}ext|
                            \verb|\QPSpaceH[sub][sup][ext]| = QPSPACE-HARD_{SUB}^{SUP}EXT|
                           \label{eq:QPSpaceCsub} $$ \QPSpaceC[sub][sup][ext] = QPSpace-COMPLETE_{SUB}^{SUP}EXT $$
                         • \NQPSpace[sub][sup][ext] = NQPSPACE_{SUB}^{SUP}EXT
                           \NQPSpaceE[sub][sup][ext] = NQPSPACE-EASY_{SUP}^{SUP}EXT
                           \NQPSpaceH[sub][sup][ext] = NQPSPACE-HARD_{SUP}^{SUP}EXT
                           \NQPSpaceC[sub][sup][ext] = NQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                         \verb|VQPSpaceE[sub][sup][ext]| = UQPSPACE-EASY_{SUB}^{SUP}EXT|
                            \verb|VQPSpaceH[sub][sup][ext]| = UQPSPACE-HARD_{SUB}^{SUP}EXT
                            \UQPSpaceC[sub][sup][ext] = UQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                         • AQPSpace[sub][sup][ext] = AQPSPACE_{SUB}^{SUP}EXT
                           \verb|\AQPSpaceE[sub][sup][ext]| = AQPSPACE-EASY_{SUB}^{SUP}EXT
                           \verb|\AQPSpaceH[sub][sup][ext]| = AQPSPACE-HARD_{SUB}^{SUP}EXT
                            \verb|\AQPSpaceC[sub][sup][ext]| = \mathrm{AQPSPACE\text{-}COMPLETE}^{SUP}_{SUB}\mathrm{EXT}
                     1000 \defcomcls{QPSpace}
 \ExpTime, ...
                         • \text{ExpTime[sub][sup][ext]} = \text{EXPTIME}_{\text{SUB}}^{\text{SUP}} \text{EXT}
                           \verb|\ExpTimeE[sub][sup][ext]| = EXPTIME-EASY_{SUB}^{SUP}EXT
                            \texttt{ExpTimeH[sub][sup][ext]} = \texttt{ExpTime-HARD}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{Ext}
                           \texttt{ExpTimeC[sub][sup][ext]} = \texttt{ExpTime-complete}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{Ext}
                         • NExpTime[sub][sup][ext] = NEXPTIME_{SUB}^{SUP}EXT
                           \verb|\NExpTimeE[sub][sup][ext]| = NEXPTIME-EASY_{SUB}^{SUP}EXT
                           \NExpTimeH[sub][sup][ext] = NEXPTIME-HARD_{SUB}^{SUP}EXT
                           \NExpTimeC[sub][sup][ext] = NEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                         • \UExpTime[sub][sup][ext] = UEXpTIME_{SUB}^{SUP}EXT
                           \UExpTimeE[sub][sup][ext] = UEXPTIME-EASY_{SUB}^{SUP}EXT
                           \UExpTimeH[sub][sup][ext] = UExpTIME-HARD_{SUB}^{SUP}EXT
                           \verb|\UExpTimeC[sub][sup][ext]| = UEXPTIME-COMPLETE^{SUP}_{SUR}EXT|
                         • \AExpTime[sub][sup][ext] = AExpTime_SUP_EXT
                            \texttt{AExpTimeE[sub][sup][ext]} = AEXPTIME-EASY_{SUB}^{SUP}EXT
                            \Delta ExpTimeH[sub][sup][ext] = AEXPTIME-HARD_{SUB}^{SUP}EXT
                            \verb|\AExpTimeC[sub][sup][ext]| = AEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                     1001 \defcomcls{ExpTime}
                         • \ExpSpace[sub][sup][ext] = ExpSpace_{SUB}^{SUP}EXT
\ExpSpace, ...
                           \verb|\ExpSpaceE[sub][sup][ext]| = EXPSPACE-EASY_{SUB}^{SUP}EXT
                            \verb|\ExpSpaceH[sub][sup][ext]| = ExpSpace-Hard_{SUB}^{SUP}EXT
                            \ExpSpaceC[sub][sup][ext] = ExpSpace-CompleteSup_Ext
                         • \NExpSpace[sub][sup][ext] = NEXPSPACE_{SUB}^{SUP}EXT
                            \NExpSpaceE[sub][sup][ext] = NEXPSPACE-EASY_{SUB}^{SUP}EXT
                            \verb|\NExpSpaceH[sub][sup][ext]| = NEXPSPACE-HARD_{SUB}^{SUP}EXT
                           \NExpSpaceC[sub][sup][ext] = NEXpSpace-COMPLETE_{SUB}^{SUP}EXT
                         • \UExpSpace[sub][sup][ext] = UExpSpace_{SUB}^{SUP}EXT
                           \verb|\UExpSpaceE[sub][sup][ext]| = UEXPSPACE-EASY_{SUB}^{SUP}EXT
                           \verb|\UExpSpaceH[sub][sup][ext]| = UEXPSPACE-HARD_{SUB}^{SUP}EXT
                           \UExpSpaceC[sub][sup][ext] = UExpSpace-Complete_{SUB}^{SUP}EXT
                         \bullet \ \texttt{\AExpSpace[sub][sup][ext]} = AExpSpace[sub][sup][ext] = AExpSpace[sub][sup][ext]
                            \texttt{AExpSpaceE[sub][sup][ext]} = \text{AExpSpace-Easy}_{\text{SUB}}^{\text{SUP}} \text{EXT}
                            \verb|\AExpSpaceH[sub][sup][ext]| = AEXPSPACE-HARD_{SUB}^{SUP}EXT
                           \texttt{AExpSpaceC[sub][sup][ext]} = \text{AExpSpace-complete}_{\text{SUB}}^{\text{SUP}} \text{Ext}
```

1002 \defcomcls{ExpSpace}

• $AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT$

```
\PH
                                       • \PH[sub][sup][ext] = PH_{SUB}^{SUP}EXT
                                 1004 \defcomhrc{PH}
                                 1005 \fi
                                 1010 \ifgam@
                                 \SATG, ...
                                 1012 %% Satisfiability Games
                                 1013 \cmdtxtoparname{SATG}[Sat]
                                 1014
                                 1015 %% Validity Games
                                 1016 \cmdtxtoparname{VALG}[Val]
                                 1017
                                 1018 % Evaluation Games
                                 1019 \cmdtxtoparname{EVLG}[Evl]
                                 1020
                                 1021 %% Synthesis Games
                                 1022 \cmdtxtoparname{SYNG}[Syn]
                                 1023
                                 1024 %% Model-Checking Games
                                 1025 \cmdtxtoparname{MCG} [MC]
                                 1026
                                 1027 %% Ehrenfeucht-Fraisse Games
                                 1028 \cmdtxtoparname{EFG}[EF]
                                 \PlrSym, \OppSym
                                 1030 \newcommand{\plrsym}{E}
                                 1031 \cmdmthsym{Plr}[\plrsym]
                                 1032 \newcommand{\oppsym}{A}
                                 1033 \cmdmthsym{Opp}[\oppsym]
 \ArenaName, ... ...
                                 1034 \newcommand{\arenaname}{A}
                                 1035 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
       \PosSet, ... ...
                                 1036 \newcommand{\possym}{v}
                                 1037 \newcommand{\posset}{Ps}
                                 1038 \cmdmthsetext{Pos}[\posset][\possym]
                                 1039 \cmdmthsymelm{ipos}[\possym_{I}]
                                 1040 \cmdmthsymelm{fpos}[\possym_{F}]
                                 1041 \cmdmthset{PPos}[\posset_{\PlrSym}]
                                 1042 \verb|\cmdmthsymelm{ppos}[\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\
                                 1043 \verb|\cmdmthset{OPos}[\posset_{\norm{NPSym}}]|
                                 1044 \cmdmthsymelm{opos}[\possym_{\0ppSym}]
                \PlrFun ...
                                 1045 \newcommand{\plrfun}{pl}
                                 1046 \cmdmthfun{plr}[\plrfun]
                \MovRel
                                 1047 \newcommand{\movrel}{Mv}
                                 1048 \cmdmthrel{Mov}[\movrel]
```

```
\GameName, ... ...
                                               1049 \mbox{ \newcommand{\gamename}{\Game}}
                                               1050 \ \tt [Name] \{name] [name] \ \tt [Name] [name] [name] \ \tt 
                        \WinSet
                                               1051 \newcommand{\winset}{Wn}
                                               1052 \mbox{ \cmdmthset{Win}[\winset]}
  \ObsSet, \obsFun
                                               1053 \newcommand{\obsset}{Ob}
                                               1054 \cmdmthset{Obs}[\obsset]
                                               1055 \cmdmthfun{obs}
                                               \PthSet, \pthFun
                                               1057 \newcommand{\pthsym}{\pi}
                                               1058 \newcommand{\pthset}{Pth}
                                               1059 \cmdmthsetext{Pth}[\pthset][\pthsym]
                                               1060 \cmdmthfun{pth}
            \HstSet, ...
                                              1061 \newcommand{\hstsym}{\rho}
                                               1062 \mbox{ \newcommand{\hstset}{Hst}}
                                               1063 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                               1064 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                               1065 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                               1066 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                               1067 \verb|\cmdmthsymelm{ohst}[\hstsym_{\colored}]|
                                               1068 \cmdmthfun{hst}
\PlaySet,\playFun
                                               1069 \newcommand{\playsym}{\pi}
                                               1070 \newcommand{\playset}{Play}
                                               1071 \cmdmthsetext{Play}[\playset][\playsym]
                                               1072 \cmdmthfun{play}
            \StrSet, ...
                                              1073 \newcommand{\strsym}{\sigma}
                                              1074 \newcommand{\strset}{Str}
                                               1075 \verb|\cmdmthsetext{Str}| [\verb|\strset|] [\|\strsym|]
                                               1076 \cmdmthset{PStr}[\strset_{\PlrSym}]
                                               1077 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                                               1078 \verb|\cmdmthset{OStr}[\strset_{\oppSym}]|
                                               1079 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored{OppSym}}]
  \PrfSet, \prfFun
                                               1080 \newcommand{\prfsym}{\xi}
                                               1081 \newcommand{\prfset}{Prf}
                                               1082 \cmdmthsetext{Prf}[\prfset][\prfsym]
  \preFun, \sucFun
                                               1083 \newcommand{\prefun}{pre}
                                               1084 \cmdmthoargfun{pre}[\prefun]
                                               1085 \newcommand{\sucfun}{suc}
                                               1086 \cmdmthoargfun{suc}[\sucfun]
  \entFun, \escFun
                                               1087 \newcommand{\entfun}{ent}
                                               1088 \cmdmthoargfun{ent}[\entfun]
                                               1089 \mbox{ \newcommand{\escfun}{esc}}
                                               1090 \cmdmthoargfun{esc}[\escfun]
```

```
\intFun, \outFun ...
               1091 \newcommand{\left\{ \inf \right\}}
               1092 \mbox{ \cmdmthoargfun{int}[\intfun]}
               1093 \mbox{ \newcommand{\outfun}{out}}
               1094 \verb|\cmdmthoargfun{out}| [\verb|\outfun|]|
\atrFun, \rchFun ...
               1095 \newcommand{\atrfun}{atr}
               1096 \cmdmthoargfun{atr}[\atrfun]
               1097 \newcommand{\rchfun}{rch}
               1098 \cmdmthoargfun{rch}[\rchfun]
      \liftFun ...
               1099 \newcommand{\liftfun}{lift}
               1100 \cmdmthoargfun{lift}[\liftfun]
       \solFun ...
               1101 \newcommand{\solfun}{sol}
               1102 \cmdmthoargfun{sol}[\solfun]
               \BG, ... ...
               1104 %% Buchi Games
               1105 \cmdtxtoparname{BG}
               1106
               1107 %% Co-Buchi Games
               1108 \cmdtxtoparname{CG}
               1110 %% Parity Games
               1111 \cmdtxtoparname{PG}
               1112
               1113 %% Rabin Games
               1114 \cmdtxtoparname{RG}
               1116 %% Streett Games
               1117 \cmdtxtoparname{SG}
               1118
               1119 %% Muller Games
               1120 \cmdtxtoparname{MG}
               \EvnSym, \OddSym
               1122 \mbox{ } \mbox{newcommand{\evnsym}{0}}
               1123 \cmdmthsym{Evn} [\evnsym]
               1124 \mbox{ } \mbox{newcommand{\oddsym}{1}}
               1125 \cmdmthsym{Odd} [\oddsym]
\PrtSet, \prtFun ...
               1126 \newcommand{\prtsym}{p}
               1127 \newcommand{\prtset}{Pr}
               1128 \cmdmthsetext{Prt}[\prtset][\prtsym]
               1129 \cmdmthfun{prt}[pr]
               \EG, ... ...
               1132 %% Energy Games
```

1133 \cmdtxtoparname{EG}

```
1134
                                 1135 %% Mean-Payoff Games
                                 1136 \cmdtxtoparname{MPG}
                                 1138 %% Discounted-Payoff Games
                                 1139 \cmdtxtoparname{DPG}
                                 \MaxSym, \MinSym
                                 1141 \newcommand{\maxsym}{\oplus}
                                 1142 \cmdmthsym{Max}[\maxsym]
                                 1143 \newcommand{\minsym}{\boxminus}
                                 1144 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun
                                1145 \mbox{ } \mbox{newcommand{\wghsym}{w}}
                                 1146 \newcommand{\wghset}{Wg}
                                 1147 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
                                 1148 \cmdmthfun{wgh} [wg]
                                 1150 \fi
                                 1155 \iflog@
                                 \BF, \QBF, ... ...
                                1157 % Boolean Formulae
                                1158 \cmdtxtoparname{BF}
                                1160 % Quantified Boolean Formulae
                                1161 \DeclareRobustCommand{\QBF}
                                          {\{\text{txtname}\{Q\}\}\setminus BF\}}
                                 1163 \DeclareRobustCommand{\EBF}
                                          {\ensuremath{\exists}\BF}
                                 1165 \DeclareRobustCommand{\UBF}
                                          {\ensuremath{\forall}\BF}
                                 \LogSig, ... ...
                                 1168 \mbox{ \newcommand{\logsig}{L}}
                                1169 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
              \Tt, \Ff ...
                                 1170 \mbox{ } \mbox
                                 1171 \usrmth{Tt}{}{sym}[\ttsym]
                                 1172 \mbox{newcommand{\ffsym}{\bot}}
                                1173 \usrmth{Ff}{}{sym}[\ffsym]
       \LNeg, \LNot ...
                                 1174 \newcommand{\lnegsym}{\neg}
                                 1175 \usrmth{LNeg}{}{luop}[\lnegsym]
                                 1176 \newcommand{\lnotsym}{\sim}
                                 1177 \usrmth{LNot}{}{luop}[\lnotsym]
```

```
\LCon, \LDis ...
                                                                      1178 \mbox{newcommand{\lconsym}{\land}}
                                                                      1179 \usrmth{LCon}{}{lbop}[\lconsym]
                                                                      1180 \mbox{ }\mbox{\command{\ldissym}{\lor}}
                                                                      1181 \usrmth{LDis}{}{lbop}[\ldissym]
               \LImp, \LCoi
                                                                      1182 \newcommand{\limpsym}{\rightarrow}
                                                                      1183 \usrmth{LImp}{}{lbop}[\limpsym]
                                                                      1184 \newcommand{\lcoisym}{\leftrightarrow}
                                                                      1185 \usrmth{LCoi}{}{lbop}[\lcoisym]
               \LExs, \LAll ...
                                                                     1186 \newcommand{\lexssym}{\exists}
                                                                      1187 \usrmth{LExs}{}{luop}[\lexssym]
                                                                      1188 \newcommand{\lallsym}{\forall}
                                                                      1189 \usrmth{LAll}{}{luop}[\lallsym]
                   \APSet, ... ...
                                                                     1190 \newcommand{\apsym}{p}
                                                                      1191 \newcommand{\apset}{AP}
                                                                      1192 \cmdmthsetext{AP}[\apset][\apsym]
                                                                      1193 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
                                              \sub ...
                                                                      1194 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
                                                                      1195 \usrmth{Cnt}{}{sym}[C]
                                                                      1196 \usrmth{Qnt}{}{sym}[Q]
                                                                      1197 \space{2mm} 1197 \space{2mm} \space
                       \QAE, \QEA ...
                                                                      1198 \usrmth{QAE}{}{sym}[\forall\exists]
                                                                      1199 \usrmth{QEA}{}{sym}[\exists\forall]
               \QntSet, ... ...
                                                                      1200 \mbox{ } \mbox{newcommand{\qntsym}{\wp}}
                                                                      1201 \newcommand{\qntset}{Qn}
                                                                      1202 \cmdmthsetext{Qnt} [\qntset] [\qntsym]
           \free, \bound ...
                                                                      1204 \mbox{ \normalfooth bound}{{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfo
                       \dep, \alt ...
                                                                      1205 \usrmth{dep}{}{argfun}
                                                                      1206 \usrmth{alt}{}{argfun}
   \cnf, \dnf, ... ...
                                                                     1207 \cmdtxtabr{cnf}
                                                                      1208 \cmdtxtabr{dnf}
                                                                      1209 \cmdtxtabr{pnf}
                                                                      1210 \cmdtxtabr{nnf}
                                                                      \LogStr, ... ...
                                                                      1212 \neq \{L\}
                                                                      1213 \verb|\usrmth|| a tupp{Log}{Str}{str}[\logstr]
```

```
\ValSet, ... ...
                            1214 \newcommand{\valsym}{\xi}
                            1215 \newcommand{\valset}{Val}
                            1216 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet, ... ...
                            1217 \newcommand{\asgsym}{\chi}
                            1218 \newcommand{\asgset}{Asg}
                             1219 \cmdmthsetext{Asg}[\asgset][\asgsym]
                             \FOL, ... ...
                             1221 % First-Order Logic
                             1222 \cmdtxtoparname{FOL}[Fol]
                             1223 \cmdtxtoparname{F0}[F0]
                             1224
                             1225 % Monadic First-Order Logic
                             1226 \DeclareRobustCommand{\MFOL}
                             1227 \{\{\text{txtname}\{M\}\}\}\
                             1228 \DeclareRobustCommand{\MFO}
                             1229 {{\txtname{M}}\FO}
                             \VarSig, ... ...
                            1231 \newcommand{\varsig}{V}
                            1232 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                             1233 \newcommand{\varsym}{x}
                             1234 \newcommand{\varset}{Vr}
                             1235 \cmdmthsetext{Var}[\varset][\varsym]
                             1236 \usrmth{var}{}{argfun}[vr]
                             \ConSig, ... ...
                             1238 \newcommand{\consig}{C}
                             1239 \usrmthlatupp{Con}{Sig}{sig}[\consig]
                             1240 \newcommand{\consym}{c}
                             1241 \newcommand{\conset}{Cn}
                             1242 \cmdmthsetext{Con}[\conset][\consym]
                             1243 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
                             1244 \newcommand{\funsig}{F}
                             1245 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                             1246 \newcommand{\funsym}{f}
                             1247 \newcommand{\funset}{Fn}
                             1248 \cmdmthsetext{Fun}[\funset][\funsym]
                             1249 \usrmth{fun}{}{argfun}[fn]
                             1250 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
                             1251 \newcommand{\tersig}{T}
                             1252 \mbox{ } \mbox
                             1253 \newcommand{\tersym}{t}
                             1254 \newcommand{\terset}{Tr}
                             1255 \cmdmthsetext{Ter}[\terset][\tersym]
                            1256 \usrmth{ter}{}{argfun}
\RelSig, ... ...
                             1257 \mbox{ } \mbox{newcommand{\relsig}{R}}
                             1258 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                             1259 \mbox{ } \mbox{relsym}{r}
```

```
1260 \newcommand{\relset}{Rl}
                                  1261 \cmdmthsetext{Rel}[\relset][\relsym]
                                  1262 \operatorname{lgr}[r1]
                     \skm ...
                                  1263 \usrmth{skm}{}{argfun}
                                  \ConStr, ... ...
                                  1265 \mbox{ } \mbox{constr}{C}
                                  1266 \usrmthlatupp{Con}{Str}{str}[\constr]
    \FunStr, ... ...
                                  1267 \mbox{ } \mbox
                                  1268 \usrmthlatupp{Fun}{Str}{str}[\funstr]
    \TerStr, ... ...
                                  1269 \newcommand{\terstr}{T}
                                  1270 \usrmthlatupp{Ter}{Str}{str}[\terstr]
    \RelStr, ... ...
                                  1271 \newcommand{\relstr}{R}
                                  1272 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                                  \DF, \IF, ... ...
                                  1274 % Dependence-Friendly Logic
                                  1275 \cmdtxtoparname{DF}
                                  1276
                                  1277 % Independence-Friendly Logic
                                  1278 \cmdtxtoparname{IF}
                                  1280 % Dependence/Independence-Friendly Logic
                                  1281 \cmdtxtoparname{DIF}
                                  1282
                                  1283 % Dependence Logic
                                  1284 \cmdtxtoparname{DL}
                                  1286 % Team Logic
                                  1287 \cmdtxtoparname{TL}
                                  1289 % Alternating Dependence-Friendly Logic
                                  1290 \cmdtxtoparname{ADF}
                                  1292 % Alternating Independence-Friendly Logic
                                  1293 \cmdtxtoparname{AIF}
                                  1294
                                  1295 % Alternating Dependence/Independence-Friendly Logic
                                  1296 \cmdtxtoparname{ADIF}
                                  \LEExs, \LAA11 ...
                                  1298 \newcommand{\leexssym}{\Sigma}
                                  1299 \usrmth{LEExs}{}{luop}[\leexssym]
                                  1300 \newcommand{\laallsym}{\Pi}
                                  1301 \usrmth{LAAll}{}{luop}[\laallsym]
```

```
\SOL, ... ...
            1304 % Second-Order Logic
            1305 \cmdtxtoparname{SOL}[Sol]
            1306 \cmdtxtoparname{SO}
            1307
            1308 % Weak Second-Order Logic
            1309 \DeclareRobustCommand{\WSOL}
            1310 \{\{\text{txtname}\{W\}\}\SOL\}
            1311 \DeclareRobustCommand{\WSO}
            1312 {{\txtname{W}}\SO}
            1314 % coWeak Second-Order Logic
            1315 \DeclareRobustCommand{\coWSOL}
            1316 {{\txtname{coW}}\SOL}
            1317 \DeclareRobustCommand{\coWSO}
            1318 \{\{\text{txtname}\{\text{coW}\}\}\
            1319
            1320 % Monadic Second-Order Logic
            1321 \DeclareRobustCommand{\MSOL}
            1322 \quad \{\{\text{txtname}\{M\}\}\}\
            1323 \DeclareRobustCommand{\MSO}
            1324 {{\txtname{M}}\SO}
            1326 % Weak Monadic Second-Order Logic
            1327 \DeclareRobustCommand{\WMSOL}
            1328 \{\{\text{txtname}\{W\}\}\}\
            1329 \DeclareRobustCommand{\WMSO}
            1330 \{\{\text{txtname}\{W\}\}\}\
            1332 % coWeak Monadic Second-Order Logic
            1333 \DeclareRobustCommand{\coWMSOL}
            1334 {{\txtname{coW}}\MSOL}
            1335 \DeclareRobustCommand{\coWMSO}
                {{\txtname{coW}}\MSO}
            \FVarSet, ... ...
            1338 \neq \{x\}
            1339 \newcommand{\fvarset}{FVr}
            1340 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
            1341 \newcommand{\svarsym}{X}
            1342 \newcommand{\svarset}{SVr}
            1343 \cmdmthsetext{SVar}[\svarset][\svarsym]
            \TL, \PL, ... ...
            1346 % Tree Logic
            1347 \cmdtxtoparname{TL}
            1348
            1349 % Weak Tree Logic
            1350 \DeclareRobustCommand{\WTL}
                 {\{\text{txtname}\{W\}}\}\TL}
            1351
            1352
```

```
1353 % coWeak Tree Logic
             1354 \DeclareRobustCommand{\coWTL}
                 {\{\text{txtname}\{\text{coW}\}\}\}}
             1356
             1357 % Monadic Tree Logic
             1358 \DeclareRobustCommand{\MTL}
                 {\{\text{txtname}\{M\}}\}\
             1361 % Weak Monadic Tree Logic
             1362 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1365 % coWeak Monadic Tree Logic
             1366 \DeclareRobustCommand{\coWMTL}
                  {{\txtname{coW}}\MTL}
             1367
             1368
             1369 % Path Logic
             1370 \cmdtxtoparname{PL}
             1371
             1372 % Weak Path Logic
             1373 \DeclareRobustCommand{\WPL}
                  {{\txtname{W}}\PL}
             1375
             1376 % coWeak Path Logic
             1377 \DeclareRobustCommand{\coWPL}
                  {\{\text{coW}}\
             1378
             1379
             1380 % Monadic Path Logic
             1381 \DeclareRobustCommand{\MPL}
                  {\{\text{Ntxtname}\{M\}}\PL\}
             1383
             1384 % Weak Monadic Path Logic
             1385 \DeclareRobustCommand{\WMPL}
                  {\{\text{Xtname}\{W\}}\}\
             1386
             1387
             1388 % coWeak Monadic Path Logic
             1389 \DeclareRobustCommand{\coWMPL}
                 {{\txtname{coW}}\MPL}
             \ML, \GML, ... ...
             1394 % Modal Logic
             1395 \cmdtxtoparname{ML}
             1396
             1397 % Graded Modal Logic
             1398 \DeclareRobustCommand{\GML}
                  {\{\text{txtname}\{G\}\}\}\ML}
             1400
             1401 % Quantified Modal Logic
             1402 \DeclareRobustCommand{\QML}
                 {\{\text{txtname}\{Q\}\}\}ML}
             1404 \DeclareRobustCommand{\EML}
                 {\ensuremath{\exists}\ML}
             1406 \DeclareRobustCommand{\UML}
                 {\ensuremath{\forall}\ML}
```

```
\Opr ...
                 1409 \usrmth{Opr}{}{sym}[Op]
   \DMod, \BMod
                 1410 \usrmth{DMod}{}{sym}[\Diamond]
                 1411 \usrmth{BMod}{}{sym}[\Box]
     \Exs, \All ...
                1412 \DeclareRobustCommand{\Exs}[1]
                 1413 {\bf \frac{\hat{\lambda}(\lambda)}{\lambda}}
                 1414 \DeclareRobustCommand{\All}[1]
                     {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
                 \KrpStr, ... ...
                1417 \newcommand{\krpstr}{K}
                 1418 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
   \WrlSet, ... ...
                1419 \newcommand{\wrlsym}{w}
                 1420 \newcommand{\wrlset}{W}
                 1421 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
                 1422 \verb|\cmdmthsymelm{iwrl}[\wrlsym_{I}]|
\AccRel, \TrnRel ...
                 1423 \mbox{ \newcommand{\accsym}{R}}
                 1424 \cmdmthrel{Acc}[\accsym]
                 1425 \cmdmthrel{Trn}[\accsym]
        \labFun ...
                 1426 \mbox{labsym}{{\labsym}}
                 1427 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun
                 1428 \providecommand{\phi}{\gamma}
                 1429 \providecommand{\phithset}{Pth}
                 1430 \mbox{ \cmdmthsetext{Pth} [\pthset] [\pthsym]}
                 1431 \cmdmthfun{pth}
                 \MC, \GMC, ... ...
                 1433 % Mu Calculus
                 1434 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
                 1435
                 1436 % Graded Mu Calculus
                 1437 \DeclareRobustCommand{\GMC}
                     {\{\text{txtname}\{G\}\}\setminus MC\}}
                 1440 % Quantified Mu Calculus
                 1441 \DeclareRobustCommand{\QMC}
                     \{\{\text{txtname}\{Q\}\}\}\
                 1443 \DeclareRobustCommand{\EMC}
                     {\ensuremath{\exists}\MC}
                 1445 \DeclareRobustCommand{\UMC}
                     {\ensuremath{\forall}\MC}
                 1448 % Alternation-Free Mu Calculus
                 1449 \DeclareRobustCommand{\AFMC}
                 1450
                      {{\txtname{AF}}\MC}
                 1452 % Alternation-Free Graded Mu Calculus
```

```
1453 \DeclareRobustCommand{\AFGMC}
             1454
                 {{\txtname{AF}}\GMC}
             1455
             1456 % Quantified Alternation-Free Mu Calculus
             1457 \DeclareRobustCommand{\QAFMC}
             1458 \{\{\text{txtname}\{Q\}\}\setminus AFMC\}
             1459 \DeclareRobustCommand{\EAFMC}
             1460 {\ensuremath{\exists}\AFMC}
             1461 \DeclareRobustCommand{\UAFMC}
                 {\ensuremath{\forall}\AFMC}
             1463
             \PTL, \LTL, ... ...
             1467 % Propositional Temporal Logic
             1468 \cmdtxtoparname{PTL}
             1470 % Quantified Propositional Temporal Logic
             1471 \DeclareRobustCommand{\QPTL}
             1472 \quad \{\{\text{txtname}\{Q\}\}\}\}
             1473 \DeclareRobustCommand{\EPTL}
             1474 {\ensuremath{\exists}\PTL}
             1475 \DeclareRobustCommand{\UPTL}
                 {\ensuremath{\forall}\PTL}
             1476
             1478 % Linear Temporal Logic
             1479 \cmdtxtoparname{LTL}
             1481 % Quantified Linear Temporal Logic
             1482 \DeclareRobustCommand{\QLTL}
                {\{\text{txtname}\{Q\}\}\setminus LTL\}}
             1484 \DeclareRobustCommand{\ELTL}
                 {\ensuremath{\exists}\LTL}
             1486 \DeclareRobustCommand{\ULTL}
                 {\ensuremath{\forall}\LTL}
             \X, ... ...
             1489 \usrmth{X}{}{sym}[X\,]
             1490 \usrmth{F}{}{sym}[F\,]
             1491 \usrmth{G}{}{sym}[G\,]
             1492 \usrmth{U}{}{sym}[\,U\,]
             1493 \usrmth{R}{}{sym}[\,R\,]
      \Y, ... ...
             1494 \operatorname{Y}{}{sym}[G\,]
             1495 \verb|\sym| [P\,] \le \end{P}
             1496 \verb|\wsrmth{H}{{}} \{sym}[H\,] \verb|\label{eq:hamber} 
             1497 \space{1.5}{sym}[\space{1.5}] \le \space{1.5}
             1498 \usrmth{B}{}{sym}[\,B\,]
```

```
\PDL, \CTL, ... ...
               1502 % Propositional Dynamic Logic
               1503 \cmdtxtoparname{PDL}
               1504
               1505 % Computation Tree Logic
               1506 \cmdtxtoparname{CTL}
               1507
               1508 % Weak Computation Tree Logic
               1509 \DeclareRobustCommand{\WCTL}
                   {\{\text{txtname}\{W\}}\CTL\}
               1512 % Quantified Computation Tree Logic
               1513 \DeclareRobustCommand{\QCTL}
               1514 {\{\text{txtname}\{Q\}\}\CTL\}}
               1515 \DeclareRobustCommand{\ECTL}
               1516 {\ensuremath{\exists}\CTL}
               1517 \DeclareRobustCommand{\UCTL}
               1518 {\ensuremath{\forall}\CTL}
               1520 % Improved Computation Tree Logic
               1521 \cmdtxtoparname{CTLP}[CTL$^{+}$]
               1522
               1523 % Weak Improved Computation Tree Logic
               1524 \verb|\DeclareRobustCommand{\WCTLP}|
                    {{\txtname{W}}\CTLP}
               1525
               1526
               1527 % Quantified Improved Computation Tree Logic
               1528 \DeclareRobustCommand{\QCTLP}
                    {\{\text{txtname}\{Q\}\}\}\
               1530 \DeclareRobustCommand{\ECTLP}
                    {\ensuremath{\exists}\CTLP}
               1532 \DeclareRobustCommand{\UCTLP}
               1533
                   {\ensuremath{\forall}\CTLP}
               1534
               1535 % Full Computation Tree Logic
               1536 \cmdtxtoparname{CTLS}[CTL*]
               1538 % Weak Full Computation Tree Logic
               1539 \DeclareRobustCommand{\WCTLS}
                    {{\txtname{W}}\CTLS}
               1540
               1542 % Quantified Full Computation Tree Logic
               1543 \DeclareRobustCommand{\QCTLS}
               1544 {\{\text{txtname}\{Q\}\}\}
               1545 \DeclareRobustCommand{\ECTLS}
               1546 {\ensuremath{\exists}\CTLS}
               1547 \DeclareRobustCommand{\UCTLS}
               1548 {\ensuremath{\forall}\CTLS}
               \E, \A ...
               1550 \usrmth{E}{}{sym}
               1551 \usrmth{A}{}{sym}
               \ATL, ... ...
               1554 % Alternating Temporal Logic
```

1555 \cmdtxtoparname{ATL}

```
1557 % Weak Alternating Tree Logic
             1558 \DeclareRobustCommand{\WATL}
             1559
                   {\{\text{Xtname}\{W\}\}\setminus ATL\}}
             1560
             1561 % Quantified Alternating Temporal Logic
             1562 \DeclareRobustCommand{\QATL}
                  {\{\text{txtname}\{Q\}\}\setminus ATL\}}
             1564 \DeclareRobustCommand{\EATL}
                  {\ensuremath{\exists}\ATL}
             1566 \DeclareRobustCommand{\UATL}
                   {\ensuremath{\forall}\ATL}
             1568
             1569 % Improved Alternating Temporal Logic
             1570 \cmdtxtoparname{ATLP}[ATL$^{+}$]
             1572 % Weak Improved Alternating Tree Logic
             1573 \DeclareRobustCommand{\WATLP}
                   {{\txtname{W}}\ATLP}
             1574
             1576 % Quantified Improved Alternating Temporal Logic
             1577 \DeclareRobustCommand{\QATLP}
                  {\{\text{txtname}\{Q\}\}\setminus ATLP\}}
             1579 \DeclareRobustCommand{\EATLP}
                  {\ensuremath{\exists}\ATLP}
             1581 \DeclareRobustCommand{\UATLP}
                   {\ensuremath{\forall}\ATLP}
             1582
             1583
             1584 % Full Alternating Temporal Logic
             1585 \cmdtxtoparname{ATLS}[ATL*]
             1587 % Weak Full Alternating Tree Logic
             1588 \DeclareRobustCommand{\WATLS}
                   {{\txtname{W}}\ATLS}
             1589
             1590
             1591 % Quantified Full Alternating Temporal Logic
             1592 \DeclareRobustCommand{\QATLS}
                  {{\txtname{Q}}\ATLS}
             1594 \DeclareRobustCommand{\EATLS}
                   {\ensuremath{\exists}\ATLS}
             1596 \DeclareRobustCommand{\UATLS}
                   {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
             1599 \DeclareRobustCommand{\EExs}[1]
                   {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
             1601 \DeclareRobustCommand{\AAll}[1]
                   {\mth{\argmid{\left[\left[\}{\defval{#1}{\emptyset}}{\right]\right]}}}
             \CGS ...
             1604 \cmdtxtname{CGS}
\CGSStr, ... ...
             1605 \mbox{ \newcommand{\cgsstr}{G}}
             1606 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1607 \mbox{ \newcommand{\agnsym}{a}}
             1608 \newcommand{\agnset}{Ag}
             1609 \cmdmthsetext{Agn} [\agnset] [\agnsym]
```

1556

```
\PosSet, ... ...
                    1610 \providecommand{\possym}{v}
                    1611 \providecommand{\posset}{Ps}
                    1612 \cmdmthsetext{Pos}[\posset][\possym]
                    1613 \verb|\cmdmthsymelm{ipos}[\possym_{I}]|
                    1614 \cmdmthsymelm{fpos}[\possym_{F}]
                    1615 \cmdmthset{PPos}[\posset_{\PlrSym}]
                    1616 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                    1617 \cmdmthset{OPos} [\posset_{\OppSym}]
                    1618 \cmdmthsymelm{opos}[\possym_{\OppSym}]
     \SttSet, ... ...
                    1619 \newcommand{\sttsym}{s}
                    1620 \mbox{ } \mbox{newcommand{\sttset}{St}}
                    1621 \cmdmthsetext{Stt}[\sttset][\sttsym]
                    1622 \cmdmthset{IStt}[\sttset_{I}]
                    1623 \cmdmthsymelm{istt}[\sttsym_{I}]
                    1624 \cmdmthset{FStt}[\sttset_{F}]
                    1625 \verb|\cmdmthsymelm{fstt}| [\verb|\sttsym_{F}|]
     \ActSet, ... ...
                    1626 \newcommand{\actsym}{c}
                    1627 \newcommand{\actset}{Ac}
                    1628 \verb|\cmdmthsetext{Act}| [\verb|\actset|] [\verb|\actsym|]
     \DecSet, ... ...
                    1629 \mbox{ \newcommand{\decsym}{d}}
                    1630 \newcommand{\decset}{Dc}
                    1631 \cmdmthsetext{Dec}[\decset][\decsym]
          \movFun ...
                    1632 \newcommand{\movsym}{\tau}
                    1633 \cmdmthfun{mov} [\movsym]
     \HstSet, ... ...
                    1634 \providecommand{\hstsym}{\rho}
                    1635 \providecommand{\hstset}{Hst}
                    1636 \cmdmthsetext{Hst}[\hstset][\hstsym]
                    1637 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                    1638 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                    1639 \cmdmthset{OHst}[\hstset_{\OppSym}]
                    1640 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                    1641 \cmdmthfun{hst}
\PlaySet,\playFun
                    1642 \providecommand{\playsym}{\pi}
                    1643 \providecommand{\playset}{Play}
                    1644 \cmdmthsetext{Play}[\playset][\playsym]
                    1645 \cmdmthfun{play}
     \StrSet, ... ...
                    1646 \providecommand{\strsym}{\sigma}
                    1647 \providecommand{\strset}{Str}
                    1648 \cmdmthsetext{Str}[\strset][\strsym]
                    1649 \cmdmthset{PStr}[\strset_{\PlrSym}]
                    1650 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                    1651 \cmdmthset{OStr}[\strset_{\OppSym}]
                    1652 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
\PrfSet, \prfFun
                    1653 \providecommand{\prfsym}{\xi}
                    1654 \providecommand{\prfset}{Prf}
                    1655 \cmdmthsetext{Prf}[\prfset][\prfsym]
```

```
\SL, ... ...
         1657 % Strategy Logic
         1658 \cmdtxtoparname{SL}
          1659
          1660 \DeclareRobustCommand{\ESL}
               {\ensuremath{\exists}\SL}
          1661
          1662 \DeclareRobustCommand{\USL}
               {\ensuremath{\forall}\SL}
          1664
          1665 \DeclareRobustCommand{\FSL}
               {\{\text{txtname}\{F\}\}\SL\}}
          1666
          1667
          1668 \DeclareRobustCommand{\EFSL}
          1669
               {\ensuremath{\exists}\FSL}
          1670 \DeclareRobustCommand{\UFSL}
               {\ensuremath{\forall}\FSL}
          1671
          1672
          1673 % One-Goal Strategy Logic
          1674 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
               {\SL[#1][#2][1g\arglef{,}{#3}]}
          1676
          1677 \DeclareRobustCommand{\EOGSL}
               {\ensuremath{\exists}\OGSL}
          1678
          1679 \DeclareRobustCommand{\UOGSL}
          1680
               {\ensuremath{\forall}\OGSL}
          1681
          1682 \DeclareRobustCommand{\FOGSL}
               {{\txtname{F}}\OGSL}
          1683
          1685 \DeclareRobustCommand{\EFOGSL}
               {\ensuremath{\exists}\FOGSL}
          1687 \DeclareRobustCommand{\UFOGSL}
               {\ensuremath{\forall}\FOGSL}
          1688
          1689
          1690\ \% Conjunctive-Goal Strategy Logic
          1691 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
          1692
               {\SL[#1][#2][cg\arglef{,}{#3}]}
          1693
          1694 \DeclareRobustCommand{\ECGSL}
               {\ensuremath{\exists}\CGSL}
          1696 \DeclareRobustCommand{\UCGSL}
               {\ensuremath{\forall}\CGSL}
          1698
          1699 \verb|\DeclareRobustCommand{\FCGSL}|
               {\{\text{xGSL}\}}
          1700
          1701
          1702 \DeclareRobustCommand{\EFCGSL}
               {\ensuremath{\exists}\FCGSL}
          1704 \DeclareRobustCommand{\UFCGSL}
               {\ensuremath{\forall}\FCGSL}
          1707 % Disjunctive-Goal Strategy Logic
          1708 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
               {\SL[#1][#2][dg\arglef{,}{#3}]}
          1709
          1710
          1711 \DeclareRobustCommand{\EDGSL}
               {\ensuremath{\exists}\DGSL}
          1713 \DeclareRobustCommand{\UDGSL}
               {\ensuremath{\forall}\DGSL}
          1714
          1716 \DeclareRobustCommand{\FDGSL}
```

 ${\{\text{txtname}\{F\}\}\setminus xGSL\}}$

```
1718
1719 \DeclareRobustCommand{\EFDGSL}
            {\ensuremath{\exists}\FDGSL}
1721 \DeclareRobustCommand{\UFDGSL}
1722
             {\ensuremath{\forall}\FDGSL}
1724 % Alternating-Goal Strategy Logic
1725 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
              {\SL[#1][#2][ag\arglef{,}{#3}]}
1728 \DeclareRobustCommand{\EAGSL}
              {\ensuremath{\exists}\AGSL}
1730 \DeclareRobustCommand{\UAGSL}
             {\ensuremath{\forall}\AGSL}
1732
1733 \DeclareRobustCommand{\FAGSL}
             {\{ \text{xtname}\{F\} \} xGSL \}}
1734
1735
1736 \DeclareRobustCommand{\EFAGSL}
              {\ensuremath{\exists}\FAGSL}
1737
1738 \DeclareRobustCommand{\UFAGSL}
             {\ensuremath{\forall}\FAGSL}
1740
1741 % Extended-Goal Strategy Logic
1742 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
             {\SL[#1][#2][eg\arglef{,}{#3}]}
1743
1744
1745 \DeclareRobustCommand{\EEGSL}
             {\ensuremath{\exists}\EGSL}
1747 \DeclareRobustCommand{\UEGSL}
              {\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\en
1748
1750 \DeclareRobustCommand{\FEGSL}
             {\{ \text{xtname}\{F\} \} \times GSL \}}
1751
1752
1753 \DeclareRobustCommand{\EFEGSL}
             {\ensuremath{\exists}\FEGSL}
1755 \DeclareRobustCommand{\UFEGSL}
             {\ensuremath{\forall}\FEGSL}
1756
1757
1758 % Boolean-Goal Strategy Logic
1759 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
             {\SL[#1][#2][bg\arglef{,}{#3}]}
1761
1762 \DeclareRobustCommand{\EBGSL}
1763
            {\ensuremath{\exists}\BGSL}
1764 \DeclareRobustCommand{\UBGSL}
             {\ensuremath{\forall}\BGSL}
1765
1766
1767 \DeclareRobustCommand{\FBGSL}
1768
             {\{\text{xtname}\{F\}\}\times GSL\}}
1770 \DeclareRobustCommand{\EFBGSL}
              {\ensuremath{\exists}\FBGSL}
1772 \DeclareRobustCommand{\UFBGSL}
             {\ensuremath{\forall}\FBGSL}
1775 \mbox{\ensuremath{\mbox{\sc N}}} Nested-Goal Strategy Logic
1776 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
              {\SL[#1][#2][ng\arglef{,}{#3}]}
1777
1778
1779 \DeclareRobustCommand{\ENGSL}
             {\ensuremath{\exists}\NGSL}
```

```
1781 \DeclareRobustCommand{\UNGSL}
                                                                       1782
                                                                                                    {\ensuremath{\forall}\NGSL}
                                                                       1783
                                                                       1784 \DeclareRobustCommand{\FNGSL}
                                                                       1785
                                                                                                  {\{\text{txtname}\{F\}\}\setminus xGSL\}}
                                                                       1786
                                                                       1787 \DeclareRobustCommand{\EFNGSL}
                                                                                                 {\ensuremath{\exists}\FNGSL}
                                                                       1789 \DeclareRobustCommand{\UFNGSL}
                                                                                                    {\ensuremath{\forall}\FNGSL}
                                                                       1792 % Undefined-Goal Strategy Logic
                                                                       1793 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
                                                                                                     {\SL[#1][#2][xg\arglef{,}{#3}]}
                                                                       1795
                                                                       1796 \DeclareRobustCommand{\EXGSL}
                                                                                                    {\ensuremath{\exists}\XGSL}
                                                                       1798 \DeclareRobustCommand{\UXGSL}
                                                                                                     {\ensuremath{\forall}\XGSL}
                                                                       1799
                                                                       1801 \DeclareRobustCommand{\FXGSL}
                                                                                                   {\{\text{txtname}\{F\}\}\setminus xGSL\}}
                                                                       1803
                                                                       1804 \DeclareRobustCommand{\EFXGSL}
                                                                                                {\ensuremath{\exists}\FXGSL}
                                                                       1806 \DeclareRobustCommand{\UFXGSL}
                                                                                                 {\ensuremath{\forall}\FXGSL}
                                                                       \BndSet, ...
                                                                       1809 \newcommand{\bndsym}{\flat}
                                                                       1810 \newcommand{\bndset}{Bn}
                                                                       1811 \cmdmthsetext{Bnd}[\bndset][\bndsym]
                                                                       1812 \usrmth{bnd}{}{argfun}
                                         \psn
                                                                       1813 \usrmth{psn}{}{argfun}
                                                                       \nxtFun
                                                                       1815 \newcommand{\nxtfun}{nxt}
                                                                       1816 \cmdmthfun{nxt} [\nxtfun]
                                                                       1817 \fi
                                                                       1822 \ifaut@
                                                                       \DWA, ...
                                                                       1824 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}| Cmdtxtoparname{AWA}| C
                                                                       1825
                                                                       1826 \verb|\cmdtxtoparname{DFW}\cmdtxtoparname{AFW}| cmdtxtoparname{AFW}| 
                                                                       1828 \cmdtxtoparname{DCW}\cmdtxtoparname{ACW}
                                                                       1829 \cmdtxtoparname{DPW}\cmdtxtoparname{APW}
                                                                       1830 \verb|\cmdtxtoparname{NRW}| cmdtxtoparname{URW}| cmdtxtoparname{ARW}| cmdtxtoparname{ARW}|
                                                                       1831 \verb|\cmdtxtoparname{NSW}| cmdtxtoparname{USW}| cmdtxtoparname{ASW}| cmdtxtoparname{ASW}|
                                                                       1832 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}\cmdtxtoparname{AMW}| Cmdtxtoparname{AMW}| Cm
```

```
\GFG, \PD, ... ...
                                                                                             1833 \cmdtxtoparname{GFG}
                                                                                             1834
                                                                                             1835 \cmdtxtoparname{PD}
                                                                                             1836
                                                                                             1837 %% ...
                                                                                              \AutName, ... ...
                                                                                             1839 \mbox{newcommand}{\mbox{autname}}{A}
                                                                                              1840 \t Mame \ [\autname]
                                                                                              1841 \newcommand{\autset}{Aut}
                                                                                              1842 \cmdmthset{Aut}[\autset]
                                    \WAutSet ...
                                                                                              1843 \newcommand{\wautset}{WAut}
                                                                                              1844 \cmdmthset{WAut}[\wautset]
            \SttSet, ... ...
                                                                                            1845 \ensuremath{\def\sttsym}{q}
                                                                                             1846 \def\sttset{Q}
                                                                                              1847 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                                                              1848 \cmdmthset{IStt}[\sttset_{I}]
                                                                                              1849 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                                                              1850 \cmdmthset{FStt}[\sttset_{F}]
                                                                                              1851 \cmdmthsymelm{fstt}[\sttsym_{F}]
            \SymSet, ... ...
                                                                                             1852 \newcommand{\symsym}{\sigma}
                                                                                              1853 \newcommand{\symset}{\Sigma}
                                                                                              1854 \cmdmthsetext{Sym}[\symset][\symsym]
                                         \trnFun ...
                                                                                             1855 \newcommand{\trnsym}{\delta}
                                                                                              1856 \cmdmthfun{trn}[\trnsym]
                                                                                              \LangFun ...
                                                                                              1858 \newcommand{\langfun}{L}
                                                                                              1859 \cmdmthfun{Lang}[\langfun]
            \WrdSet, ... ...
                                                                                             1860 \newcommand{\wrdsym}{w}
                                                                                              1861 \newcommand{\wrdset}{Wr}
                                                                                              1862 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                                                                                              \DTA, ... ...
                                                                                             1864 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| on the following the 
                                                                                             1866 \verb|\cmdtxtoparname{OFT}| cmdtxtoparname{IFT}| cmdtxtoparname{IFT}| cmdtxtoparname{AFT}| cmdtxtoparname{AFT}|
                                                                                              1867 \verb|\cmdtxtoparname{UBT}\cmdtxtoparname{ABT}| and the constraints of the constraints
                                                                                              1868 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                                                                                              1869 \verb|\cmdtxtoparname{DPT}\cmdtxtoparname{MPT}| cmdtxtoparname{APT}| 
                                                                                              1870 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{ART}| \\
                                                                                              1871 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| \\
                                                                                              1872 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}| cmdtxtoparname{AMT}| cmdtxtoparname{AMT}|
```

```
\TAutSet ...
                      1874 \mbox{ } \mbox
                     1875 \cmdmthset{TAut}[\tautset]
 \DirSet, ...
                     1876 \mbox{ \newcommand{\dirsym}{d}}
                     1877 \newcommand{\dirset}{\Lambda}
                     1878 \cmdmthsetext{Dir}[\dirset][\dirsym]
                     \TreeSet, ... ...
                     1880 \newcommand{\treesym}{T}
                     1881 \newcommand{\treeset}{Tr}
                      1882 \cmdmthsetext{Tree} [\treeset] [\treesym]
        \wotFun ...
                      1883 \neq \{ wotfun \} 
                     1884 \cmdmthfun{wot}[\wotfun]
                      1885 \fi
                     1890 \iffrm@
                     1891 %%...
                     1892 \fi
                      1897 \iffig@
                      1898 \RequirePackage{tikz}
                      1899 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}
                      1900 \tikzstyle{every node} =
                            [draw = none, fill = none, black, thin]
                      1902 \tikzstyle{every edge} +=
                      1903 [black, thick]
                      1904 \tikzstyle{noall} =
                      1905 [draw = none, fill = none]
                      1906 \tikzstyle{nodraw} =
                      1907 [draw = none, fill = white]
                      1908 \tikzstyle{nofill} =
                             [draw = black, fill = none]
                      1910 \ifwrpfig@
                      1911 % Wrapfig Package
                      1912 \RequirePackage{wrapfig}
                      1913 \fi
                      1914 \fi
                      1919 \iftab@
```

1920 %%...

```
1921 \fi
          1926 \ifalg@
          1927 \RequirePackage[ruled,vlined]{algorithm2e}
          1928 \setlength{\algomargin}{1.25em}
          1929 \DontPrintSemicolon
          1930 \SetInd{0.25em}{0.5em}
  \Signature ...
          1931 \SetKw{Signature}{signature}
 \Macro, ... ...
          1932 \SetKwFor{Macro}{macro}{}}
          1933 \SetKwFor{Function}{function}{}}
          1934 \SetKwFor{Procedure}{procedure}{}}
      \Let ...
          1935 \SetKwFor{Let}{let}{in}{}
\True, \False ...
          1936 \SetKw{True}{true}
          1937 \SetKw{False}{false}
  \From, ... ...
          1938 \SetKw{From}{from}
          1939 \SetKw{To}{to}
          1940 \SetKw{DownTo}{downto}
  \GoTo, ... ...
          1941 \SetKw{GoTo}{goto}
          1942 \SetKw{Break}{break}
          1943 \SetKw{Continue}{continue}
  \MIf, ... ...
          1944 \texttt{MElseIf}{\texttt{MElse}{\*\#if}{\*\#else \*\#if}{\*\#else}{\*\#endif}} \\
      \nlr ...
          1945 \DeclareRobustCommand{\nlr}[1]
              {\addtocounter{AlgoLine}{1}%
              \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
          1947
          1950 \endinput
          1951 (/package)
```

2 Change History

v0.0	extensions
General: First public release 1	v0.5
v0.1 General: Algorithm tricks	General: Figure tricks
General: Small refinements 1	General: Small refinements 1
v0.11	v0.7
General: Few additions and corrections 1 v0.2	General: Refinements, corrections, and extensions
General: Changes in auxiliary tricks 1	v0.8
v0.3 General: Few problems solved	General: Few refinements and corrections \dots 1 v0.9
General: Refactoring, corrections, and	General: Small addition to 'Algorithm tricks' 1

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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{tabular}{llll} & & & & & & & & & & & & & & & & & $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{tabular}{llll} & & & & & & & & & & & & & & & & & $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{tabular}{llll} & & & & & & & & & & & & & & & & & $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835,
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{array}{llll} & & & & & & & & & & & & & & & & & $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868,
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{array}{llll} & & & & 625 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872
$\begin{array}{llllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{array}{l} \cdot \cdot \cdot \cdot \cdot \cdot \frac{625}{693} \\ \\ \cdot \cdot \cdot \cdot \cdot \frac{693}{1048}, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \frac{566}{1048}, 1044, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{547}{1054}, 558, 1041, \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{547}{1054}, 1064, \\ \cdot \frac{1047}{1066}, 1076, 1078, 1615, \\ \cdot $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:cmdmthparsymelm} \begin{array}{l} \cdot \cdot \cdot \cdot \cdot \cdot \frac{625}{693} \\ \\ \cdot \cdot \cdot \cdot \cdot \frac{693}{1048}, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \frac{566}{1048}, 1048, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \frac{547}{1054}, 558, 1041, \\ 1043, 1052, 1054, 1064, \\ 1066, 1076, 1078, 1615, \\ 1617, 1622, 1624, 1637, \\ 1639, 1649, 1651, 1842, \\ 1844, 1848, 1850, 1875 \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{557}{1038}, 1059, 1063, 1071, \\ 1075, 1082, 1128, 1147, \\ 1192, 1202, 1216, 1219, \\ 1235, 1242, 1248, 1255, \\ 1261, 1340, 1343, 1421, \\ 1430, 1609, 1612, 1621, \\ 1628, 1631, 1636, 1644, \\ 1648, 1655, 1811, 1847, \\ \end{array}$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtpar \cdots \cdots \frac{336}{444}
\cmdmthfam	$\label{eq:cmdmthparsymelm} \begin{array}{l} \cdot \cdot \cdot \cdot \cdot \cdot \frac{625}{693} \\ \\ \cdot \cdot \cdot \cdot \cdot \frac{693}{1048}, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \frac{566}{1048}, 1044, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{547}{1054}, 558, 1041, \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{547}{1054}, 1064, \\ \cdot \frac{1047}{1066}, 1076, 1078, 1615, \\ \cdot $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtpar \cdots \cdots \frac{336}{444} \cmdtxtparabr \cdots \cdot \frac{444}{457} \cmdtxtpardef \cdot \cdot \frac{432}{457}
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\label{eq:cmdmthparsymelm} \begin{array}{l} \cdot \cdot \cdot \cdot \cdot \cdot \frac{625}{693} \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{693}{693} \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{693}{693} \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{566}{6}, 1048, 1424, 1425 \\ \\ \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \cdot \frac{547}{694}, 558, 1041, \\ \\ \cdot \frac{547}{694}, 1054, 1064, \\ \cdot $	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtparabr \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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\cmdmthfam	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtpar \(\) \(
\cmdmthfam	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtparabr \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:localization} $$ \mbox{cmdmthparsymelm} \dots $$ 625 \mbox{cmdmthparvec} \dots $$ 693 \mbox{cmdmthrel} $$ 566, 1048, 1424, 1425 \mbox{cmdmthset} \dots $$ 547, 558, 1041, $$ 1043, 1052, 1054, 1064, $$ 1066, 1076, 1078, 1615, $$ 1617, 1622, 1624, 1637, $$ 1639, 1649, 1651, 1842, $$ 1844, 1848, 1850, 1875 \mbox{cmdmthsetext} \dots $$ 557, $$ 1038, 1059, 1063, 1071, $$ 1075, 1082, 1128, 1147, $$ 1192, 1202, 1216, 1219, $$ 1235, 1242, 1248, 1255, $$ 1261, 1340, 1343, 1421, $$ 1430, 1609, 1612, 1621, $$ 1628, 1631, 1636, 1644, $$ 1648, 1655, 1811, 1847, $$ 1854, 1862, 1878, 1882 \mbox{cmdmthsig} \dots $$ 521 \mbox{cmdmthsig} \dots $$ 534 \mbox{cmdmthsym} \dots $$ 592, 617, 1031, 1033, $$ 1123, 1125, 1142, 1144 \mbox{cmdmthsymelm} \dots $$ 616, 1039, $$ 1040, 1042, 1044, 1065, $$ 1067, 1077, 1079, 1422, $$ $$$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtpar \(\) \(
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:localization} $$ \operatorname{cmdmthparsymelm} \dots $$ \underline{625}$ \\ \operatorname{cmdmthparvec} \dots $\underline{693}$ \\ \operatorname{cmdmthrel} $$ \underline{566}, 1048, 1424, 1425$ \\ \operatorname{cmdmthset} \dots $\underline{547}, 558, 1041, \\ 1043, 1052, 1054, 1064, \\ 1066, 1076, 1078, 1615, \\ 1617, 1622, 1624, 1637, \\ 1639, 1649, 1651, 1842, \\ 1844, 1848, 1850, 1875$ \\ \operatorname{cmdmthsetext} \dots $\underline{557}, \\ 1038, 1059, 1063, 1071, \\ 1075, 1082, 1128, 1147, \\ 1192, 1202, 1216, 1219, \\ 1235, 1242, 1248, 1255, \\ 1261, 1340, 1343, 1421, \\ 1430, 1609, 1612, 1621, \\ 1628, 1631, 1636, 1644, \\ 1648, 1655, 1811, 1847, \\ 1854, 1862, 1878, 1882 \\ \operatorname{cmdmthsig} \dots \dots $\underline{521} \\ \operatorname{cmdmthsig} \dots $\underline{521} \\ \operatorname{cmdmthsym} \dots $\underline{534} \\ \operatorname{cmdmthsym} \dots $\underline{592}, 617, 1031, 1033, \\ 1123, 1125, 1142, 1144 \\ \operatorname{cmdmthsymelm} \dots $\underline{616}, 1039, \\ 1040, 1042, 1044, 1065, \\ 1067, 1077, 1079, 1422, \\ 1613, 1614, 1616, 1618, \\ \end{gathered}$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtpar \(\) \(
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\label{eq:localization} $$ \mbox{cmdmthparsymelm} \dots $$ 625 \mbox{cmdmthparvec} \dots $$ 693 \mbox{cmdmthrel} $$ 566, 1048, 1424, 1425 \mbox{cmdmthset} \dots $$ 547, 558, 1041, $$ 1043, 1052, 1054, 1064, $$ 1066, 1076, 1078, 1615, $$ 1617, 1622, 1624, 1637, $$ 1639, 1649, 1651, 1842, $$ 1844, 1848, 1850, 1875 \mbox{cmdmthsetext} \dots $$ 557, $$ 1038, 1059, 1063, 1071, $$ 1075, 1082, 1128, 1147, $$ 1192, 1202, 1216, 1219, $$ 1235, 1242, 1248, 1255, $$ 1261, 1340, 1343, 1421, $$ 1430, 1609, 1612, 1621, $$ 1628, 1631, 1636, 1644, $$ 1648, 1655, 1811, 1847, $$ 1854, 1862, 1878, 1882 \mbox{cmdmthsig} \dots $$ 521 \mbox{cmdmthsig} \dots $$ 534 \mbox{cmdmthsym} \dots $$ 592, 617, 1031, 1033, $$ 1123, 1125, 1142, 1144 \mbox{cmdmthsymelm} \dots $$ 616, 1039, $$ 1040, 1042, 1044, 1065, $$ 1067, 1077, 1079, 1422, $$ $$$	1013, 1016, 1019, 1022, 1025, 1028, 1105, 1108, 1111, 1114, 1117, 1120, 1133, 1136, 1139, 1158, 1222, 1223, 1275, 1278, 1281, 1284, 1287, 1290, 1293, 1296, 1305, 1306, 1347, 1370, 1395, 1434, 1468, 1479, 1503, 1506, 1521, 1536, 1555, 1570, 1585, 1658, 1824, 1826, 1827, 1828, 1829, 1830, 1831, 1832, 1833, 1835, 1864, 1866, 1867, 1868, 1869, 1870, 1871, 1872 \cmdtxtpar \(\) \(

\ConStr, 1265	1445, 1449, 1453, 1457,	\do 258, 262
\consym	1459, 1461, 1471, 1473,	\dom,_\cod, <u>836</u>
\Contd <u>758</u>	1475, 1482, 1484, 1486,	\DontPrintSemicolon 1929
\contd	1509, 1513, 1515, 1517,	\DTA,
\coWMPL 1389	1524, 1528, 1530, 1532,	\dual, \adj, <u>794</u>
\coWMSO	1539, 1543, 1545, 1547,	\DWA, 1824
\coWMSOL 1333	1558, 1562, 1564, 1566,	
		${f E}$
\coWMTL 1366	1573, 1577, 1579, 1581,	
\coWPL 1377	1588, 1592, 1594, 1596,	\E,⊔\A
\coWSO 1317	1599, 1601, 1660, 1662,	\EAFMC 1459
\coWSOL 1315	1665, 1668, 1670, 1677,	\EAGSL 1728
\coWTL 1354	1679, 1682, 1685, 1687,	\Easy, \\Hard, \(\ldots \cdot \cdo
\crv@false 40	1694, 1696, 1699, 1702,	\EATL 1564
		\EATLP 1579
\crv@true 41	1704, 1711, 1713, 1716,	
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228, 229, 331, 333, 335,	1733, 1736, 1738, 1745,	\EBF 1163
337, 339, 344, 386, 388,	1747, 1750, 1753, 1755,	\EBGSL 1762
390, 392, 394, 399, 985, 987	1762, 1764, 1767, 1770,	\ECGSL 1694
\csedef 259, 263	1772, 1779, 1781, 1784,	\ECTL 1515
•	1787, 1789, 1796, 1798,	\ECTLP 1530
\csname 249,	, , , , , , , , , , , , , , , , , , , ,	•
250, 251, 252, 253, 254,	1801, 1804, 1806, 1945	\ECTLS 1545
255, 260, 264, 331, 333,	\DeclareRobustCommandx	\EDGSL 1711
335, 337, 339, 344, 350, 399	1674, 1691, 1708, 1725,	\EEGSL 1745
\CTLP 1525, 1529, 1531, 1533	1742, 1759, 1776, 1793	\EExs, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\CTLS 1540, 1544, 1546, 1548	\decset 1630, 1631	\EFAGSL 1736
	,	\EFBGSL
\CurrentOption 126	\DecSet, <u>1629</u>	
_	\decsym 1629, 1631	\EFCGSL 1702
D	\Dedicto <u>730</u>	\EFDGSL 1719
\DeclareMathAlphabet	\dedicto 709	\EFEGSL 1753
$\dots 217, 218, 219, 220$	\def 1845, 1846	\EFNGSL 1787
\DeclareMathOperator 855, 857		\EFOGSL 1685
\DeclareOption 12, 13,	\Defacto \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\EFSL 1668
	\defacto <u>710</u>	\EFXGSL
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	993, 994, 995, 996, 997,	
41, 45, 49, 54, 55, 60,	993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002	\Eg <u>734</u>
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41, 45, 49, 54, 55, 60, 61, 67, 68, 72, 73, 78, 79, 84, 85, 89, 90, 94, 95, 100, 101, 106, 107,	993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002 \defcomclscmd	\Eg
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41, 45, 49, 54, 55, 60, 61, 67, 68, 72, 73, 78, 79, 84, 85, 89, 90, 94, 95, 100, 101, 106, 107, 111, 116, 117, 122, 123, 126 \DeclareRobustCommand	993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002 \defcomclscmd	\Eg
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$\begin{array}{c} 41,\ 45,\ 49,\ 54,\ 55,\ 60,\\ 61,\ 67,\ 68,\ 72,\ 73,\ 78,\\ 79,\ 84,\ 85,\ 89,\ 90,\ 94,\\ 95,\ 100,\ 101,\ 106,\ 107,\\ 111,\ 116,\ 117,\ 122,\ 123,\ 126\\ \hline \\ \begin{array}{c} \texttt{DeclareRobustCommand} \\ \dots \\ 767,\ 769,\ 772,\ 774,\\ 776,\ 778,\ 780,\ 782,\ 785,\\ 787,\ 789,\ 791,\ 794,\ 796,\\ 798,\ 800,\ 802,\ 820,\ 822,\\ 824,\ 826,\ 828,\ 830,\ 833,\\ 836,\ 838,\ 840,\ 842,\ 845,\\ 847,\ 849,\ 852,\ 861,\ 863,\\ 865,\ 867,\ 870,\ 872,\ 874,\\ 876,\ 878,\ 880,\ 883,\ 885,\\ 887,\ 889,\ 891,\ 893,\ 895,\\ 897,\ 899,\ 901,\ 903,\ 905,\\ 907,\ 909,\ 911,\ 913,\ 915,\\ 917,\ 920,\ 922,\ 924,\ 926,\\ 928,\ 931,\ 933,\ 936,\ 938,\\ 940,\ 942,\ 944,\ 946,\ 948,\\ 950,\ 952,\ 954,\ 956,\ 959,\\ 961,\ 963,\ 1161,\ 1163,\\ 1165,\ 1226,\ 1228,\ 1309,\\ 1311,\ 1315,\ 1317,\ 1321,\\ 1323,\ 1327,\ 1329,\ 1333,\\ 1335,\ 1350,\ 1354,\ 1358,\\ 1362,\ 1366,\ 1373,\ 1377,\\ 1381,\ 1385,\ 1389,\ 1398,\\ \end{array}$	993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002 \defcomclscmd	\Eg
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$\begin{array}{c} 41,\ 45,\ 49,\ 54,\ 55,\ 60,\\ 61,\ 67,\ 68,\ 72,\ 73,\ 78,\\ 79,\ 84,\ 85,\ 89,\ 90,\ 94,\\ 95,\ 100,\ 101,\ 106,\ 107,\\ 111,\ 116,\ 117,\ 122,\ 123,\ 126\\ \hline \\ \begin{array}{c} \texttt{DeclareRobustCommand} \\ \dots \\ 767,\ 769,\ 772,\ 774,\\ 776,\ 778,\ 780,\ 782,\ 785,\\ 787,\ 789,\ 791,\ 794,\ 796,\\ 798,\ 800,\ 802,\ 820,\ 822,\\ 824,\ 826,\ 828,\ 830,\ 833,\\ 836,\ 838,\ 840,\ 842,\ 845,\\ 847,\ 849,\ 852,\ 861,\ 863,\\ 865,\ 867,\ 870,\ 872,\ 874,\\ 876,\ 878,\ 880,\ 883,\ 885,\\ 887,\ 889,\ 891,\ 893,\ 895,\\ 897,\ 899,\ 901,\ 903,\ 905,\\ 907,\ 909,\ 911,\ 913,\ 915,\\ 917,\ 920,\ 922,\ 924,\ 926,\\ 928,\ 931,\ 933,\ 936,\ 938,\\ 940,\ 942,\ 944,\ 946,\ 948,\\ 950,\ 952,\ 954,\ 956,\ 959,\\ 961,\ 963,\ 1161,\ 1163,\\ 1165,\ 1226,\ 1228,\ 1309,\\ 1311,\ 1315,\ 1317,\ 1321,\\ 1323,\ 1327,\ 1329,\ 1333,\\ 1335,\ 1350,\ 1354,\ 1358,\\ 1362,\ 1366,\ 1373,\ 1377,\\ 1381,\ 1385,\ 1389,\ 1398,\\ \end{array}$	993, 994, 995, 996, 997, 998, 999, 1000, 1001, 1002 \defcomclscmd	\Eg

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1580, 1595, 1661, 1669, 1678, 1686, 1695, 1703, 1712, 1720, 1729, 1737, 1746, 1754, 1763, 1771, 1780, 1788, 1797, 1805 \texpandafter \tag{249, 251, 254, 259, 263} \texpSpace, \tag{251, 254, 259, 263} \texpSpace, \tag{252, 1001} \texpSpace, \tag{251, 254, 259, 263} \texpSpace, \tag{251, 254, 259, 263} \texpSpace, \tag{251, 254, 259, 263} \texpSpace, \tag{251, 277, 1701} \texpSpace, \tag{270, 1702} \texpSpace, \tag{270, 1702} \texpSpace, \tag{270, 1703} \texpS	\gam@true	\krpstr
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1580, 1595, 1661, 1669, 1678, 1686, 1695, 1703, 1712, 1720, 1729, 1737, 1746, 1754, 1763, 1771, 1780, 1788, 1797, 1805 \texpandafter	\gam@true 84 \Game 1049 \gamename 1049, 1050 \GameName,	\textbf{krpStr}, \(\text{L}, \text{1417}, \text{1418} \) \text{L} \laallsym \(1300, 1301 \) \labFun \(\text{1426} \) \labsym \(1426, 1427 \) \lallsym \(1188, 1189 \) \text{Lambda} \(1877 \) \lambda \(1426 \) \land \(1178 \) \text{LangFun} \(1858 \) \text{langfun} \(1858, 1859 \) \text{langfun} \(1858, 1859 \) \text{langle} \(813, \) \text{814, 816, 817, 1413, 1600} \text{LaTex} \(632, 639 \) \text{lbrace} \(821, 823 \) \text{lceil} \(934 \) \text{lcoisym} \(1184, 1185 \) \text{LCon, \LDis} \(1178 \) \text{lconsym} \(1180, 1181 \) \text{LExs, \LAAll} \(1298 \) \text{leexssym} \(1298, 1299 \) \text{left} \(354, \) \(362, 807, 808, 809, 810, \) \(811, 812, 813, 814, 815, \) \(816, 817, 818, 821, 823, \) \(825, 932, 934, 1415, 1602 \)
1580, 1595, 1661, 1669, 1678, 1686, 1695, 1703, 1712, 1720, 1729, 1737, 1746, 1754, 1763, 1771, 1780, 1788, 1797, 1805 \texpandafter	\gam@true	\krpstr

\leftrightarrow 1184	\MovRel <u>1047</u>	\mthstysym 590
\Let 1935	\movrel 1047, 1048	\mthstyvec 685
\let $1495, 1496, \overline{1497}$	\movsym 1632, 1633	\mthsubsup 350, 369
\LExs,_\LAll <u>1186</u>	\MPL 1381, 1386, 1390	\mthsym, 589
\lexssym 1186, 1187		\mthvec, \ldots \ \frac{684}{}
	\MSO 1323, 1330, 1336	
\lfloor 932	\MSOL 1321, 1328, 1334	\MTL 1358, 1363, 1367
\lfp 865	\mth 372 , 795 ,	\mu
\liftFun <u>1099</u>	797, 799, 801, 803, 805,	\Mutatismutandis 737
\liftfun 1099, 1100	806, 807, 808, 809, 810,	\mutatismutandis 720
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\limpsym 1182, 1183	816, 817, 818, 827, 829,	${f N}$
\linenumbers 202, 204	831, 834, 853, 921, 923,	\naif <u>744</u>
\linnum@false 48	925, 927, 929, 932, 934,	\naive <u>745</u>
\linnum@true 49	960, 1413, 1415, 1600, 1602	\neg 1174
\llbracket 831	\mtharg 374	\newcommandx
\llcorner 858		294, 296, 298, 300,
	\mthargfun 837,	302, 304, 306, 308, 310,
\LNeg,_\LNot <u>1174</u>	839, 841, 843, 846, 962, 964	
\lnegsym 1174, 1175	\mthargset	312, 343, 349, 351, 353,
\lnotsym 1176, 1177	871, 873, 875, 877, 879, 881	355, 357, 359, 361, 363,
\log@false $56, 62, 88, 90$	\mthcls, <u>505</u>	365, 367, 398, 401, 403,
\log@true 89	\mthelm, <u>602</u>	405, 407, 409, 411, 413,
\logsig 1168, 1169	\mthfam, 492	415, 417, 426, 428, 430,
\LogSig, <u>1168</u>	\mthfrm, \(\triangle \) \(\triangle \) \(\frac{657}{} \)	432, 434, 438, 440, 442,
\LogSpace, <u>996</u>	\mthfun . 862, 864, 866, 868,	444, 446, 451, 453, 455,
\logstr 1212, 1213		457, 459, 463, 465, 467,
\LogStr,	937, 939, 941, 943, 945,	469, 471, 482, 484, 486,
\LogTime, 995	947, 949, 951, 953, 955, 957	488, 490, 495, 497, 499,
•	\mthfun, <u>576</u>	501, 503, 508, 510, 512,
\lor 1180	\mthgen@false 59, 62	
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\lvert 827	\mthlbop 768, 770, 848, 850	527, 529, 534, 536, 538,
3.5	\mthlrel	540, 542, 547, 549, 551,
${f M}$	<u>639,</u> 773, 775, 777, 779,	553, 555, 557, 566, 568,
\Macro, <u>1932</u>		570, 572, 574, 579, 581,
\Macro, \(\ldots \) \tag{932} \math@false \(\ldots \) \tag{62, 71, 73}	781, 783, 786, 788, 790, 792	570, 572, 574, 579, 581, 583, 585, 587, 592, 594,
	781, 783, 786, 788, 790, 792 \mthluop,\ldots \cdot \delta	
$\verb \math@false \dots \dots 62, 71, 73 $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	583, 585, 587, 592, 594,
\math@true	781, 783, 786, 788, 790, 792 \mthluop,	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619,
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217	781, 783, 786, 788, 790, 792 \mthluop,	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619, 622, 625, 628, 635, 637,
$\begin{array}{llllllllllllllllllllllllllllllllllll$	781, 783, 786, 788, 790, 792 \mthluop,	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619, 622, 625, 628, 635, 637, 641, 647, 649, 651, 653,
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480	781, 783, 786, 788, 790, 792 \mthluop,	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619, 622, 625, 628, 635, 637, 641, 647, 649, 651, 653, 655, 660, 662, 664, 666,
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506	781, 783, 786, 788, 790, 792 \mthluop, □	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619, 622, 625, 628, 635, 637, 641, 647, 649, 651, 653, 655, 660, 662, 664, 666, 668, 674, 676, 678, 680,
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619, 622, 625, 628, 635, 637, 641, 647, 649, 651, 653, 655, 660, 662, 664, 666, 668, 674, 676, 678, 680, 682, 687, 689, 691, 693,
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	583, 585, 587, 592, 594, 596, 598, 600, 605, 607, 609, 611, 613, 616, 619, 622, 625, 628, 635, 637, 641, 647, 649, 651, 653, 655, 660, 662, 664, 666, 668, 674, 676, 678, 680, 682, 687, 689, 691, 693, 695, 971, 974, 979, 984, 986
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603	781, 783, 786, 788, 790, 792 \mthluop, □	$583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ $
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathop 633	781, 783, 786, 788, 790, 792 \mthluop, □	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \begin{array}{c} 11,16,20,24,28,32,\\ 36,40,44,48,53,59, \end{array}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519	781, 783, 786, 788, 790, 792 \mthluop, □	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \end{array}$ $\begin{array}{c} 11,16,20,24,28,32,\\ 36,40,44,48,53,59,\\ 66,71,77,83,88,93,\\ \end{array}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519 \mathrel 640, 858	781, 783, 786, 788, 790, 792 \mthluop, □	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \verb"\newif" 11,16,20,24,28,32,\\ 36,40,44,48,53,59,\\ 66,71,77,83,88,93,\\ 99,105,110,115,121,132\\ \end{array}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797	781, 783, 786, 788, 790, 792 \mthluop, □	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \end{array}$ $\begin{array}{c} 11,16,20,24,28,32,\\ 36,40,44,48,53,59,\\ 66,71,77,83,88,93,\\ 99,105,110,115,121,132\\ \\ \end{array}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519 \mathrel 640, 858	781, 783, 786, 788, 790, 792 \mthluop, \(\cdots \)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \verb"\newif" 11,16,20,24,28,32,\\ 36,40,44,48,53,59,\\ 66,71,77,83,88,93,\\ 99,105,110,115,121,132\\ \end{array}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797	781, 783, 786, 788, 790, 792 \mthluop, \ldots \\ \frac{632}{mthmat, \ldots \} \frac{671}{mthname, \ldots \} \frac{479}{mthoarg} \frac{376}{mthopar} \frac{380}{mthpar} \frac{378}{mthrel, \ldots \} \frac{563}{mthset} \frac{884}{886, 888, 892, 900, 908, 916} \frac{544}{mthset, \ldots \} \frac{518}{mthset, \ldots \} \frac{531}{mthset} \frac{531}{mthset} \frac{531}{mthset} \frac{373, 375, 377, 379, 381, \frac{382}{382}} \frac{382}{382}	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \end{array}$ $\begin{array}{c} 11,16,20,24,28,32,\\ 36,40,44,48,53,59,\\ 66,71,77,83,88,93,\\ 99,105,110,115,121,132\\ \\ \end{array}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathrm 545 \mathscr 220, 493	781, 783, 786, 788, 790, 792 \mthluop, \(\cdots \)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \end{tabular}$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathrm 545 \mathscr 220, 493 \mathsf 577, 645, 672	781, 783, 786, 788, 790, 792 \mthluop, \ldots \\ \frac{632}{mthmat, \ldots \} \frac{671}{mthname, \ldots \} \frac{479}{mthoarg} \frac{376}{mthopar} \frac{380}{mthpar} \frac{378}{mthrel, \ldots \} \frac{563}{mthset} \frac{884}{886, 888, 892, 900, 908, 916} \frac{544}{mthset, \ldots \} \frac{518}{mthset, \ldots \} \frac{531}{mthset} \frac{531}{mthset} \frac{531}{mthset} \frac{373, 375, 377, 379, 381, \frac{382}{382}} \frac{382}{382}	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathormal 603 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathrel 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590	781, 783, 786, 788, 790, 792 \mthluop, \ldots \\ \\ \text{mthname}, \ldots \\ \\ \text{mthoarg} \\ \text{mthoarg} \\ \\ \text{mthoarg} \\ \\ \text{mthopar} \\ \\ \text{mthopar} \\ \\ \text{mthrel}, \ldots \\ \\ \text{mthset} \\ \\ \text{mthset}, \ldots \\ \\ \text{mthsig}, \ldots \\ \\ \text{mthsig}, \ldots \\ \\ \\ \text{mthstr}, \ldots \\ \\ \\ \text{mthstr}, \ldots \\ \\ \\ \text{mthstr}, \ldots \\ \\ \\ \\ \text{mthstr}, \ldots \\ \\ \\ \\ \\ \text{mthstr}, \ldots \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathormal 603 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathrm 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\math@false 62, 71, 73 \math@false 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \mathcal 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathnormal 603 \mathop 633 \mathop 633 \mathrel 640, 858 \mathring 797 \mathrm 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \MaxSym, \MinSym 1141	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathormal 603 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathrm 545 \mathrm 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \MaxSym, _\MinSym 1141 \MC, _\GMC, _\. 1433	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathrm 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \MaxSym, _\MinSym \frac{1141}{1433} \mdseries 328, 450, 462	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \MaxSym, _\MinSym 1141 \MC, _\GMC, _\ 1433 \mdseries 328, 450, 462 \MFO 1228	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583,585,587,592,594,\\ 596,598,600,605,607,\\ 609,611,613,616,619,\\ 622,625,628,635,637,\\ 641,647,649,651,653,\\ 655,660,662,664,666,\\ 668,674,676,678,680,\\ 682,687,689,691,693,\\ 695,971,974,979,984,986\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \MaxSym, \ \MinSym 1141 \MC, \ \GMC, \ \ 1433 \mdseries 328, 450, 462 \MFO 1228 \MFOL 1226	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141 \mcsym 1433 \mdseries 328, 450, 462 \mfOL 1228 \mfOL 1226 \middle 821	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathormal 603 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 123 \mdseries 328, 450, 462 \mfOL 1228 \mfOL 1226 \middle 821 \mif_{II} 1944	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141 \mcsym 1433 \mdseries 328, 450, 462 \mfOL 1228 \mfOL 1226 \middle 821	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathormal 603 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 123 \mdseries 328, 450, 462 \mfOL 1228 \mfOL 1226 \middle 821 \mif_{II} 1944	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1243 \mathcal 328, 450, 462 \mfO 1228 \mfOL 1226 \middle 821 \mif, \ldots 946 \minsym 1143, 1144	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathormal 603 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1243 \mathcal 328, 450, 462 \mfO 1228 \mfOL 1226 \middle 821 \mif,_\max,_\max,_\max,_\max 946	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$
\math@false 62, 71, 73 \math@true 72 \mathaccent 803 \mathbbo 217 \mathbin 634 \mathcal 480 \mathcal 480 \matheus 218, 506 \mathfrak 532 \mathit 564, 658, 685 \mathop 633 \mathpzc 219, 519 \mathrel 640, 858 \mathring 797 \mathr 545 \mathscr 220, 493 \mathsf 577, 645, 672 \mathtt 590 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1141, 1142 \maxsym 1228 \mfOL 1228 \mfOL 1226 \middle 821 \mif_\min,\max,\max,\max 946 \minsym 1143, 1144 \min,\max,\max 946 \minsym 1143, 1144 \min,\max,\max 1394	781, 783, 786, 788, 790, 792 \mthluop, \(\)	$\begin{array}{c} 583, 585, 587, 592, 594, \\ 596, 598, 600, 605, 607, \\ 609, 611, 613, 616, 619, \\ 622, 625, 628, 635, 637, \\ 641, 647, 649, 651, 653, \\ 655, 660, 662, 664, 666, \\ 668, 674, 676, 678, 680, \\ 682, 687, 689, 691, 693, \\ 695, 971, 974, 979, 984, 986 \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$

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\newtxtsty $\underline{296}$, 318 , 331	1037, 1038, 1041, 1043,	\RelStr, <u>1271</u>
\NGSL 1776, 1780, 1782	1611, 1612, 1615, 1617	\relsym 1259, 1261
\nlr 1945	\PosSet, <u>1036</u> , <u>1610</u>	\RequirePackage 3, 5,
\nlset 1947	\possym	6, 7, 141, 142, 143, 149,
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\normalfont 425, 450, 462		
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\notcequiv 791	\pow <u>828</u>	\rfloor 932
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\notimplied 778	\prfset . 1081, 1082, 1654, 1655	362, 807, 808, 809, 810,
\notimplies 774	\PrfSet, _\prfFun <u>1080</u> , <u>1653</u>	811, 812, 813, 814, 815,
\num, 920	\prfsym . 1080, 1082, 1653, 1655	816, 817, 818, 821, 823,
\numcc 922	\Primafacie <u>739</u>	825, 932, 934, 1415, 1602
-	\primafacie <u>722</u>	\Rightarrow 773, 775
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\ObsSet, _ \obsFun <u>1053</u>	\PrtSet, _\prtFun <u>1126</u>	\rst
\oddsym 1124, 1125	\prtsym 1126, 1128	\rvert 827
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\odot	\PSpace,	S 1407
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\Omega 873	\P \PthSet, \square \pthFun $\underline{1057}$, $\underline{1428}$	\SATG,
\omega 871	\pthsym . 1057, 1059, 1428, 1430	\SaveDoubleAcute 1496
\Omicron 881	\PTime, <u>997</u>	\SavePilcrow 1495
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	Q	$\label{eq:seqofcmd} $$ \seqofcmd \dots \ \underline{261}, 274, 278 $$ \\ \seqofgrklet \dots \ \underline{281}, 412 $$ $$$
\OppSym		$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{llllllllllllllllllllllllllllllllllll$
\OppSym	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\seqofcmd
\OppSym	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym \\ 1043, 1044, 1066, 1067, \\ 1078, 1079, 1617, 1618, \\ 1639, 1640, 1651, 1652 \\ \OppSym \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym \\ 1043, 1044, 1066, 1067, \\ 1078, 1079, 1617, 1618, \\ 1639, 1640, 1651, 1652 \\ \OppSym \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482	\seqofcmd
\OppSym	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482	\seqofcmd
\OppSym	Q \QAE,_\QEA \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441 \QML 1402	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441 \QML 1402 \qntset 1201, 1202	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441 \QML 1402 \qntset 1201, 1202 \QntSet, □ 1200 \qntsym 1200, 1202	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\OppSym \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441 \QML 1402 \qntset 1201, 1202 \QntSet, □ 1200 \qntsym 1200, 1202 \QPSpace, □ 1000	\seqofcmd
\OppSym \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QCTL 1441 \QMC 1441 \QML 1402 \qntset 1201, 1202 \QntSet, □ 1200 \qntsym 1200, 1202 \QPSpace, □ 1000 \QPTime, □ 999	\seqofcmd
\OppSym \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441 \QML 1402 \qntset 1201, 1202 \QntSet, □ 1200 \qntsym 1200, 1202 \QPSpace, □ 1000	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QCTL 1441 \QMC 1441 \QML 1402 \qntset 1201, 1202 \QntSet, □ 1200 \qntsym 1200, 1202 \QPSpace, □ 1000 \QPTime, □ 999	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \ \QEA \QAFMC	\seqofcmd
\text{OppSym} \tag{0.00} 0.	Q \QAE, □\QEA 1198 \QAFMC 1457 \QATL 1562 \QATLP 1577 \QATLS 1592 \QCTL 1513 \QCTLP 1528 \QCTLS 1543 \QLTL 1482 \QMC 1441 \QML 1402 \qntset 1201, 1202 \QntSet, □ 1200 \qntsym 1200, 1202 \QPTL 1999 \QPTL 1471 R \raisebox 858	\seqofcmd
\text{OppSym} \tag{0.00} \tag{1043, 1044, 1066, 1067, 1078, 1079, 1617, 1618, 1639, 1640, 1651, 1652} \text{oppsym} \tag{1032, 1033} \text{Opr} \tag{1090, 1032, 1033, 1094} \text{overline} \tag{795} \text{P} \text{P} \text{P} \text{200, 1495} \text{PackageWarning} \text{126} PDL, \(\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	Q \QAE,_\QEA	\seqofcmd
\text{OppSym} \tag{0.00} 0.	Q \QAE, \(\QAE\) \(QEA \) \QAFMC \ 1457 \QATL \ 1562 \QATLP \ 1577 \QATLS \ 1592 \QCTL \ 1513 \QCTLP \ 1528 \QCTLS \ 1543 \QLTL \ 1482 \QMC \ 1441 \QML \ 1402 \qntset \ 1201, 1202 \QntSet, \(\) \ 1200 \qntsym \ 1200, 1202 \QPSpace, \(\) \ 1000 \QPTime, \(\) \ 2999 \QPTL \ 1471 R \raisebox \ 858 \rangle \ 813, \815, 816, 818, 1413, 1600	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \(\QEA \) \(\) \(\)	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \(\ \QEA \) \QAFMC \ 1457 \QATL \ 1562 \QATLP \ 1577 \QATLS \ 1592 \QCTL \ 1513 \QCTLP \ 1528 \QCTLS \ 1543 \QLTL \ 1482 \QMC \ 1441 \QML \ 1402 \qntset \ 1201, 1202 \QntSet, \(\) \ 1200 \qntsym \ 1200, 1202 \QPSpace, \(\) \ 1000 \QPTime, \(\) \ 999 \QPTL \ 1471 R \raisebox \ 858 \rangle \ 813, \ 815, 816, 818, 1413, 1600 \rbrace \ 821, 825 \rceil \ 934	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \(\ \QEA \) \QAFMC \ 1457 \QATL \ 1562 \QATLP \ 1577 \QATLS \ 1592 \QCTL \ 1513 \QCTLP \ 1528 \QCTLS \ 1543 \QLTL \ 1482 \QMC \ 1441 \QML \ 1402 \qntset \ 1201, 1202 \QntSet, \(\) \ 1200 \qntsym \ 1200, 1202 \QPSpace, \(\) \ 1000 \QPTime, \(\) \ 999 \QPTL \ 1471 R \raisebox \ 858 \rangle \ 813, \ 815, 816, 818, 1413, 1600 \rbrace \ 821, 825 \rceil \ 934 \rchfun \ 1097, 1098	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \(\ \QEA \) \QAFMC \ 1457 \QATL \ 1562 \QATLP \ 1577 \QATLS \ 1592 \QCTL \ 1513 \QCTLP \ 1528 \QCTLS \ 1543 \QLTL \ 1482 \QMC \ 1441 \QML \ 1402 \qntset \ 1201, 1202 \QntSet, \(\) \ 1200 \qntsym \ 1200, 1202 \QPSpace, \(\) \ 1000 \QPTime, \(\) \ 999 \QPTL \ 1471 R \raisebox \ 858 \rangle \ 813, \ 815, 816, 818, 1413, 1600 \rbrace \ 821, 825 \rceil \ 934 \rchfun \ 1097, 1098 \rclax \ 130	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \(\ \QEA \) \QAFMC \ 1457 \QATL \ 1562 \QATLP \ 1577 \QATLS \ 1592 \QCTL \ 1513 \QCTLP \ 1528 \QCTLS \ 1543 \QLTL \ 1482 \QMC \ 1441 \QML \ 1402 \qntset \ 1201, 1202 \QntSet, \(\) \ 1200 \Qntset \ 1200, 1202 \QntSet, \(\) \ 1200 \QPTime, \(\) \ 2000 \	\seqofcmd
\OppSym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Q \QAE, \(\ \QEA \) \QAFMC \ 1457 \QATL \ 1562 \QATLP \ 1577 \QATLS \ 1592 \QCTL \ 1513 \QCTLP \ 1528 \QCTLS \ 1543 \QLTL \ 1482 \QMC \ 1441 \QML \ 1402 \qntset \ 1201, 1202 \QntSet, \(\) \ 1200 \qntsym \ 1200, 1202 \QPSpace, \(\) \ 1000 \QPTime, \(\) \ 999 \QPTL \ 1471 R \raisebox \ 858 \rangle \ 813, \ 815, 816, 818, 1413, 1600 \rbrace \ 821, 825 \rceil \ 934 \rchfun \ 1097, 1098 \rclax \ 130	\seqofcmd

\SetQ, _□ <u>899</u>	\textstyle 633, 634	\UBGSL 1764
\SetQI 901	\thestring 559, 560, 561, 562	\UCGSL 1696
\SetQNI 905	\Theta 877	\UCTL 1517
\SetQPI 903	\theta 875	\UCTLP 1532
\setr 824	\thmtls@false 25	\UCTLS 1547
\SetR, 907	\thmtls@true 24	\UDGSL
\SetRI 909	\tikzstyle 1900,	
\SetRNI 913	,	\UEGSL 1747
	1902, 1904, 1906, 1908	\UFAGSL 1738
\SetRPI 911	\Time, 993	\UFBGSL 1772
\SetZ,	\TL, \\PL, \\\	\UFCGSL 1704
\SetZI 893	\top 1170	\UFDGSL 1721
\SetZNI 897	\treeset 1881, 1882	\UFEGSL 1755
\SetZPI 895	\TreeSet, <u>1880</u>	\UFNGSL 1789
\sffamily 450	\treesym 1880, 1882	\UFOGSL 1687
\Sigma 1298, 1853	\triangleq 768	\UFSL 1670
\sigma 1073, 1646, 1852	\trn 800	
\Signature 1931	\trnFun 1855	\UFXGSL 1806
\sim 1176	\trnsym 1855 , $\overline{1856}$	\ULTL 1486
\skm 1263	\True, \ \False <u>1936</u>	\UMC 1445
\SL,	\Tt,_\\\\f1 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\UML 1406
\so 1312, 1318, 1324	\ttsym 1170, 1171	\UNGSL 1781
		\UOGSL 1679
\SOL,	\tuple,	\upharpoonright 848
\solFun <u>1101</u>	\txt <u>317</u>	\upshape 328
\solfun 1101, 1102	\txtabr, <u>436</u>	\UPTL 1475
\Space, <u>994</u>	\txtarg <u>319</u>	
\strset	\txtcom 985, 987	\usetikzlibrary 1899
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1620, 1621, 1622, 1624, 1846, 1847, 1848, 1850 \SttSet, □	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	528, 530, 535, 537, 539, 541, 543, 548, 550, 552, 554, 556, 567, 569, 571, 573, 575, 580, 582, 584, 586, 588, 593, 595, 597, 599, 601, 606, 608, 610, 612, 614, 636, 638, 642, 648, 650, 652, 654, 656, 661, 663, 665, 667, 669, 675, 677, 679, 681, 683, 688, 690, 692, 694, 696, 1171, 1173, 1175, 1177, 1179, 1181, 1183, 1185, 1187, 1189, 1193, 1194, 1195, 1196, 1197, 1198, 1199, 1203, 1204, 1205, 1206, 1236, 1237, 1243, 1249, 1250, 1256, 1262, 1263, 1299, 1301, 1409, 1410, 1411, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1498, 1550, 1551, 1812, 1813 \\usrmthgrklet \ldots
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1620, 1621, 1622, 1624, 1846, 1847, 1848, 1850 \SttSet, 1619, 1845 \sttsym 1619, 1621, 1623, 1625, 1845, 1847, 1849, 1851 \stx 753 \sub 1194 \sucfum 1085, 1086 \svarset 1342, 1343 \SVarSet, 1341, 1343 \symset 1853, 1854 \SymSet, 1852 \symsym 1852, 1854 T \tab@false 115, 117 \tab@true 116 \tau 1632 \TAutSet 1874, 1875 \terset 1254, 1255 \tersig 1251, 1252 \TerSig, 1269 \terstr, 1269 \tersym 1253, 1255	1316, 1318, 1322, 1324, 1328, 1330, 1334, 1336, 1351, 1355, 1359, 1363, 1367, 1374, 1378, 1382, 1386, 1390, 1399, 1403, 1438, 1442, 1450, 1454, 1458, 1472, 1483, 1510, 1514, 1525, 1529, 1540, 1544, 1559, 1563, 1574, 1578, 1589, 1593, 1666, 1683, 1700, 1717, 1734, 1751, 1768, 1785, 1802 \txtname, \(\) 449 \txtoarg 321 \txtopar 325 \txtsty 323 \txtsty 323 \txtsty 4326, 327 \txtstycom 462 \txtstydef 425 \txtstyname 450 \txtsubsup 295, 314	$\begin{array}{c} 528,530,535,537,539,\\ 541,543,548,550,552,\\ 554,556,567,569,571,\\ 573,575,580,582,584,\\ 586,588,593,595,597,\\ 599,601,606,608,610,\\ 612,614,636,638,642,\\ 648,650,652,654,656,\\ 661,663,665,667,669,\\ 675,677,679,681,683,\\ 688,690,692,694,696,\\ 1171,1173,1175,1177,\\ 1179,1181,1183,1185,\\ 1187,1189,1193,1194,\\ 1195,1196,1197,1198,\\ 1199,1203,1204,1205,\\ 1206,1236,1237,1243,\\ 1249,1250,1256,1262,\\ 1263,1299,1301,1409,\\ 1410,1411,1489,1490,\\ 1491,1492,1493,1494,\\ 1495,1496,1497,1498,\\ 1550,1551,1812,1813\\ \\ \ \ \ \ \ \ \ \ \ \ \ \ $
1620, 1621, 1622, 1624, 1846, 1847, 1848, 1850 \SttSet, 1619, 1845 \sttsym 1619, 1621, 1623, 1625, 1845, 1847, 1849, 1851 \stx 753 \sub 1194 \sucfum 1085, 1086 \svarset 1342, 1343 \SVarSet, 1341, 1343 \symset 1853, 1854 \SymSet, 1852 \symsym 1852, 1854 T \tab@false 115, 117 \tab@true 116 \tau 1632 \TAutSet 1874, 1875 \terset 1254, 1255 \terset 1251, 1252 \TerSig, 1251 \terstr 1269, 1270 \TerStr, 1253, 1255 \text 295, 315	1316, 1318, 1322, 1324, 1328, 1330, 1334, 1336, 1351, 1355, 1359, 1363, 1367, 1374, 1378, 1382, 1386, 1390, 1399, 1403, 1438, 1442, 1450, 1454, 1458, 1472, 1483, 1510, 1514, 1525, 1529, 1540, 1544, 1559, 1563, 1574, 1578, 1589, 1593, 1666, 1683, 1700, 1717, 1734, 1751, 1768, 1785, 1802 \txtname, \(\text{txtname}, \(\text{carg} \) \(\text{321} \) \txtsty \(\text{carg} \) \(\text{323} \) \txtsty \(\text{carg} \) \(\text{323} \) \txtsty \(\text{carg} \) \(\text{324} \) \txtstydef \(\text{425} \) \txtstyldef \(\text{425} \) \txtstyname \(\text{450} \) \txtstyname \(\text{461} \) \txtsubsup \(\text{295}, \frac{314}{314} \)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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1258, 1266, 1268, 1270,	\Viceversa <u>740</u>	\wotFun <u>1883</u>
1272, 1418, 1606, 1840	\viceversa <u>723</u>	\wotfun 1883, 1884
\usrmthlet <u>417</u> , <u>559</u> , <u>561</u>	\viz <u>725</u>	\wp 1200
\usrmthlow <u>413</u>	\vs <u>724</u>	\WPL 1373
\usrmthupp 415		\wrdset 1861, 1862
\usrtxt	\mathbf{W}	\WrdSet, 1860
<u>343</u> , 427, 429, 431, 433,	\WATL 1558	\wrdsym 1860, 1862
435, 439, 441, 443, 445,	\WATLP 1573	\wrlset 1420, 1421
447, 452, 454, 456, 458,	\WATLS 1588	\WrlSet, 1419
460, 464, 466, 468, 470, 472	\WAutSet <u>1843</u>	\wrlsym 1419, 1421, 1422
\UXGSL 1798	\wautset 1843, 1844	\wrpfig@false 111
	\WCTL 1509	\wrpfig@true 110
${f V}$	\WCTLP 1524	\wrt 755
\valset 1215, 1216	\WCTLS 1539	\WSO 1311
\ValSet, <u>1214</u>	\wghset 1146, 1147	\WSOL 1309
\valsym 1214, 1216	\WghSet, \\wghFun <u>1145</u>	\WTL 1350
\varcmd . $248, 805, 806, 807,$	\wghsym 1145, 1147	•
808, 809, 810, 811, 812,	\widehat 799	\mathbf{X}
813, 814, 815, 816, 817, 818	\widetilde 801	\X, _□ <u>1489</u>
\varepsilon 960		\XGSL 1793, 1797, 1799
\varnothing 834, 853	\winset $\dots \dots 1051, \overline{1052}$	
\varset 1234, 1235	\Wlogx <u>759</u>	
\varsig 1231, 1232		\xi 1080, 1214, 1653
\VarSig,		\xspace 295
\varsym 1233, 1235	\WMSO 1329	•
\vec 802	\WMSOL 1327	\mathbf{Y}
$\forall \texttt{vert} \dots 821, \overline{823}$	\WMTL 1362	\Y,