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

 $1 \langle *package \rangle$

Required external packages:

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

Package options:

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

^{*}This document describes version v0.22 of the fmocdmac package, last revised 2023/09/14.

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

```
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 \newif\iffig@ \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:
          126 \DeclareOption*{\PackageWarning{fmocdmac}{Unknown~'\CurrentOption'}}%
          128 \ExecuteOptions{aux,txtgen,mthgen,txt,mth,com,gam,log,aut}%
          130 \ProcessOptions\relax%
          132 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
         Package main body:
          \omicron Auxiliary Greek lowercase letter: ... to do!
          138 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
          139 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
          140 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
          141 \csdef{varKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{O}
          142 \end{P} \csdef{Rho}{P} \csdef{Tau}{T} \csdef{Chi}{X}
          \empths Emptiness check: \empchk{\langle A\rangle} {\langle B\rangle} 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"
```

```
147 \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"
           149 \newcommand{\defval}[2]
                 {\left\{\frac{4}{2}\right\}}
           \ Left extension: \ arglef \{\langle A \rangle\} 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"
           152 \newcommand{\arglef}[2]
                {\empchk{#2}{#1#2}}
\argrig Right extension: \argrig{\langle A\rangle}{\langle B\rangle} evaluates to the concatenation \langle AB \rangle of the two arguments,
          if Argument \langle A \rangle is non-empty, and to the empty string, otherwise.
              • \argrig{}{B} = ""
              • \argrig{A}{B} = "AB"
           154 \newcommand{\argrig}[2]
                {\empchk{#1}{#1#2}}
         Middle extension: \argmid{\langle A \rangle}{\langle A \rangle}{\langle C \rangle} evaluates to the concatenation \langle ABC \rangle of the three
          arguments, if Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
              • \argmid{A}{}{C} = ""
              • \argmid{A}{B}{C} = "ABC"
           156 \newcommand{\argmid}[3]
                {\empchk{#2}{#1#2#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
\argsep
          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"
           158 \newcommand{\argsep}[3]
                 {\if&#1&#3\else#1\arglef{#2}{#3}\fi}
           Variadic commands: \forall A \in \{\langle A \rangle\} \{\langle B \rangle\} \{\langle C \rangle\} \{\langle E \rangle\} \{\langle E \rangle\} \{\langle F \rangle\} \dots \text{ to do!}
           161 \newcommand{\varcmd}[6]
                 {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
           162
                    {\csname check#1arg\endcsname{\argsep{##1}{#4}{\empchk{##2}{{##2}}}}}
           163
           164
                 \expandafter\newcommand\csname check#larg\endcsname[1]
           165
                    {\csname @ifnextchar\endcsname%
           166
                      \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
           167
                 \expandafter\newcommand\csname#1\endcsname[1]
                    {\csname check#larg\endcsname{#3##1}}}
           168
```

```
\seqoftag Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
               170 \newcommand{\seqoftag}[3]
                    {\c {\c of or \itr : = {#1} \do%}}
                      {\expandafter\csedef{\itr#2}%
               172
                        {\noexpand\csname #3\endcsname{\itr}}}
               173
   \seqofcmd Sequence of commands: \seqofcmd{\langle A\rangle}{\langle B\rangle}{\langle C\rangle} \text{... to do!}
               174 \newcommand{\seqofcmd}[3]
                    {\@for\itr:={#1}\do%
                      {\expandafter\csedef{\itr#2}%
               176
                        {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
               177
               \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               179 \newcommand{\seqoflatlow}
                    {\seqoftag{a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z}}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               181 \newcommand{\seqoflatupp}
                    {\seqoftag{A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z}}
\sequence of Latin letters: \sequence \{A\} \{\Bar{B}\} \... to do!
               183 \newcommand{\seqoflatlet}[2]
                    {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
               \seqofgrklow Sequence of Greek lowercase letters: \seqofgrklow\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               186 \newcommand{\seqofgrklow}
                    {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                    iota,kappa,varkappa,lambda,mu,nu,xi,omicron,pi,varpi,rho,varrho,sigma,%
               189
                    varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
              Sequence of Greek uppercase letters: \ensuremath{\mathsf{Valighter}} \{A\} \} \{\langle B \rangle \} \dots \text{ to do!}
\seqofgrkupp
               190 \newcommand{\seqofgrkupp}
                    {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
               192
                    Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                    varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               194 \newcommand{\seqofgrklet}[2]
                    \label{lower} $$\{ \simeq fgrklow{#1}{#2}\simeq fgrkupp{#1}{#2} \}$
               Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
               197 \newcommand{\seqoflow}[2]
                   {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
              Sequence of uppercase letters: \seqofupp{\langle A \rangle}{\langle B \rangle} ... to do!
   \seqofupp
               199 \newcommand{\seqofupp}[2]
                   {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
   \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               201 \newcommand{\seqoflet}[2]
                   {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
```

```
207 \ifaux@
208
209 \ightharpoonup 209 \ightharpoonup 209 \ightharpoonup 209 \grapher 209 \graphe
210 % AMS Packages
            \RequirePackage{mathtools}
             \RequirePackage{amssymb}
            \RequirePackage{stmaryrd}
         \interdisplaylinepenalty=2500
215\fi
216
217 \ifamsthm@
218 % AMS Theorem Tools
219
           \RequirePackage{amsthm}
220 \fi
221
222 \ifthmtls@
223 % Extended Theorem Tools
             \RequirePackage{thmtools, thm-restate}
225 \fi
226
227 \ifenmtls@
228 % Enumeration Tools
           \RequirePackage{paralist}
230 \fi
231
232 \ifhypref@
233 % Hyper References
             \RequirePackage{hyperref}
             \hypersetup {
                                                      = {},
236
                 pdfsubject
                 pdfkeywords
                                                   = {},
237
                 pdfproducer = {},
238
                  pdfcreator
                                                     = {},
239
                  pdfpagemode = {UseNone},
240
                  pdfstartview = {FitH},
241
242
                 urlcolor
                                                     = {blue},
243
                  colorlinks
244 }
245 \fi
246
247 \iffnttls@
248 % Font Tools
249 \RequirePackage[final]{microtype}
250\fi
251
252 \ifcrv@
253 % Camera-Ready Version
254
255
            %%...
257 \ensuremath{\setminus} else
           % Draft Version
258
259
            %%...
260
261
262
             \ifchgbar@
263
                  % Change Bars
                   \RequirePackage{changebar}
264
265
266
```

```
\iflinnum@
                    267
                               % Line Numbers
                    268
                    269
                               \if@twocolumn
                                  \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                    270
                    271
                                   \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                    272
                               \fi
                    273
                            \fi
                    274
                    275
                    276
                            %%...
                    278 \fi
                    279
                    280 \fi
                    \mathbbo Bbo Math Font: ... to do!
                    \matheus Eus Math Font: ... to do!
                    286 \left\{ \mathbb{U}_{matheus} \right\} \\
   \mathpzc Pzc Math Font: ... to do!
                    287 \left( \mathbf{T1}_{pzc}_{m}_{it} \right)
   \mathscr Scr Math Font: ... to do!
                    288 \left\{ \mathbf{Mathscr} {} \right\} \\
                    \newtxt ... to do!
                        • \mbox{\ensuremath{\text{Name}}[sub][sup][Ext]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{Ext}}}"
                        • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                        • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                         \bullet \mathtt{\t Name}^{\sup}_{\mathrm{sub}}[\mathtt{Ext}] = \mathtt{\t Name}^{\sup}_{\mathrm{sub}} \mathtt{Ext}" 
                        • \newtxt*[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                        293 \newcommand{\newtxt}
                          {\@ifstar{\@snewtxt}{\@newtxt}}
                    295 \newcommandx{\@newtxt}[5][1=, 3=, 4=, 5=]
                           {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
                    297 \newcommandx{\@snewtxt}[5][1=, 3=, 4=, 5=]
                          {#1#2\txtsubsup[#1]{#3}{#4}#5\normalfont\xspace}
\newtxtsty ... to do!
                        \bullet \ \texttt{Name} \ \texttt{[sub]} \ \texttt{[sup]} \ \texttt{[Ext]} = "Name \ \texttt{sup} \ \texttt{Ext}"
                        • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                         \bullet \verb| \newtxtsty{\mfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext" \\
                        • \mbox{\mbox{$Name}_{sub}[Sub][Ext] = "Name_{sub}^{sup}Ext"} = "Name_{sub}^{sup}Ext"}
                        • \newtxtsty*{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                        • \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{
```

```
299 \newcommand{\newtxtsty}
                                                                            300 {\@ifstar{\@snewtxtsty}{\@newtxtsty}}
                                                                            301 \newcommandx{\@newtxtsty}[2][2=]
                                                                           302 {\newtxt[\defval{#2}{#1}]}
                                                                           303 \newcommandx{\@snewtxtsty}[2][2=]
                                                                           304 {\newtxt*[\defval{#2}{#1}]}
                  \newtxtarg ... to do!
                                                                                      \bullet \ \texttt{Name}_{sub}^{sup}[\texttt{Ext1}] \ \texttt{Arg}[\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}''
                                                                                       • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \
                                                                                        \bullet \texttt{ \newtxtarg*[\nmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{\sup} Ext1(Arg) Ext2" } 
                                                                                       • \newtxtarg*[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                                       \bullet \mathtt{Name}^{\sup}_{\mathrm{Sub}}[\mathrm{Sub}][\mathrm{Ext1}] \\ \{\mathrm{Arg}^{\max}_{\mathrm{Sub}}] \\ = \mathtt{Name}^{\sup}_{\mathrm{Sub}} \\ \mathrm{Ext1}(\mathrm{Arg}) \\ \mathrm{Ext2} \\ = \mathtt{Ext1}(\mathrm{Arg}) \\ \mathrm{Ext2} \\ = \mathtt{Ext2}(\mathrm{Ext2}) \\ = \mathtt{Ext1}(\mathrm{Ext2}) \\ = \mathtt{Ext2}(\mathrm{Ext2}) \\ = \mathtt{Ext1}(\mathrm{Ext2}) \\ = \mathtt{Ext2}(\mathrm{Ext2}) 
                                                                            305 \newcommand{\newtxtarg}
                                                                                             {\@ifstar{\@snewtxtarg}{\@newtxtarg}}
                                                                            307 \newcommandx{\@newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                            308 {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
                                                                            309 \newcommandx{\@snewtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                           310 {\newtxt*[#1]{#2}[#3][#4][\argmid{#5(}{#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]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name*ub Ext1(Arg)Ext2"
                                                                                       \bullet \texttt{ \newtxtargsty{\nmfamily}[\nme][sub][sub][sup][Ext1]{Arg}[Ext2] = \texttt{``Name}^{sup}_{sub} \texttt{Ext1(Arg)Ext2''} } \\
                                                                                        \bullet \texttt{ \newtxtargsty*{\nmfamily}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{\sup} Ext1(Arg) Ext2" } 
                                                                                        \bullet \texttt{\newtxtargsty*{\normaliv}[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{sup}_{sub}Ext1(Arg)Ext2" } \\
                                                                                       • \newtxtargsty*{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup}Ext1(Arg)Ext2"
                                                                           311 \newcommand{\newtxtargsty}
                                                                           312 {\@ifstar{\@snewtxtargsty}{\@newtxtargsty}}
                                                                            313 \newcommandx{\@newtxtargsty}[2][2=]
                                                                                             {\newtxtarg[\defval{#2}{#1}]}
                                                                            315 \newcommandx{\@snewtxtargsty}[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_sup(Arg)"
                                                                                       • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       • \newtxtoarg*[\mbox{\sc Name}] {\newtxtoarg*[\mbox{\sc Name}] [\mbox{\sc Sup}] [\mbox{\sc Arg}]} = \norm{\sc Name} {\norm{\sc Name} \norm{\sc Sup} \norm{\sc Name} (\mbox{\sc Arg})}
                                                                                       • \newtxtoarg*[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       • \newtxtoarg*[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                           317 \newcommand{\newtxtoarg}
                                                                           318 {\@ifstar{\@snewtxtoarg}{\@newtxtoarg}}
                                                                            319 \newcommandx{\Onewtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                            320 {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
                                                                           321 \newcommandx{\@snewtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                                                 {\newtxtarg*[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                                                                      • \mbox{\ensuremath{\mbox{Name}}[sub][sup][Arg] = "Name}_{sub}^{sup}(Arg)"}
                                                                                      • \newtxtoargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                                       \bullet \ \texttt{\normalights} \ [sub] \ [sup] \ [Arg] = "Name^{\sup}_{sub} (Arg)"
                                                                                       • \newtxtoargsty*{\rmfamily}[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
```

```
• \new txtoargsty*{\mbox{\lambda}[\ttfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"}
                                                  323 \newcommand{\newtxtoargsty}
                                                  324 {\@ifstar{\@snewtxtoargsty}{\@newtxtoargsty}}
                                                  325 \newcommandx{\@newtxtoargsty}[2][2=]
                                                  326 {\newtxtoarg[\defval{#2}{#1}]}
                                                  327 \newcommandx{\@snewtxtoargsty}[2][2=]
                                                  328 {\newtxtoarg*[\defval{#2}{#1}]}
           \newtxtpar ... to do!
                                                          \bullet \texttt{ \newtxtpar[\nmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name^{\sup}_{sub}Ext1[Par]Ext2" } 
                                                         • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                         • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup_Ext1[Par]Ext2"
                                                          \bullet \texttt{\newtxtpar*[\nmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2]} = "Name^{\sup}_{\sup} Ext1[Par] Ext2" 
                                                         • \newtxtpar*[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                         • \newtxtpar*[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name sup Ext1[Par]Ext2"
                                                  329 \newcommand{\newtxtpar}
                                                  330 {\@ifstar{\@snewtxtpar}{\@newtxtpar}}
                                                  331 \newcommandx{\@newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                  332 {\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
                                                  333 \newcommandx{\@snewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                  334 {\newtxt*[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
  \newtxtparsty ... to do!
                                                          \bullet \texttt{ \newtxtparsty{\nmfamily}{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name^{\sup}_{sub} 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] = "Name_sub_Ext1[Par]Ext2"
                                                         • \mbox{\newtxtparsty*{\nmfamily}{Name}[sub][sup][Ext1]{Par}[Ext2] = \mbox{\newtxtparsty*{\nmfamily}{Ext1[Par]Ext2"}}
                                                         • \newtxtparsty*{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "\Name_sup_Ext1[\Par]Ext2"
                                                          \bullet \mathtt{Name}_{sub}^{sup}[\mathtt{Name}_{sub}^{sup}][\mathtt{Ext1}] \\ + \mathtt{Par}_{sub}^{sup}[\mathtt{Ext2}] \\ = \mathtt{Name}_{sub}^{sup}[\mathtt{Ext1}_{sub}^{sup}][\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}][\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}][\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}] \\ + \mathtt{Name}_{sub}^{sup}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}[\mathtt{Ext2}][\mathtt{Ext2}][\mathtt{Ext2}
                                                  335 \newcommand{\newtxtparsty}
                                                  336 {\@ifstar{\@snewtxtparsty}{\@newtxtparsty}}
                                                  337 \newcommandx{\@newtxtparsty}[2][2=]
                                                  338 {\text{wetxtpar}[\defval{#2}{#1}]}
                                                  339 \newcommandx{\@snewtxtparsty}[2][2=]
                                                 340 {\newtxtpar*[\defval{#2}{#1}]}
         \newtxtopar ... to do!
                                                         • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Par]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sup}}[Par]}"
                                                         • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                         \bullet \ \texttt{\ \ } [Sub] \ [sup] \ [Par] = "Name_{sub}^{sup} \ [Par]"
                                                         • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Par]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sup}}[Par]}"
                                                         \bullet \ \texttt{\newtxtopar*[\normalfootnote{Annelson}[Sub][Sub][Par]} = \texttt{\normalfootnote{Annelson}[Par]}"
                                                         • \mbox{\tabular} {\rm Name} [sub] [sup] [Par] = "Name_{sub}^{sup} [Par]"
                                                  341 \newcommand{\newtxtopar}
                                                  342 {\@ifstar{\@snewtxtopar}{\@newtxtopar}}
                                                  343 \newcommandx{\@newtxtopar}[5][1=, 3=, 4=, 5=]
                                                  344 {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
                                                  345 \newcommandx{\constraint}[5][1=, 3=, 4=, 5=]
                                                 346 {\newtxtpar*[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                                                         \bullet \ \texttt{\newtxtoparsty}\{\texttt{\normaliy}}\{\texttt{\normaliy}}\{\texttt{\normaliy}}[\texttt{\normalize}] = \texttt{\normalize}[\texttt{\normalize}]
                                                         • \newtxtoparsty{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub[Par]"
                                                         • \newtxtoparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                         • \mbox{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\new
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 \bullet \verb| \newtxtoparsty*{\mbox{\newtxtoparsty}[\sdfamily]{\mbox{\newtxtoparsty}[\par] = "Name}_{sub}^{sup}[\par]" } 
                 • \newtxtoparsty*{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sup_[Par]"
              347 \newcommand{\newtxtoparsty}
              348 {\@ifstar{\@snewtxtoparsty}{\@newtxtoparsty}}
              349 \newcommandx{\@newtxtoparsty}[2][2=]
              350 {\newtxtopar[\defval{#2}{#1}]}
              351 \newcommandx{\@snewtxtoparsty}[2][2=]
                   {\newtxtopar*[\defval{#2}{#1}]}
\txtsubsup ... to do!
                 • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                 • \txtsubsup[\ttfamily]{Aa}{Bb} = ^{\text{"Bb"}}_{Aa}
              353 \newcommand{\txtsubsup}[3][]
                   {\ensuremath{\empchk{\#2}_{_{\text{text}{\#1}\#2}}}\empchk{\#3}{^{\text{text}{\#1}\#3}}}}
       \txt ... to do!
                 • \text{txt{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext}"
                 • \text{txt[\scshape]{Name}[sub][sup][Ext]} = \text{"Name}_{\text{SUB}}^{\text{SUP}} \text{Ext"}
                 • \txt[\bfseries]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                 • \txt*{Name}[sub][sup][Ext] = "Name_sub_Ext"
                 • \text{txt*[\scshape]} \{\text{Name}\} [\text{sub}] [\text{Ext}] = \text{"Name}_{\text{SUB}}^{\text{SUP}} Ext"
                 • \txt*[\bfseries]{Name}[sub][sup][Ext] = "Name_sub_Ext"
              356 \newcommand{\txt}
                    {\@ifstar{\newtxtsty*{\txtsty}}{\newtxtsty{\txtsty}}}
   \txtarg ... to do!
                 • \text{txtarg{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}"
                 • \txtarg[\schape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{SUB}^{SUP}Ext1(Arg)Ext2"
                 • \text{txtarg*{Name}[sub][sup][Ext1]{Arg}[Ext2]} = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1(Arg)Ext2"}
                 • \txtarg*[\scshape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NAMESUBEXT1(ARG)EXT2"
                 • \txtarg*[\bfseries] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name sub Ext1(Arg) Ext2"
              358 \newcommand{\txtarg}
                   {\@ifstar{\newtxtargsty*{\txtsty}}{\newtxtargsty{\txtsty}}}
  \txtoarg ... to do!
                 • \txtoarg{Name}[sub][sup][Arg] = "Name<sub>sub</sub>(Arg)"
                 • \txtoarg[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                 • \t = \t Name [Name] [Sub] [Sup] [Arg] = "Name <math>\t = \t Name [Arg]"
                 • \txtoarg*{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                 • \txtoarg*[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                 • \txtoarg*[\bfseries]{Name}[sub][sup][Arg] = "Name^{sup}_{sub}(Arg)"
              360 \newcommand{\txtoarg}
                   {\@ifstar{\newtxtoargsty*{\txtsty}}{\newtxtoargsty{\txtsty}}}
   \txtpar ... to do!
                 • \txtpar{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                 • \txtpar[\scshape] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "NAME_SUP_EXT1 [PAR] EXT2"
                 • \txtpar[\bfseries] {Name} [sub] [sub] [Ext1] {Par} [Ext2] = "Name_sub_Ext1[Par]Ext2"
                 • \txtpar*{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{\text{sub}}^{\text{sup}}Ext1[Par]Ext2"
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• \txtpar*[\scshape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAME_SUP EXT1[PAR]EXT2"

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362 \newcommand{\txtpar}
                                                   363 {\@ifstar{\newtxtparsty*{\txtsty}}{\newtxtparsty{\txtsty}}}
          \txtopar ... to do!
                                                            • \text{txtopar{Name}[sub][sup][Par]} = \text{"Name}_{\text{sub}}^{\text{sup}}[Par]"
                                                            • \txtopar[\scshape]{Name}[sub][sup][Par] = "NAME_SUB[PAR]"
                                                             • \t vopar[\b series] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup} [Par]"
                                                             • \text{txtopar}*{\text{Name}}[\text{sub}][\text{sup}][\text{Par}] = \text{"Name}_{\text{sub}}^{\text{sup}}[\text{Par}]"
                                                            • \txtopar*[\scshape]{Name}[sub][sup][Par] = "NAME_SUB[PAR]"
                                                             • \text{txtopar*[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}] = \text{"Name}_{\text{sub}}^{\text{sup}}[\text{Par}]"
                                                    364 \newcommand{\txtopar}
                                                                   {\@ifstar{\newtxtoparsty*{\txtsty}}{\newtxtoparsty{\txtsty}}}
              \txtsty ... to do!
                                                   366 \newcommand{\txtsty}
                                                                   {\mdseries\upshape\rmfamily}
                                                   \cmdtxt ... to do!
                                                             • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                    \verb|\txtNewCmd*{Name}|[sub][sup][Ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[Ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[Ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]|[ext]| = \verb|\txtNewCmd*{Sup}|[sup]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[ext]|[e
                                                    369 \newcommand{\cmdtxt}[1]
                                                                    {\csdef{txt#1}%
                                                    370
                                                   371
                                                                               {\@ifstar%
                                                                                       {\newtxtsty*{\csname txtsty#1\endcsname}}%
                                                    372
                                                   373
                                                                                       {\newtxtsty{\csname txtsty#1\endcsname}}}}
   \cmdtxtarg ... to do!
                                                             • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                    \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\NAME|_{SUB}^{SUB}Ext1(Arg)Ext2|
                                                                   \verb|\txtargNewCmd*{Name}| [sub] [sup] [Ext1] {Arg} [Ext2] = \verb|\txtargNewEmd*{Name}| 
                                                    374 \newcommand{\cmdtxtarg}[1]
                                                                   {\csdef{txtarg#1}%
                                                                               {\@ifstar%
                                                   376
                                                   377
                                                                                       {\newtxtargsty*{\csname txtsty#1\endcsname}}%
                                                   378
                                                                                       {\newtxtargsty{\csname txtsty#1\endcsname}}}}
\cmdtxtoarg ... to do!
                                                             \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                    \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|_{SUB}^{SUP}(Arg)
                                                                    \t \ [sub] [sup] [Arg] = NAME_SUB (ARG)
                                                   379 \newcommand{\cmdtxtoarg}[1]
                                                                   {\csdef{txtoarg#1}%
                                                                               {\@ifstar%
                                                    381
                                                                                       {\newtxtoargsty*{\csname txtsty#1\endcsname}}%
                                                   382
                                                                                      {\newtxtoargsty{\csname txtsty#1\endcsname}}}}
                                                   383
   \cmdtxtpar ... to do!
                                                             • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                    \verb|\txtparNewCmd*{Name}| [sub] [sup] [Ext1] {Par} [Ext2] = \verb|\txtparNewEsub| [sub] [sup] [Ext1] {Par} [Ext2] = \verb|\txtparNewEsub| [sub] [s
                                                    384 \newcommand{\cmdtxtpar}[1]
                                                                       {\csdef{txtpar#1}%
                                                    385
                                                                               {\@ifstar%
                                                    386
                                                                                       {\newtxtparsty*{\csname txtsty#1\endcsname}}%
                                                    387
                                                    388
                                                                                       {\newtxtparsty{\csname txtsty#1\endcsname}}}}
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\cmdtxtopar ... to do!
                            • \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                \text{txtoparNewCmd}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}] = \text{Name}_{\text{SUB}}^{\text{SUP}}[\text{Par}]
                                389 \newcommand{\cmdtxtopar}[1]
                                 {\csdef{txtopar#1}%
                        390
                                     {\@ifstar%
                        391
                        392
                                        {\newtxtoparsty*{\csname txtsty#1\endcsname}}%
                        393
                                        {\newtxtoparsty{\csname txtsty#1\endcsname}}}}
 \cmdtxtall ... to do!
                            • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                               \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|^{SUP}_{SUB}Ext|
                               \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}
                                \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|_{SUB}^{SUP}(Arg)
                                \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\Name|_{SUB}^{SUP}[Par]|
                        394 \newcommand{\cmdtxtall}[1]
                                {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
                        \usrtxt ... to do!
                            • \usrtxt{cmdName}{Suf}{}:
                               \c MameSuf = cmdName
                                \c MameSuf* = cmdName
                                \usrtxt{cmdName}{Suf}{arg};
                                \cmdNameSuf{Arg} = cmdName(Arg)
                                \cmdNameSuf*{Arg} = cmdName(Arg)
                                \usrtxt{cmdName}{Suf}{par};
                               \cmdNameSuf{Par} = cmdName[Par]
                                \cmdNameSuf*{Par} = cmdName[Par]
                             \usrtxt{cmdName}{Suf}{}[newName];
                                \colone{line} 
                                \cmdNameSuf* = newName
                                \usrtxt{cmdName}{Suf}{arg}[newName];
                                \cmdNameSuf{Arg} = newName(Arg)
                                \c MameSuf*{Arg} = newName(Arg)
                                \usrtxt{cmdName}{Suf}{par}[newName];
                                \cmdNameSuf{Par} = newName[Par]
                                \cmdNameSuf*{Par} = newName[Par]
                        397 \newcommandx{\usrtxt}[4][4=]
                        398
                                {\csdef{#1#2}{%}}
                        399
                                     \@ifstar%
                                        {\csname txt#3\endcsname*{\defval{#4}{#1}}}%
                        400
                                        {\csname txt#3\endcsname{\defval{#4}{#1}}}}
                        401
                        \newmth ... to do!
                            • \newmth[mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup} Ext"
                            • \newmth*[mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                            • \newmth*[mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
```

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{\@ifstar{\@snewmth}{\@newmth}}
                                                                                                                                                                                               408 \newcommandx{\@newmth}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                               409 \qquad \{\texttt{\csname} \#1 \texttt{\csname} \#2\} \texttt{\mbox{\mbox{$\#4$}} \#5} \}
                                                                                                                                                                                               410 \newcommandx{\@snewmth}[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"
                                                                                                                                                                                                                             • \newmthsty*{mathrm} [mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                                                                              \bullet \ \texttt{\  \  } \\ \texttt{\  \  \  } \\ \texttt{\  \  } \\ \texttt{\  \  \  } \\ \texttt{\  \  \  } \\ \texttt{\  \  \  \  \ } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  \  } \\ \texttt{\  \  \  \  \  } \\ \texttt{\  \  \  \  } \\ \texttt{\  \  \  \  \  \  } \\ \texttt{\  \  \
                                                                                                                                                                                               412 \newcommand{\newmthsty}
                                                                                                                                                                                               413 {\@ifstar{\@snewmthsty}{\@newmthsty}}
                                                                                                                                                                                               414 \newcommandx{\@newmthsty}[2][2=]
                                                                                                                                                                                                415 {\newmth[\defval{#2}{#1}]}
                                                                                                                                                                                               416 \newcommandx{\@snewmthsty}[2][2=]
                                                                                                                                                                                               417 {\newmth*[\defval{#2}{#1}]}
                                    \newmtharg ... to do!
                                                                                                                                                                                                                           • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{2}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                                                                                                                                                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                418 \newcommand{\newmtharg}
                                                                                                                                                                                                                                             {\@ifstar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                                                                               420 \newcommandx{\Onewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                                            {\mathbb{41}}  [\argmid{#5\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
                                                                                                                                                                                               422 \newcommandx{\@snewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                               {\newmth[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
\newmthargsty ... to do!
                                                                                                                                                                                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                            \bullet \verb| \newmthargsty{mathrm}[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = "Name_{sub}^{sup}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2" + (Arg^{Ex^{Ex}})[Ext2] + (Arg^{Ex})[Ext2] + (Arg^{Ex})[E
                                                                                                                                                                                                                              \bullet \texttt{\newmthargsty*\{mathrm\}\{Name\}[sub][sup][Ext1]\{Arg^{\{Ex^{\{Ex\}\}\}}[Ext2]} = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2" \} } \\
                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                               424 \newcommand{\newmthargsty}
                                                                                                                                                                                               425 {\@ifstar{\@snewmthargsty}{\@newmthargsty}}
                                                                                                                                                                                               426 \newcommandx{\@newmthargsty}[2][2=]
                                                                                                                                                                                               427 {\newmtharg[\defval{#2}{#1}]}
                                                                                                                                                                                               428 \newcommandx{\@snewmthargsty}[2][2=]
                                                                                                                                                                                                                                                   {\newmtharg*[\defval{#2}{#1}]}
                         \newmthoarg ... to do!
                                                                                                                                                                                                                             • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
```

406 \newcommand{\newmth}

```
• \newmthoarg[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                            \label{lem:lemmaths} $$\operatorname{Imathsf}_{\operatorname{Sub}}[\sup] [\operatorname{Arg}_{\operatorname{Ex}}] = \operatorname{Imame}_{\operatorname{sub}}^{\sup} (\operatorname{Arg}_{\operatorname{Ex}})" = \operatorname{Imame}_{\operatorname{Ex}}^{\sup} (\operatorname{Arg}_{\operatorname{Ex}})" 
                                                                                                                                                                                                         430 \newcommand{\newmthoarg}
                                                                                                                                                                                                                               {\@ifstar{\@snewmthoarg}{\@newmthoarg}}
                                                                                                                                                                              432 \newcommandx{\@newmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                               {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                                                              434 \newcommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                               {\newmtharg*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                                                                                                                                                         • \newmthoargsty{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                         \bullet \ \texttt{\  \  } [\texttt{mathtt}] \texttt{\  \  } [\texttt{Sub}] \texttt{\  \  } [\texttt{Ex}^{Ex}] = \texttt{\  \  } [\texttt{\  \  } ] = \texttt{\  \  } [\texttt{\  \  } ] 
                                                                                                                                                                                                         • \newmthoargsty*{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                                                                                                                                         \label{lem:lemm} $$\operatorname{mathrm}[\operatorname{mathtt}]_{\mathrm{Name}}[\sup] [\operatorname{Arg}^{\mathrm{Ex}^{\mathrm{Ex}}}] = \operatorname{"Name}_{\sup}^{\sup} (\operatorname{Arg}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}} (\operatorname{"Name}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}}) \operatorname{"Name}_{\sup}^{\operatorname{Ex}^{Ex}})
                                                                                                                                                                                436 \newcommand{\newmthoargsty}
                                                                                                                                                                                                                                      {\@ifstar{\@snewmthoargsty}{\@newmthoargsty}}
                                                                                                                                                                              438 \newcommandx{\@newmthoargsty}[2][2=]
                                                                                                                                                                                                                                    {\newmthoarg[\defval{#2}{#1}]}
                                                                                                                                                                              440 \newcommandx{\@snewmthoargsty}[2][2=]
                                                                                                                                                                                                                                    {\newmthoarg*[\defval{#2}{#1}]}
                                        \newmthpar ... to do!
                                                                                                                                                                                                         • \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 | Par^{Ex^{Ex}}| Ext2"
                                                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                         \bullet \ \texttt{\newmthpar[mathtt]{Name}[sub][sub][Ext1]{Par^{Ex^*}[Ex^*]}} \ [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \texttt{'`Name}_{sub}^{sup} Ext2 \texttt{'`Name}_{sub}^{sub} Ext2 \texttt{'`Name}_{sub}^{sub} Ext2 \texttt{'`Name}_{sub}^{sub} Ext2 \texttt{'`Name}_{sub}^{sub} Ext2 \texttt{'`Name}_{sub}^{sub} Ext2 \texttt{'``Name}_{sub}^{sub} Ext2 \texttt{'``Name}_{sub}^{sub} Ext2 \texttt{'``Name}_{sub}^{sub} Ext2 \texttt{'``Name}_{sub}^{sub} Ext2 \texttt{'```Name}_{sub}^{sub} Ext2 \texttt{'```Name}_{sub}^{sub} Ext2 \texttt{'```Name}_{sub}^{sub} Ext2 \texttt{'```Name}_{sub}^{sub} Ext2 \texttt{'```Name}_{sub}^{sub} Ext2 \texttt{'```Name}_{sub}^{sub} Ext2 \texttt{'````Name}_{sub}^{sub} Ext2 \texttt{'````Name}_{sub}^{sub} E
                                                                                                                                                                                                         • \newmthpar*[mathrm] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2"
                                                                                                                                                                                                          \bullet \texttt{\newmthpar*[mathsf]{Name}[sub][sup][Ext1]{Par^{Ex^{}}}} [Ext2] = \texttt{\normalfont{Name}} Ext1[Par^{Ex^{Ex}}] Ext2 \texttt{\normalfont{Name}} Ext1[Par^{Ex^{Ex}}] Ext2 \texttt{\normalfont{Name}} Ext2 \texttt{\normalf
                                                                                                                                                                                                         • \newmthpar*[mathtt]{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"
                                                                                                                                                                              442 \newcommand{\newmthpar}
                                                                                                                                                                                                                                      {\@ifstar{\@snewmthpar}{\@newmthpar}}
                                                                                                                                                                              444 \newcommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                      {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left[}{#6}{\right]\arglef{\!}{#7}}]}
                                                                                                                                                                              446 \newcommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                    {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
        \newmthparsty ... to do!
                                                                                                                                                                                                          \bullet \mathtt{Name}_{sub}^{sup}[\mathtt{Sub}][\mathtt{Sup}][\mathtt{Ext1}] \\ \{\mathtt{Par}^{\{\mathtt{Ex}^{\}}\}}[\mathtt{Ext2}] = \mathtt{``Name}_{sub}^{sup}Ext1 \\ \left[\mathtt{Par}^{\mathtt{Ex}^{Ex}}\right] \\ Ext2 \\ \mathtt{``Att2} \\ \mathtt{``Name}_{sub}^{sup}Ext1 \\ \mathtt{``Att2} \\ \mathtt{``Name}_{sub}^{sup}Ext1 \\ \mathtt{``Att2} \\ \mathtt{``Att2
                                                                                                                                                                                                         • \newmthparsty{mathrm}[mathsf]{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}][Ext2] = "Name _{sub}^{sup}Ext1|Par^{Ex^{Ex}}|Ext2"
                                                                                                                                                                                                        • \newmthparsty*{mathrm}{Name}[sub][sup] [Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{cub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"
```

• \newmthparsty*{mathrm} [mathsf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name $_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2$ "
• \newmthparsty*{mathrm} [mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name $_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2$ "

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448 \newcommand{\newmthparsty}
                                                                                                {\@ifstar{\@snewmthparsty}{\@newmthparsty}}
                                                                               450 \newcommandx{\@newmthparsty}[2][2=]
                                                                                                 {\text{newmthpar}[\defval{#2}{#1}]}
                                                                               452 \newcommandx{\@snewmthparsty}[2][2=]
                                                                                                    {\newmthpar*[\defval{#2}{#1}]}
              \newmthopar ... to do!
                                                                                          • \newmthopar[mathrm] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                                                           \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ \ }} \ \texttt{\ }} \ \texttt{\ \ } \texttt{\ \ }} \ \texttt{\ \ }
                                                                                          \verb|\newmthopar*[mathrm]{Name}[sub][sup][Par^{Ex^{*}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" = "Name_{sub}^{sup}[Par^{Ex}]" = "N
                                                                                                    \label{lem:lemmathsf} $$\operatorname{Name}[\sup][\sup][\operatorname{Par}^{Ex^*}] = \operatorname{Name}^{\sup}_{\sup}[\operatorname{Par}^{Ex^{Ex}}]"$
                                                                                                   \label{lem:lemman} $$\operatorname{mathtt}_{\mathrm{Sub}}[\sup][\operatorname{Par}_{\mathrm{Ex}}^{\mathrm{Ex}}] = \operatorname{Name}_{\mathrm{Sub}}^{\sup}[\operatorname{Par}_{\mathrm{Ex}}^{\mathrm{Ex}}]"$
                                                                               454 \newcommand{\newmthopar}
                                                                                                       {\@ifstar{\@snewmthopar}{\@newmthopar}}
                                                                               456 \mbox{\ensuremath{\mbox{0newmthopar}}[5][1=, 3=, 4=, 5=]}
                                                                                                       {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                               458 \mbox{newcommandx} \{0 \mbox{snewmthopar} [5] [1=, 3=, 4=, 5=]
                                                                                                       {\newmthpar*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                           • \newmthoparsty{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                           \bullet \ \texttt{\ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \
                                                                                          • \newmthoparsty*{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                            \bullet \verb| \newmthoparsty*{mathrm}[mathsf]{Name}[sub][sup][Par^{Ex^{Ex}}]] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                                                            \bullet \verb| \newmthoparsty*{mathrm}[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                                               460 \newcommand{\newmthoparsty}
                                                                                                  {\@ifstar{\@snewmthoparsty}{\@newmthoparsty}}
                                                                               462 \newcommandx{\@newmthoparsty}[2][2=]
                                                                                                     {\newmthopar[\defval{#2}{#1}]}
                                                                               464 \newcommandx{\@snewmthoparsty}[2][2=]
                                                                                                       {\newmthopar*[\defval{#2}{#1}]}
                  \mthsubsup ... to do!
                                                                               466 \newcommand{\mthsubsup}[2]
                                                                                                      {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                                                               \mth ... to do!
                                                                                          • \mathbb{Sup}[Sup][Ext] = "Name^{sup}_{sub}Ext"
                                                                                           • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                                           • \mathcal{E}_{sub}[Sub][Sup][Ext] = \mathcal{E}_{sub}[Sub][Sup][Ext]
                                                                                           • \mth*{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                           • \mathfrak{m}th*[\mathtt{mathtt}]{\mathtt{Name}}[\mathtt{sub}][\mathtt{sup}][\mathtt{Ext}] = \mathtt{Name}^{sup}_{sub}Ext
                                                                               469 \newcommand{\mth}
                                                                                               {\@ifstar{\newmthsty*{\mthsty}}{\newmthsty{\mthsty}}}
                                 \mtharg ... to do!
```

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

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

```
• \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                       \mbox{\tt Name} [	ext{\tt Sub}] [	ext{\tt Sup}] [	ext{\tt Ext}] = \mbox{\tt Name}_{sub}^{sup} Ext
                                                                                                                                       \mbox{\tt mthNewCmd*{\tt Name}[sub][sup][Ext]} = \mbox{\tt Name}_{sub}^{sup}Ext
                                                                                                     482 \mbox{newcommand{\cmdmth}[1]}
                                                                                                                               {\csdef{mth#1}%
                                                                                                                                                            {\@ifstar{\newmthsty*{mthsty#1}}}{\newmthsty{mthsty#1}}}}
                                                                                                     484
     \cmdmtharg ... to do!
                                                                                                                       • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                     \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = |\mathargNewCmd{Name}[sub][sup][ext1][ext1][ext2] = |\mathargNewCmd{Name}[sub][sup][ext1][ext2][ext2] = |\mathargNewCmd{Name}[sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                                                                                                                    \verb| That is a constant of the constant of the
                                                                                                      485 \newcommand{\cmdmtharg}[1]
                                                                                                                                           {\csdef{mtharg#1}%
                                                                                                                                                            {\@ifstar{\newmthargsty*{mthsty#1}}}{\newmthargsty{mthsty#1}}}
                                                                                                     487
\cmdmthoarg ... to do!
                                                                                                                       • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                    488 \newcommand{\cmdmthoarg}[1]
                                                                                                                                       {\csdef{mthoarg#1}%
                                                                                                     490
                                                                                                                                                            {\@ifstar{\newmthoargsty*{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
     \cmdmthpar ... to do!
                                                                                                                       • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                    \verb| \mathbf{Name} [\mathbf{Sub}] [\mathbf{Sup}] [\mathbf{Ext1}] \{ \mathbf{Par}^{\{\mathbf{Ex}^{\}}\}} [\mathbf{Ext2}] = \mathbf{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathbf{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathbf{Name}_{sub}^{sup} Ext1 \Big[ \mathbf{Par}^{(\mathbf{Ex}^{+})} (\mathbf{Par}^{(\mathbf{Ex}^{+})}) ] = \mathbf{Name}_{sub}^{sub} Ext1 \Big[ \mathbf{Par}^{
                                                                                                                                    \verb| mthparNewCmd*{Name}[sub][sup][Ext1]{Par^{Ex^{-}}{Ex}}] Ext2] = \verb| Name| sub| Ext1[Par^{Ex^{-}}] Ext2
                                                                                                     491 \newcommand{\cmdmthpar}[1]
                                                                                                                                    {\csdef{mthpar#1}%
                                                                                                                                                            {\tt \{\c ifstar{\new mthparsty*\{mthsty\#1\}}} {\tt \{\new mthparsty\{mthsty\#1\}\}}}
                                                                                                     493
\c to do!
                                                                                                                        • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                    494 \newcommand{\cmdmthopar}[1]
                                                                                                                                         {\csdef{mthopar#1}%
                                                                                                                                                            {\@ifstar{\newmthoparsty*{mthsty#1}}}\newmthoparsty{mthsty#1}}}
                                                                                                     496
     \cmdmthall ... to do!
                                                                                                                        • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                       \verb|\mbox| \verb| Sub| [sup] [Ext] = \verb|\mbox| \verb| Same | sub| |
                                                                                                                                    \mathsf{N} = 
                                                                                                                                    \verb| mthparNewCmd{Name}[sub][sup][Ext1]{Par^{Ex^{}}}[Ext2] = \verb| Name|^{sup}_{sub}Ext1 \Big| Par^{Ex^{Ex}} \Big| Ext2 \Big| Ext2 \Big| = ext2 \Big| Ex
                                                                                                                                    497 \newcommand{\cmdmthall}[1]
                                                                                                                                          {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
```

```
\usrmth ... to do!
                                                                                           • \usrmth{cmdName}{Suf}{};
                                                                                                   \column{4}{c} 
                                                                                                    \column{4}{c} {\tt mdNameSuf*} = cmdName
                                                                                                    \usrmth{cmdName}{Suf}{arg};
                                                                                                   \label{eq:cmdName} $$ \operatorname{Arg}^{Ex^{Ex}}$ = cmdName \Big(Arg^{Ex^{Ex}}\Big) $$
                                                                                                   \verb|\cmdNameSuf*{Arg^{Ex^{Ex}}}| = cmdName(Arg^{Ex^{Ex}})|
                                                                                                   \usrmth{cmdName}{Suf}{par};
                                                                                                   \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = cmdName \Big[ Par^{Ex^{Ex}} \Big]
                                                                                                   \verb|\cmdNameSuf*{Par^{Ex^{Ex}}}| = cmdName[Par^{Ex^{Ex}}]|
                                                                                            \usrmth{cmdName}{Suf}{} [newName];
                                                                                                    \colonerge{cmdNameSuf} = newName
                                                                                                    \c NameSuf* = newName
                                                                                                   \usrmth{cmdName}{Suf}{arg}[newName];
                                                                                                   \label{eq:cmdName} $$ \operatorname{Lex}{ = newName(Arg^{Ex^{Ex}}) } = newName(Arg^{Ex^{Ex}}) $$
                                                                                                   \verb|\cmdNameSuf*{Arg^{Ex^{Ex}}}| = newName(Arg^{Ex^{Ex}})|
                                                                                                   \usrmth{cmdName}{Suf}{par}[newName];
                                                                                                   \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = newName \Big[ Par^{Ex^{Ex}} \Big]
                                                                                                   \verb|\cmdNameSuf*{Par^{Ex^{Ex}}}| = newName[Par^{Ex^{Ex}}]|
                                                                               500 \newcommandx{\usrmth}[4][4=]
                                                                                                      {\csdef{#1#2}{\%}}
                                                                               502
                                                                                                                  \@ifstar%
                                                                                                                            {\csname mth#3\endcsname*{\defval{#4}{#1}}}%
                                                                              503
                                                                                                                            {\c mth #3\end sname {\defval {#4}{#1}}}}
                                                                              504
                                                                              \usrmthlatlow ... to do!
                                                                              506 \newcommandx{\usrmthlatlow}[4][4=]
                                                                                                    {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
                                                                              508 \newcommandx{\usrmthlatupp}[4][4=]
                                                                                                   {\ \{\ x\} = \{
\usrmthlatlet ... to do!
                                                                              510 \newcommandx{\usrmthlatlet}[4][4=]
                                                                             511 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
\usrmthgrklow ... to do!
                                                                               512 \newcommandx{\usrmthgrklow}[4][4=]
                                                                                               {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                                                              514 \newcommandx{\usrmthgrkupp}[4][4=]
                                                                                                 {\ \{\ x\} = \{
\usrmthgrklet ... to do!
                                                                              516 \newcommandx{\usrmthgrklet}[4][4=]
                                                                                                   {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
               \usrmthlow ... to do!
                                                                             518 \newcommandx{\usrmthlow}[4][4=]
                                                                                                      \usrmthupp ... to do!
                                                                             520 \verb| newcommandx{\usrmthupp}[4][4=]
                                                                                                 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
```

```
\usrmthlet ... to do!
                                522 \newcommandx{\usrmthlet}[4][4=]
                                523 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
                                528 \iftxtgen@
   \txtdef, ... to do!
                                     ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                     ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                      \qquad \qquad \texttt{(Sub) [sup] [Ext1] \{Par\} [Ext2]} = Name_{sub}^{sup} Ext1[Par] Ext2 
                                 529 %% Style for Definitions
                                \cmdtxtdef ... to do!
                                     • \cmdtxtdef{cmdName};
                                        \colon colon col
                                     • \cmdtxtdef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
                                 531 \newcommandx{\cmdtxtdef}[2][2=]
                                532 {\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
                                533 \newcommandx{\cmdtxtargdef}[2][2=]
                                534 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                     \cmdtxtoargdef{cmdName};
                                        \colon = cmdName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                     • \cmdtxtoargdef{cmdName}[newName];
                                        \colon = [sub][sub][arg] = newName_{sub}^{sub}(arg)
                                 535 \newcommandx{\cmdtxtoargdef}[2][2=]
                                536 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                                     • \cmdtxtpardef{cmdName};
                                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                     \cmdtxtpardef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1[par]ext2
                                 537 \newcommandx{\cmdtxtpardef}[2][2=]
                                        {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                     \cmdtxtopardef{cmdName};
                                        \cmdName[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                     \cmdtxtopardef{cmdName}[newName];
                                        \colon = newName[sub][sub][par] = newName_{sub}^{sub}[par]
                                539 \newcommandx{\cmdtxtopardef}[2][2=]
                                540 {\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_{\mathrm{sub}}^{\mathrm{sup}} Ext1(Arg) Ext2
                                         • \txtparabr{Name}[sub][sup][Ext1]\{Par\}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                    541 %% Style for Abbreviations
                                    542 \mbox{ \cmdtxtall{abr}\newcommand{\txtstyabr}{\cm}}
        \cmdtxtabr ... to do!
                                         • \cmdtxtabr{cmdName};
                                             \colon colon col
                                         • \cmdtxtabr{cmdName}[newName];
                                             \verb|\cmdName[sub][sub][ext]| = newName_{\rm sub}^{\rm sub}ext
                                    543 \newcommandx{\cmdtxtabr}[2][2=]
                                    544 {\usrtxt{#1}{}{abr}[#2]}
  \cmdtxtargabr ... to do!
                                         • \cmdtxtargabr{cmdName};
                                             \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                         • \cmdtxtargabr{cmdName} [newName];
                                             \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{\text{sub}}^{\text{sub}}ext1(arg)ext2
                                    545 \mbox{\cmdtxtargabr}[2][2=]
                                   546 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                                         • \cmdtxtoargabr{cmdName};
                                             \colon dName[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                                         \cmdtxtoargabr{cmdName} [newName];
                                             \cmdName[sub][sub] [arg] = newName_{sub}^{sub}(arg)
                                    547 \newcommandx{\cmdtxtoargabr}[2][2=]
                                   548 {\usrtxt{#1}{}{oargabr}[#2]}
  \cmdtxtparabr ... to do!
                                         \cmdtxtparabr{cmdName};
                                             \cmdName[sub][sub][ext1][par][ext2] = cmdName[sub]ext1[par]ext2
                                         • \cmdtxtparabr{cmdName}[newName];
                                             \colon dName[sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1/par/ext2
                                    549 \newcommandx{\cmdtxtparabr}[2][2=]
                                    550 {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                                         • \cmdtxtoparabr{cmdName};
                                             \cmdName[sub][sub][par] = cmdName_{sub}^{sub}/par
                                         • \cmdtxtoparabr{cmdName}[newName];
                                             \cmdName[sub][sub][par] = newName_{sub}^{sub}/par
                                    551 \newcommandx{\cmdtxtoparabr}[2][2=]
                                    552 {\usrtxt{#1}{}{oparabr}[#2]}
                                   \txtname, ... to do!
                                         • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}^{\text{SUP}}_{\text{SUB}}Ext
                                         • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{SUB}^{SUP}Ext1(Arg)Ext2
                                          \qquad \qquad \text{$$ \text{txtparname}[Sub][sub][Ext1]$ [Par][Ext2] = NAME_{SUB}^{SUP}EXT1[PAR]EXT2$ } 
                                    554 %% Style for Names
                                    555 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
      \cmdtxtname ... to do!
```

```
\cmdtxtname{cmdName};
                                               \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                            \cmdtxtname{cmdName}[newName];
                                               556 \newcommandx{\cmdtxtname}[2][2=]
                                      557 {\usrtxt{#1}{}{name}[#2]}
  \cmdtxtargname ... to do!
                                           \cmdtxtargname{cmdName};
                                               \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                            • \cmdtxtargname{cmdName}[newName];
                                               558 \newcommandx{\cmdtxtargname}[2][2=]
                                               {\usrtxt{#1}{}{argname}[#2]}
                                   ... to do!
\cmdtxtoargname
                                            • \cmdtxtoargname{cmdName};
                                                \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                            • \cmdtxtoargname{cmdName}[newName];
                                               \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                      560 \newcommandx{\cmdtxtoargname}[2][2=]
                                               {\usrtxt{#1}{}{oargname}[#2]}
  \cmdtxtparname ... to do!
                                           \cmdtxtparname{cmdName};
                                               \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                                            • \cmdtxtparname{cmdName}[newName];
                                               \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub][sub][ext1][PAR] = NEWNAME_{SUB}^{SUB} = NEWNAME_{SUB}^{SUB}^{SUB} = NEWNAME_{SUB}^{SUB} = NEWNAME_{SUB}^{SUB} = NEWNAME_{SUB}^{SUB} = NEWNAME_{SUB}^{SUB} = NEWNAME_{SUB}^{SUB} = NEWNAM
                                      562 \newcommandx{\cmdtxtparname}[2][2=]
                                               {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                            \cmdtxtoparname{cmdName};
                                               \label{eq:cmdName} $$ \operatorname{[sub][par]} = \operatorname{CMDNAME}^{\operatorname{SUB}}_{\operatorname{SUB}}[\operatorname{PAR}] $$
                                            • \cmdtxtoparname{cmdName}[newName];
                                               \cmdName[sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                      564 \mbox{ } (2] [2=]
                                      565 {\usrtxt{#1}{}{oparname}[#2]}
      \txtcom, ... to do!
                                           • \text{txtcom{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{Name}_{\text{SUB}}^{\text{SUP}} \text{Ext}
                                           • \text{txtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2]} = \text{Name}_{\text{Sub}}^{\text{SUP}} \text{Ext1}(\text{Arg}) \text{Ext2}
                                           • \txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_SUB_EXT1[PAR]EXT2
                                      566 %% Style for Complexities
                                      567 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mbox{mdseries}\cshape\rmfamily}
           \cmdtxtcom ... to do!
                                           \cmdtxtcom{cmdName};
                                               \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{SUB}_{SUB} \texttt{EXT}
                                            • \cmdtxtcom{cmdName}[newName];
                                               568 \newcommandx{\cmdtxtcom}[2][2=]
                                      569 {\usrtxt{#1}{}{com}[#2]}
    \cmdtxtargcom ... to do!
                                            \cmdtxtargcom{cmdName};
                                               \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
```

```
\cmdtxtargcom{cmdName}[newName];
                                            \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1](ARG)EXT2|
                                   570 \newcommandx{\cmdtxtargcom}[2][2=]
                                            {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                        \cmdtxtoargcom{cmdName};
                                            \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                                        • \cmdtxtoargcom{cmdName}[newName];
                                            \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                   572 \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];
                                            \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\newName[sub][sub][ext1]{par}[ext2]
                                   574 \newcommandx{\cmdtxtparcom}[2][2=]
                                   575 {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                        \cmdtxtoparcom{cmdName};
                                            \colon = CMDNAME_{SUB}^{SUB}[PAR]
                                         \cmdtxtoparcom{cmdName}[newName];
                                            \cmdName[sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                   576 \newcommandx{\cmdtxtoparcom}[2][2=]
                                           {\usrtxt{#1}{}{oparcom}[#2]}
                                   578 \fi
                                   583 \ifmthgen@
  \mthname, ... to do!
                                        ullet \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                                        • \mthargname*{NAME}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                         \bullet \ \texttt{\normalfont{MME}[sub][sub][Ext1][Par^{Ex^{*}}]} \ [\texttt{Ext2}] \ = \ \mathcal{NAME}^{sup}_{sub} Ext1 \ \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_
                                         584 %% Style for Names
                                   585 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
      \AName, ...
                                 \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}
                                   586 \seqoflatupp{Name}{mthname}
      \cmdmthname ... to do!
                                        • \cmdmthname{CMDNAME};
                                            \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                         • \cmdmthname{cmdName}[NEWNAME];
                                            \cmdNameName[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                   587 \newcommandx{\cmdmthname}[2][2=]
                                   588 {\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
                                       589 \newcommandx{\cmdmthargname}[2][2=]
                                                {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                                            • \cmdmthoargname{CMDNAME};
                                                \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                             • \cmdmthoargname{cmdName}[NEWNAME];
                                                \cmdNameName[sub][sub][arg] = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                       591 \newcommandx{\cmdmthoargname}[2][2=]
                                                {\usrmth{#1}{Name}{oargname}[#2]}
  \cmdmthparname ... to do!
                                             \cmdmthparname{CMDNAME};
                                                \verb|\CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                             • \cmdmthparname{cmdName}[NEWNAME];
                                                 \verb|\cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                                       593 \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];
                                                \cmdNameName[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                       595 \mbox{ } \mbox{cmdmthoparname} \mbox{ } \m
                                                {\usrmth{#1}{Name}{oparname}[#2]}
      \mthfam, ... to do!
                                            • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N}\mathcal{AME}^{sup}_{sub}Ext
                                            • \mthargfam{NAME} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2
                                             • \mthparfam{NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}^{sup}_{sub}Ext1 \Big[Par^{Ex^{Ex}}\Big]Ext2
                                             597 %% Style for Families
                                       598 \cmdmthall{fam}\newcommand{\mthstyfam}{\mathscr}
                                     \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}
                                       599 \seqoflatupp{Fam}{mthfam}
           \cmdmthfam ... to do!
                                             \cmdmthfam{CMDNAME};
                                                 \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub]
                                             • \cmdmthfam{cmdName}[NEWNAME]:
                                                 \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                       600 \newcommandx{\cmdmthfam}[2][2=]
                                                {\usrmth{#1}{Fam}{fam}[#2]}
    \cmdmthargfam ... to do!
```

```
\cmdmthargfam{CMDNAME};
                        • \cmdmthargfam{cmdName}[NEWNAME];
                        \label{lem:cmdNameFam} $$ \operatorname{[sub][sub][ext1]} = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg)ext2 $$
                   602 \newcommandx{\cmdmthargfam}[2][2=]
                   603 {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                      \cmdmthoargfam{CMDNAME};
                        • \cmdmthoargfam{cmdFam}[NEWNAME];
                        \verb|\cmdFamFam[sub][sub][arg]| = \mathscr{NEWNAME}^{sub}_{sub}(arg)
                   604 \newcommandx{\cmdmthoargfam}[2][2=]
                   605 {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                      • \cmdmthparfam{CMDNAME};
                        \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEF}am[sub][sub][ext1][par]ext2
                      • \cmdmthparfam{cmdName}[NEWNAME];
                        \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNMME}^{sub}_{sub}ext1[par]ext2
                   606 \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];
                        \verb|\cmdFamFam[sub][sub][par]| = \mathcal{NEWNAME}_{sub}^{sub}[par]|
                   608 \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^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                      • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      • \mthparcls*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                   610 %% Style for Classes
                   611 \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}
                   612 \seqoflatupp{Cls}{mthcls}
    \cmdmthcls ... to do!
                      \cmdmthcls{CMDNAME};
                        \CMDNAMECls[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                      • \cmdmthcls{cmdName}[NEWNAME];
                        \verb|\cmdNameCls[sub][sub][ext]| = NEWNAME_{sub}^{sub}ext
                   613 \newcommandx{\cmdmthcls}[2][2=]
                   614 {\usrmth{#1}{Cls}{cls}[#2]}
 \cmdmthargcls ... to do!
                      \cmdmthargcls{CMDNAME};
                        \verb|\CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1(arg)ext2
```

```
• \cmdmthargcls{cmdName}[NEWNAME];
                                                                                       \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = NEWNAME_{sub}^{sub}ext1(arg)ext2
                                                                     615 \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];
                                                                                      \cmdClsCls[sub][sub] [arg] = NEWNAME_{sub}^{sub}(arg)
                                                                     617 \newcommandx{\cmdmthoargcls}[2][2=]
                                                                     618 {\usrmth{#1}{Cls}{oargcls}[#2]}
   \cmdmthparcls ... to do!
                                                                               • \cmdmthparcls{CMDNAME};
                                                                                      \CMDNAMECls[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                                                               • \cmdmthparcls{cmdName}[NEWNAME];
                                                                                      \cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2
                                                                      619 \newcommandx{\cmdmthparcls}[2][2=]
                                                                     620 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                               • \cmdmthoparcls{CMDNAME};
                                                                                      \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                               • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                                      \cmdClsCls[sub] [sub] [par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                                                     621 \newcommandx{\cmdmthoparcls}[2][2=]
                                                                    622 {\usrmth{#1}{Cls}{oparcls}[#2]}
       \mthsig, ... to do!
                                                                               • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}ame_{sub}^{sup}Ext
                                                                               • \mthargsig{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                               • \mthargsig*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = \Re e^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                               \bullet \  \  \, \texttt{ \mthparsig}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \\ = \mathcal{N} ame_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] \\ = \mathcal{N} ame_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big
                                                                               \bullet \  \  \, \texttt{\bare} = \texttt{\bare} =
                                                                      623 %% Style for Signatures
                                                                     624 \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},~\mathcal{Q},~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~\mathcal{X},~\mathcal{Y},~\mathcal{Z}
                                                                  \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                     625 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
                \cmdmthsig ... to do!
                                                                               • \cmdmthsig{cmdName};
                                                                                      \colon dNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                               • \cmdmthsig{cmdName}[NewName];
                                                                                      \verb|\cmdNameSig[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                                                     626 \newcommandx{\cmdmthsig}[2][2=]
                                                                    627 {\usrmth{#1}{Sig}{sig}[#2]}
   \cmdmthargsig ... to do!
                                                                               • \cmdmthargsig{cmdName};
                                                                                      \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargsig{cmdName}[NewName];
                                                                               \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{NewName}_{sub}^{sub}ext1(arg)ext2
                                                               628 \newcommandx{\cmdmthargsig}[2][2=]
                                                                               {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                         \cmdmthoargsig{cmdName};
                                                                               \colon = cmdNameSig[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                         • \cmdmthoargsig{cmdSig}[NewName];
                                                                               \colored SigSig[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                               630 \newcommandx{\cmdmthoargsig}[2][2=]
                                                                              {\usrmth{#1}{Sig}{oargsig}[#2]}
   \cmdmthparsig ... to do!
                                                                        • \cmdmthparsig{cmdName};
                                                                               \label{lem:cmdNameSig} $$ \operatorname{[sub][sub][ext1][par][ext2]} = cmd \operatorname{Name}_{sub}^{sub} ext1[par] ext2 $$
                                                                         • \cmdmthparsig{cmdName}[NewName];
                                                                               \cmdNameSig[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                632 \newcommandx{\cmdmthparsig}[2][2=]
                                                               633 {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                        • \cmdmthoparsig{cmdName};
                                                                               \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                         • \cmdmthoparsig{cmdSig}[NewName];
                                                                               \colored{cmdSigSig[sub][sub][par]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}[par]
                                                               634 \newcommandx{\cmdmthoparsig}[2][2=]
                                                               635 {\usrmth{#1}{Sig}{oparsig}[#2]}
       \mthstr, ... to do!
                                                                        • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup} Ext
                                                                        • \mthargstr{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2
                                                                         • \mthargstr*{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                        \bullet \  \  \, \texttt{ \mthparstr{Name}[sub][sup][Ext1]{Par^{Ex^{}}}} [Ext2] = \mathfrak{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \mathfrak{Name}^{sup}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{sub}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{s
                                                                        \bullet \  \  \, \texttt{\bare}[sub][sup][Ext1] \{ Par^{Ex^{-}}[Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2 = \mathfrak{Name}_{sub}^{sup} Ext2[Par^{Ex^{Ex}}] Ext
                                                                636 %% Style for Structures
                                                               637 \cmdmthall{str}\newcommand{\mthstystr}{\mathfrak}
               \aStr, ... to do!
                                                            a, b, c, d, e, f, g, h, i, j, f, l, m, n, o, p, q, r, s, f, u, v, w, r, h, g
                                                            \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{V},\,\mathfrak{W},\,\mathfrak{X},\,\mathfrak{Y},\,\mathfrak{J}
                                                            \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
                                                               638 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
               \cmdmthstr ... to do!
                                                                        • \cmdmthstr{cmdName};
                                                                               \cmdNameStr[sub][sub][ext] = cmdMamesubext
                                                                         • \cmdmthstr{cmdName}[NewName];
                                                                               \colon d NameStr[sub][sub][ext] = \mathfrak{NewName}_{sub}^{sub}ext
                                                               639 \newcommandx{\cmdmthstr}[2][2=]
                                                              640 {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                                        • \cmdmthargstr{cmdName};
                                                                               \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdMames|^{sub}_{sub}ext1(arg)ext2
```

```
• \cmdmthargstr{cmdName} [NewName];
                                                                                           \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                                        641 \newcommandx{\cmdmthargstr}[2][2=]
                                                                                          {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                                  • \cmdmthoargstr{cmdName};
                                                                                          \verb|\cmdNameStr[sub][sub][arg]| = cmd \mathfrak{Name}_{sub}^{sub}(arg)
                                                                                  • \cmdmthoargstr{cmdStr}[NewName];
                                                                                          \colon dStrStr[sub][sub][arg] = \mathfrak{NewName}^{sub}_{sub}(arg)
                                                                        643 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                        644 {\usrmth{#1}{Str}{oargstr}[#2]}
    \cmdmthparstr ... to do!
                                                                                  • \cmdmthparstr{cmdName};
                                                                                          \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                                   • \cmdmthparstr{cmdName} [NewName];
                                                                                          \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                                        645 \newcommandx{\cmdmthparstr}[2][2=]
                                                                        646 {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                                  • \cmdmthoparstr{cmdName};
                                                                                          \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                                                                                   • \cmdmthoparstr{cmdStr}[NewName];
                                                                                          647 \newcommandx{\cmdmthoparstr}[2][2=]
                                                                                         {\usrmth{#1}{Str}{oparstr}[#2]}
        \mthset, ... to do!
                                                                                  • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                  • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                   \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt
                                                                                  \bullet \  \, \texttt{\name} \  \, \texttt{\name
                                                                                   \bullet \  \  \, \texttt{ Name } \texttt{[sub] [sup] [Ext1] } \{\texttt{Par^{Ex^{Ex}}}\} \texttt{[Ext2]} = \texttt{Name}^{sup}_{sub} Ext1 [Par^{Ex^{Ex}}] Ext2
                                                                        649 %% Style for Sets
                                                                       650 \cmdmthall{set}\newcommand{\mthstyset}{\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, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                       651 \seqoflet{Set}{mthset}
                 \cmdmthset ... to do!
                                                                                   \cmdmthset{cmdName};
                                                                                          \colon colon cond Name Set [sub] [sub] [ext] = cmd Name <math>_{sub}^{sub} ext
                                                                                   • \cmdmthset{cmdName}[NewName];
                                                                                          \cmdNameSet[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                        652 \newcommandx{\cmdmthset}[2][2=]
                                                                       653 {\usrmth{#1}{Set}{set}[#2]}
    \cmdmthargset ... to do!
                                                                                   \cmdmthargset{cmdName};
                                                                                          \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargset{cmdName}[NewName];
                                               \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                     654 \newcommandx{\cmdmthargset}[2][2=]
                                               {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                                           \cmdmthoargset{cmdName};
                                               \verb|\cmdNameSet[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargset{cmdSet}[NewName];
                                               \colon = NewName_{sub}^{sub}(arg)
                                     656 \newcommandx{\cmdmthoargset}[2][2=]
                                               {\usrmth{#1}{Set}{oargset}[#2]}
  \cmdmthparset ... to do!
                                           \cmdmthparset{cmdName};
                                               \label{lem:lemma:emdName} $$\operatorname{sub}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2$
                                           • \cmdmthparset{cmdName}[NewName];
                                               \colored Name Set [sub] [sub] [ext1] {par} [ext2] = New Name _{sub}^{sub} ext1 [par] ext2
                                      658 \newcommandx{\cmdmthparset}[2][2=]
                                              {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                                           • \cmdmthoparset{cmdName};
                                               \colon dNameSet[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                           • \cmdmthoparset{cmdSet}[NewName];
                                               \verb|\cmdSetSet[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                      660 \newcommandx{\cmdmthoparset}[2][2=]
                                             {\usrmth{#1}{Set}{oparset}[#2]}
  \cmdmthsetext ... to do!
                                     662 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                     663 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                              \usrmthlet{\thestring}{Sym}{sym}
                                                      [\defval{#3}{\defval{\empchk{#2}}{\lowercase{\#2}}}{\thestring}}]\%
                                      665
                                     666
                                                \usrmthlet{\thestring}{Elm}{elm}
                                     667
                                                      [\defval{#3}{\defval{\empchk{#2}}{\lowercase{\#2}}}{\thestring}}]
    \mthrel, ... to do!
                                           • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                           • \mthargrel{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                           • \mthargrel*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                           • \mthparrel{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                           \bullet \  \  \, \texttt{\bare} = Name_{sub}^{sup}[\texttt{Ext1}] \\ \{\texttt{Par}^{\texttt{\ex}}(\texttt{Ex})\}\}[\texttt{Ext2}] \\ = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{E
                                      668 %% Style for Relations
                                     669 \mbox{ \cmdmthall{rel}\newcommand{\mbox{\mbox{\cmthstyrel}}{\mbox{\cmdmthit}}}
        \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,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                     670 \seqoflet{Rel}{mthrel}
        \cmdmthrel ... to do!
                                           • \cmdmthrel{cmdName};
                                               \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
```

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• \cmdmthrel{cmdName}[NewName];
                                                                                                              \colon dNameRel[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                                        671 \newcommandx{\cmdmthrel}[2][2=]
                                                                                                            {\usrmth{#1}{Rel}{rel}[#2]}
     \cmdmthargrel ... to do!
                                                                                                    • \cmdmthargrel{cmdName};
                                                                                                             \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
                                                                                        673 \newcommandx{\cmdmthargrel}[2][2=]
                                                                                        674 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                                                                                    • \cmdmthoargrel{cmdName};
                                                                                                             \cmdNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                                     • \cmdmthoargrel{cmdRel}[NewName];
                                                                                                             \colone{line} 
                                                                                        675 \newcommandx{\cmdmthoargrel}[2][2=]
                                                                                        676 {\usrmth{#1}{Rel}{oargrel}[#2]}
     \cmdmthparrel ... to do!
                                                                                                    • \cmdmthparrel{cmdName};
                                                                                                             \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|
                                                                                        677 \newcommandx{\cmdmthparrel}[2][2=]
                                                                                                             {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                                                                                    • \cmdmthoparrel{cmdName};
                                                                                                             \cmdNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                                     • \cmdmthoparrel{cmdRel}[NewName];
                                                                                                             \colone{local} \col
                                                                                        679 \newcommandx{\cmdmthoparrel}[2][2=]
                                                                                                             {\usrmth{#1}{Rel}{oparrel}[#2]}
          \mthfun, ... to do!
                                                                                                    • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                                                                                     • \mthargfun{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                     • \mthargfun*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                    \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}
                                                                                                     • \mthparfun*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                        681 %% Style for Functions
                                                                                       682 \mbox{ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\box{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbo
                    \aFun, ... 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, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                                        683 \seqoflet{Fun}{mthfun}
                    \cmdmthfun ... to do!
                                                                                                     \cmdmthfun{cmdName};
                                                                                                             \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
```

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• \cmdmthfun{cmdName} [NewName];
                         \cmdNameFun[sub][sub][ext] = NewName_{sub}^{sub}ext
                    684 \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
                    686 \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)
                    688 \newcommandx{\cmdmthoargfun}[2][2=]
                         {\usrmth{#1}{Fun}{oargfun}[#2]}
 \cmdmthparfun ... to do!
                       • \cmdmthparfun{cmdName};
                         \cmdNameFun[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                       • \cmdmthparfun{cmdName}[NewName];
                         690 \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];
                         \cmb{cmdFunFun[sub][sub][par]} = NewName_{sub}^{sub}[par]
                    692 \newcommandx{\cmdmthoparfun}[2][2=]
                         {\usrmth{#1}{Fun}{oparfun}[#2]}
  \mthsym, ... to do!
                       • \mathbb{E}_{sub}[Sub][Sup][Ext] = \mathbb{E}_{sub}Ext
                       • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                       \bullet \  \, \texttt{\bar{Ext1}[Ext1]} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\}\\ \texttt{\bar{Ext2}} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\\ \texttt{\bar{Ext2}} = \mathtt{\bar{Ext2}}
                       • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                    694 %% Style for Symbols
                    695 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}
    \asym, ... 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
                    696 \seqoflet{Sym}{mthsym}
    \cmdmthsym ... to do!
                       \cmdmthsym{cmdName};
                         \cmdNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
```

```
• \cmdmthsym{cmdName}[NewName];
                                                                                           \colon colon col
                                                                        697 \newcommandx{\cmdmthsym}[2][2=]
                                                                                          {\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];
                                                                                           \c MameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                         699 \newcommandx{\cmdmthargsym}[2][2=]
                                                                                          {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                                  • \cmdmthoargsym{cmdName};
                                                                                          • \cmdmthoargsym{cmdSym}[NewName];
                                                                                          \colon 
                                                                         701 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                                        {\usrmth{#1}{Sym}{oargsym}[#2]}
    \cmdmthparsym ... to do!
                                                                                  \cmdmthparsym{cmdName};
                                                                                          \cmdNameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                   • \cmdmthparsym{cmdName}[NewName];
                                                                                          \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                                         703 \newcommandx{\cmdmthparsym}[2][2=]
                                                                                           {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                                  • \cmdmthoparsym{cmdName};
                                                                                          • \cmdmthoparsym{cmdSym}[NewName];
                                                                                          \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                         705 \newcommandx{\cmdmthoparsym}[2][2=]
                                                                                          {\usrmth{#1}{Sym}{oparsym}[#2]}
        \mthelm, ... to do!
                                                                                  • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                   • \mthargelm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                                                   • \mthargelm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{-}Ex})Ext2
                                                                                  \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]} \  \, [\texttt{Ext2}] = Name_{sub}^{sup} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub}^{sub} Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext2 \  \, [\texttt{Ex
                                                                                   • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                         707 %% Style for Elements
                                                                        708 \cmdmthall{elm}\newcommand{\mthstyelm}{\mathnormal}
                 \aElm, ... 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
                                                                        709 \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
                     710 \newcommandx{\cmdmthelm}[2][2=]
                          {\usrmth{#1}{Elm}{elm}[#2]}
   \cmdmthargelm ... to do!
                        \cmdmthargelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     712 \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];
                           \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                      714 \newcommandx{\cmdmthoargelm}[2][2=]
                     715 {\usrmth{#1}{Elm}{oargelm}[#2]}
   \cmdmthparelm ... to do!
                        • \cmdmthparelm{cmdName};
                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                        • \cmdmthparelm{cmdName}[NewName];
                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                     716 \newcommandx{\cmdmthparelm}[2][2=]
                          {\usrmth{#1}{Elm}{parelm}[#2]}
  \cmdmthoparelm ... to do!
                        • \cmdmthoparelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                        • \cmdmthoparelm{cmdElm}[NewName];
                           \cmdElmElm[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                      718 \newcommandx{\cmdmthoparelm}[2][2=]
                          {\usrmth{#1}{Elm}{oparelm}[#2]}
   \cmdmthsymelm ... to do!
                        • \cmdmthsymelm{cmdName};
                           \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                           \cmdNameElm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthsymelm{cmdName}[NewName];
                           \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub}ext|
                           \colonerge{cmdNameElm[sub][sub][ext]} = NewName^{sub}_{sub}ext
                      721 \newcommandx{\cmdmthsymelm}[2][2=]
                            {\cmdmthsym{#1}[#2]%
                     723
                           \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
```

```
724 \newcommandx{\cmdmthargsymelm}[2][2=]
                                                                               {\cmdmthargsym{#1}[#2]%
                                                               726
                                                                               \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                                                       \cmdmthoargsymelm{cmdName};
                                                                             \cmbox{\cmdNameSym[sub][sub][arg]} = cmdName_{sub}^{sub}(arg)
                                                                             \colonerge{cmdNameElm[sub][sub][arg]} = cmdName^{sub}_{sub}(arg)
                                                                       • \cmdmthoargsymelm{cmdName}[NewName];
                                                                            \colon = \
                                                                            \colon = NewName_{sub}^{sub}[arg] = NewName_{sub}^{sub}(arg)
                                                               727 \newcommandx{\cmdmthoargsymelm}[2][2=]
                                                                               {\cmdmthoargsym{#1}[#2]%
                                                                               \cmdmthoargelm{#1}[#2]}
  \cmdmthparsymelm ... to do!
                                                                      \cmdmthparsymelm{cmdName};
                                                                             \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                             \colone{local} \col
                                                                       • \cmdmthparsymelm{cmdName}[NewName];
                                                                             \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames|^{sub}_{sub}ext1[par]ext2
                                                                             \colonerge{cmdNameElm[sub][sub][ext1]{par}[ext2]} = NewName^{sub}_{sub}ext1[par]ext2
                                                               730 \newcommandx{\cmdmthparsymelm}[2][2=]
                                                                               {\cmdmthparsym{#1}[#2]%
                                                                               \cmdmthparelm{#1}[#2]}
                                                               732
\colone{thoparsymelm} ... to do!
                                                                      \cmdmthoparsymelm{cmdName};
                                                                             \cmbox{\cmdNameSym[sub][sub][par]} = cmdName_{sub}^{sub}[par]
                                                                             \colonerge{cmdNameSub[par]} = cmdName_{sub}^{sub[par]}
                                                                       • \cmdmthoparsymelm{cmdName}[NewName];
                                                                             \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                            \verb|\cmdNameElm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                               733 \newcommandx{\cmdmthoparsymelm}[2][2=]
                                                                              {\cmdmthoparsym{#1}[#2]%
                                                                               \cmdmthoparelm{#1}[#2]}
            \mthluop, ... to do!
                                                                       \bullet \ \texttt{\bary [sub] [sup] [Ext]} = \oplus_{sub}^{sup} Ext ]
                                                                       • \mthlbop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup}Ext
                                                               737 %% Style for \LaTex Operators
                                                               738 \cmdmth{luop}\newcommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                                               739 \mbox{mth{lbop}\newcommand{mthstylbop}[1]{\texttextstyle}mathbin{#1}}
   \cmdmthluop, ... to do!
                                                                      • \cmdmthluop{cmdName};
                                                                             \colone{cmdNameUOp[sub][sub][ext]} = cmdName^{sub}_{sub} ext
                                                                       • \cmdmthluop{cmdName}[\oplus];
                                                                             \colon = 0
                                                                       • \cmdmthlbop{cmdName};
                                                                            \colon dNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                       • \cmdmthlbop{cmdName}[\oplus];
                                                                            \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                                                               740 \newcommandx{\cmdmthluop}[2][2=]
                                                                              {\usrmth{#1}{UOp}{luop}[#2]}
                                                               742 \newcommandx{\cmdmthlbop}[2][2=]
                                                                             {\usrmth{#1}{BOp}{1bop}[#2]}
```

```
\mthlrel ... to do!
                                                                     • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                            744 %% Style for \LaTex Relations
                                                            745 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
           \cmdmthlrel ... to do!
                                                                     • \cmdmthlrel{cmdName};
                                                                            \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                     • \cmdmthlrel{cmdName}[\preceq];
                                                                            \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                                                             746 \newcommandx{\cmdmthlrel}[2][2=]
                                                             747 {\usrmth{#1}{Rel}{lrel}[#2]}
                                                            \mthsnt, ... to do!
                                                                     • \mthsnt{Name} [sub] [sup] [Ext] = Name_{sub}^{sup} Ext
                                                                     \bullet \  \  \, \texttt{Name}[sub][sup][Ext1] \{ \texttt{Arg} \  \  \, \texttt{Ex} \} \} [Ext2] = \mathsf{Name}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \Big) = \mathsf{Name}^{sup}_{sub} Ext2 \Big( Arg^{Ex^{Ex}} \Big) \Big( Arg^{Ex} \Big) \Big( Arg^{E
                                                                      • \mthargsnt*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                     \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{Ex}}]} \  \, [\texttt{Ext2}] = \  \, \texttt{\bar{Name}} \  \, Ext1 \  \, \Big[ Par^{Ex^{Ex}} \Big] \  \, Ext2 \
                                                                      • \mthparsnt*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Par^{Ex^{Ex}}
                                                             749 %% Style for Sentences
                                                            750 \mbox{\mbox{\mbox{$\sim$}}}\mbox{\mbox{\mbox{$\sim$}}}\
              \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,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                         \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\Delta,\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\Sigma,\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                                            751 \seqoflet{Snt}{mthsnt}
              \cmdmthsnt ... to do!
                                                                      \cmdmthsnt{cmdName};
                                                                            \cmdNameSnt[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                     • \cmdmthsnt{cmdName}[NewName];
                                                                            \colon = NewName sub [sub] [ext] = NewName sub ext
                                                            752 \newcommandx{\cmdmthsnt}[2][2=]
                                                            753 {\usrmth{#1}{Snt}{snt}[#2]}
   \cmdmthargsnt ... to do!
                                                                      \cmdmthargsnt{cmdName};
                                                                            \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                     • \cmdmthargsnt{cmdName}[NewName];
                                                                            \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                             754 \newcommandx{\cmdmthargsnt}[2][2=]
                                                            755 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                                                                      \cmdmthoargsnt{cmdName};
                                                                            \colon = cmdNameSnt[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                                                      • \cmdmthoargsnt{cmdName}[NewName];
                                                                            \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                            756 \mbox{newcommandx{\cmdmthoargsnt}[2][2=]}
                                                            757 {\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|
                                     758 \newcommandx{\cmdmthparsnt}[2][2=]
                                              {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                          • \cmdmthoparsnt{cmdName};
                                              \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdNameSnt[sub][par]|
                                           • \cmdmthoparsnt{cmdName}[NewName];
                                               \colon = NewNameSub[par] = NewName_{sub}^{sub}[par]
                                     760 \newcommandx{\cmdmthoparsnt}[2][2=]
                                              {\usrmth{#1}{Snt}{oparsnt}[#2]}
    \mthfrm, ... to do!
                                          \bullet \ \  \  \, \texttt{Name} \texttt{[sub][sup][Ext]} = Name_{sub}^{sup}Ext
                                           • \mthargfrm{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                           \bullet \  \, \texttt{\normalfrm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}{Ex}}}} \  \, [\texttt{Ext2}] = Name_{sub}^{sup} Ext1(Arg^{Ex^{-Ex}}) Ext2 = Name_{sub}^{sub} Ext1(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) E
                                           • \mthparfrm{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                           \bullet \  \  \, \texttt{\bare}[sub][sub][sup][Ext1][Par^{Ex^*}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                     762 %% Style for Formulae
                                     763 \cmdmthall{frm}\newcommand{\mthstyfrm}{\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,~\Upsilon,~\Phi,~\Phi,~X,~\Psi,~\Omega
                                     764 \seqoflet{Frm}{mthfrm}
        \cmdmthfrm ... to do!
                                          • \cmdmthfrm{cmdName};
                                              \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                           • \cmdmthfrm{cmdName}[NewName];
                                              \verb|\cmdNameFrm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                     765 \newcommandx{\cmdmthfrm}[2][2=]
                                              {\usrmth{#1}{Frm}{frm}[#2]}
  \cmdmthargfrm ... to do!
                                          • \cmdmthargfrm{cmdName};
                                              \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                           • \cmdmthargfrm{cmdName}[NewName];
                                              \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                     767 \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];
                                              \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                     769 \newcommandx{\cmdmthoargfrm}[2][2=]
                                     770 {\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];
                        771 \newcommandx{\cmdmthparfrm}[2][2=]
                   772 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                      • \cmdmthoparfrm{cmdName};
                        \verb|\cmdNameFrm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                      • \cmdmthoparfrm{cmdName}[NewName];
                        \colon dNameFrm[sub][sub][par] = NewName^{sub}_{sub}[par]
                   773 \newcommandx{\cmdmthoparfrm}[2][2=]
                       {\usrmth{#1}{Frm}{oparfrm}[#2]}
                   \mthmat, ... to do!
                      • \mthmat{Name}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                      • \mthargmat{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                      • \mthparmat{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      • \mthparmat*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                   776 %% Style for Matrices
                   777 \mbox{mthall{mat}\newcommand{\mathbf \{mthstymat}[1]{\boldsymbol{\mathbf \{\#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, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                   778 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                      • \cmdmthmat{cmdName};
                        \cmdNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                      • \cmdmthmat{cmdName}[NewName];
                        \cmbox{\cmdNameMat[sub][sub][ext]} = \mathbf{NewName}^{sub}_{sub}ext
                   779 \newcommandx{\cmdmthmat}[2][2=]
                        {\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];
                        \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                   781 \newcommandx{\cmdmthargmat}[2][2=]
                   782 {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                      • \cmdmthoargmat{cmdName};
                        \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      • \cmdmthoargmat{cmdName}[NewName];
                        \c New Name Mat[sub][sub][arg] = New Name <math>_{sub}^{sub}(arg)
                   783 \newcommandx{\cmdmthoargmat}[2][2=]
                   784 {\usrmth{#1}{Mat}{oargmat}[#2]}
```

```
\cmdmthparmat ... to do!
                                                               • \cmdmthparmat{cmdName};
                                                                     \cmdNameMat[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                               • \cmdmthparmat{cmdName}[NewName];
                                                                    \c NewName Sub [sub] [sub] [ext1] [par] [ext2] = NewName Sub ext1[par] ext2
                                                       785 \newcommandx{\cmdmthparmat}[2][2=]
                                                                    {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                                               • \cmdmthoparmat{cmdName};
                                                                    \cmdNameMat[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                               • \cmdmthoparmat{cmdName}[NewName];
                                                                    \verb|\cmdNameMat[sub][sub][par]| = \verb|NewName| sub| [par]|
                                                       787 \newcommandx{\cmdmthoparmat}[2][2=]
                                                                   {\usrmth{#1}{Mat}{oparmat}[#2]}
      \mthvec, ... to do!
                                                               ullet \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                               • \mthargvec{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               • \mthargvec*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               • \mthparvec{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                               \bullet \  \, \texttt{\colored}[sub][sub][Ext1] \{ Par^{\{Ex^{\{Ex\}}\}} [Ext2] = Name^{\sup}_{\sup} Ext1 [Par^{Ex^{Ex}}] Ext2 \} = Name^{\sup}_{\sup} Ext1 [Par^{Ex^{Ex}}] Ext2 \} = Name^{\sup}_{\sup} Ext1 [Par^{Ex^{Ex}}] Ext2 = Name^{\sup}_{\sup} Ext2 = 
                                                       789 %% Style for Vectors
                                                       790 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{#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
                                                       791 \seqoflet{Vec}{mthvec}
             \cmdmthvec ... to do!
                                                               • \cmdmthvec{cmdName};
                                                                    \colon colon col
                                                               • \cmdmthvec{cmdName} [NewName];
                                                                    \verb|\cmdNameVec[sub][sub][ext]| = NewName^{sub}_{sub}ext
                                                       792 \newcommandx{\cmdmthvec}[2][2=]
                                                       793 {\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
                                                       794 \newcommandx{\cmdmthargvec}[2][2=]
                                                       795 {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                                               • \cmdmthoargvec{cmdName};
                                                                    \verb|\cmdNameVec[sub][sub][arg]| = cmdName^{sub}_{sub}(arg)
                                                               • \cmdmthoargvec{cmdName}[NewName];
                                                                    \cmdNameVec[sub][sub] [arg] = NewName_{sub}^{sub}(arg)
                                                       796 \newcommandx{\cmdmthoargvec}[2][2=]
                                                       797 {\usrmth{#1}{Vec}{oargvec}[#2]}
```

```
\cmdmthparvec ... to do!
                • \cmdmthparvec{cmdName};
                  \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
              798 \newcommandx{\cmdmthparvec}[2][2=]
                 {\usrmth{#1}{Vec}{parvec}[#2]}
\c to do!
                \cmdmthoparvec{cmdName};
                  \verb|\cmdNameVec[sub][par]| = cmdName^{sub}_{sub}[par]|
                • \cmdmthoparvec{cmdName}[NewName];
                  \cmdNameVec[sub][sub][par] = NewName_{sub}^{sub}[par]
              800 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
              802\fi
              807 \iftxt@
              \adhoc
                • \adhoc = ad\ hoc
              809 \cmdtxtabr{adhoc}[ad hoc]
                • \arrange a fortiori
    \afortiori
              810 \cmdtxtabr{afortiori}[a fortiori]
                • \apriori = a priori
     \apriori
              811 \cmdtxtabr{apriori}[a priori]
  \aposteriori
                • \aposteriori = a posteriori
              812 \cmdtxtabr{aposteriori}[a posteriori]
                • \backslash cf = cf.
         \cf
              813 \cmdtxtabr{cf}[cf.]
                • \dedicto = de dicto
     \dedicto
              814 \cmdtxtabr{dedicto}[de dicto]
                • \defacto = de\ facto
     \defacto
              815 \cmdtxtabr{defacto}[de facto]
                • \forall ere = de re
        \dere
              816 \cmdtxtabr{dere}[de re]
\divideetimpera
                ullet \divideetimpera = divide\ et\ impera
              817 \cmdtxtabr{divideetimpera} [divide et impera]
                • \backslash eg = e.g.
         \eg
              818 \cmdtxtabr{eg}[e.g.]
                • \ergo = ergo
        \ergo
              819 \cmdtxtabr{ergo}
                • \errata = errata
      \errata
              820 \cmdtxtabr{errata}
```

```
\erratum
                        • \erratum = erratum
                     821 \cmdtxtabr{erratum}
                        • \ensuremath{\backslash} \mathtt{etal} = et \ al.
            \etal
                     822 \cmdtxtabr{etal}[et al.]
             \etc
                        • \ensuremath{\backslash} \mathsf{etc} = \mathit{etc}.
                     823 \cmdtxtabr{etc}[etc.]
              \ie
                        • \forallie = i.e.
                     824 \cmdtxtabr{ie}[i.e.]
                        \bullet \mutatismutandis = mutatis mutandis
\mutatismutandis
                     825 \cmdtxtabr{mutatismutandis} [mutatis mutandis]
                         \bullet \ \backslash \mathtt{percontra} = \mathit{per} \ \mathit{contra} \\
      \percontra
                     826 \cmdtxtabr{percontra}[per contra]
                        • \primafacie = prima facie
     \primafacie
                     827 \cmdtxtabr{primafacie}[prima facie]
                        \viceversa
                     828 \cmdtxtabr{viceversa}[vice versa]
              \vs
                        • \vert vs = vs.
                     829 \cmdtxtabr{vs}[vs.]
             \viz
                        • \viz = viz.
                     830 \cmdtxtabr{viz}[viz.]
                     \Afortiori
                        • \land Afortiori = A \ fortiori
                     832 \cmdtxtabr{Afortiori}[A fortiori]
                        • \Apriori = A \ priori
        \Apriori
                     833 \cmdtxtabr{Apriori}[A priori]
    \Aposteriori
                        • \Aposteriori = A posteriori
                     834 \cmdtxtabr{Aposteriori}[A posteriori]
        \Dedicto
                        835 \cmdtxtabr{Dedicto}[De dicto]
         \Defacto
                        • \ensuremath{\texttt{Defacto}} = De\ facto
                     836 \cmdtxtabr{Defacto}[De facto]
            \Dere
                        • \Dere = De re
                     837 \cmdtxtabr{Dere}[De re]
                         \bullet \ \ \verb+\Divideetimpera = Divide \ et \ impera
\Divideetimpera
                     838 \cmdtxtabr{Divideetimpera}[Divide et impera]
              \Eg
                        • \backslash Eg = E.g.
                     839 \cmdtxtabr{Eg}[E.g.]
          \Errata
                        • \ensuremath{\backslash} \texttt{Errata} = Errata
                     840 \cmdtxtabr{Errata}
```

```
\Erratum
                 • \Erratum = Erratum
               841 \cmdtxtabr{Erratum}
                 ullet \Mutatismutandis = Mutatis\ mutandis
\Mutatismutandis
               842 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
    \Percontra
                 • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
               843 \cmdtxtabr{Percontra} [Per contra]
    \Primafacie
                • \Primafacie = Prima facie
               844 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
                 • \forall iceversa = Vice \ versa
               845 \cmdtxtabr{Viceversa}[Vice versa]
               \ala
                 • \alphala = \grave{a} la
               849 \cmdtxtabr{ala}[\'a la]
        \n
                 • \n naif = naif
               850 \cmdtxtabr{naif}[na\"{i}f]
                 • \ne naive = na\"ive
        \naive
               851 \cmdtxtabr{naive}[na"{i}ve]
                 • \role = r\hat{o}le
        \role
               852 \cmdtxtabr{role}[r\^{o}le]
               \Role
                 • \label{Role} \operatorname{Role} = R \hat{o} l e
               854 \cmdtxtabr{Role}[R\^{o}le]
               \aka
                 • \again a.k.a.
               856 \cmdtxtabr{aka}[a.k.a.]
        \contd
                 • \contd = contd.
               857 \cmdtxtabr{contd}[contd.]
         \iff
                 • \iff = iff
               858 \cmdtxtabr{iff}
         \iht
                 • \ iht = i.h.t.
               859 \cmdtxtabr{iht}[i.h.t.]
                 • \ \ \ \ \ \ \ \ s.t.
         \stx
               860 \cmdtxtabr{stx}[s.t.]
         \resp
                 • \resp = resp.
               861 \cmdtxtabr{resp}[resp.]
```

```
\wrt
            • \wrt = w.r.t.
          862 \cmdtxtabr{wrt}[w.r.t.]
     \wlogx
            • \wdots w.l.o.g.
          863 \cmdtxtabr{wlogx}[w.l.o.g.]
          \Cont.d
            • \contd = Contd.
          865 \cmdtxtabr{Contd}[Contd.]
            • \Wlogx = W.l.o.q.
     \Wlogx
          866 \cmdtxtabr{Wlogx}[W.l.o.g.]
          872 \ifmth@
          \defeq, \seteq
          874 \DeclareRobustCommand{\defeq}
             {\@ifstar%
          876
               {\mthlbop{\stackrel{\text{\textup{def}}}}{=}}}%
              {\mthlbop{\triangleq}}}
          878 \DeclareRobustCommand{\seteq}
             {\@ifstar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
          \limp, ... ...
          881 \DeclareRobustCommand{\limp}
          882 {\mthlbop{\rightarrow}}
 \lcoimp, ... ...
          883 \DeclareRobustCommand{\lcoimp}
             {\mthlbop{\leftrightarrow}}
          \implies, ... ...
          886 \DeclareRobustCommand{\implies}
          887 {\mthlrel{\Rightarrow}}
          888 \DeclareRobustCommand{\notimplies}
             {\mthlrel{\not\Rightarrow}}
 \implied, ... ...
          890 \DeclareRobustCommand{\implied}
          891 {\mthlrel{\Leftarrow}}
          892 \DeclareRobustCommand{\notimplied}
          893 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
          894 \DeclareRobustCommand{\coimplies}
          895 {\mthlrel{\Leftrightarrow}}
          896 \DeclareRobustCommand{\notcoimplies}
          897 {\mthlrel{\not\!\Leftrightarrow}}
```

```
\cmodels, ... ...
                899 \DeclareRobustCommand{\cmodels}
                900 {\mthlrel{\models}}
                901 \DeclareRobustCommand{\notcmodels}
                902 {\bf \{not\models\}}
    \cequiv, ... ...
                903 \DeclareRobustCommand{\cequiv}
                   {\mthlrel{\equiv}}
                905 \DeclareRobustCommand{\notcequiv}
                906 {\mthlrel{\not\equiv}}
                \denot ...
                908 \DeclareRobustCommand{\denot}
                    {\@ifstar{\@sdenot}{\@denot}}
                910 \DeclareRobustCommand{\@denot}[1]
                911 {\mth{\argmid{\left\llbracket}{#1}{\right\rrbracket}}}
                912 \DeclareRobustCommand{\@sdenot}[1]
                913 {\mth*{\argmid{\llbracket}{#1}{\rrbracket}}}
                \dual, \adj, ... ...
                915 \DeclareRobustCommand{\dual}[1]
                916 {\mth{\overline{#1}}}
                917 \DeclareRobustCommand{\adj}[1]
                918 {\mth{\mathring{#1}}}
                919 \DeclareRobustCommand{\der}[1]
                920 {\mth{\widehat{#1}}}
                921 \DeclareRobustCommand{\trn}[1]
                922 {\mth{\widetilde{#1}}}
          \vec ...
                923 \DeclareRobustCommand{\vec}
                924 {\c}^{0} {\@ifstar{\@svec}{\@vec}}
                925 \DeclareRobustCommand{\@vec}[1]
                926 {\mth{\mathaccent"017E{#1}}}
                927 \DeclareRobustCommand{\@svec}[1]
                928 {\bf \{nth{overline{#1}}}
                \enumeration, ... ...
                930 \operatorname{d}{\text{enumeration}}{\text{wth*}}{}{,}{}{}
                931 \varcmd{enumerationx}{mth*}{}{;}{}}
  \sequence, ... ...
                932 \DeclareRobustCommand{\sequence}
                    {\@ifstar{\@ssequence}{\@sequence}}
                935 \varcmd{@ssequence}{\mth*}{[]{,}{]}{}
                936 \DeclareRobustCommand{\sequencel}
                    {\@ifstar{\@ssequencel}{\@sequencel}}
                938 \varcmd{@sequencel}{\mth}{\left[}{,}{\right.}{}
                939 \varcmd{@ssequencel}{\mth*}{[]{,}{}}
                940 \DeclareRobustCommand{\sequencer}
                    {\@ifstar{\@ssequencer}{\@sequencer}}
                942 \end{@sequencer}{\bf \{\hft.}{,}{right]}{}
                943 \operatorname{(0ssequencer){\{\hth*}{\{\},\}{]}}{\}}
                944 \DeclareRobustCommand{\sequencex}
```

```
946 \varcmd{@sequencex}{\mth}{\left[}{;}{\right]}{}
             947 \varcmd{@ssequencex}{\mth*}{[]{;}{]}{}
             948 \DeclareRobustCommand{\sequencex1}
             949 {\@ifstar{\@ssequencexl}{\@sequencexl}}
             951 \varcmd{@ssequencex1}{\mth*}{[]{;}{}}
             952 \DeclareRobustCommand{\sequencexr}
             953 {\@ifstar{\@ssequencexr}{\@sequencexr}}
             955 \varcmd{@ssequencexr}{\mth*}{}{;}{]}{}
\tuple, ... ...
            956 \DeclareRobustCommand{\tuple}
            957 {\@ifstar{\@stuple}{\@tuple}}
             958 \varcmd{@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
             959 \varcmd{@stuple}{\mth*}{\langle}{,}{\rangle}{}
             960 \DeclareRobustCommand{\tuplel}
                 {\@ifstar{\@stuplel}{\@tuplel}}
             963 \varcmd{@stuplel}{\mth*}{\langle}{,}{}}
             964 \DeclareRobustCommand{\tupler}
             965 {\@ifstar{\@stupler}{\@tupler}}
             966 \varcmd{@tupler}{\mth}{\left.}{,}{\right\rangle}{}
             967 \varcmd{@stupler}{\mth*}{}{,}{\rangle}{}
             968 \DeclareRobustCommand{\tuplex}
                {\@ifstar{\@stuplex}{\@tuplex}}
             970 \varcmd{@tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
             971 \varcmd{@stuplex}{\mth*}{\langle}{;}{\rangle}{}
            972 \DeclareRobustCommand{\tuplex1}
             973 {\@ifstar{\@stuplexl}{\@tuplexl}}
             974 \displaystyle \frac{0tuplex1}{mth}{\left(\frac{ctuplex1}{mth}}{\left(\frac{ctuplex1}{ctuplex1}}\right)}
             975 \varcmd{@stuplex1}{\mth*}{\langle}{;}{}}
             976 \DeclareRobustCommand{\tuplexr}
             977 {\@ifstar{\@stuplexr}{\@tuplexr}}
             978 \varcmd{@tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
             979 \varcmd{@stuplexr}{\mth*}{}{;}{\rangle}{}
             \set. ... ...
             981 \DeclareRobustCommand{\set}
                 {\@ifstar{\@sset{\vert}}{\@set{\vert}}}
             983 \DeclareRobustCommand{\setx}
             984 {\@ifstar{\@sset{:}}{\@set{.\!:}}}
             985 \DeclareRobustCommand{\@set}[3]
             986 {\bf \{\hat \} {\argsep{#2}{\,\middle#1\,}{\#3}}{\right\right\right}}
             987 \DeclareRobustCommand{\@sset}[3]
             988 {\mathbf {\mathbf {\lambda rgmid{ \bar {\lambda rgsep{#2}{\, #1\, }{#3}}{\bar {\lambda rbrace}}}}
             989 \DeclareRobustCommand{\set1}
             990 {\@ifstar{\@ssetl{\vert}}}{\@setl{\vert}}}
             991 \DeclareRobustCommand{\setlx}
             992 {\@ifstar{\@ssetl{:}}{\@setl{.\!\!\!:}}}
             993 \DeclareRobustCommand{\@set1}[2]
                {\mth{\argmid{\left\lbrace}{#2}{\,\right#1\!}}}
             995 \DeclareRobustCommand{\@sset1}[2]
             996 {\mth*{\argmid{\lbrace}{#2}{\,#1\!}}}
             997 \DeclareRobustCommand{\setr}
                 {\@ifstar{\@ssetr}{\@setr}}
             999 \DeclareRobustCommand{\setrx}
                 {\@ifstar{\@ssetr}{\@setr}}
            1001 \DeclareRobustCommand{\@setr}[1]
                 {\mth{\argmid{\left.}{#1}{\right\rbrace}}}
            1003 \DeclareRobustCommand{\@ssetr}[1]
                {\mth*{\argmid{}{#1}{\rbrace}}}
```

```
\card ...
           1005 \DeclareRobustCommand{\card}
               {\@ifstar{\@scard}{\@card}}
           1007 \DeclareRobustCommand{\@card}[1]
            1008 \quad \{\mb{\argmid{\left\langle \left\langle \mbox{$1$} \right\rangle }} \}
            1009 \DeclareRobustCommand{\@scard}[1]
               {\mth*{\argmid{\lvert}{#1}{\rvert}}}
       \pow ...
           1011 \DeclareRobustCommand{\pow}[1]
            1012 \quad {\bf 2^{\defval{#1}{\cdot}}}
            \emptyrel
            1014 \verb|\DeclareRobustCommand{\emptyrel}|
            1015 {\mth{\varnothing}}
            \dom, \cod, ... ...
           1017 \usrmth{dom}{}{argfun}
           1018 \usrmth{cod}{}{argfun}
            1019 \usrmth{rng}{}{argfun}
            1020 \mbox{ \norm}{\mbox{(img)}{\mbox{(argfun)}}
            \prj ...
            1022 \DeclareRobustCommand{\prj}
            1023 {\mthlbop{\downarrow}}
       \rst ...
            1024 \DeclareRobustCommand{\rst}
               {\mthlbop{\upharpoonright}}
       \cmp ...
            1026 \DeclareRobustCommand{\cmp}
               {\mthlbop{\circ}}
            \emptyfun ...
            1029 \DeclareRobustCommand{\emptyfun}
               {\mth{\varnothing}}
            \pto, \pmapsto
            1032 \DeclareMathOperator{\pto}
               {\ensuremath{\rightharpoonup}}
            1034 \DeclareMathOperator{\pmapsto}
                {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
                 \kern-1.5ex\rightharpoonup}}}
            \fix, \ifp, ... ...
           1038 \operatorname{fix}{{fun}}
            1039 \mbox{ \norm}{ifp}{fun}
            1040 \mbox{ \norm}{10}
            1041 \sl {gfp}{fun}
```

```
\Aomega, \AOmega
                                         1043 \verb| \argset| [\argset] [\argset] |
                                         1044 \usrmth{AOmega}{}{argset}[\Omega]
\Atheta, \ATheta
                                         1045 \usrmth{Atheta}{}{argset}[\theta]
                                         1046 \usrmth{ATheta}{}{argset}[\Theta]
    \Aomicron, ...
                                         1047 \usrmth{Aomicron}{}{argset}[\omicron]
                                        1048 \usrmth{AOmicron}{}{argset}[\Omicron]
                                         \SetB ...
                                         1050 \DeclareRobustCommand{\SetB}
                                         1051 \quad \{\text{mthset[mathbb]}\{B\}\}\
                         \SetF ...
                                         1052 \DeclareRobustCommand{\SetF}
                                         1053 {\mthset[mathbb]{F}}
             \SetN, ... ...
                                         1054 \DeclareRobustCommand{\SetN}
                                        1055 {\mthset[mathbb]{N}}
                                         1056 \DeclareRobustCommand{\SetNI}[1][]
                                        1057 {\SetN[\infty #1]}
             \SetZ, ... ...
                                         1058 \DeclareRobustCommand{\SetZ}
                                        1059 {\mthset[mathbb]{Z}}
                                         1060 \label{localized_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_
                                         1061 {\SetZ[\pm\infty #1]}
                                         1062 \verb|\DeclareRobustCommand{\SetZPI}[1][]
                                         1063 {\SetZ[+\infty #1]}
                                         1064 \DeclareRobustCommand{\SetZNI}[1][]
                                                    {\SetZ[-\infty #1]}
             \SetQ, ... ...
                                        1066 \DeclareRobustCommand{\SetQ}
                                                    {\mthset[mathbb]{Q}}
                                         1068 \DeclareRobustCommand{\SetQI}[1][]
                                                     {\SetQ[\pm\infty #1]}
                                         1070 \DeclareRobustCommand{\SetQPI}[1][]
                                                     {\SetQ[+\infty #1]}
                                         1072 \DeclareRobustCommand{\SetQNI}[1][]
                                                   {\SetQ[-\infty #1]}
             \SetR, ... ...
                                        1074 \DeclareRobustCommand{\SetR}
                                                    {\mthset[mathbb]{R}}
                                         1076 \DeclareRobustCommand{\SetRI}[1][]
                                                     {\SetR[\pm\infty #1]}
                                         1078 \DeclareRobustCommand{\SetRPI}[1][]
                                                      {\SetR[+\infty #1]}
                                         1080 \DeclareRobustCommand{\SetRNI}[1][]
                                                      {\SetR[-\infty #1]}
             \SetC, ... ...
                                         1082 \DeclareRobustCommand{\SetC}
                                                     {\mthset[mathbb]{C}}
                                         1084 \DeclareRobustCommand{\SetCI}[1][]
                                         1085 {\SetC[\infty #1]}
```

```
\num, ... ...
               1087 \DeclareRobustCommand{\num}[1]
               1088
                   {\mth{[#1]}}
               1089 \DeclareRobustCommand{\numcc}[2]
                   {\mth{[\argsep{#1}{,}{#2}]}}
               1091 \DeclareRobustCommand{\numco}[2]
                    {\mth{[\argsep{#1}{,}{#2})}}
               1093 \DeclareRobustCommand{\numoc}[2]
                   {\mth{(\argsep{#1}{,}{#2}]}}
               1095 \DeclareRobustCommand{\numoo}[2]
                    {\mth{(\argsep{#1}{,}{#2})}}
               \abs, \norm
               1098 \DeclareRobustCommand{\abs}
               1099 {\c}^{\c}
               1100 \DeclareRobustCommand{\@abs}[1]
               1101 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
               1102 \DeclareRobustCommand{\@sabs}[1]
               1103 {\bf {\bf 1103} \{\bf 1103} {\bf 1103} 
               1104 \DeclareRobustCommand{\norm}
               1105 {\@ifstar{\@snorm}{\@norm}}
               1106 \DeclareRobustCommand{\@norm}[1]
                    {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
               1108 \DeclareRobustCommand{\@snorm}[1]
                   {\mth*{\argmid{\lVert}{#1}{\rVert}}}
 \floor, \ceil ...
               1110 \DeclareRobustCommand{\floor}
                   {\@ifstar{\@sfloor}{\@floor}}
               1112 \DeclareRobustCommand{\@floor}[1]
                    {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
               1114 \DeclareRobustCommand{\@sfloor}[1]
                   {\mth*{\argmid{\lfloor}{#1}{\rfloor}}}
               1116 \DeclareRobustCommand{\ceil}
               1117 {\@ifstar{\@sceil}{\@ceil}}
               1118 \DeclareRobustCommand{\@ceil}[1]
               1119 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
               1120 \DeclareRobustCommand{\@sceil}[1]
                   {\mth*{\argmid{\lceil}{#1}{\rceil}}}
               \arg ...
               1123 \usrmth{arg}{}{fun}
    \evn, \odd ...
               1124 \usrmth{evn}{}{fun}
               1125 \mbox{ }\mbox{usrmth{odd}{fun}}
     \bst. ... ...
               1126 \usrmth{bst}{}{fun}
               1127 \usrmth{argbst}{}{fun}[arg\,bst]
\min, \max, ... ...
               1128 \operatorname{lusrmth\{min}{\{\}\{fun\}\}}
               1129 \operatorname{max}{fun}
               1130 \mbox{usrmth{argmin}{fun}[arg\mbox{min}]}
               1131 \usrmth{argmax}{}{fun}[arg\,max]
```

```
\inf, \sup ...
              1132 \mbox{ \nf}{fun}
              1133 \operatorname{sup}{{fun}}
              \emptyseq ...
              1135 \DeclareRobustCommand{\emptyseq}
              1136 {\mth{\varepsilon}}
        \len ...
              1137 \DeclareRobustCommand{\len}
              1139 \DeclareRobustCommandx{\@len}[3][1=, 2=]
              1140 \quad {\bf \{\argmid\{\#1\lvert\}\{\#3\}\{\#2\rvert\}\}}
              1141 \DeclareRobustCommand{\ellen}[1]
              1142 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
              1143 \DeclareRobustCommand{\@slen}[1]
              \fst, \lst ...
              1145 \usrmth{fst}{}{argfun}
              1146 \usrmth{lst}{}{argfun}
              1147 \fi
              1152 \ifcom@
  \defcomcls ... to do!
                 • \defcomcls{CompClass};
                   \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                 • \defcomcls{CompClass}[NewClass];
                   \CompClass[sub][sup][arg] = NewClass_{SUB}^{SUP}(ARG)
              1153 \newcommandx{\defcomcls}[2][2=]
                   {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
                 • \defcomclsgrp{CompClass};
                   \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                   \CoCompClass[sub][sup][arg] = CoCompCLASS_{SUB}^{SUP}(ARG)
                   \CompClassE[sub][sup][arg] = COMPCLASS-EASY_{SUB}^{SUP}(ARG)
                   \verb|\CoCompClassE[sub][sup][arg]| = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                   \verb|\CompClassH[sub][sup][arg]| = CompClass-Hard_{SUB}^{SUP}(ARG)
                   \verb|\CoCompClassH[sub][sup][arg]| = \operatorname{CoCompClass-Hard}^{\operatorname{SUP}}_{\operatorname{SUB}}(\operatorname{Arg})
                   \CompClassC[sub][sup][arg] = COMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                   \verb|\CoCompClassC[sub][sup][arg]| = CoCompClass-complete_{SUB}^{SUP}(ARG)
                   \verb|\DCompClass[sub][sup][arg]| = DCompClass[sub](ARG)
                   \verb|\CoDCompClass[sub][sup][arg]| = CoDCompClass_{SUB}^{SUP}(ARG)
                   \texttt{\begin{tabular}{l} $\mathsf{DCompClassE[sub][sup][arg]} = \mathsf{DCompClass-EASY}^{SUP}_{SUB}(\mathsf{ARG}) \end{tabular}}
                   \verb|\CoDCompClassE[sub][sup][arg]| = CoDCompClass-EASY_{SUB}^{SUP}(ARG)
                   \label{eq:decompClassH} $$ \D{\compClassHard}_{Sub} [sup] [arg] = DCOMPCLASS-HARD_{SUB}^{SUP} (ARG) 
                   \verb|\CoDCompClassH[sub][sup][arg]| = CoDCompClass-Hard_{SUB}^{SUP}(ARG)
                   \DCompClassC[sub][sup][arg] = DCompClass-Complete_{SUB}^{SUP}(ARG)
                   \verb|\CoDCompClassC[sub][sup][arg]| = CoDCompClass-Complete_{SUB}^{SUP}(ARG)
```

```
\NCompClass[sub][sup][arg] = NCompClass_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConCompClass_{SUB}^{SUP}(ARG)
  \label{eq:lassesub} $$\N{\tt CompClassE[sub][sup][arg]} = N{\tt CompClass-Easy}^{\tt SUP}_{\tt SUB}({\tt Arg})$$
  \verb|\ConCompClassE[sub][sup][arg]| = ConCompClass-Easy_{SuB}^{SUP}(ARG)
  \label{eq:lasshard_sub_sub} $$\N{\compClasshard_sub} = N{\compClass-hard_sub}(ARG)$
  \verb|\CoNCompClassH[sub][sup][arg]| = CoNCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \label{eq:ncompClassC} $$\NCompClassC[sub][sup][arg] = NCompClass-CompLete_{SUB}^{SUP}(ARG)$
  \ConCompClassC[sub][sup][arg] = ConCompClass-CompLete_{Sub}^{SUP}(ARG)
  \verb|\UCompClass[sub][sup][arg]| = UCOMPCLASS^{SUP}_{SUB}(ARG)
  \verb|\CoUCompClass[sub][sup][arg]| = CoUCompClass[sup](ARG)
  \label{eq:ucompclassesub} $$ \U{\compclassesub} \ [sup] \ [arg] = U{\ccompclassesub} \ (ARG) $$
  \CoulompClassE[sub][sup][arg] = CoUCOMPCLASS-EASY_{SUB}^{SUP}(ARG)
  \UCompClassH[sub][sup][arg] = UCompClass-Hard_{SUB}^{SUP}(ARG)
  \CoulompClassH[sub][sup][arg] = CoulompClass-Hard_{SUB}^{SUP}(ARG)
  \UCompClassC[sub][sup][arg] = UCompClass-CompLete_{SUB}^{SUP}(ARG)
  \texttt{CoUCompClassC[sub][sup][arg]} = \texttt{CoUCompClass-complete}_{\texttt{SUB}}^{\texttt{SUP}}(\texttt{ARG})
  \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoACompClass[sub][sup][arg]| = CoACompClass_{SUB}^{SUP}(ARG)
  \triangle CompClassE[sub][sup][arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)
  \verb|\CoACompClassE[sub][sup][arg]| = CoACompClass-Easy_{SUB}^{SUP}(ARG)
  \triangle CompClassH[sub][sup][arg] = ACOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\CoACompClassH[sub][sup][arg]| = CoACompClass-Hard_{SUB}^{SUP}(ARG)
  \verb|ACompClassC[sub][sup][arg]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \CoACompClassC[sub][sup][arg] = CoACompClass-CompLete_{SUB}^{SUP}(ARG)
• \defcomclsgrp{CompClass}[NewClass];
  \compClass[sub][sup][arg] = NewClass_{SUB}^{SUP}(ARG)
  \CoCompClass[sub][sup][arg] = CoNewClass_{SUB}^{SUP}(ARG)
  \verb|\CompClassE[sub][sup][arg]| = NewClass-easy_{SUB}^{SUP}(ARG)
  \CoCompClassE[sub][sup][arg] = CoNewClass-Easy_{SUB}^{SUP}(ARG)
  \CompClassH[sub][sup][arg] = NewClass-Hard_{SUB}^{SUP}(ARG)
  \verb|\CoCompClassH[sub][sup][arg]| = CoNewClass-Hard_{SUB}^{SUP}(ARG)
  \cline{CompClassC[sub][sup][arg]} = NewClass-complete_{Sub}^{SUP}(ARG)
  \CoCompClassC[sub][sup][arg] = CoNewClass-CompLete_{SUB}^{SUP}(ARG)
  \verb|\DCompClass[sub][sup][arg]| = DNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoDCompClass[sub][sup][arg]| = CoDNewClass_{SUB}^{SUP}(ARG)
  \label{eq:decompClassE} $$\D{\compClassE[sub][sup][arg]} = DNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CoDCompClassE[sub][sup][arg] = CoDNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \label{eq:decompClassH} $$ \D{\compClassH[sub][sup][arg]} = DNEWCLASS-HARD_{SUB}^{SUP}(ARG) 
  \verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{SUB}^{SUP}(ARG)
  \verb|\DCompClassC[sub][sup][arg]| = DNewClass-complete_{Sub}^{SUP}(ARG)
  \CodCompClassC[sub][sup][arg] = CodNewClass-CompLete_{SUB}^{SUP}(ARG)
  \N{\c CompClass[sub][sup][arg]} = NNEWCLASS_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConNewClass_{SUB}^{SUP}(ARG)
  \label{eq:ncompClassEsub} $$\NEWCLASS-EASY_{SUB}^{SUP}(ARG)$$
  \verb|\CoNCompClassE[sub][sup][arg]| = CoNNewClass-EASY_{SUB}^{SUP}(ARG)
  \label{eq:ncompClassH} $$\NEWCLASS-HARD_{SUB}^{SUP}(ARG)$ = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)$
  \ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{Sub}^{SUP}(Arg)
  \label{eq:ncompClassC} $$\NEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)$$
  \ConCompClassC[sub][sup][arg] = ConNewClass-Completes_{SUB}^{SUP}(ARG)
  \verb|\UCompClass[sub][sup][arg]| = UNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoUCompClass[sub][sup][arg]| = CoUNEWCLASS^{SUP}_{SUB}(ARG)
  \UCompClassE[sub][sup][arg] = UNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CoUCompClassE[sub][sup][arg] = CoUNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \UCompClassH[sub][sup][arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \CoUCompClassH[sub][sup][arg] = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \Coulomb Class C[sub][sup][arg] = Council New Class-complete <math>_{SUB}^{SUP}(ARG)
```

```
\Lambda CompClass[sub][sup][arg] = ANEWCLASS_{SUB}^{SUP}(ARG)
                         \verb|\CoACompClass[sub][sup][arg]| = CoANewClass_{SUB}^{SUP}(ARG)
                         \triangle CompClassE[sub][sup][arg] = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                         \verb|\CoACompClassE[sub][sup][arg]| = CoANewClass-easy_{SUB}^{SUP}(ARG)
                         \label{eq:accompClassH} $$ \Delta CompClassH[sub] [sup] [arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
                         \CoACompClassH[sub][sup][arg] = CoANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                         \ACompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                         \CoACompClassC[sub][sup][arg] = CoANewClass-Complete_{SuB}^{SUP}(ARG)
                    1155 \newcommandx{\defcomclsgrp}[2][2=]
                    1156
                          {\defcomclsgrpsem{#1}{\defval{#2}{#1}}}%
                          \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
                    1157
                    1158 \newcommandx{\defcomclsgrpsem}[3][3=]
                         {\defcomclsgrpred{#3#1}{#2}[#3]%
                          \defcomclsgrpred{#3D#1}{#2}[#3D]%
                    1160
                    1161
                          \defcomclsgrpred{#3N#1}{#2}[#3N]%
                          \defcomclsgrpred{#3U#1}{#2}[#3U]%
                    1162
                    1163
                          \defcomclsgrpred{#3A#1}{#2}[#3A]}
                    1164 \newcommandx{\defcomclsgrpred}[3][3=]
                         {\defcomclsgrpcmd{#1}{#2}[#3]%
                    1166
                          \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                    1167
                          \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                         \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                    1169 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                    1170
                         {\csdef{#1}{\txtoargcom{#3#2#4}}}
       \defcomhrc ... to do!
                       • \defcomhrc{CompHierarchy};
                         CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                       • \defcomhrc{CompHierarchy} [NewHierarchy];
                         \texttt{CompHierarchy[sub][sup][par]} = \texttt{NewHierarchy}^{\texttt{SUP}}_{\texttt{SUB}}[\texttt{PAR}]
                    1171 \newcommandx{\defcomhrc}[2][2=]
                          {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
                    \Easy, \Hard, ...
                   1174 \cmdtxtcom{Easy}
                    1175 \cmdtxtcom{Hard}
                    1176 \cmdtxtcom{Complete}
                    \FPT, ...
                       • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
                       \bullet \FPLin[sub][sup][arg] = FPL_{SUB}^{SUP}(ARG)
                       • \FPQdr[sub][sup][arg] = FPQ_{SUB}^{SUP}(ARG)
                       ullet \FPCub[sub][sup][arg] = \mathrm{FPC}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                    1178 \defcomcls{FPT}
                    1179 \defcomcls{FPLin}[FPL]
                    1180 \defcomcls{FPQdr}[FPQ]
                    1181 \defcomcls{FPCub}[FPC]
                    \Time, ...
                         TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
                         \mathsf{TimeH[sub][sup][arg]} = \mathsf{Time}\text{-}\mathsf{HARD}^{\mathsf{SUP}}_{\mathsf{SUB}}(\mathsf{ARG})
                         TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\verb|\DTimeE[sub][sup][arg]| = DTIME-EASY_{SUB}^{SUP}(ARG)
                          \DTimeH[sub][sup][arg] = DTIME-HARD_{SUB}^{SUP}(ARG)
                          \DTimeC[sub][sup][arg] = DTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \bullet \ \ \texttt{NTime[sub][sup][arg]} = NTIME^{SUP}_{SUB}(ARG)
                          \verb|\NTimeE[sub][sup][arg]| = NTIME-EASY_{SUB}^{SUP}(ARG)
                          \verb|\NTimeH[sub][sup][arg]| = NTIME-HARD_{SUB}^{SUP}(ARG)
                          \TimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UTime[sub][sup][arg] = UTIME<sup>SUP</sup><sub>SUR</sub>(ARG)
                          \UTimeE[sub][sup][arg] = UTIME-EASY_{SUB}^{SUP}(ARG)
                         \UTimeH[sub][sup][arg] = UTIME-HARD_{SUB}^{SUP}(ARG)
                         \UTimeC[sub][sup][arg] = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
                          \Delta TimeE[sub][sup][arg] = ATIME-EASY_{SUB}^{SUP}(ARG)
                          \texttt{\ATimeH[sub][sup][arg]} = \text{ATIME-HARD}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                          \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                   1183 \defcomclsgrp{Time}
                       • Space[sub][sup][arg] = SPACE_{SUB}^{SUP}(ARG)
  \Space, ...
                          \SpaceE[sub][sup][arg] = SPACE-EASY_{SUB}^{SUP}(ARG)
                          \SpaceH[sub][sup][arg] = Space-Hard_{Sub}^{SUP}(Arg)
                          \SpaceC[sub][sup][arg] = SPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • DSpace[sub][sup][arg] = DSPACE_{SUB}^{SUP}(ARG)
                          \texttt{\DSpaceE[sub][sup][arg]} = \mathrm{DSPACE\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                          \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
                          \DSpaceC[sub][sup][arg] = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • NSpace[sub][sup][arg] = NSPACE_{SUB}^{SUP}(ARG)
                          \NSpaceE[sub][sup][arg] = NSPACE-EASY_{SUB}^{SUP}(ARG)
                          \NSpaceH[sub][sup][arg] = NSPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|NSpaceC[sub][sup][arg]| = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
                          \USpaceE[sub][sup][arg] = USPACE-EASY_{SUB}^{SUP}(ARG)
                          \USpaceH[sub][sup][arg] = USPACE-HARD_{SUB}^{SUP}(ARG)
                          \USpaceC[sub][sup][arg] = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                          ASpaceE[sub][sup][arg] = ASPACE-EASY_{SUB}^{SUP}(ARG)
                          ASpaceH[sub][sup][arg] = ASPACE-HARD_{SUB}^{SUP}(ARG)
                          ASpaceC[sub][sup][arg] = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1184 \defcomclsgrp{Space}
                       • \lfloor LogTime[sub][sup][arg] = LogTime_{SUB}^{SUP}(ARG)
\LogTime, ...
                          \lceil LogTimeE[sub][sup][arg] = LogTime-Easy_{SUB}^{SUP}(ARG)
                          \verb|\LogTimeH[sub][sup][arg]| = \operatorname{LogTime-HARD}_{SUB}^{SUP}(ARG)
                          \lceil LogTimeC[sub][sup][arg] = LogTime-Complete_{Sub}^{SUP}(ARG)
                       • \DLogTime[sub][sup][arg] = DLogTime_{SUB}^{SUP}(ARG)
                          \DLogTimeE[sub][sup][arg] = DLogTime-EASY_{SUB}^{SUP}(ARG)
                          \DLogTimeH[sub][sup][arg] = DLogTime-HARD_{SUB}^{SUP}(ARG)
                          \DLogTimeC[sub][sup][arg] = DLogTime-Complete_{SUB}^{SUP}(ARG)
                       \bullet \ \ \texttt{NLogTime[sub][sup][arg]} = \mathrm{NLogTime}^{SUP}_{SUB}(\mathrm{Arg})
                         \verb|\NLogTimeE[sub][sup][arg]| = NLogTime-EASY_{SUB}^{SUP}(ARG)
                          \label{eq:nlogTimeH} $$\NLogTimeH[sub][sup][arg] = NLogTime-HARD_{SUB}^{SUP}(ARG)$
                          \verb|\NLogTimeC[sub][sup][arg]| = NLogTime-complete_{sub}^{SUP}(ARG)
                       • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                          \verb| ULogTimeE[sub][sup][arg] = ULogTime-easy_{sub}^{SUP}(ARG)
                          \ULogTimeH[sub][sup][arg] = ULogTime-HARD_{SUB}^{SUP}(ARG)
                          \label{eq:ULogTimeC} $$\ULogTimeC[sub][sup] [arg] = ULogTime-COMPLETE^{SUP}_{SUB}(ARG)$
                       • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                         \label{eq:algorithm} $$ \Delta GTimeE[sub][sup] [arg] = ALOGTIME-EASY_{SUB}^{SUP}(ARG) $$
                          \Lambda = ALOGTIME-HARD_{SUB}^{SUP}(ARG)
                         \Delta LogTimeC[sub][sup][arg] = ALogTime-Complete_{SUB}^{SUP}(ARG)
                   1185 \defcomclsgrp{LogTime}
```

• $\DTime[sub][sup][arg] = DTIME_{SUB}^{SUP}(ARG)$

```
• \LogSpace[sub][sup][arg] = LogSpace<sub>Sub</sub>(Arg)
\LogSpace, ...
                            \verb|\LogSpaceE[sub][sup][arg]| = \operatorname{LogSpace-Easy}^{SUP}_{SUB}(\operatorname{Arg})
                            \LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(Arg)
                            LogSpaceC[sub][sup][arg] = LogSpace-Complete_{Sub}^{SUP}(Arg)
                         • \DLogSpace[sub][sup][arg] = DLogSpace[sub](ARG)
                            \label{eq:decomposition} $$\DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)$
                            \verb|\DLogSpaceH[sub][sup][arg]| = DLogSpace-Hard_{SUB}^{SUP}(ARG)
                            \verb|\DLogSpaceC[sub][sup][arg]| = DLogSpace-Complete_{Sub}^{Sup}(ARG)
                         • \NLogSpace[sub][sup][arg] = NLogSpace[sub](ARG)
                            \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                            \verb|\NLogSpaceH[sub][sup][arg]| = NLogSpace-Hard_{SUB}^{SUP}(ARG)
                           \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(ARG)
                         • \ULogSpace[sub][sup][arg] = ULogSpace_{SUB}^{SUP}(ARG)
                            \ULogSpaceE[sub][sup][arg] = ULogSpace-Easy_{SUB}^{SUP}(ARG)
                            \verb|\ULogSpaceH[sub][sup][arg]| = ULogSpace-Hard_{SUB}^{SUP}(ARG)
                            \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(ARG)
                         \bullet \ \ \texttt{ALogSpace[sub][sup][arg]} = \mathrm{ALogSpace}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{ARG})
                            \verb|\ALogSpaceE[sub][sup][arg]| = ALogSpace-easy_{SUB}^{SUP}(ARG)
                            \verb|\ALogSpaceH[sub][sup][arg]| = ALogSpace-Hard_{SUB}^{SUP}(ARG)
                            \Lambda LogSpaceC[sub][sup][arg] = ALogSpace-complete_{Sub}^{SUP}(Arg)
                     1186 \defcomclsgrp{LogSpace}
                         • \P [sub] [sup] [arg] = \Pr [MESUB (ARG)
    \PTime, ...
                           \PTimeE[sub][sup][arg] = PTIME-EASY_{SUB}^{SUP}(ARG)
                            \label{eq:ptimeH} $$ \Pr[\sup] [\arg] = \Pr[\operatorname{HARD}^{SUP}_{SUB}(\operatorname{ARG}) $$
                            \PTimeC[sub][sup][arg] = PTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • \DPTime[sub][sup][arg] = DPTIME_{SUB}^{SUP}(ARG)
                            \verb|\DPTimeE[sub][sup][arg]| = \mathrm{DPTIME\text{-}EASY}^{SUP}_{SUB}(ARG)
                            \label{eq:def:DPTimeH} $$ \operatorname{DPTIME-HARD}_{SUB}^{SUP}(ARG) = \operatorname{DPTIME-HARD}_{SUB}^{SUP}(ARG) 
                            \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                            \NPTimeE[sub][sup][arg] = NPTIME-EASY_{SUB}^{SUP}(ARG)
                           \verb|\NPTimeH[sub][sup][arg]| = NPTIME-HARD_{SUB}^{SUP}(ARG)
                           \label{eq:nptimeC} $$ \PTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                         \label{eq:uptimeEsub} $$ \operatorname{UPTIME-EASY}^{SUP}_{SUB}(ARG) = \operatorname{UPTIME-EASY}^{SUP}_{SUB}(ARG) $$
                            \label{eq:uptimeH} $$ \UPTimeH[sub][sup][arg] = UPTIME-HARD_{SUB}^{SUP}(ARG) $$
                            \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • APTime[sub][sup][arg] = APTIME_{SUB}^{SUP}(ARG)
                            \APTimeE[sub][sup][arg] = APTIME-EASY_{SUB}^{SUP}(ARG)
                            \APTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                            \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                     1187 \defcomclsgrp{PTime}
                         • \PSpace[sub][sup][arg] = PSPACE_{SUB}^{SUP}(ARG)
  \PSpace, ...
                            \PSpaceE[sub][sup][arg] = PSPACE-EASY_{SUB}^{SUP}(ARG)
                            \label{eq:pspaceH} $$ \PSpaceH[sub] [sup] [arg] = PSpace-HARD_{SUB}^{SUP}(ARG) 
                            \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
                            \label{eq:decomposition} $$ \DPSpaceE[sub][sup][arg] = DPSpace-EASY_{SUB}^{SUP}(ARG) $$
                            \verb|\DPSpaceH[sub][sup][arg]| = \mathrm{DPSPACE-HARD}^{SUP}_{SUB}(ARG)
                            \DPSpaceC[sub][sup][arg] = DPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                            \NPSpaceE[sub][sup][arg] = NPSPACE-EASY_{SUB}^{SUP}(ARG)
                            \NPSpaceH[sub][sup][arg] = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                            \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                            \verb| UPSpaceE[sub][sup][arg] = UPSpace-easy_{sub}^{SUP}(ARG)
                            \UPSpaceH[sub][sup][arg] = UPSPACE-HARD_{SUB}^{SUP}(ARG)
```

 $\UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)$

```
\verb|\APSpaceE[sub][sup][arg]| = APSPACE-EASY_{SUB}^{SUP}(ARG)
                         APSpaceH[sub][sup][arg] = APSPACE-HARD_{SUB}^{SUP}(ARG)
                         APSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1188 \defcomclsgrp{PSpace}
                       \QPTime, ...
                         \label{eq:QPTimeEsub} $$ [\sup] [arg] = \mathrm{QPTIME\text{-}EASY}^{SUP}_{SUB}(ARG) $$
                         \label{eq:qptimeH} $$\operatorname{QPTIME-HARD}^{SUP}_{SUB}(ARG)$$
                         \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                         \label{eq:def-DQPTimeEsub} $$ \DQPTimeE[sub][sup][arg] = DQPTIME-EASY_{SUB}^{SUP}(ARG) $$
                         \DQPTimeH[sub][sup][arg] = DQPTIME-HARD_{SUB}^{SUP}(ARG)
                         \DQPTimeC[sub][sup][arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \verb|\NQPTimeE[sub][sup][arg]| = NQPTIME\text{-}EASY_{SUB}^{SUP}(ARG)
                         \verb|\NQPTimeH[sub][sup][arg]| = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                         \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UQPTime[sub][sup][arg] = UQPTIME_{SUB}^{SUP}(ARG)
                         \label{eq:UQPTimeEsub} $$ \UQPTimeE[sub][sup][arg] = UQPTIME-EASY_{SUB}^{SUP}(ARG) $$
                         \verb|\UQPTimeH[sub][sup][arg]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}(ARG)
                         \label{eq:uqptimeC} $$ \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                       • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                         \texttt{AQPTimeE[sub][sup][arg]} = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                         \verb|\AQPTimeH[sub][sup][arg]| = \mathrm{AQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                         \triangle QPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                   1189 \defcomclsgrp{QPTime}
                       • \QPSpace[sub][sup][arg] = QPSPACE_{SUB}^{SUP}(ARG)
\QPSpace, ...
                         \QPSpaceE[sub][sup][arg] = QPSpace-EASY_{SUB}^{SUP}(ARG)
                         \label{eq:QPSpaceH} $$ \QPSpaceH[sub][sup][arg] = QPSpace-HARD_{SUB}^{SUP}(ARG) $$
                         \QPSpaceC[sub][sup][arg] = QPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                         \texttt{DQPSpaceE[sub][sup][arg]} = DQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \DQPSpaceH[sub][sup][arg] = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \verb|\DQPSpaceC[sub][sup][arg]| = DQPSpace-complete_{sub}^{SUP}(ARG)
                       • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                         \NQPSpaceE[sub][sup][arg] = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \NQPSpaceH[sub][sup][arg] = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \verb|NQPSpaceC[sub][sup][arg]| = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UQPSpace[sub][sup][arg] = UQPSPACE_{SUB}^{SUP}(ARG)
                         \verb|VQPSpaceE[sub][sup][arg]| = UQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \UQPSpaceH[sub][sup][arg] = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \label{eq:UQPSpaceCsub} $$ \UQPSpaceC[sub] [sup] [arg] = UQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
                       • AQPSpace[sub][sup][arg] = AQPSPACE_{SUB}^{SUP}(ARG)
                         \triangle QPSpaceE[sub][sup][arg] = AQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \triangle QPSpaceH[sub][sup][arg] = AQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \triangle QPSpaceC[sub][sup][arg] = AQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1190 \defcomclsgrp{QPSpace}
                       • \texttt{ExpTime[sub][sup][arg]} = \texttt{EXPTIME}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{ARG})
\ExpTime, ...
                         \ExpTimeE[sub][sup][arg] = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                         \texttt{\colored}[sub][sup][arg] = ExpTime-Hard_{SUB}^{SUP}(ARG)
                         \verb|\ExpTimeC[sub][sup][arg]| = EXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \label{eq:decomposition} $$ \DEXPTIME-EASY_{SUB}^{SUP}(ARG) = DEXPTIME-EASY_{SUB}^{SUP}(ARG) $$
                         \texttt{\DExpTimeH[sub][sup][arg]} = DEXPTIME-HARD_{SUB}^{SUP}(ARG)
                         \verb|\DExpTimeC[sub][sup][arg]| = DEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
```

• $APSpace[sub][sup][arg] = APSPACE_{SUB}^{SUP}(ARG)$

```
\verb|\NExpTimeE[sub][sup][arg]| = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                              \label{eq:newpower} $$ \NEXPTIME-HARD_{SUB}^{SUP}(ARG) = NEXPTIME-HARD_{SUB}^{SUP}(ARG) $$
                                              \label{eq:newpower} $$ \NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG) = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                                          • \UExpTime[sub][sup][arg] = UEXPTIME_{SUB}^{SUP}(ARG)
                                              \verb|\UExpTimeE[sub][sup][arg]| = UEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                              \verb|\UExpTimeH[sub][sup][arg]| = UEXPTIME-HARD_{SUB}^{SUP}(ARG)
                                              \label{eq:uexpTimeC} $$ \UExpTimeC[sub][sup][arg] = UExpTime-COMPLETE_{SUB}^{SUP}(ARG) $$
                                          • \Delta ExpTime[sub][sup][arg] = AEXPTIME_{SUB}^{SUP}(ARG)
                                              \verb|\AExpTimeE[sub][sup][arg]| = AEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                              \AExpTimeH[sub][sup][arg] = AEXPTIME-HARD_{SUB}^{SUP}(ARG)
                                              \triangle ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                                   1191 \defcomclsgrp{ExpTime}
\ExpSpace, ...
                                          • \ExpSpace[sub][sup][arg] = EXPSPACE_{SUB}^{SUP}(ARG)
                                              \verb|\ExpSpaceE[sub][sup][arg]| = ExpSpace-Easy_{SUB}^{SUP}(ARG)
                                              \verb|\ExpSpaceH[sub][sup][arg]| = ExpSpace-Hard_{Sub}^{SUP}(ARG)
                                              \ExpSpaceC[sub][sup][arg] = ExpSpace-Complete_{SUB}^{SUP}(ARG)
                                          • \DExpSpace[sub][sup][arg] = DExpSpace_{SUB}^{SUP}(ARG)
                                              \verb|\DExpSpaceE[sub][sup][arg]| = DExpSpace-Easy_{SUB}^{SUP}(ARG)
                                              \texttt{\DExpSpaceH[sub][sup][arg]} = \text{DExpSpace-Hard}^{\text{SUP}}_{\text{SUB}}(\text{Arg})
                                              \label{eq:decomplete_sup} $$ \DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                                          • \NExpSpace[sub][sup][arg] = NExpSpace[sub](ARG)
                                              \label{eq:new_new_sup} $$ \NExpSpaceE[sub][sup][arg] = NExpSpace-Easy_{SUB}^{SUP}(ARG) $$
                                              \label{eq:new_new_new_new_new_new} $$ \NEXPSPACE-HARD_{SUB}^{SUP}(ARG) $$ $$ \ARG_{SUB}^{SUP}(ARG) $$ $$ $$ \ARG_{SUB}^{SUP}(ARG) $$ $$ \ARG
                                              \NExpSpaceC[sub][sup][arg] = NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                          • \UExpSpace[sub][sup][arg] = UExpSpace[sub](ARG)
                                              \verb|\UExpSpaceE[sub][sup][arg]| = UEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                                              \verb|\UExpSpaceH[sub][sup][arg]| = UEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                                              \UExpSpaceC[sub][sup][arg] = UExpSpace-COMPLETE_{SUB}^{SUP}(ARG)
                                          • \Delta ExpSpace[sub][sup][arg] = AExpSpace_{SUB}^{SUP}(ARG)
                                              \Delta ExpSpaceE[sub][sup][arg] = AEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                                              \texttt{AExpSpaceH[sub][sup][arg]} = \text{AExpSpace-HARD}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                                              \verb|\AExpSpaceC[sub][sup][arg]| = AEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                   1192 \defcomclsgrp{ExpSpace}
                                   \PH
                                          • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
                                   1194 \defcomhrc{PH}
                        \WH
                                          • \WH[sub][sup][par] = W_{SUB}^{SUP}[PAR]
                                   1195 \defcomhrc{WH}[W]
                                          \bullet \ \ \texttt{\AH[sub][sup][par]} \ = \ A^{\text{\tiny SUP}}_{\text{\tiny SUB}}[\text{\tiny PAR}]
                        \AH
                                   1196 \defcomhrc{AH}[A]
        \DLH, \DBH
                                          • \DLH[sub][sup][par] = \Delta_{\text{SUB}}^{\text{SUP}}[PAR]
                                          ullet \DBH[sub][sup][par] = oldsymbol{\Delta}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
                                   1197 \defcomhrc{DLH}[{\mth{\Delta}}]
                                   1198 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
                                          ullet \ELH[sub][sup][par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
        \ELH, \EBH
                                          ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
                                   1199 \defcomhrc{ELH}[{\mth{\Sigma}}]
                                   1200 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
                                          • \ULH[sub][sup][par] = \Pi_{\text{SUB}}^{\text{SUP}}[PAR]
        \ULH, \UBH
```

• $\NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)$

```
ullet \UBH[sub][sup][par] = oldsymbol{\Pi}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
              1201 \defcomhrc{ULH}[{\bf \{\Mth{\Pi}\}}]
              1202 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
              1203 \fi
              1208 \ifgam@
              \SATG, ... ...
              1210 %% Satisfiability Games
              1211 \cmdtxtoparname{SATG}[Sat]
              1212
              1213 %% Validity Games
              1214 \cmdtxtoparname{VALG}[Val]
              1216 %% Evaluation Games
              1217 \cmdtxtoparname{EVLG}[Evl]
              1219 %% Synthesis Games
              1220 \cmdtxtoparname{SYNG}[Syn]
              1222 %% Model-Checking Games
              1223 \cmdtxtoparname{MCG} [MC]
              1224
              1225 %% Ehrenfeucht-Fraisse Games
              1226 \cmdtxtoparname{EFG} [EF]
              \PlrSym, \OppSym
              1228 \newcommand{\plrsym}{E}
              1229 \cmdmthsym{Plr}[\plrsym]
              1230 \mbox{ } \mbox{newcommand{\nopsym}{A}}
              1231 \cmdmthsym{Opp} [\oppsym]
\ArenaName, ... ...
              1232 \newcommand{\arenaname}{A}
              1233 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
   \PosSet, ... ...
              1234 \newcommand{\possym}{v}
              1235 \newcommand{\posset}{Ps}
              1236 \cmdmthsetext{Pos}[\posset][\possym]
              1237 \cmdmthsymelm{ipos}[\possym_{I}]
              1238 \cmdmthsymelm{fpos}[\possym_{F}]
              1239 \cmdmthset{PPos}[\posset_{\PlrSym}]
              1240 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
              1241 \cmdmthset{OPos}[\posset_{\OppSym}]
              1242 \cmdmthsymelm{opos}[\possym_{\OppSym}]
      \PlrFun ...
              1243 \newcommand{\plrfun}{pl}
              1244 \cmdmthfun{plr}[\plrfun]
      \MovRel ...
              1245 \mbox{ } \mbox{newcommand{\mbox{movrel}{Mv}}
              1246 \cmdmthrel{Mov}[\movrel]
```

```
\GameName, ...
                   1247 \mbox{ \newcommand{\gamename}{\Game}}
                   1248 \verb|\usrmth|| a tupp{Game}{Name}{name}[\gamename]
          \WinSet
                   1249 \mbox{ \newcommand{\winset}{Wn}}
                   1250 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun ...
                   1251 \newcommand{\obsset}{Ob}
                   1252 \cmdmthset{Obs}[\obsset]
                   1253 \cmdmthfun{obs}
                   \PthSet, \pthFun
                   1255 \newcommand{\pthsym}{\pi}
                   1256 \newcommand{\pthset}{Pth}
                   1257 \cmdmthsetext{Pth}[\pthset][\pthsym]
                   1258 \usrmth{path}{}{argfun}
    \HstSet, ...
                   1259 \newcommand{\hstsym}{\varpi}
                   1260 \newcommand{\hstset}{Hst}
                   1261 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1262 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1263 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1264 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1265 \verb|\cmdmthsymelm{ohst}[\hstsym_{\coloredge m}]
                   1266 \usrmth{play}{}{argfun}
\PlaySet,\playFun
                   1267 \verb|\newcommand{\playsym}{\pi}
                   1268 \verb|\newcommand{\playset}{Play}|
                   1269 \cmdmthsetext{Play}[\playset][\playsym]
                   1270 \usrmth{hst}{}{argfun}
    \StrSet, ...
                   1271 \newcommand{\strsym}{\sigma}
                   1272 \newcommand{\strset}{Str}
                   1273 \cmdmthsetext{Str}[\strset][\strsym]
                   1274 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1275 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1276 \verb|\cmdmthset{OStr}[\strset_{\oppSym}]|
                   1277 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
\PrfSet, \prfFun
                   1278 \newcommand{\prfsym}{\xi}
                   1279 \newcommand{\prfset}{Prf}
                   1280 \cmdmthsetext{Prf}[\prfset][\prfsym]
       \pre, \suc
                   1281 \usrmth{pre}{}{oargfun}
                   1282 \usrmth{suc}{}{oargfun}
       \ent, \esc
                   1283 \usrmth{ent}{}{oargfun}
                   1284 \usrmth{esc}{}{oargfun}
       \int, \out
                   1285 \usrmth{int}{}{oargfun}
                   1286 \usrmth{out}{}{oargfun}
```

```
\atr, \rch ...
             1287 \usrmth{atr}{}{oargfun}
             1288 \operatorname{lusrmth{rch}{{}}{oargfun}}
        \lift ...
             1289 \usrmth{lift}{}{oargfun}
        \sol ...
             1290 \usrmth{sol}{}{oargfun}
             \BG, ... ...
             1292 %% Buchi Games
             1293 \cmdtxtoparname{BG}
             1295 %% Co-Buchi Games
             1296 \cmdtxtoparname{CG}
             1298 %% Parity Games
             1299 \cmdtxtoparname{PG}
             1300
             1301 %% Rabin Games
             1302 \cmdtxtoparname{RG}
             1304 %% Streett Games
             1305 \cmdtxtoparname{SG}
             1306
             1307 %% Muller Games
             1308 \cmdtxtoparname{MG}
             \EvnSym, \OddSym ...
             1310 \newcommand{\evnsym}{0}
             1311 \cmdmthsym{Evn}[\evnsym]
             1312 \mbox{ } \mbox{newcommand{\oddsym}{1}}
             1313 \cmdmthsym{Odd} [\oddsym]
\PrtSet, \prtFun ...
             1314 \newcommand{\prtsym}{p}
             1315 \newcommand{\prtset}{Pr}
             1316 \cmdmthsetext{Prt}[\prtset][\prtsym]
             1317 \cmdmthfun{prt}[pr]
             \EG, ... ...
             1320 %% Energy Games
             1321 \cmdtxtoparname{EG}
             1322
             1323 %% Mean-Payoff Games
             1324 \cmdtxtoparname{MPG}
             1325
             1326 %% Discounted-Payoff Games
             1327 \cmdtxtoparname{DPG}
```

```
\MaxSym, \MinSym
            1329 \mbox{ \maxsym}{\oplus}
            1330 \cmdmthsym{Max}[\maxsym]
            1331 \newcommand{\minsym}{\boxminus}
            1332 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun
            1333 \newcommand{\wghsym}{w}
            1334 \mbox{ \newcommand{\wghset}{Wg}}
            1335 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
            1336 \cmdmthfun{wgh} [wg]
            1338 \fi
            1343 \iflog@
            \BF, \QBF, ... ...
            1345 % Boolean Formulae
            1346 \cmdtxtoparname{BF}
            1348 % Quantified Boolean Formulae
            1349 \DeclareRobustCommand{\QBF}
                {{\txtname{Q}}\BF}
            1351 \DeclareRobustCommand{\EBF}
                {\ensuremath{\exists}\BF}
            1353 \DeclareRobustCommand{\UBF}
                {\ensuremath{\forall}\BF}
            \LogSig, ...
            1356 \newcommand{\lceil \log sig}{L}
            1357 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
     \Tt, \Ff ...
            1358 \mbox{ \newcommand{\ttsym}{\top}}
            1359 \usrmth{Tt}{}{sym}[\ttsym]
            1360 \newcommand{\ffsym}{\bot}
            1361 \operatorname{ff}{sym}[\ffsym]
  \LNeg, \LNot ...
            1362 \newcommand{\lnegsym}{\neg}
            1363 \usrmth{LNeg}{}{luop}[\lnegsym]
            1364 \newcommand{\lnotsym}{\sim}
            1365 \usrmth{LNot}{}{luop}[\lnotsym]
  \LCon, \LDis ...
            1366 \newcommand{\lconsym}{\land}
            1367 \usrmth{LCon}{}{lbop}[\lconsym]
            1368 \newcommand{\ldissym}{\lor}
            1369 \usrmth{LDis}{}{lbop}[\ldissym]
  \LImp, \LCoi
             1370 \newcommand{\limpsym}{\rightarrow}
            1371 \usrmth{LImp}{}{lbop}[\limpsym]
            1372 \newcommand{\lcoisym}{\leftrightarrow}
             1373 \usrmth{LCoi}{}{lbop}[\lcoisym]
```

```
\LExs, \LA11 ...
                 1374 \newcommand{\lexssym}{\exists}
                 1375 \usrmth{LExs}{}{luop}[\lexssym]
                 1376 \mbox{newcommand{\lallsym}{\forall}}
                 1377 \usrmth{LAll}{}{luop}[\lallsym]
     \APSet, ... ...
                 1378 \newcommand{\apsym}{p}
                 1379 \newcommand{\apset}{AP}
                 1380 \cmdmthsetext{AP}[\apset][\apsym]
                 1381 \sl {ap}{{argfun}}
           \sub ...
                 1382 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
                 1383 \usrmth{Cnt}{}{sym}[C]
                 1384 \usrmth{Qnt}{}{sym}[Q]
                 1385 \usrmth{Sym}{}{sym}[\odot]
      \QAE, \QEA ...
                 1386 \usrmth{QAE}{}{sym}[\forall\exists]
                 1387 \usrmth{QEA}{}{sym}[\exists\forall]
    \QntSet, ... ...
                 1388 \newcommand{\qntsym}{\wp}
                 1389 \mbox{ } \mbox{qntset}{Qn}
                 1390 \cmdmthsetext{Qnt}[\qntset][\qntsym]
   \free, \bound ...
                 1391 \usrmth{free}{}{argfun}
                 1392 \usrmth{bound}{}{argfun}
      \dep, \alt ...
                 1393 \usrmth{dep}{}{argfun}
                 1394 \usrmth{alt}{}{argfun}
 \cnf, \dnf, ... ...
                 1395 \cmdtxtabr{cnf}
                 1396 \cmdtxtabr{dnf}
                 1397 \cmdtxtabr{pnf}
                 1398 \cmdtxtabr{nnf}
                 \LogStr, ... ...
                 1400 \mbox{ } \mbox{logstr}{L}
                 1401 \usrmthlatupp{Log}{Str}{str}[\logstr]
    \ValSet, ... ...
                 1402 \mbox{ newcommand{\valsym}{\xi}}
                 1403 \newcommand{\valset}{Val}
                 1404 \verb|\cmdmthsetext{Val}|[\verb|\valset|]| [\valsym]|
    \AsgSet, ... ...
                 1405 \mbox{ \newcommand{\asgsym}{\chi}}
                 1406 \verb|\newcommand{\asgset}{Asg}|
                 1407 \verb|\cmdmthsetext{Asg}| [\texttt{\asgset}] [\texttt{\asgsym}]
```

```
\FOL, ... ...
                                   1409 % First-Order Logic
                                   1410 \cmdtxtoparname{FOL} [Fol]
                                   1411 \cmdtxtoparname{F0}[F0]
                                   1412
                                   1413\ \% Monadic First-Order Logic
                                   1414 \DeclareRobustCommand{\MFOL}
                                   1415 \quad \{\{\text{txtname}\{M\}\}\} \setminus \{\{0\}\}\}
                                   1416 \DeclareRobustCommand{\MFO}
                                   1417 {{\txtname{M}}\F0}
                                   \VarSig, ... ...
                                  1419 \newcommand{\varsig}{V}
                                  1420 \verb|\usrmth|| 1420
                                   1421 \neq 1421 
                                   1422 \newcommand{\varset}{Vr}
                                   1423 \cmdmthsetext{Var}[\varset][\varsym]
                                   1424 \usrmth{var}{}{argfun}[vr]
                                   1425 \operatorname{dim}{{\ dim}}{{\ argfun}[dm]}
\ConSig, ... ...
                                  1426 \newcommand{\consig}{C}
                                   1427 \verb|\usrmth|| atupp{Con}{Sig}{sig}[\consig]
                                   1428 \rightarrow \{c\}
                                   1429 \mbox{ } \mbox{conset}{Cn}
                                   1430 \cmdmthsetext{Con}[\conset][\consym]
                                   1431 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
                                  1432 \neq 1432 
                                   1433 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                                   1434 \newcommand{\funsym}{f}
                                   1435 \newcommand{\funset}{Fn}
                                   1436 \cmdmthsetext{Fun}[\funset][\funsym]
                                   1437 \usrmth{fun}{}{argfun}[fn]
                                   1438 \usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
                                   1439 \newcommand{\tersig}{T}
                                   1440 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
                                   1441 \mbox{ } \mbox{tersym}{t}
                                   1442 \mbox{ } \mbox{Tr}
                                   1443 \verb|\cmdmthsetext{Ter}| [\verb|\terset|]| [\verb|\tersym|]|
                                  1444 \usrmth{ter}{}{argfun}
\RelSig, ... ...
                                  1445 \newcommand{\relsig}{R}
                                   1446 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                                   1447 \newcommand{\relsym}{r}
                                   1448 \mbox{ } \mbox{newcommand{\relset}{R1}}
                                   1449 \cmdmthsetext{Rel}[\relset][\relsym]
                                   1450 \usrmth{rel}{}{argfun}[rl]
                    \skm ...
                                   1451 \usrmth{skm}{}{argfun}
                                   \ConStr, ... ...
                                   1453 \mbox{ } \mbox{command{\constr}{C}}
                                   1454 \usrmthlatupp{Con}{Str}{str}[\constr]
```

```
\FunStr, ... ...
                                                            1455 \mbox{ } \mbox{newcommand{\hrunstr}{F}}
                                                            1456 \verb|\usrmth|| 1456
       \TerStr, ... ...
                                                            1457 \mbox{ } \mbox
                                                            1458 \usrmthlatupp{Ter}{Str}{str}[\terstr]
       \RelStr, ... ...
                                                            1459 \newcommand{\relstr}{R}
                                                            1460 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                                                             \DF, \IF, ... ...
                                                            1462 % Dependence-Friendly Logic
                                                            1463 \cmdtxtoparname{DF}
                                                            1464
                                                            1465 % Independence-Friendly Logic
                                                            1466 \cmdtxtoparname{IF}
                                                            1468 % Dependence/Independence-Friendly Logic
                                                             1469 \cmdtxtoparname{DIF}
                                                            1471 % Dependence Logic
                                                            1472 \cmdtxtoparname{DL}
                                                            1473
                                                            1474 % Team Logic
                                                            1475 \cmdtxtoparname{TL}
                                                            1477 % Alternating Dependence-Friendly Logic
                                                            1478 \cmdtxtoparname{ADF}
                                                             1480 % Alternating Independence-Friendly Logic
                                                             1481 \cmdtxtoparname{AIF}
                                                             1483 % Alternating Dependence/Independence-Friendly Logic
                                                            1484 \cmdtxtoparname{ADIF}
                                                             \LEExs, \LAA11
                                                             1486 \newcommand{\leexssym}{\Sigma}
                                                             1487 \usrmth{LEExs}{}{luop}[\leexssym]
                                                             1488 \newcommand{\laallsym}{\Pi}
                                                             1489 \usrmth{LAA11}{}{luop}[\laallsym]
                                                             \SOL, ...
                                                            1492 % Second-Order Logic
                                                            1493 \cmdtxtoparname{SOL}[Sol]
                                                            1494 \cmdtxtoparname{SO}
                                                            1495
                                                            1496 % Weak Second-Order Logic
                                                             1497 \DeclareRobustCommand{\WSOL}
                                                             1498 \{\{\text{w}}\
                                                             1499 \DeclareRobustCommand{\WSO}
                                                             1500 {{\txtname{W}}\SO}
```

```
1502 % coWeak Second-Order Logic
             1503 \DeclareRobustCommand{\coWSOL}
                 {{\txtname{coW}}\SOL}
             1505 \DeclareRobustCommand{\coWSO}
                  {{\txtname{coW}}\SO}
             1506
             1507
             1508 % Monadic Second-Order Logic
             1509 \DeclareRobustCommand{\MSOL}
                  {{\txtname{M}}\SOL}
             1511 \DeclareRobustCommand{\MSO}
                  {\{\text{txtname}\{M\}\}\S0\}}
             1513
             1514 % Weak Monadic Second-Order Logic
             1515 \DeclareRobustCommand{\WMSOL}
                  {{\txtname{W}}\MSOL}
             1517 \DeclareRobustCommand{\WMSO}
                  {{\txtname{W}}\MSO}
             1518
             1519
             1520 % coWeak Monadic Second-Order Logic
             1521 \DeclareRobustCommand{\coWMSOL}
                  {{\txtname{coW}}\MSOL}
             1523 \DeclareRobustCommand{\coWMSO}
                 {{\txtname{coW}}\MSO}
             \FVarSet, ...
             1526 \newcommand{\fvarsym}{x}
             1527 \newcommand{\fvarset}{FVr}
             1528 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ...
             1529 \newcommand{\svarsym}{X}
             1530 \newcommand{\svarset}{SVr}
             1531 \cmdmthsetext{SVar}[\svarset][\svarsym]
             \TL, \PL, ...
             1534 % Tree Logic
             1535 \cmdtxtoparname{TL}
             1536
             1537\,\mathrm{\%} Weak Tree Logic
             1538 \DeclareRobustCommand{\WTL}
                  {\{\text{txtname}\{W\}}\TL\}
             1539
             1540
             1541 % coWeak Tree Logic
             1542 \DeclareRobustCommand{\coWTL}
                  {{\txtname{coW}}\TL}
             1544
             1545 % Monadic Tree Logic
             1546 \DeclareRobustCommand{\MTL}
                  {\{\text{Xtname}\{M\}\}\}\}
             1547
             1548
             1549 % Weak Monadic Tree Logic
             1550 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1551
             1552
             1553 % coWeak Monadic Tree Logic
             1554 \DeclareRobustCommand{\coWMTL}
```

1501

```
{{\txtname{coW}}\MTL}
             1556
             1557 % Path Logic
             1558 \cmdtxtoparname{PL}
             1560 % Weak Path Logic
             1561 \DeclareRobustCommand{\WPL}
                  {\{\text{txtname}\{W\}}\PL\}
             1562
             1563
             1564 % coWeak Path Logic
             1565 \DeclareRobustCommand{\coWPL}
                  {\{\text{coW}}\
             1567
             1568 % Monadic Path Logic
             1569 \verb|\DeclareRobustCommand{\MPL}|
                  {\{\text{txtname}\{M\}}\PL\}
             1570
             1571
             1572 % Weak Monadic Path Logic
             1573 \DeclareRobustCommand{\WMPL}
                  {{\txtname{W}}\MPL}
             1575
             1576 % coWeak Monadic Path Logic
             1577 \DeclareRobustCommand{\coWMPL}
                 {\{\texttxtname\{coW\}}\MPL\}
             \ML, \GML, ...
             1582 % Modal Logic
             1583 \cmdtxtoparname{ML}
             1585 % Graded Modal Logic
             1586 \DeclareRobustCommand{\GML}
                 {\{\text{txtname}\{G\}\}\setminus ML\}}
             1588
             1589 % Quantified Modal Logic
             1590 \DeclareRobustCommand{\QML}
                  {\{\text{txtname}\{Q\}\}\setminus ML\}}
             1592 \DeclareRobustCommand{\EML}
                 {\ensuremath{\exists}\ML}
             1594 \DeclareRobustCommand{\UML}
                  {\ensuremath{\forall}\ML}
             \Opr ...
             1597 \usrmth{Opr}{}{sym}[Op]
 \DMod, \BMod
             1598 \usrmth{DMod}{}{sym}[\Diamond]
             1599 \usrmth{BMod}{}{sym}[\Box]
   \Exs, \All
             1600 \DeclareRobustCommand{\Exs}
                  {\@ifstar{\@sexs}{\@exs}}
             1602 \DeclareRobustCommand{\@sexs}[1]
             1603 {\mth{\DMod}[#1]}
             1604 \DeclareRobustCommand{\@exs}[1]
```

```
{\mth{\defval{\argmid{\langle}{#1}{\rangle}}}}
                1606 \DeclareRobustCommand{\All}
                1607
                     {\@ifstar{\@sall}{\@all}}
                1608 \DeclareRobustCommand{\@sall}[1]
                     {\mth{\BMod}[#1]}
                1610 \DeclareRobustCommand{\@all}[1]
                     {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
                \KrpStr, ... ...
                1613 \newcommand{\krpstr}{K}
                1614 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
   \WrlSet, ... ...
                1615 \newcommand{\wrlsym}{w}
                1616 \newcommand{\wrlset}{W}
                1617 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
                1618 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel
                ...
                1619 \newcommand{\accsym}{R}
                1620 \cmdmthrel{Acc}[\accsym]
                1621 \cmdmthrel{Trn}[\accsym]
        \labFun ...
                1622 \mbox{ labsym}{\lambda}
                1623 \cmdmthfun{lab}[\labsym]
   \PthSet, ... ...
                1624 \providecommand{\pthsym}{\pi}
                1625 \providecommand{\phithset}{Pth}
                1626 \cmdmthsetext{Pth}[\pthset][\pthsym]
                1627 \usrmth{path}{}{argfun}
                \MC, \GMC, ...
                1629 % Mu Calculus
                1630 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
                1632 % Graded Mu Calculus
                1633 \DeclareRobustCommand{\GMC}
                1634
                     {{\txtname{G}}\MC}
                1635
                1636 % Quantified Mu Calculus
                1637 \DeclareRobustCommand{\QMC}
                     {{\txtname{Q}}\MC}
                1639 \DeclareRobustCommand{\EMC}
                     {\ensuremath{\exists}\MC}
                1641 \DeclareRobustCommand{\UMC}
                1642
                     {\ensuremath{\forall}\MC}
                1643
                1644 % Alternation-Free Mu Calculus
                1645 \DeclareRobustCommand{\AFMC}
                1646
                     {{\txtname{AF}}\MC}
                1647
                1648 % Alternation-Free Graded Mu Calculus
                1649 \DeclareRobustCommand{\AFGMC}
                     {{\txtname{AF}}\GMC}
                1651
                1652 % Quantified Alternation-Free Mu Calculus
                1653 \DeclareRobustCommand{\QAFMC}
```

```
{\{\text{txtname}\{Q\}\}\setminus AFMC\}}
            1655 \DeclareRobustCommand{\EAFMC}
            1656 {\ensuremath{\exists}\AFMC}
            1657 \DeclareRobustCommand{\UAFMC}
            1658
                {\ensuremath{\forall}\AFMC}
            1659
            \PTL, \LTL, ...
            1663 % Propositional Temporal Logic
            1664 \cmdtxtoparname{PTL}
            1665
            1666 % Quantified Propositional Temporal Logic
            1667 \DeclareRobustCommand{\QPTL}
            1668 \{\{\text{txtname}\{Q\}\}\}\}
            1669 \DeclareRobustCommand{\EPTL}
            1670 {\ensuremath{\exists}\PTL}
            1671 \DeclareRobustCommand{\UPTL}
                {\ensuremath{\forall}\PTL}
            1674 % Linear Temporal Logic
            1675 \cmdtxtoparname{LTL}
            1677 % Quantified Linear Temporal Logic
            1678 \DeclareRobustCommand{\QLTL}
                {\{\text{txtname}\{Q\}\}\setminus LTL\}}
            1680 \DeclareRobustCommand{\ELTL}
                {\ensuremath{\exists}\LTL}
            1682 \DeclareRobustCommand{\ULTL}
                {\ensuremath{\forall}\LTL}
            \X, ... ...
            1685 \usrmth{X}{}{sym}[X\,]
            1686 \operatorname{f}{f}{sym}[F\,]
            1687 \usrmth{G}{}{sym}[G\,]
            1688 \usrmth{U}{}{sym}[\,U\,]
            1689 \usrmth{R}{}{sym}[\,R\,]
     \Y, ... ...
            1690 \usrmth{Y}{}{sym}[G\,]
            1691 \mbox{usrmth}{P}{{sym}[P\,]\leq \mbox{SavePilcrow}P}
            1693 \space{1}{sym}[\,S\,]\let\SaveSectionSymbol\S
            1694 \usrmth{B}{}{sym}[\,B\,]
            \PDL, \CTL, ... ...
            1698 % Propositional Dynamic Logic
            1699 \cmdtxtoparname{PDL}
            1700
```

```
1702 \cmdtxtoparname{CTL}
          1703
          1704 % Weak Computation Tree Logic
          1705 \DeclareRobustCommand{\WCTL}
               {\{\text{Xtname}(W)\}\CTL}
         1706
         1707
         1708 % Quantified Computation Tree Logic
          1709 \DeclareRobustCommand{\QCTL}
              {\{\text{txtname}\{Q\}\}\CTL}
          1711 \DeclareRobustCommand{\ECTL}
              {\ensuremath{\exists}\CTL}
          1713 \DeclareRobustCommand{\UCTL}
               {\ensuremath{\forall}\CTL}
          1715
          1716 % Improved Computation Tree Logic
          1717 \cmdtxtoparname{CTLP}[CTL$^{+}$]
          1719 % Weak Improved Computation Tree Logic
          1720 \DeclareRobustCommand{\WCTLP}
          1721
               {{\txtname{W}}\CTLP}
          1723 % Quantified Improved Computation Tree Logic
         1724 \DeclareRobustCommand{\QCTLP}
              {\{\text{txtname}\{Q\}\}\CTLP\}}
         1725
         1726 \DeclareRobustCommand{\ECTLP}
              {\ensuremath{\exists}\CTLP}
          1728 \DeclareRobustCommand{\UCTLP}
         1729
               {\ensuremath{\forall}\CTLP}
          1731 % Full Computation Tree Logic
          1732 \cmdtxtoparname{CTLS}[CTL*]
         1734 % Weak Full Computation Tree Logic
         1735 \DeclareRobustCommand{\WCTLS}
               {{\txtname{W}}\CTLS}
         1736
         1737
          1738 % Quantified Full Computation Tree Logic
          1739 \DeclareRobustCommand{\QCTLS}
              {\{\text{txtname}\{Q\}\}\}\
          1741 \DeclareRobustCommand{\ECTLS}
              {\ensuremath{\exists}\CTLS}
          1743 \DeclareRobustCommand{\UCTLS}
              {\ensuremath{\forall}\CTLS}
          \E, \A ...
          1746 \usrmth{E}{}{sym}
          1747 \usrmth{A}{}{sym}
          \ATL, ... ...
         1750 % Alternating Temporal Logic
         1751 \cmdtxtoparname{ATL}
          1752
         1753 % Weak Alternating Tree Logic
          1754 \DeclareRobustCommand{\WATL}
               {\{\text{Xtname}\{W\}\}\setminus ATL\}}
          1756
```

1701 % Computation Tree Logic

```
1758 \DeclareRobustCommand{\QATL}
            1759 \{\{\text{txtname}\{Q\}\}\} ATL\}
            1760 \DeclareRobustCommand{\EATL}
                 {\ensuremath{\exists}\ATL}
            1762 \DeclareRobustCommand{\UATL}
                 {\ensuremath{\forall}\ATL}
            1763
            1765 % Improved Alternating Temporal Logic
            1766 \cmdtxtoparname{ATLP}[ATL$^{+}$]
            1768 % Weak Improved Alternating Tree Logic
            1769 \DeclareRobustCommand{\WATLP}
                  {{\txtname{W}}\ATLP}
            1770
            1771
            1772 % Quantified Improved Alternating Temporal Logic
            1773 \DeclareRobustCommand{\QATLP}
                  {{\txtname{Q}}\ATLP}
            1775 \DeclareRobustCommand{\EATLP}
                 {\ensuremath{\exists}\ATLP}
            1777 \DeclareRobustCommand{\UATLP}
                 {\ensuremath{\forall}\ATLP}
            1779
            1780\;\text{\%} Full Alternating Temporal Logic
            1781 \cmdtxtoparname{ATLS}[ATL*]
            1783 % Weak Full Alternating Tree Logic
            1784 \DeclareRobustCommand{\WATLS}
            1785
                  {{\txtname{W}}\ATLS}
            1787 % Quantified Full Alternating Temporal Logic
            1788 \DeclareRobustCommand{\QATLS}
                 {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
            1790 \DeclareRobustCommand{\EATLS}
                 {\ensuremath{\exists}\ATLS}
            1791
            1792 \DeclareRobustCommand{\UATLS}
                 {\ensuremath{\forall}\ATLS}
            \EExs, \AAll
            1795 \DeclareRobustCommand{\EExs}[1]
            1796 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}{\rangle\!\rangle}}}
            1797 \DeclareRobustCommand{\AAll}[1]
                 \CGS ...
            1800 \cmdtxtname{CGS}
\CGSStr, ... ...
            1801 \newcommand{\cgsstr}{G}
            1802 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
            1803 \mbox{ \newcommand{\agnsym}{a}}
            1804 \newcommand{\agnset}{Ag}
            1805 \cmdmthsetext{Agn}[\agnset][\agnsym]
\ActSet, ... ...
            1806 \mbox{ \newcommand{\actsym}{c}}
            1807 \newcommand{\actset}{Ac}
            1808 \cmdmthsetext{Act}[\actsym]
```

1757 % Quantified Alternating Temporal Logic

```
\PosSet, ... ...
                  1809 \providecommand{\possym}{v}
                  1810 \providecommand{\posset}{Ps}
                  1811 \cmdmthsetext{Pos}[\posset][\possym]
                  1812 \cmdmthsymelm{ipos}[\possym_{I}]
                  1813 \cmdmthsymelm{fpos}[\possym_{F}]
                  1814 \cmdmthset{PPos}[\posset_{\PlrSym}]
                  1815 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                  1816 \cmdmthset{OPos}[\posset_{\OppSym}]
                  1817 \cmdmthsymelm{opos}[\possym_{\OppSym}]
    \SttSet, ... ...
                  1818 \newcommand{\sttsym}{s}
                  1819 \newcommand{\sttset}{St}
                  1820 \cmdmthsetext{Stt}[\sttset][\sttsym]
                  1821 \cmdmthset{IStt}[\sttset_{I}]
                  1822 \cmdmthsymelm{istt}[\sttsym_{I}]
                  1823 \cmdmthset{FStt}[\sttset_{F}]
                  1824 \cmdmthsymelm{fstt}[\sttsym_{F}]
    \DecSet, ... ...
                  1825 \mbox{ } \mbox{decsym}{d}
                  1826 \newcommand{\decset}{Dc}
                  1827 \cmdmthsetext{Dec} [\decset] [\decsym]
\movFun, \movRel
                  1828 \newcommand{\movsym}{\tau}
                  1829 \cmdmthfun{mov} [\movsym]
                  1830 \cmdmthrel{mov}[\movsym]
\trnFun, \trnRel
                  1831 \newcommand{\trnsym}{\delta}
                  1832 \cmdmthfun{trn}[\trnsym]
                  1833 \cmdmthrel{trn}[\trnsym]
         \PrfSet
                  1834 \providecommand{\prfsym}{\xi}
                  1835 \providecommand{\prfset}{Prf}
                  1836 \cmdmthsetext{Prf}[\prfset][\prfsym]
    \HstSet, ... ...
                  1837 \providecommand{\hstsym}{\varpi}
                  1838 \providecommand{\hstset}{Hst}
                  1839 \cmdmthsetext{Hst}[\hstset][\hstsym]
                  1840 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                  1841 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                  1842 \cmdmthset{OHst}[\hstset_{\OppSym}]
                  1843 \mbox{ \cmdmthsymelm{ohst}[\hstsym_{\corr}]}
                  \PlaySet, ... ...
                  1845 \providecommand{\playsym}{\pi}
                  1846 \providecommand{\playset}{Play}
                  1847 \cmdmthsetext{Play}[\playset][\playsym]
                  1848 \usrmth{play}{}{argfun}
    \PlnSet, ...
                  1849 \providecommand{\plnsym}{\rho}
                  1850 \providecommand{\plnset}{Pln}
                  1851 \cmdmthsetext{Pln}[\plnset][\plnsym]
                  1852 \cmdmthset{PPln}[\plnset_{\PlrSym}]
                  1853 \cmdmthsymelm{pPln}[\plnsym_{\PlrSym}]
                  1854 \cmdmthset{OPln}[\plnset_{\OppSym}]
                  1855 \cmdmthsymelm{oPln}[\plnsym_{\OppSym}]
```

```
\StrSet, ... ...
              1856 \providecommand{\strsym}{\sigma}
              1857 \providecommand{\strset}{Str}
              1858 \verb|\cmdmthsetext{Str}| [\verb|\strset|] [\|\strsym|]
              1859 \cmdmthset{PStr}[\strset_{\PlrSym}]
              1860 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
              1861 \cmdmthset{OStr}[\strset_{\OppSym}]
              1862 \mbox{ \cmdmthsymelm{ostr} [\strsym_{\oppSym}]}
              \PL, ...
              1864 % Plan Logic
              1865 \cmdtxtoparname{PL}
              1866
              1867 \DeclareRobustCommand{\EPL}
                   {\ensuremath{\exists}\PL}
              1868
              1869 \DeclareRobustCommand{\UPL}
                    {\ensuremath{\forall}\PL}
              1870
              1871
              1872 \DeclareRobustCommand{\FPL}
                   {\{\text{txtname}\{F\}}\PL\}
              1873
              1874
              1875 \DeclareRobustCommand{\EFPL}
                   {\ensuremath{\exists}\FPL}
              1876
              1877 \DeclareRobustCommand{\UFPL}
              1878
                    {\ensuremath{\forall}\FPL}
              1880 % One-Goal Plan Logic
              1881 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
                    {\PL[#1][#2][1g\arglef{,}{#3}]}
              1883
              1884 \DeclareRobustCommand{\EOGPL}
                    {\ensuremath{\exists}\OGPL}
              1886 \DeclareRobustCommand{\UOGPL}
                    {\ensuremath{\forall}\OGPL}
              1887
              1888
              1889 \DeclareRobustCommand{\FOGPL}
                    {{\txtname{F}}\OGPL}
              1890
              1891
              1892 \DeclareRobustCommand{\EFOGPL}
                   {\ensuremath{\exists}\FOGPL}
              1894 \DeclareRobustCommand{\UFOGPL}
                   {\ensuremath{\forall}\FOGPL}
              1896
              1897 % Conjunctive-Goal Plan Logic
              1898 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
                   {\PL[#1][#2][cg\arglef{,}{#3}]}
              1900
              1901 \DeclareRobustCommand{\ECGPL}
                   {\ensuremath{\exists}\CGPL}
              1903 \DeclareRobustCommand{\UCGPL}
                    {\ensuremath{\forall}\CGPL}
              1905
              1906 \DeclareRobustCommand{\FCGPL}
              1907
                   {{\txtname{F}}\CGPL}
              1908
              1909 \DeclareRobustCommand{\EFCGPL}
                   {\ensuremath{\exists}\FCGPL}
              1910
              1911 \DeclareRobustCommand{\UFCGPL}
              1912
                   {\ensuremath{\forall}\FCGPL}
              1914 % Disjunctive-Goal Plan Logic
```

1915 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]

```
1916
      {\PL[#1][#2][dg\arglef{,}{#3}]}
1917
1918 \DeclareRobustCommand{\EDGPL}
1919
      {\ensuremath{\exists}\DGPL}
1920 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
1921
1922
1923 \DeclareRobustCommand{\FDGPL}
      {{\txtname{F}}\DGPL}
1924
1926 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
1928 \DeclareRobustCommand{\UFDGPL}
      {\ensuremath{\forall}\FDGPL}
1929
1930
1931 % Alternating-Goal Plan Logic
1932 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][ag\arglef{,}{#3}]}
1933
1934
1935 \DeclareRobustCommand{\EAGPL}
      {\ensuremath{\exists}\AGPL}
1937 \DeclareRobustCommand{\UAGPL}
1938
      {\ensuremath{\forall}\AGPL}
1939
1940 \DeclareRobustCommand{\FAGPL}
      {\{\text{txtname}\{F\}\}\setminus AGPL\}}
1941
1942
1943 \DeclareRobustCommand{\EFAGPL}
      {\ensuremath{\exists}\FAGPL}
1945 \DeclareRobustCommand{\UFAGPL}
      {\ensuremath{\forall}\FAGPL}
1946
1948 % Extended-Goal Plan Logic
1949 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
1950
      {\PL[#1][#2][eg\arglef{,}{#3}]}
1951
1952 \DeclareRobustCommand{\EEGPL}
      {\ensuremath{\exists}\EGPL}
1954 \DeclareRobustCommand{\UEGPL}
      {\ensuremath{\forall}\EGPL}
1955
1957 \DeclareRobustCommand{\FEGPL}
1958
      {\{\text{txtname}\{F\}\}\setminus EGPL\}}
1960 \DeclareRobustCommand{\EFEGPL}
      {\ensuremath{\exists}\FEGPL}
1962 \DeclareRobustCommand{\UFEGPL}
      {\ensuremath{\forall}\FEGPL}
1963
1965 % Boolean-Goal Plan Logic
1966 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][bg\arglef{,}{#3}]}
1969 \DeclareRobustCommand{\EBGPL}
      {\ensuremath{\exists}\BGPL}
1971 \DeclareRobustCommand{\UBGPL}
1972
      {\ensuremath{\forall}\BGPL}
1973
1974 \DeclareRobustCommand{\FBGPL}
      {\{\texttxtname}_{F}\}\BGPL}
1975
1976
1977 \DeclareRobustCommand{\EFBGPL}
      {\ensuremath{\exists}\FBGPL}
```

```
1979 \DeclareRobustCommand{\UFBGPL}
          1980
                {\ensuremath{\forall}\FBGPL}
          1981
          1982 % Undefined-Goal Plan Logic
          1983 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
                {\PL[#1][#2][xg\arglef{,}{#3}]}
          1984
          1985
          1986 \DeclareRobustCommand{\EXGPL}
                {\ensuremath{\exists}\XGPL}
          1988 \DeclareRobustCommand{\UXGPL}
                {\ensuremath{\forall}\XGPL}
          1991 \DeclareRobustCommand{\FXGPL}
                {\{\text{txtname}\{F\}\}\setminus XGPL\}}
          1992
          1993
          1994 \DeclareRobustCommand{\EFXGPL}
                {\ensuremath{\exists}\FXGPL}
          1996 \DeclareRobustCommand{\UFXGPL}
                {\ensuremath{\forall}\FXGPL}
\SL, ... ...
          1998 % Strategy Logic
          1999 \cmdtxtoparname{SL}
          2000
          2001 \DeclareRobustCommand{\ESL}
               {\ensuremath{\exists}\SL}
          2002
          2003 \DeclareRobustCommand{\USL}
          2004
                {\ensuremath{\forall}\SL}
          2005
          2006 \DeclareRobustCommand{\FSL}
                {\{\text{txtname}\{F\}\}\SL\}}
          2007
          2008
          2009 \DeclareRobustCommand{\EFSL}
                {\ensuremath{\exists}\FSL}
          2011 \DeclareRobustCommand{\UFSL}
               {\ensuremath{\forall}\FSL}
          2012
          2013
          2014 % One-Goal Strategy Logic
          2015 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][1g\arglef{,}{#3}]}
          2017
          2018 \DeclareRobustCommand{\EOGSL}
                {\ensuremath{\exists}\OGSL}
          2020 \DeclareRobustCommand{\UOGSL}
                {\ensuremath{\forall}\OGSL}
          2021
          2022
          2023 \DeclareRobustCommand{\FOGSL}
                {\{\text{txtname}\{F\}\}\setminus GGSL}
          2024
          2025
          2026 \DeclareRobustCommand{\EFOGSL}
                {\ensuremath{\exists}\FOGSL}
          2028 \DeclareRobustCommand{\UFOGSL}
          2029
                {\ensuremath{\forall}\FOGSL}
          2030
          2031 \% Conjunctive-Goal Strategy Logic
          2032 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][cg\arglef{,}{#3}]}
          2033
          2034
          2035 \DeclareRobustCommand{\ECGSL}
                {\ensuremath{\exists}\CGSL}
          2037 \DeclareRobustCommand{\UCGSL}
                {\ensuremath{\forall}\CGSL}
          2040 \DeclareRobustCommand{\FCGSL}
```

```
2041
      {{\txtname{F}}\CGSL}
2042
2043 \DeclareRobustCommand{\EFCGSL}
2044
      {\ensuremath{\exists}\FCGSL}
2045 \DeclareRobustCommand{\UFCGSL}
      {\ensuremath{\forall}\FCGSL}
2046
2047
2048 % Disjunctive-Goal Strategy Logic
2049 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2051
2052 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
2054 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
2055
2056
2057 \DeclareRobustCommand{\FDGSL}
      {{\txtname{F}}\DGSL}
2058
2059
2060 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
2062 \DeclareRobustCommand{\UFDGSL}
2063
      {\ensuremath{\forall}\FDGSL}
2064
2065 % Alternating-Goal Strategy Logic
2066 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
2067
      {\SL[#1][#2][ag\arglef{,}{#3}]}
2068
2069 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
2071 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
2073
2074 \DeclareRobustCommand{\FAGSL}
      {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2075
2076
2077 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
2079 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
2082 % Extended-Goal Strategy Logic
2083 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
2085
2086 \DeclareRobustCommand{\EEGSL}
      {\ensuremath{\exists}\EGSL}
2088 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
2089
2090
2091 \DeclareRobustCommand{\FEGSL}
      {{\txtname{F}}\EGSL}
2092
2094 \DeclareRobustCommand{\EFEGSL}
     {\ensuremath{\exists}\FEGSL}
2096 \DeclareRobustCommand{\UFEGSL}
2097
      {\ensuremath{\forall}\FEGSL}
2098
2099 % Boolean-Goal Strategy Logic
2100 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
2101
      {\SL[#1][#2][bg\arglef{,}{#3}]}
2102
2103 \DeclareRobustCommand{\EBGSL}
```

```
{\ensuremath{\exists}\BGSL}
            2105 \DeclareRobustCommand{\UBGSL}
            2106
                 {\ensuremath{\forall}\BGSL}
            2107
            2108 \DeclareRobustCommand{\FBGSL}
                 {{\txtname{F}}\BGSL}
            2109
            2110
            2111 \DeclareRobustCommand{\EFBGSL}
            2112 {\ensuremath{\exists}\FBGSL}
            2113 \DeclareRobustCommand{\UFBGSL}
                 {\ensuremath{\forall}\FBGSL}
            2116 % Nested-Goal Strategy Logic
            2117 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][ng\arglef{,}{#3}]}
            2119
            2120 \DeclareRobustCommand{\ENGSL}
                 {\ensuremath{\exists}\NGSL}
            2121
            2122 \DeclareRobustCommand{\UNGSL}
                 {\ensuremath{\forall}\NGSL}
            2125 \DeclareRobustCommand{\FNGSL}
            2126
                 {\{\text{txtname}\{F\}\}\setminus KGSL\}}
            2127
            2128 \DeclareRobustCommand{\EFNGSL}
                 {\ensuremath{\exists}\FNGSL}
            2129
            2130 \DeclareRobustCommand{\UFNGSL}
                 {\ensuremath{\forall}\FNGSL}
            2132
            2133 % Undefined-Goal Strategy Logic
            2134 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][xg\arglef{,}{#3}]}
            2136
            2137 \DeclareRobustCommand{\EXGSL}
                {\ensuremath{\exists}\XGSL}
            2139 \verb|\DeclareRobustCommand{\UXGSL}|
                 {\ensuremath{\forall}\XGSL}
            2140
            2141
            2142 \DeclareRobustCommand{\FXGSL}
                 {\{\text{xtname}\{F\}\}\}\}
            2143
            2145 \DeclareRobustCommand{\EFXGSL}
            2146 {\ensuremath{\exists}\FXGSL}
            2147 \DeclareRobustCommand{\UFXGSL}
                 {\ensuremath{\forall}\FXGSL}
            \BndSet, ... ...
            2150 \newcommand{\bndsym}{\flat}
            2151 \newcommand{\bndset}{Bn}
            2152 \cmdmthsetext{Bnd} [\bndset] [\bndsym]
            2153 \usrmth{bnd}{}{argfun}
       \psn ...
            2154 \usrmth{psn}{}{argfun}
            \nxt ...
            2156 \usrmth{nxt}{}{argfun}
```

```
2162 \ifaut@
                                                                                             \DFA, ... ...
                                                                                            2164 \texttt{VFA} \texttt{OFA} \texttt{OFA} \texttt{AFA} \texttt{
                                                                                            2165
                                                                                            {\tt 2166 \cmdtxtoparname{DWA}\cmdtxtoparname{AWA}\cmdtxtoparname{UWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{
                                                                                            2168 \cmdtxtoparname{DFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}
                                                                                            2169 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}
                                                                                            2170 \cmdtxtoparname{DBW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
                                                                                            2171 \cmdtxtoparname{DCW}\cmdtxtoparname{UCW}\cmdtxtoparname{ACW}
                                                                                            2172 \verb|\cmdtxtoparname{PPW}\cmdtxtoparname{PW}\\ cmdtxtoparname{QPW}\\ cmdtxtoparname{APW}\\ cmdtxtoparname{PPW}\\ c
                                                                                            2173 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{NRW}\cmdtxtoparname{ARW}|
                                                                                            2174 \verb|\cmdtxtoparname{NSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}|
                                                                                            2175 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{MW}| cmdtxtoparname{AMW}| cm
                                    \GFG, ... ...
                                                                                           2176 \cmdtxtoparname{GFG}
                                                                                            2178 \cmdtxtoparname{PD}
                                                                                            2179 \cmdtxtoparname{PN}
                                                                                            2181 \cmdtxtoparname{LD}
                                                                                            2182 \verb|\cmdtxtoparname{LN}|
                                                                                             \AutName, ... ...
                                                                                            2184 \newcommand{\autname}{A}
                                                                                             2185 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                                                             2186 \mbox{ }\mbox{newcommand{\autset}{Aut}}
                                                                                            2187 \cmdmthset{Aut}[\autset]
                                          \WAutSet ...
                                                                                             2188 \newcommand{\wautset}{WAut}
                                                                                             2189 \cmdmthset{WAut}[\wautset]
                    \SymSet, ... ...
                                                                                            2190 \mbox{newcommand{\symsym}{\sigma}}
                                                                                             2191 \mbox{ \newcommand{\symset}{\Sigma}}
                                                                                            2192 \cmdmthsetext{Sym}[\symset][\symsym]
                    \SttSet, ...
                                                                                           2193 \def\sttsym{q}
                                                                                            2194 \def\sttset{Q}
                                                                                            2195 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                                                            2196 \cmdmthset{IStt}[\sttset_{I}]
                                                                                             2197 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                                                             2198 \cmdmthset{FStt}[\sttset_{F}]
                                                                                             2199 \cmdmthsymelm{fstt}[\sttsym_{F}]
\trnFun, \trnRel
                                                                                            2200 \def\trnsym{\delta}
                                                                                             2201 \cmdmthfun{trn}[\trnsym]
                                                                                            2202 \cmdmthrel{trn}[\trnsym]
```

```
\WrdSet, ... ...
                    2204 \mbox{ } \mbox{wrdsym}{w}
                    2205 \mbox{ \newcommand{\wrdset}{Wr}}
                    2206 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
           \Lang ...
                    2207 \usrmth{Lang}{}{argfun}[L]
                     \DTA, ... ...
                    2209 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{UTA}\cmdtxtoparname{ATA}|
                    2211 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                     2212 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}\cmdtxtoparname{UWT}\cmdtxtoparname{AWT}
                     2213 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                     2214 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                     2215 \cmdtxtoparname{DPT}\cmdtxtoparname{MPT}\cmdtxtoparname{MPT}\cmdtxtoparname{APT}
                     2216 \verb|\cmdtxtoparname{NRT}| cmdtxtoparname{URT}| cmdtxtoparname{ART}| cmdtxtoparname{ART}|
                     2217 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| \\
                     2218 \cmdtxtoparname{DMT}\cmdtxtoparname{MMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}
                     \TAutSet ...
                    2220 \newcommand{\tautset}{TAut}
                     2221 \cmdmthset{TAut}[\tautset]
 \DirSet, ... ...
                    2222 \newcommand{\dirsym}{d}
                    2223 \newcommand{\dirset}{\Lambda}
                    2224 \cmdmthsetext{Dir}[\dirset][\dirsym]
                    \TreeSet, ... ...
                    2226 \newcommand{\treesym}{T}
                    2227 \newcommand{\treeset}{Tr}
                     2228 \cmdmthsetext{Tree} [\treeset] [\treesym]
            \wot ...
                    2229 \usrmth{wot}{}{argfun}
                     2235 \iffrm@
              2236 %%...
                     2242 \iffig@
                     2243 \RequirePackage{tikz}
                     2244 \usetikzlibrary{arrows, shapes, patterns, graphs, matrix}
```

```
2246 [draw = none, fill = none, black, thin]
         2247 \tikzstyle{every edge} +=
         2248 [black, thick]
         2249 \tikzstyle{noall} =
         2250 [draw = none, fill = none]
         2251 \tikzstyle{nodraw} =
         2252 [draw = none, fill = white]
         2253 \tikzstyle{nofill} =
         2254 [draw = black, fill = none]
         2255 \ifwrpfig@
         2256 % Wrapfig Package
            \RequirePackage{wrapfig}
         2257
         2258 \fi
         2259 \fi
         2264 \iftab@
      2265 %%...
         2266 \fi
         2271 \ifalg@
         2272 \RequirePackage[ruled,vlined]{algorithm2e}
         2273 \DontPrintSemicolon
         2274 \SetInd{0.25em}{0.5em}
         2275 \verb|\setlength{\algomargin}{1.25em}|
 \Signature
         2276 \SetKw{Signature}{signature}
 \Macro, ... ...
         2277 \SetKwFor{Macro}{macro}{}}
         2278 \SetKwFor{Function}{function}{}}
         2279 \SetKwFor{Procedure}{procedure}{}{}
     \Let ...
         2280 \Text{SetKwFor{Let}{in}{}}
\True, \False ...
         2281 \SetKw{True}{true}
         2282 \SetKw{False}{false}
 \From, ... ...
         2283 \SetKw{From}{from}
         2284 \text{SetKw{To}{to}}
         2285 \SetKw{DownTo}{downto}
 \GoTo, ... ...
         2286 \SetKw{GoTo}{goto}
         2287 \SetKw{Break}{break}
         2288 \SetKw{Continue}{continue}
```

2245 \tikzstyle{every node} =

2 Change History

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

3 Index

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

```
Symbols
                                   945, 949, 953, 957, 961,
                                                           \@sall ..... 1607, 1608
                                   965, 969, 973, 977, 982,
   421, 445, 897,
                                                           \@scard ..... 1006, 1009
      984, 992, 994, 996, 1796
                                   984, 990, 992, 998, 1000,
                                                           \@sceil ..... 1117, 1120
                                   1006, 1099, 1105, 1111,
   ..... 850, 851
                                                           \@sdenot .... 909, 912
                                   1117, 1138, 1601, 1607
   \@sequence .....
\#
                             \@len ..... 1138, 1139, 1141
   . 986, 988, 994, 996, 1127,
                                                           \@sequencel .....
                             1130, 1131, 1685, 1686,
                                                           \@sequencer .... 941
                             \@newmtharg \dots \dots 419, 420
                                                           \@sequencex ......
      1687, 1688, 1689, 1690,
      1691, 1692, 1693, 1694
                             \c0newmthargsty .... 425, 426
                                                           \@sequencexl .....
                             \c0newmthoarg ..... 431, 432
\... <u>2236, 2265</u>
                                                           \@sequencexr ......
                             \c0newmthoargsty .... 437, 438
\@abs ..... 1099, 1100
                                                           \@set .... 982, 984, 985
                             \ensuremath{\mbox{Qnewmthopar}} ..... 455, 456
\@all ..... 1607, 1610
                                                           \@setl .... 990, 992, 993
                                                           \@setr ..... 998, 1000, 1001
\@card ..... 1006, 1007
                             \c0newmthoparsty .... 461, 462
\@ceil ..... 1117, 1118
                             \@newmthpar ..... 443, 444
                                                           \@sexs ..... 1601, 1602
                             \ensuremath{\mbox{\tt Qnewmthparsty}} ..... 449,\,450
                                                           \@sfloor ..... 1111, 1114
\@denot ..... 909, 910
                             \c0newmthsty ..... 413, 414
\@exs ..... 1601, 1604
                                                           \@slen ..... 1138, 1143
                             \@newtxt ..... 294, 295
                                                           \c0snewmth ..... 407, 410
\@floor ..... 1111, 1112
                             \conewtxtarg ..... 306, 307
                                                           \@snewmtharg \dots 419, 422
\@for ..... 171, 175
                             \conewtxtargsty .... 312, 313
                                                           \@snewmthargsty .... 425, 428
\@ifstar 294, 300, 306, 312,
                             \conewtxtoarg ..... 318, 319
                                                           \c0snewmthoarg ..... 431, 434
      318, 324, 330, 336, 342,
      348, 357, 359, 361, 363,
                             \conewtxtoargsty .... 324, 325
                                                           \@snewmthoargsty .... 437, 440
                             \ensuremath{\verb|Conewtxtopar|}\ \dots \ 342, 343
                                                           \@snewmthopar \dots 455, 458
      365, 371, 376, 381, 386,
                             \conewtxtoparsty .... 348, 349
                                                           \@snewmthoparsty .... 461, 464
      391, 399, 407, 413, 419,
                             \@snewmthpar .... 443, 446
      425, 431, 437, 443, 449,
      455, 461, 470, 472, 474,
                             \conewtxtparsty .... 336, 337
                                                           \@snewmthparsty .... 449, 452
      476, 478, 484, 487, 490,
                             \ensuremath{\verb|Conewtxtsty|} \ldots \ldots 300, 301
                                                           \@snewmthsty ..... 413, 416
      493, 496, 502, 875, 879,
                             \@norm ..... 1105, 1106
                                                           \@snewtxt ..... 294, 297
      909, 924, 933, 937, 941,
                             \@sabs ..... 1099, 1102
                                                           \@snewtxtarg ..... 306, 309
```

\@snewtxtargsty 312, 315	\Alpha, <u>139</u>	\bgroup 166
\@snewtxtoarg 318, 321	\aMat,	\BGSL 2100, 2104, 2106, 2109
\@snewtxtoargsty 324, 327	\amsdef@false 17	\BMod 1609, 1611
\@snewtxtopar 342, 345	\amsdef@true 16	\bndset 2151, 2152
\@snewtxtoparsty 348, 351	\amsthm@false 21	\BndSet, <u>2150</u>
\@snewtxtpar 330, 333	\amsthm@true 20	\bndsym 2150, 2152
\@snewtxtparsty 336, 339	\AName, 586	\boldsymbol 777, 790
\@snewtxtsty 300, 303	\Aomega,_\AOmega 1043	\bot 1360
\Qsnorm 1105, 1108	\Aomicron, \(\dots \)	\Box
\@ssequence 933	\Aposteriori <u>834</u>	\boxminus
\@ssequencel 937	\aposteriori <u>812</u>	\bst, <u>1126</u>
\@ssequencer 941	\Apriori <u>833</u>	
\@ssequencex 945	\apriori <u>811</u>	\mathbf{C}
\@ssequencexl 949	\apset 1379, 1380	\card <u>1005</u>
\@ssequencexr 953	\APSet, <u>1378</u>	\caselower 663
\@sset 982, 984, 987	\apsym 1378, 1380	\cdot 1012
\@ssetl 990, 992, 995	\arabic 2292	\cequiv, _□ <u>903</u>
\@ssetr 998, 1000, 1003	\aRel, 670	\cf 813
\@stuple 957	\arenaname 1232, 1233	\CGPL 1898, 1902, 1904, 1907
\@stuplel 961	\ArenaName,	\CGS 1800
\@stupler 965	\arg 1123	\CGSL 2032, 2036, 2038, 2041
		\cgsstr 1801, 1802
\@stuplex	\arglef <u>152,</u> 159, 421,	-
\@stuplex1 973	445, 1882, 1899, 1916,	\CGSStr,
\@stuplexr 977	1933, 1950, 1967, 1984,	\chgbar@false 44
\@svec 924, 927	2016, 2033, 2050, 2067,	\chgbar@true 45
\@tuple 957	2084, 2101, 2118, 2135	\chi 1405
\@tuplel 961	\argmid . 156 , 308, 310, 332,	\circ 1027
\@tupler 965	334, 421, 423, 445, 447,	\cmdmth $482, 498, 738, 739, 745$
\@tuplex 969	911, 913, 986, 988, 994,	\cmdmthall $497, 585, 598, 611,$
\@tuplex1 973	996, 1002, 1004, 1008,	624, 637, 650, 669, 682,
\@tuplexr 977	1010, 1101, 1103, 1107,	695, 708, 750, 763, 777, 790
\@vec 924, 925	1109, 1113, 1115, 1119,	\cmdmtharg 485, 498
,		-
	1121 11411 1142 1144	\cmdmthargcls 615
\^ 852, 854	1121, 1140, 1142, 1144, 1605 1611 1796 1798	\cmdmthargels 615
\'	1605, 1611, 1796, 1798	\cmdmthargelm $712,726$
\' 849	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\label{eq:cmdmthargelm} $$\operatorname{cmdmthargelm} \ \dots \ \underline{712}, 726$ \\ \operatorname{cmdmthargfam} \ \dots \ \underline{602}$
A 849	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\cmdmthargelm
\'	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm
\(`\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589
A \abs, \(\)\norm \(\) \\ \\ \abs, \(\)\norm \(\) \\ \\ \\ \accsym \(\) \\ \\ \\ \)\norm \(\) \\ \\ \\ \\ \\ \)\norm \(\) \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808	1605, 1611, 1796, 1798 \argrig 154 \argsep 158, 163, 986, 988, 1090, 1092, 1094, 1096 \asgset 651 \asgset 1405, 1405 \asgsym 1405, 1407	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargsnt 754
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725
A \abs,_\norm 1098 \AccRel,_\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls,_\ 612 \actset 1807, 1808 \ActSet,_\ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm,_\ 709	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724
A \abs,_\norm	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 628 \cmdmthargsig 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794
A \abs,_\norm	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthelm 710, 723
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthelm 710, 723 \cmdmthfam 600
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthelm 710, 723 \cmdmthfam 600 \cmdmthfrm 765
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 810 \aFrm, □ 764	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthelm 710, 723 \cmdmthfam 600 \cmdmthfrm 765 \cmdmthfun 684,
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 764 \aFun, □ 683	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthelm 710, 723 \cmdmthfam 600 \cmdmthfun 684, 1244, 1253, 1317, 1336,
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 683 \agnset 1804, 1805	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthelm 710, 723 \cmdmthfam 600 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 683 \agnset 1804, 1805 \AgnSet, □ 1803	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfrm 765 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 683 \agnset 1804, 1805 \AgnSet, □ 1803 \agnsym 1803, 1805	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfum 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742 \cmdmthlrel 746
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 683 \agnset 1804, 1805 \AgnSet, □ 1803 \agnsym 1803, 1805 \AGPL 1932, 1936, 1938, 1941	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfm 765 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742 \cmdmthlrel 746 \cmdmthluop, □ 740
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 683 \agnset 1804, 1805 \AgnSet, □ 1803 \agnsym 1803, 1805	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfum 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742 \cmdmthlrel 746
A \abs, □\norm 1098 \AccRel, □\TrnRel 1619 \accsym 1619, 1620, 1621 \ACls, □ 612 \actset 1807, 1808 \ActSet, □ 1806 \actsym 1806, 1808 \addtocounter 2291, 2292 \adhoc 809 \aElm, □ 709 \AFam, □ 599 \AFGMC 1645, 1654, 1656, 1658 \Afortiori 832 \afortiori 832 \afortiori 810 \aFrm, □ 764 \aFun, □ 683 \agnset 1804, 1805 \AgnSet, □ 1803 \agnsym 1803, 1805 \AGPL 1932, 1936, 1938, 1941	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfm 765 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742 \cmdmthlrel 746 \cmdmthluop, □ 740
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthcls 613 \cmdmthelm 710, 723 \cmdmthfam 600 \cmdmthfm 765 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742 \cmdmthlrel 746 \cmdmthluop,□ 740 \cmdmthhmat 779
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig <	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargsymelm 724 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfam 600 \cmdmthfm 765 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlbop 742 \cmdmthlrel 746 \cmdmthluop,□ 740 \cmdmthname 587 \cmdmthhoarg 488, 498
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfam 600 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlrel 742 \cmdmthlvop 742 \cmdmthluop,□ 740 \cmdmthname 587 \cmdmthhoarg 488, 498 \cmdmthhoargcls 617
A \abs,_\\norm	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargsnt 754 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargsymelm 724 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfam 600 \cmdmthfrm 765 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlop 742 \cmdmthlrel 746 \cmdmthluop,□ 740 \cmdmthname 587 \cmdmthoargelm 488, 498 \cmdmthoargelm 714, 729
A \abs, □\norm	1605, 1611, 1796, 1798 \argrig	\cmdmthargelm 712, 726 \cmdmthargfam 602 \cmdmthargfrm 767 \cmdmthargfun 686 \cmdmthargmat 781 \cmdmthargname 589 \cmdmthargrel 673 \cmdmthargset 654 \cmdmthargsig 628 \cmdmthargstr 641 \cmdmthargsym 699, 725 \cmdmthargsymelm 724 \cmdmthargvec 794 \cmdmthcls 613 \cmdmthfam 600 \cmdmthfam 600 \cmdmthfun 684, 1244, 1253, 1317, 1336, 1623, 1829, 1832, 2201 \cmdmthlrel 742 \cmdmthlvop 742 \cmdmthluop,□ 740 \cmdmthname 587 \cmdmthhoarg 488, 498 \cmdmthhoargcls 617

\cmdmthoargfun 688	\cmdmthsnt <u>752</u>	$ \column{ \$
\cmdmthoargmat $\dots ag{783}$	\cmdmthstr <u>639</u>	\cmdtxtparcom $\frac{574}{1}$
\cmdmthoargname $\dots \dots 591$	\cmdmthsym	\cmdtxtpardef $\dots \dots 537$
\cmdmthoargrel $\underline{675}$. <u>697</u> , 722, 1229, 1231,	\cmdtxtparname $\underline{562}$
\cmdmthoargset $\dots \qquad \underline{656}$	1311, 1313, 1330, 1332	\cmodels, <u>899</u>
\cmdmthoargsig $\underline{630}$	\cmdmthsymelm	\cmp <u>1026</u>
\cmdmthoargsnt 756	721, 1237, 1238, 1240,	\cnf,_\dnf, <u>1395</u>
\cmdmthoargstr <u>643</u>	1242, 1263, 1265, 1275,	\Cnt, _\Qnt, _\Sym <u>1383</u>
\cmdmthoargsym <u>701</u> , 728	1277, 1618, 1812, 1813,	\coimplies, \dots 894
\cmdmthoargsymelm 727	1815, 1817, 1822, 1824,	\Coloneqq 879
\cmdmthoargvec 796	1841, 1843, 1853, 1855,	\coloneqq 879
\cmdmthopar $\frac{494}{498}$	1860, 1862, 2197, 2199	\com@false 56, 77, 79
\cmdmthoparcls 621	\cmdmthvec	\com@true 78
\cmdmthoparelm $\frac{718}{735}$	\cmdtxt 369, 395	\conset 1429, 1430
\cmdmthoparfam 608	\cmdtxtabr 543,	\consig 1426, 1427
\cmdmthoparfrm 773	809, 810, 811, 812, 813,	\ConSig, _□ 1426
\cmdmthoparfun 692	814, 815, 816, 817, 818,	\constr 1453, 1454
\cmdmthoparmat	819, 820, 821, 822, 823,	\ConStr, <u>1453</u>
<u> </u>	824, 825, 826, 827, 828,	\consym 1428, 1430
	829, 830, 832, 833, 834,	\Contd 865
\cmdmthoparrel 679	835, 836, 837, 838, 839,	\contd 857
\cmdmthoparset <u>660</u>	840, 841, 842, 843, 844,	\coWMPL 1577
\cmdmthoparsig 634	845, 849, 850, 851, 852,	\coWMSO 1523
\cmdmthoparsnt $\dots \frac{760}{647}$	854, 856, 857, 858, 859,	\coWMSOL 1521
\cmdmthoparstr $\dots \frac{647}{2}$		\coWMTL 1554
\cmdmthoparsym $\underline{705}$, 734	860, 861, 862, 863, 865,	\coWPL 1565
\cmdmthoparsymelm 733	866, 1395, 1396, 1397, 1398	\coWSO
\cmdmthoparvec 800	\cmdtxtall <u>394, 530, 542, 555, 567</u>	\coWSOL
\cmdmthpar $\underline{491}$, $\underline{498}$	\cmdtxtarg <u>374, 395</u>	\coWTL 1542
\cmdmthparcls $\underline{619}$	\cmdtxtargabr <u>545</u>	\crv@false 40
\cmdmthparelm 716 , 732	\cmdtxtargcom <u>570</u>	\crv@true
\cmdmthparfam $\underline{606}$	\cmdtxtargdef <u>533</u>	\csdef 138, 139, 140, 141, 142,
\cmdmthparfrm <u>771</u>	\cmdtxtargname $\dots \dots 558$	370, 375, 380, 385, 390,
\cmdmthparfun $\underline{690}$	\cmdtxtcom <u>568</u> , 1174, 1175, 1176	398, 483, 486, 489, 492,
\cmdmthparmat	\cmdtxtdef <u>531</u>	495, 501, 1154, 1170, 1172
\cmdmthparname <u>593</u>	\cmdtxtname $\underline{556}$, 1800	\csedef 172, 176
\cmdmthparrel 677	\cmdtxtoarg <u>379</u> , 395	\csname . 162, 163, 164, 165,
\cmdmthparset <u>658</u>	\cmdtxtoargabr 547	166, 167, 168, 173, 177,
\cmdmthparsig 632	\cmdtxtoargcom <u>572</u>	372, 373, 377, 378, 382,
\cmdmthparsnt 758	\cmdtxtoargdef 535	383, 387, 388, 392, 393,
\cmdmthparstr <u>645</u>	\cmdtxtoargname <u>560</u>	400, 401, 409, 411, 503, 504
\cmdmthparsym $\frac{703}{731}$	\cmdtxtopar <u>389</u> , <u>395</u>	\CTLP 1721, 1725, 1727, 1729
\cmdmthparsymelm 730	\cmdtxtoparabr <u>551</u>	\CTLS 1736, 1740, 1742, 1744
\cmdmthparvec 798	\cmdtxtoparcom <u>576</u>	
\cmdmthrel . 671, 1246, 1620,	\cmdtxtopardef 539	\CurrentOption 126
,	• —	
1621 1830 1833 2202	\cmdtxtoparname	D
1621, 1830, 1833, 2202 \cmdmthset 652.	\cmdtxtoparname 564, 1211, 1214, 1217.	D \DeclareMathAlphabet
\cmdmthset $\underline{652}$,	564, 1211, 1214, 1217,	\DeclareMathAlphabet
\cmdmthset <u>652,</u> 663, 1239, 1241, 1250,	$ \underline{564}, 1211, 1214, 1217, 1220, 1223, 1226, 1293, $	\DeclareMathAlphabet 285, 286, 287, 288
\cmdmthset <u>652,</u> 663, 1239, 1241, 1250, 1252, 1262, 1264, 1274,	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305,	\DeclareMathAlphabet 285, 286, 287, 288 \DeclareMathOperator 1032, 1034
\cmdmthset 652, 663, 1239, 1241, 1250, 1252, 1262, 1264, 1274, 1276, 1814, 1816, 1821,	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327,	$\label{eq:local_problem} $$\operatorname{DeclareMathAlphabet} \dots $$285, 286, 287, 288$$$\operatorname{DeclareMathOperator} 1032, 1034$$$\operatorname{DeclareOption} \dots 12, 13,$
\cmdmthset 652, 663, 1239, 1241, 1250, 1252, 1262, 1264, 1274, 1276, 1814, 1816, 1821, 1823, 1840, 1842, 1852,	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463,	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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\cmdmthset 652, 663, 1239, 1241, 1250, 1252, 1262, 1264, 1274, 1276, 1814, 1816, 1821, 1823, 1840, 1842, 1852, 1854, 1859, 1861, 2187, 2189, 2196, 2198, 2221	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493,	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493, 1494, 1535, 1558, 1583, 1630, 1664, 1675, 1699, 1702, 1717, 1732, 1751, 1766, 1781, 1865, 1999, 2164, 2166, 2168, 2169,	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{array}{c} \text{\cmdmthset} \dots \dots & \underline{652}, \\ 663, 1239, 1241, 1250, \\ 1252, 1262, 1264, 1274, \\ 1276, 1814, 1816, 1821, \\ 1823, 1840, 1842, 1852, \\ 1854, 1859, 1861, 2187, \\ 2189, 2196, 2198, 2221 \\ \text{\cmdmthsetext} \dots & \underline{662}, 1236, \\ 1257, 1261, 1269, 1273, \\ 1280, 1316, 1335, 1380, \\ 1390, 1404, 1407, 1423, \\ 1430, 1436, 1443, 1449, \\ 1528, 1531, 1617, 1626, \\ \end{array}$	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493, 1494, 1535, 1558, 1583, 1630, 1664, 1675, 1699, 1702, 1717, 1732, 1751, 1766, 1781, 1865, 1999, 2164, 2166, 2168, 2169, 2170, 2171, 2172, 2173,	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493, 1494, 1535, 1558, 1583, 1630, 1664, 1675, 1699, 1702, 1717, 1732, 1751, 1766, 1781, 1865, 1999, 2164, 2166, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2178,	$\label{eq:lambda} $$\operatorname{DeclareMathAlphabet} \dots $$285, 286, 287, 288$$ \end{areMathOperator} 1032, 1034 \end{areDeclareOption} \dots 12, 13, $$17, 21, 25, 29, 33, 37, $$41, 45, 49, 54, 55, 60, $$61, 67, 68, 72, 73, 78, $$79, 84, 85, 89, 90, 94, $$95, 100, 101, 106, 107, $$111, 116, 117, 122, 123, 126$$ \end{areAbustCommand} $$874, $$878, 881, 883, 886, 888, $$90, 892, 894, 896, 899, $$901, 903, 905, 908, 910, $$$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493, 1494, 1535, 1558, 1583, 1630, 1664, 1675, 1699, 1702, 1717, 1732, 1751, 1766, 1781, 1865, 1999, 2164, 2166, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2178, 2179, 2181, 2182, 2209,	$\label{eq:lambda} $$\operatorname{DeclareMathAlphabet} \dots $$285, 286, 287, 288$$ \end{areMathOperator} 1032, 1034 \end{areDeclareOption} \dots 12, 13, $$17, 21, 25, 29, 33, 37, $$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$$ \end{areAbustCommand} $$874, $$878, 881, 883, 886, 888, $$90, 892, 894, 896, 899, $$901, 903, 905, 908, 910, $$912, 915, 917, 919, 921, $$$
$ \begin{array}{c} \text{\setminus cmdmthset} \dots \dots & \underline{652}, \\ 663, 1239, 1241, 1250, \\ 1252, 1262, 1264, 1274, \\ 1276, 1814, 1816, 1821, \\ 1823, 1840, 1842, 1852, \\ 1854, 1859, 1861, 2187, \\ 2189, 2196, 2198, 2221 \\ \\ \text{\setminus cmdmthsetext} \dots & \underline{662}, 1236, \\ 1257, 1261, 1269, 1273, \\ 1280, 1316, 1335, 1380, \\ 1390, 1404, 1407, 1423, \\ 1430, 1436, 1443, 1449, \\ 1528, 1531, 1617, 1626, \\ 1805, 1808, 1811, 1820, \\ 1827, 1836, 1839, 1847, \\ 1851, 1858, 2152, 2192, \\ \end{array} $	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493, 1494, 1535, 1558, 1583, 1630, 1664, 1675, 1699, 1702, 1717, 1732, 1751, 1766, 1781, 1865, 1999, 2164, 2166, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2178, 2179, 2181, 2182, 2209, 2211, 2212, 2213, 2214,	$\label{eq:lambda} $$\operatorname{DeclareMathAlphabet} \dots \\ 285, 286, 287, 288 \\ \operatorname{DeclareMathOperator} 1032, 1034 \\ \operatorname{DeclareOption} \dots 12, 13, \\ 17, 21, 25, 29, 33, 37, \\ 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 \\ \operatorname{DeclareRobustCommand} 874, \\ 878, 881, 883, 886, 888, \\ 890, 892, 894, 896, 899, \\ 901, 903, 905, 908, 910, \\ 912, 915, 917, 919, 921, \\ 923, 925, 927, 932, 936, \\ \\ \end{tabular}$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	564, 1211, 1214, 1217, 1220, 1223, 1226, 1293, 1296, 1299, 1302, 1305, 1308, 1321, 1324, 1327, 1346, 1410, 1411, 1463, 1466, 1469, 1472, 1475, 1478, 1481, 1484, 1493, 1494, 1535, 1558, 1583, 1630, 1664, 1675, 1699, 1702, 1717, 1732, 1751, 1766, 1781, 1865, 1999, 2164, 2166, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2178, 2179, 2181, 2182, 2209,	$\label{eq:lambda} $$\operatorname{DeclareMathAlphabet} \dots $$285, 286, 287, 288$$ \end{areMathOperator} 1032, 1034 \end{areDeclareOption} \dots 12, 13, $$17, 21, 25, 29, 33, 37, $$41, 45, 49, 54, 55, 60, $$61, 67, 68, 72, 73, 78, $$79, 84, 85, 89, 90, 94, $$95, 100, 101, 106, 107, $$111, 116, 117, 122, 123, 126$$ \end{areAbustCommand} $$874, $$878, 881, 883, 886, 888, $$90, 892, 894, 896, 899, $$901, 903, 905, 908, 910, $$912, 915, 917, 919, 921, $$$

981, 983, 985, 987, 989,	\Dedicto <u>835</u>	\EATLS 1790
991, 993, 995, 997, 999,	\dedicto 814	\EBF 1351
1001, 1003, 1005, 1007,	\def 2193, 2194, 2200	\EBGPL 1969
1009, 1011, 1014, 1022,	1	
		\EBGSL 2103
1024, 1026, 1029, 1050,	\defacto <u>815</u>	\ECGPL 1901
1052, 1054, 1056, 1058,	\defcomcls $\underline{1153}$,	\ECGSL 2035
1060, 1062, 1064, 1066,	1178, 1179, 1180, 1181	\ECTL 1711
1068, 1070, 1072, 1074,	\defcomclsgrp	\ECTLP 1726
1076, 1078, 1080, 1082,	\dots 1155, 1183, 1184,	\ECTLS 1741
1084, 1087, 1089, 1091,	1185, 1186, 1187, 1188,	
1093, 1095, 1098, 1100,		\EDGPL 1918
	1189, 1190, 1191, 1192	\EDGSL 2052
1102, 1104, 1106, 1108,	\defcomclsgrpcmd 1165,	\EEGPL 1952
1110, 1112, 1114, 1116,	1166, 1167, 1168, 1169	\EEGSL 2086
1118, 1120, 1135, 1137,	\defcomclsgrpred 1159, 1160,	\EExs, \\\AAll 1795
1141, 1143, 1349, 1351,	1161, 1162, 1163, 1164	\EFAGPL 1943
1353, 1414, 1416, 1497,	\defcomclsgrpsem	
1499, 1503, 1505, 1509,	1156, 1157, 1158	
		\EFBGPL 1977
1511, 1515, 1517, 1521,	\defcomhrc <u>1171</u> , 1194,	\EFBGSL 2111
1523, 1538, 1542, 1546,	1195, 1196, 1197, 1198,	\EFCGPL 1909
1550, 1554, 1561, 1565,	1199, 1200, 1201, 1202	\EFCGSL 2043
1569, 1573, 1577, 1586,	\defeq, \seteq <u>874</u>	\EFDGPL 1926
1590, 1592, 1594, 1600,	\defval <u>149, 302, 304,</u>	
1602, 1604, 1606, 1608,	$314, 316, \overline{326}, 328, 338,$	\EFDGSL 2060
1610, 1633, 1637, 1639,	340, 350, 352, 400, 401,	\EFEGPL 1960
		\EFEGSL 2094
1641, 1645, 1649, 1653,	415, 417, 427, 429, 439,	\EFNGSL 2128
1655, 1657, 1667, 1669,	441, 451, 453, 463, 465,	\EFOGPL 1892
1671, 1678, 1680, 1682,	503, 504, 665, 667, 1012,	\EFOGSL 2026
1705, 1709, 1711, 1713,	1154, 1156, 1157, 1172,	
1720, 1724, 1726, 1728,	1605, 1611, 1796, 1798	\EFPL 1875
1735, 1739, 1741, 1743,	\Delta 1197, 1198	\EFSL 2009
1754, 1758, 1760, 1762,	\delta 1831, 2200	\EFXGPL 1994
		\EFXGSL 2145
1769, 1773, 1775, 1777,	\denot <u>908</u>	\Eg 839
1784, 1788, 1790, 1792,	\dep,_\alt <u>1393</u>	\eg 818
1795, 1797, 1867, 1869,	\der 919	
1872, 1875, 1877, 1884,	\Dere	\EG,
1886, 1889, 1892, 1894,	\dere 816	\EGPL 1949, 1953, 1955, 1958
1901, 1903, 1906, 1909,	\DF,_\\IF,_\	\EGSL 2083, 2087, 2089, 2092
	\DI , \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ELH, _\EBH 1199
1011 1018 1020 1022	\DEA 2164	\ELII, \EDII 1133
1911, 1918, 1920, 1923,	\DFA, \L. \. \. \. \. \. \. \. \. \. \. \. \. \.	· —
1926,1928,1935,1937,	\DGPL 1915, 1919, 1921, 1924	\else 148, 150, 159, 257, 271
		\else 148, 150, 159, 257, 271 \ELTL
1926,1928,1935,1937,	\DGPL 1915, 1919, 1921, 1924	\else 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598	\else 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542 \EMC 1639
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224	\else 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset	\else . 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542 \EMC 1639 \EML 1592 \empchk
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond	\else 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, \(\text{Lirsym} \)	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else . 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542 \EMC 1639 \EML 1592 \empchk 147, 153, 155,
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else . 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542 \EMC 1639 \EML 1592 \empchk 147, 153, 155,
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111, 2113, 2120, 2122, 2125,	\DGPL . 1915, 1919, 1921, 1924 \DGSL . 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else . 148, 150, 159, 257, 271 \ELTL 1680 \em 530, 542 \EMC 1639 \EML 1592 \empchk 147, 153, 155,
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset	\else . 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111, 2113, 2120, 2122, 2125,	\DGPL . 1915, 1919, 1921, 1924 \DGSL . 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet,	\else 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111, 2113, 2120, 2122, 2125, 2128, 2130, 2137, 2139, 2142, 2145, 2147, 2290	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset	\else . 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ \ 2145,\ \ 2147,\ \ 2290\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\adj, 915	\else 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111, 2113, 2120, 2122, 2125, 2128, 2130, 2137, 2139, 2142, 2145, 2147, 2290 \DeclareRobustCommandx . 1139, 1881, 1898, 1915, 1932, 1949, 1966, 1983,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\Adj, 915 E \E,\A 1746	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\Adj, 2209 \dual,\Adj, 915 E \E,\A 1746 \EAFMC 1655	\else 148, 150, 159, 257, 271 \ELTL
1926, 1928, 1935, 1937, 1940, 1943, 1945, 1952, 1954, 1957, 1960, 1962, 1969, 1971, 1974, 1977, 1979, 1986, 1988, 1991, 1994, 1996, 2001, 2003, 2006, 2009, 2011, 2018, 2020, 2023, 2026, 2028, 2035, 2037, 2040, 2043, 2045, 2052, 2054, 2057, 2060, 2062, 2069, 2071, 2074, 2077, 2079, 2086, 2088, 2091, 2094, 2096, 2103, 2105, 2108, 2111, 2113, 2120, 2122, 2125, 2128, 2130, 2137, 2139, 2142, 2145, 2147, 2290 \DeclareRobustCommandx . 1139, 1881, 1898, 1915, 1932, 1949, 1966, 1983,	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\Adj, 2209 \dual,\Adj, 915 E \E,\A 1746 \EAFMC 1655 \EAGPL 1935	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\Adj, 2209 \dual,\Adj, 915 E \E,\A 1746 \EAFMC 1655 \EAGPL 1935 \EAGSL 2069	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\daj, 2209 \dual,\daj, 1746 \EAFMC 1655 \EAGPL 1935 \EAGSL 2069 \Easy,\Hard, 1174	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\Adj, 2209 \dual,\Adj, 915 E \E,\A 1746 \EAFMC 1655 \EAGPL 1935 \EAGSL 2069	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\daj, 2209 \dual,\daj, 1746 \EAFMC 1655 \EAGPL 1935 \EAGSL 2069 \Easy,\Hard, 1174	\else 148, 150, 159, 257, 271 \ELTL
$\begin{array}{c} 1926,\ 1928,\ 1935,\ 1937,\\ 1940,\ 1943,\ 1945,\ 1952,\\ 1954,\ 1957,\ 1960,\ 1962,\\ 1969,\ 1971,\ 1974,\ 1977,\\ 1979,\ 1986,\ 1988,\ 1991,\\ 1994,\ 1996,\ 2001,\ 2003,\\ 2006,\ 2009,\ 2011,\ 2018,\\ 2020,\ 2023,\ 2026,\ 2028,\\ 2035,\ 2037,\ 2040,\ 2043,\\ 2045,\ 2052,\ 2054,\ 2057,\\ 2060,\ 2062,\ 2069,\ 2071,\\ 2074,\ 2077,\ 2079,\ 2086,\\ 2088,\ 2091,\ 2094,\ 2096,\\ 2103,\ 2105,\ 2108,\ 2111,\\ 2113,\ 2120,\ 2122,\ 2125,\\ 2128,\ 2130,\ 2137,\ 2139,\\ 2142,\ 2145,\ 2147,\ 2290\\ \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	\DGPL 1915, 1919, 1921, 1924 \DGSL 2049, 2053, 2055, 2058 \Diamond 1598 \dirset 2223, 2224 \DirSet, 2222 \dirsym 2222, 2224 \Divideetimpera 838 \divideetimpera 817 \DLH,\DBH 1197 \DMod 1603, 1605 \DMod,\BMod 1598 \do 171, 175 \dom,\Cod, 1017 \DontPrintSemicolon 2273 \downarrow 1023 \DTA, 2209 \dual,\Adj, 915 E \E,\A 1746 \EAFMC 1655 \EAGPL 1935 \EAGSL 2069 \Easy,\Hard, 1174 \EATL 1760	\else 148, 150, 159, 257, 271 \ELTL

1540 1544 1561 1560	\ TGGDI	\
1742, 1744, 1761, 1763,	\FCGPL 1906, 1910, 1912	\GameName,
1776, 1778, 1791, 1793,	\FCGSL 2040, 2044, 2046	\GFG,
1868, 1870, 1876, 1878,	\FDGPL 1923, 1927, 1929	\GoTo, _□ <u>2286</u>
1885, 1887, 1893, 1895,	\FDGSL 2057, 2061, 2063	
1902, 1904, 1910, 1912,	\FEGPL 1957, 1961, 1963	Н
1919, 1921, 1927, 1929,	\FEGSL 2091, 2095, 2097	\H 1692
1936, 1938, 1944, 1946,	\ffsym 1360, 1361	\hstset
1953, 1955, 1961, 1963,	\fi . 148, 150, 159, 215, 220,	1260, 1261, 1262, 1264,
1970, 1972, 1978, 1980,	225, 230, 245, 250, 265,	1838, 1839, 1840, 1842
1987, 1989, 1995, 1997,	273, 274, 278, 280, 578,	\HstSet, <u>1259</u> , <u>1837</u>
2002, 2004, 2010, 2012,	802, 867, 1147, 1203,	\hstsym
2019, 2021, 2027, 2029,	1338, 2157, 2230, 2237,	1259, 1261, 1263, 1265,
2036, 2038, 2044, 2046,	2258, 2259, 2266, 2293	1837, 1839, 1841, 1843
2053, 2055, 2061, 2063,	\fig@false 105, 107	\hypersetup 235
2070, 2072, 2078, 2080,	\fig@true 106	\hypref@false 33
2087, 2089, 2095, 2097,	\fix,_\ifp, <u>1038</u>	\hypref@true 32
2104, 2106, 2112, 2114,	\flat 2150	\hightarrow \text{inyprerective} \cdot
2121, 2123, 2129, 2131,	\floor, \ceil <u>1110</u>	I
2138, 2140, 2146, 2148	\FNGSL 2125, 2129, 2131	
\ent,_\esc 1283	\fnttls@false 37	\ie
\enumeration,	\fnttls@true 36	\if 148, 150, 159
\EOGPL 1884	\F0 1417	\if@twocolumn 132, 269
\EOGSL 2018	\FOGPL 1889, 1893, 1895	\ifalg@ 121, 2271
\EPL 1867	\FOGSL 2023, 2027, 2029	\ifamsdef@ 16, 209
\EPTL 1669	\F0L,,,,	\ifamsthm@ 20, 217
\equiv 904, 906	\footnotesize 1035	\ifaut@ 93, 2162
\ergo 819	\forall 1354,	\ifaux@ 11, 207
\Errata 840	1376, 1386, 1387, 1595,	\ifchgbar@ 44, 262
\errata 820	1642, 1658, 1672, 1683,	\ifcom@ 77, 1152
		\ifcrv@ 40, 252
	1714, 1729, 1744, 1763,	\ifcsdef 132
\erratum	1778, 1793, 1870, 1878,	\ifdef 285, 286, 287, 288
\ESL 2001	1887, 1895, 1904, 1912,	
\etal <u>822</u>	1921, 1929, 1938, 1946,	\ifenmtls0 28, 227
\etc <u>823</u>	1955, 1963, 1972, 1980,	\iff
\evn,_\odd <u>1124</u>	1989, 1997, 2004, 2012,	\iffig@ 105, 2242
\evnsym 1310, 1311	2021, 2029, 2038, 2046,	\iffnttls@ 36, 247
\EvnSym, \ddSym \ddSym \frac{1310}{1320}	2055, 2063, 2072, 2080,	\iffrm@ 99, 2235
\ExecuteOptions 128	2089, 2097, 2106, 2114,	\ifgam@ 83, 1208
\EXGPL 1986	2123, 2131, 2140, 2148	\ifhypref@ 32, 232
	\FPL 1872, 1876, 1878	\iflinnum@ 48, 267
\exists 1352,	\FPT,	\iflog@ 88, 1343
1374, 1386, 1387, 1593,	\free, \(\bound \) \(\lambda \) \(\lambd	\ifmth@ 71, 872
1640, 1656, 1670, 1681,	\frm@false 99, 101	\ifmthgen@ 59, 583
1712, 1727, 1742, 1761,	\frm@true 100	\iftab@ 115, 2264
1776, 1791, 1868, 1876,	\From,	\ifthmtls@ 24, 222
1885, 1893, 1902, 1910,	\FSL 2006, 2010, 2012	\iftxt@ 66, 807
1919, 1927, 1936, 1944,	\fst, _□ \lst <u>1145</u>	\iftxtgen@ 53, 528
1953, 1961, 1970, 1978,	\funset 1435, 1436	\ifwrpfig@ 110, 2255
1987, 1995, 2002, 2010,	\funsig 1432, 1433	\int
2019, 2027, 2036, 2044,	\FunSig, <u>1432</u>	\implied, 890
2053, 2061, 2070, 2078,	\funstr 1455, 1456	-
2087, 2095, 2104, 2112,	\FunStr, <u>1455</u>	\implies, <u>886</u>
2121, 2129, 2138, 2146	\funsym 1434, 1436	\inf,_\\sup
\expandafter	\fvarset 1527, 1528	\infty 1057, 1061, 1063,
162, 164, 167, 172, 176	\FVarSet,	1065, 1069, 1071, 1073,
\ExpSpace, <u>1192</u>	\fvarsym 1526, 1528	1077, 1079, 1081, 1085
\ExpTime, <u>1191</u>	\FXGPL 1991, 1995, 1997	\int,_\out <u>1285</u>
\Exs, _ \All <u>1600</u>	\FXGSL 2142, 2146, 2148	\interdisplaylinepenalty 214
		\itr 171, 172, 173, 175, 176, 177
\mathbf{F}	\mathbf{G}	
\FAGPL 1940, 1944, 1946	$\texttt{\gam@false} \dots 56, 62, 83, 85$	K
\FAGSL 2074, 2078, 2080	\gam@true 84	\kern 1036
\FBGPL 1974, 1978, 1980	\Game 1247	\krpstr 1613, 1614
\FBGSL 2108, 2112, 2114	\gamename 1247, 1248	\KrpStr, <u>1613</u>

L	\mathbf{M}	\mthgen@true . 60, 72, 84, 89, 94
\laallsym 1488, 1489	\Macro,	\mthlbop 876, 877, 879,
\labFun 1622	\mathaccent 926	882, 884, 1023, 1025, 1027
\labsym 1622, 1623	\mathbbo 285	\mthlrel
\lallsym 1376, 1377	\mathbin	744, 887, 889, 891, 893,
\Lambda 2223	\mathcal 585	895, 897, 900, 902, 904, 906
\lambda 1622	\matheus 286, 611	\mthluop,
\land 1366	\mathfrak 637	\mthmat, <u>776</u>
\Lang 2207	\mathit 669, 763, 790	\mthname, <u>584</u>
\langle	\mathnormal 708	\mthoarg <u>473</u>
958, 959, 962, 963, 970,	\mathop 738	\mthopar <u>477</u>
971, 974, 975, 1605, 1796	\mathpzc <u>287</u> , 624	\mthpar <u>475</u>
\LaTex 737, 744	\mathrel 745, 1035	\mthrel, \ldots \ \ \ \ \ \ \ \.
\lbrace 986, 988, 994, 996	\mathring 918	\mthset 1051, 1053, 1055,
\lceil 1119, 1121	\mathrm 650	1059, 1067, 1075, 1083
\lcoimp, <u>883</u>	\mathscr <u>288, 598</u>	\mthset, <u>649</u>
\lcoisym 1372, 1373	\mathsf 682, 750, 777	\mthsig, <u>623</u>
\LCon,	\mathtt 695	\mthsnt, \ \frac{749}{626}
\lconsym 1366, 1367	\maxsym 1329, 1330	\mthstr, <u>636</u> \mthsty
\ldissym 1368, 1369	$\MaxSym, \Lower MinSym \dots 1329$	470, 472, 474, 476, 478, <u>479</u>
\LEExs, _\LAA11 <u>1486</u>	$\MC_{,\sqcup}\GMC_{,\sqcup}$ $\underline{1629}$	\mthstycls 611
\leexssym 1486, 1487	\mdseries 367, 555, 567	\mthstyelm 708
\left $421, 445, 911,$	\MFO 1416	\mthstyfam 598
934, 938, 942, 946, 950,	\MF0L 1414	\mthstyfrm 763
954, 958, 962, 966, 970,	\middle 986	\mthstyfun 682
974, 978, 986, 994, 1002,	MIf,	\mthstylbop 739
1008, 1101, 1107, 1113,	\min, \max, \ldots \	\mthstylrel 745
1119, 1142, 1611, 1798	\minsym 1331, 1332	\mthstyluop 738
\Leftarrow 891, 893	\ML, \GML, \ \ \ \ \ \ \ \.	\mthstymat 777
\Leftrightarrow 895, 897	\models 900, 902	\mthstyname 585
\leftrightarrow 884, 1372	\movFun, \movRel <u>1828</u>	\mthstyrel 669
\len <u>1137</u>	\MovRel 1245 \movrel 1245, 1246	\mthstyset 650
\Let <u>2280</u>	\movsym 1828, 1829, 1830	\mthstysig 624
\let 1691, 1692, 1693	\MPL 1569, 1574, 1578	\mthstysnt 750
\LExs,_\LA11 <u>1374</u>	\MSO 1511, 1518, 1524	\mthstystr 637
\lexssym 1374, 1375	\MSOL 1509, 1516, 1522	\mthstysym 695
\lfloor 1113, 1115	\mth \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\mthstyvec 790
\lift <u>1289</u>	918, 920, 922, 926, 928,	\mthsubsup 409, 411, <u>466</u>
\limp, <u>881</u>	930, 931, 934, 935, 938,	\mthsym, <u>694</u>
\LImp,_\LCoi <u>1370</u>	939, 942, 943, 946, 947,	\mthvec, \dots \mthvec, $\frac{789}{1551}$
\limpsym 1370, 1371	950, 951, 954, 955, 958,	\mu
\linenumbers 270, 272	959, 962, 963, 966, 967,	\Mutatismutandis <u>842</u>
\linnum@false	970, 971, 974, 975, 978,	\mutatismutandis 825
\linnum@true 49 \llbracket 911, 913	979, 986, 988, 994, 996,	<u> </u>
\llcorner 1035	1002, 1004, 1008, 1010,	${f N}$
\LNeg,_\LNot	1012, 1015, 1030, 1088,	\naif <u>850</u>
\lnegsym 1362, 1363	1090, 1092, 1094, 1096,	\naive <u>851</u>
\lnotsym 1364, 1365	1101, 1103, 1107, 1109,	\neg 1362
\log@false 56, 62, 88, 90	1113, 1115, 1119, 1121,	\newcommandx 295, 297, 301,
\log@true 89	1136, 1140, 1142, 1144,	303, 307, 309, 313, 315,
\logsig 1356, 1357	$1197, 1198, 1199, 1200, \\ 1201, 1202, 1603, 1605,$	319, 321, 325, 327, 331,
\LogSig, _□	1609, 1611, 1796, 1798	333, 337, 339, 343, 345,
\LogSpace,	\mth@false 62, 71, 73	349, 351, 397, 408, 410,
\logstr 1400, 1401	\mth@true	414, 416, 420, 422, 426,
\LogStr, _□	\mtharg 471	428, 432, 434, 438, 440, 444, 446, 450, 452, 456,
\LogTime,	\mthcls, 610	458, 462, 464, 500, 506,
\lor 1368	\mthelm,	508, 510, 512, 514, 516,
\lowercase 665, 667	\mthfam, \(\triangle \tri	518, 520, 522, 531, 533,
\lVert 1107, 1109	\mthfrm, 762	535, 537, 539, 543, 545,
\lvert 1008, 1010, 1101,	\mthfun, \(\triangle \tag{681}	547, 549, 551, 556, 558,
1103, 1140, 1142, 1144	\mthgen@false 59, 62	560, 562, 564, 568, 570,
	,	

PRO PRI PRO POR POO	1071	100 1000 1048 1046
572, 574, 576, 587, 589,	$\ObsSet, \ObsFun \dots \underline{1251}$	1837, 1838, 1845, 1846,
591, 593, 595, 600, 602,	\oddsym 1312, 1313	1849, 1850, 1856, 1857
604, 606, 608, 613, 615,	\odot 1385	\prtset 1315, 1316
617, 619, 621, 626, 628,	\OGPL 1881, 1885, 1887, 1890	\PrtSet, \prtFun <u>1314</u>
630, 632, 634, 639, 641,	\OGSL 2015, 2019, 2021, 2024	\prtsym 1314, 1316
		= · ·
643, 645, 647, 652, 654,	\Omega 1044	\psn <u>2154</u>
656, 658, 660, 662, 671,	\omega 1043	\PSpace,
673, 675, 677, 679, 684,	\Omicron 1048	\pthset . 1256, 1257, 1625, 1626
686, 688, 690, 692, 697,	\omicron <u>138</u> , 1047	\PthSet, <u>1624</u>
699, 701, 703, 705, 710,	\oplus 1329	\PthSet, _ \pthFun <u>1255</u>
712, 714, 716, 718, 721,	\OppSym 1241, 1242,	\pthsym . 1255, 1257, 1624, 1626
724, 727, 730, 733, 740,	1264, 1265, 1276, 1277,	\PTime,
742, 746, 752, 754, 756,	1816, 1817, 1842, 1843,	\PTL, \\LTL, \\
758, 760, 765, 767, 769,	1854, 1855, 1861, 1862	\pto, _□ \pmapsto <u>1032</u>
771, 773, 779, 781, 783,	\oppsym 1230, 1231	
785, 787, 792, 794, 796,	\Opr	\mathbf{Q}
798, 800, 1153, 1155,	\overline 916, 928	\QAE, ⊔\QEA <u>1386</u>
	(overline	
1158, 1164, 1169, 1171	ъ.	\QAFMC 1653
\newif $11, 16, 20, 24, 28, 32,$	P	\QATL 1758
36, 40, 44, 48, 53, 59,	\P 1691	\QATLP 1773
66, 71, 77, 83, 88, 93,	\PackageWarning 126	\QATLS 1788
99, 105, 110, 115, 121, 132	\PDL,\CTL, 1697	\QCTL 1709
		• •
\newmth $\frac{406}{100}$	\Percontra <u>843</u>	\QCTLP 1724
415, 417, 421, 423, 445, 447	\percontra <u>826</u>	\QCTLS 1739
\newmtharg $418, 427, 429, 433, 435$	\PH <u>1194</u>	\QLTL 1678
\newmthargsty $424, 472, 487$	\Pi 1201, 1202, 1488	\QMC 1637
\newmthoarg $\dots \frac{430}{439}$, 439 , 441	\pi 1255, 1267, 1624, 1845	\QML 1590
\newmthoargsty . 436, 474, 490	\PL, 1864	\qntset 1389, 1390
		-
\newmthopar $\underline{454}$, 463 , 465	\playset 1268, 1269, 1846, 1847	\QntSet,
\newmthoparsty . $\underline{460}$, 478 , 496	\PlaySet, <u>1845</u>	\qntsym 1388, 1390
\newmthpar $442, 451, 453, 457, 459$	\P \PlaySet, \playFun $\underline{1267}$	\QPSpace, <u>1190</u>
\newmthparsty $448, 476, 493$	\playsym 1267, 1269, 1845, 1847	\QPTime, <u>1189</u>
	\mlmas+ 1050 1051 1050 1054	\ ODTI
\newmthstv 412.470.484	\DINSet . 1000, 1001, 1002, 1004	\UP1L
\newmthsty 412, 470, 484	\plnset . 1850, 1851, 1852, 1854 \PlnSet 1849	\QPTL 1667
\newtxt <u>293</u> ,	\PlnSet, <u>1849</u>	
\newtxt $\underline{293}$, 302 , 304 , 308 , 310 , 332 , 334	\PlnSet,	R
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\PlnSet,	R \raisebox 1035
\newtxt $\underline{293}$, 302 , 304 , 308 , 310 , 332 , 334	\PlnSet,	R
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\PlnSet,\(\) \\ \plnsym \ . 1849, 1851, 1853, 1855 \\ \PlrFun \ \ \ \ \ \plrfun \ \ \ 1243, 1244 \\ \PlrSym \ \ 1262, 1263, 1274, 1275, \end{array}	R \raisebox 1035 \rangle
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\PlnSet,\(\)	R \raisebox
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\PlnSet,	R \raisebox
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\label{eq:linear_problem} $$ \Pr\{s, \ldots, \frac{1849}{1851}, 1853, 1855, 1855, 1857, 1859, 1859, 1859, 1859, 1859, 1859, 1859, 1859, 1859, 1829, 1859, 1829, 1859, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1829, 1849, 1849, 1849, 1852, 1853, 1859, 1860, 1859, 1859, 1829, 1829, 1859, $	R \raisebox
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\label{eq:linear_problem} $$ \Pr{\text{InSet}, \dots} $$ 1849, 1851, 1853, 1855 \\ \Pr{\text{Insym}} $$ 1849, 1851, 1853, 1855 \\ \Pr{\text{IrFun}} $$ $$ \frac{1243}{1244} $$ \Pr{\text{IrSym}} $$ 1249, 1249, 1262, 1263, 1274, 1275, 1814, 1815, 1840, 1841, 1852, 1853, 1859, 1860 \\ \Pr{\text{Irsym}} $$ 1228, 1229 \\ \Pr{\text{IrSym}, \sqcup} \\ \Pr{\text{OppSym}} $$ 1228, 1229 \\ \Pr{\text{IrSym}, \sqcup} \\ \Pr{\text{OppSym}} $$ 1061, 1069, 1077 \\ \Pr{\text{Oposset}} $$ 1235, 1236, 1239, 1241, $$ $$ $$$	R \raisebox
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\rmfamily 367, 567	\SetZ,	\treeset 2227, 2228
\Role <u>854</u>	\SetZI 1060	\TreeSet,
\role 852	\SetZNI 1064	\treesym 2226, 2228
\rrbracket $911, \overline{913}$	\SetZPI 1062	\triangleq 877
\rst <u>1024</u>	\sffamily 555	\trn 921
\rVert 1107, 1109	\Sigma 1199, 1200, 1486, 2191	\trnFun,_\\trnRel 1831, 2200
\rvert 1008, 1010, 1101,	\sigma 1271, 1856, 2190	\trnsym 1831, 1832,
1103, 1140, 1142, 1144	\Signature <u>2276</u>	1833, 2200, 2201, 2202
~	\sim 1364	\True, $_{\sqcup}$ \False $\underline{2281}$
${f S}$	\skm <u>1451</u>	\Tt, _□ \Ff
\S	\SL, <u>1998</u>	\ttsym 1358, 1359
\SATG, _□ 1210	\SO 1500, 1506, 1512	\tuple, 956
\SaveDoubleAcute 1692	\sol 1290	\tuplel 960
\SavePilcrow 1691	\SOL,	\tupler 964
\SaveSectionSymbol 1693	\Space,	\tuplex 968
\scshape 555, 567	\stackrel 876	\tuplex1 972
\seqofcmd 174, 187, 191		
_	\strset	\tuplexr 976
\seqofgrklet <u>194,</u> 517	1272, 1273, 1274, 1276,	\txt <u>356</u>
\seqofgrklow	1857, 1858, 1859, 1861	\txt@false 56, 66, 68
<u>186,</u> 195, 198, 513, 625, 638	\StrSet, <u>1271</u> , <u>1856</u>	\txt@true 67
\seqofgrkupp $190, 195, 200, 515$	\strsym	\txtabr, <u>541</u>
\seqoflatlet $183, 511, 625, 638$	1271, 1273, 1275, 1277,	\txtarg <u>358</u>
\seqoflatlow $179, 184, 198, 507$	1856, 1858, 1860, 1862	\txtcom, 566
\seqoflatupp <u>181</u> ,	\sttset	\txtdef, 529
184, 200, 509, 586, 599, 612	1819, 1820, 1821, 1823,	\txtgen@false 53, 56
\seqoflet	2194, 2195, 2196, 2198	\txtgen@true
201, 523, 651, 670, 683,		S
	\SttSet,	54, 67, 78, 84, 89, 94
696, 709, 751, 764, 778, 791	\sttsym	\txtname 1350,
\seqoflow <u>197</u> , 202, 519	1818, 1820, 1822, 1824,	1415, 1417, 1498, 1500,
\seqoftag <u>170</u> , 180, 182	2193, 2195, 2197, 2199	1504, 1506, 1510, 1512,
\seqofupp $\underline{199}$, 202, 521	\stx <u>860</u>	1516, 1518, 1522, 1524,
\sequence, \dots $\underline{932}$	\sub <u>1382</u>	1539, 1543, 1547, 1551,
\sequencel 936	\svarset 1530, 1531	1555, 1562, 1566, 1570,
\sequencer 940	\SVarSet, <u>1529</u>	1574, 1578, 1587, 1591,
\sequencex 944	\svarsym 1529, 1531	1634, 1638, 1646, 1650,
\sequencex1 948	\symset	1654, 1668, 1679, 1706,
\sequencexr 952	\SymSet,	1710, 1721, 1725, 1736,
\set,	\symsym 2190, 2192	
\SetB	\Symsym 2190, 2192	1740, 1755, 1759, 1770,
	${f T}$	1774, 1785, 1789, 1873,
\SetC, <u>1082</u>		1890, 1907, 1924, 1941,
\SetCI 1084	\tab@false 115, 117	1958, 1975, 1992, 2007,
\SetF <u>1052</u>	\tab@true 116	2024, 2041, 2058, 2075,
\SetInd 2274	\tau 1828	2092, 2109, 2126, 2143
\SetKw 2276,	\TAutSet <u>2220</u>	\txtname, <u>554</u>
2281, 2282, 2283, 2284,	\tautset 2220, 2221	\txtoarg <u>360</u>
2285, 2286, 2287, 2288	\terset 1442, 1443	\txtoargcom 1154, 1170
\SetKwFor 2277, 2278, 2279, 2280	\tersig 1439, 1440	\txtopar <u>364</u>
\SetKwIF 2289	\TerSig, <u>1439</u>	\txtoparcom 1172
\setl 989	\terstr 1457, 1458	\txtpar 362
\setlength 2275	\TerStr,	\txtsty
\setlx 991	\tersym 1441, 1443	
	\text	357, 359, 361, 363, 365, <u>366</u>
\SetN,		\txtstyabr 542
\SetNI 1056	\textstyle 738, 739	\txtstycom 567
\SetQ, <u>1066</u>	\textup 876	\txtstydef 530
\SetQI 1068	\thestring 664, 665, 666, 667	\txtstyname 555
\SetQNI 1072	\Theta 1046	\txtsubsup $296, 298, 353$
\SetQPI 1070	\theta 1045	
\setr 997	\thmtls@false 25	${f U}$
\SetR, _□	\thmtls@true 24	\UAFMC 1657
\SetRI 1076	\tikzstyle 2245,	\UAGPL 1937
\SetRNI 1080	2247, 2249, 2251, 2253	\UAGSL
\SetRPI 1078	\Time, \(\ldots \)	\UATL 1762
\setrx 999		\UATLP 1702
	\TL,_\\PL,_\	
\setx 983	\top 1358	\UATLS 1792

\UBF 1353	786, 788, 793, 795, 797,	\varset 1422, 1423
\UBGPL 1971	799, 801, 1017, 1018,	\varsig 1419, 1420
\UBGSL 2105	1019, 1020, 1038, 1039,	\VarSig, _□ <u>1419</u>
\UCGPL 1903	1040, 1041, 1043, 1044,	\varsym 1421, 1423
\UCGSL 2037	1045, 1046, 1047, 1048,	\vec <u>923</u>
\UCTL 1713	1123, 1124, 1125, 1126,	\vert 982, 990
\UCTLP 1728	1127, 1128, 1129, 1130,	\Viceversa <u>845</u>
\UCTLS 1743	1131, 1132, 1133, 1145,	\viceversa <u>828</u>
\UDGPL 1920	1146, 1258, 1266, 1270,	\viz <u>830</u>
\UDGSL 2054	1281, 1282, 1283, 1284,	\vs 829
\UEGPL 1954	1285, 1286, 1287, 1288,	
\UEGSL	1289, 1290, 1359, 1361,	\mathbf{W}
\UFAGPL 1945	1363, 1365, 1367, 1369,	\WATL 1754
\UFAGSL	1371, 1373, 1375, 1377,	\WATLP 1769
	1381, 1382, 1383, 1384,	\WATLS 1784
\UFBGPL 1979	1385, 1386, 1387, 1391,	\WAutSet 2188
\UFBGSL	1392, 1393, 1394, 1424,	\wautset 2188, 2189
\UFCGPL 1911	1425, 1431, 1437, 1438,	\WCTL 1705
\UFCGSL 2045	1444, 1450, 1451, 1487,	\WCTLP 1720
\UFDGPL 1928		\WCTLS 1735
\UFDGSL 2062	1489, 1597, 1598, 1599, 1627, 1685, 1686, 1687,	\wghset 1334, 1335
\UFEGPL 1962		\WghSet,_\\wghFun <u>1333</u>
\UFEGSL 2096	1688, 1689, 1690, 1691,	\wghs\text{wheal}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}
\UFNGSL 2130	1692, 1693, 1694, 1746,	9 1
\UFOGPL 1894	1747, 1844, 1848, 2153,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\UFOGSL 2028	2154, 2156, 2207, 2229	\widehat 920
\UFPL 1877	\usrmthgrklet 516	\widetilde 922
\UFSL 2011	\usrmthgrklow 512	\WinSet <u>1249</u>
\UFXGPL 1996	\usrmthgrkupp 514	\winset 1249, 1250
\UFXGSL 2147	\usrmthlatlet <u>510</u>	\Wlogx
\ULH,_\UBH	\usrmthlatlow $\underline{506}$	\wlogx <u>863</u>
\ULTL 1682	\usrmthlatupp $\underline{508}$,	\WMPL 1573
\UMC 1641	1233, 1248, 1357, 1401,	\WMSO 1517
	1420, 1427, 1433, 1440,	\WMSOL 1515
\UML 1594	1446, 1454, 1456, 1458,	\WMTL 1550
\UNGSL	1460, 1614, 1802, 2185	\wot <u>2229</u>
\U0GPL 1886	\usrmthlet <u>522</u> , 664, 666	\wp 1388
\U0GSL 2020	\usrmthlow <u>518</u>	\WPL 1561
\upharpoonright 1025	\usrmthupp <u>520</u>	\wrdset 2205, 2206
\UPL 1869	\usrtxt	\WrdSet, _□ <u>2204</u>
\upshape 367	<u>397, 532, 534, 536, 538,</u>	\wrdsym 2204, 2206
\UPTL 1671	540, 544, 546, 548, 550,	\wrlset 1616, 1617
\usetikzlibrary 2244	552, 557, 559, 561, 563,	\WrlSet,
\USL 2003	565, 569, 571, 573, 575, 577	\wrlsym 1615, 1617, 1618
\usrmth <u>500</u> ,	\UXGPL 1988	\wrpfig@false 111
507, 509, 511, 513, 515,	\UXGSL 2139	\wrpfig@true 110
517, 519, 521, 523, 588,		\wrt 862
590, 592, 594, 596, 601,	\mathbf{V}	\WSO 1499
603, 605, 607, 609, 614,	\valset 1403, 1404	\WSOL 1497
616, 618, 620, 622, 627,	\ValSet, <u>1402</u>	\WTL 1538
629, 631, 633, 635, 640,	\valsym 1402, 1404	,
642, 644, 646, 648, 653,	\varcmd 161,	X
655, 657, 659, 661, 672,	930, 931, 934, 935, 938,	\X, _{\(\omega\)} \
674, 676, 678, 680, 685,	939, 942, 943, 946, 947,	\XGPL 1983, 1987, 1989, 1992
687, 689, 691, 693, 698,	950, 951, 954, 955, 958,	\XGSL 2134, 2138, 2140, 2143
700, 702, 704, 706, 711,	959, 962, 963, 966, 967,	\xi 1278, 1402, 1834
	000, 002, 000, 000, 001,	\A1 1210, 1402, 1004
	970 971 974 975 978 979	\xcn2co 206 200
713, 715, 717, 719, 741,	970, 971, 974, 975, 978, 979	\xspace 296, 298
743, 747, 753, 755, 757,	\varepsilon 1136	
	\varepsilon 1136 \varnothing 1015, 1030	Y \Y,