# 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}
```

<sup>\*</sup>This document describes version v0.25 of the fmocdmac package, last revised 2023/10/28.

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

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

98 \newif\ifaut@ \aut@false

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

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

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

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

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

```
305 \DeclareRobustCommand{\newtxtsty}
                                                            306 {\@ifstar{\@snewtxtsty}{\@newtxtsty}}
                                                            307 \DeclareRobustCommandx{\@newtxtsty}[2][2=]
                                                            308 {\newtxt[\defval{#2}{#1}]}
                                                            309 \DeclareRobustCommandx{\@snewtxtsty}[2][2=]
                                                            310 {\newtxt*[\defval{#2}{#1}]}
               \newtxtarg ... to do!
                                                                      \bullet \ \texttt{Name}_{sub}^{sup}[\texttt{Ext1}] \ \texttt{Arg}[\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}''
                                                                      • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  }
                                                                       \bullet \texttt{ \newtxtarg*[\nmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{\sup} Ext1(Arg) Ext2" } 
                                                                      • \newtxtarg*[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                      • \newtxtarg*[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                                            311 \DeclareRobustCommand{\newtxtarg}
                                                            312 {\@ifstar{\@snewtxtarg}{\@newtxtarg}}
                                                            313 \DeclareRobustCommandx{\@newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                             314 {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
                                                            315 \DeclareRobustCommandx{\@snewtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                            316 {\newtxt*[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
   \newtxtargsty ... to do!
                                                                       \bullet \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1} \{ \mathrm{Arg} \} [\mathrm{Ext2}] = \mathrm{``Name}^{\sup}_{\sup} \mathrm{Ext1} (\mathrm{Arg}) \mathrm{Ext2} \mathrm{'`}
                                                                       \bullet \texttt{\newtxtargsty}(\texttt{\nmfamily})[\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfamily}][\texttt{\nmfam
                                                                      • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name sup Ext1(Arg)Ext2"
                                                                       \bullet \texttt{\newtxtargsty*{\nmfamily}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{\sup} Ext1(Arg) Ext2" } 
                                                                       \bullet \texttt{\newtxtargsty*{\normaliv}[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = \texttt{``Name}^{sup}_{sub} Ext1(Arg) Ext2" } \\
                                                                      • \newtxtargsty*{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup}Ext1(Arg)Ext2"
                                                            317 \DeclareRobustCommand{\newtxtargsty}
                                                            318 {\@ifstar{\@snewtxtargsty}{\@newtxtargsty}}
                                                             319 \DeclareRobustCommandx{\@newtxtargsty}[2][2=]
                                                            320 {\newtxtarg[\defval{#2}{#1}]}
                                                             321 \DeclareRobustCommandx{\@snewtxtargsty}[2][2=]
                                                                            {\newtxtarg*[\defval{#2}{#1}]}
           \newtxtoarg ... to do!
                                                                      • \mbox{\ensuremath{\text{loss}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{sub}}}(Arg)
                                                                      • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                      • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                      • \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{[sub]}} \mbox{\ensuremath{[sup]}} \mbox{\ensuremath{[Arg]}} = \mbox{\ensuremath{"Name}} \mbox{\ensuremath{[sup]}} \mbox{\ensuremath{[Arg]}} = \mbox{\ensuremath{"Name}} \mbox{\ensuremath{[sub]}} \mbox{\e
                                                                      • \newtxtoarg*[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                      • \newtxtoarg*[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                            323 \DeclareRobustCommand{\newtxtoarg}
                                                            324 {\@ifstar{\@snewtxtoarg}{\@newtxtoarg}}
                                                             325 \DeclareRobustCommandx{\@newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                             326 {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
                                                            327 \DeclareRobustCommandx{\@snewtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                              {\newtxtarg*[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                                                      • \new txtoargsty{\mbox{\mbox{\mbox{$Name$} [sub] [sup] [Arg] = "Name}_{sub}^{sup}(Arg)"}
                                                                      • \mbox{\normality}[\mbox{\normality}]{\normality}[\sub][\sub][\sub][\sub][\normality] = "Name_{sub}^{sup}(\normality)"
                                                                      • \newtxtoargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                      \bullet \ \texttt{\normalights} \ [sub] \ [sup] \ [Arg] = "Name^{\sup}_{sub} (Arg)"
                                                                      • \new txtoargsty*{\new [sub][sup][Arg] = "Name_sub_{sub}(Arg)"}
```

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329 \DeclareRobustCommand{\newtxtoargsty}
                                                              330 {\@ifstar{\@snewtxtoargsty}{\@newtxtoargsty}}
                                                              331 \DeclareRobustCommandx{\@newtxtoargsty}[2][2=]
                                                              332 {\newtxtoarg[\defval{#2}{#1}]}
                                                              333 \DeclareRobustCommandx{\@snewtxtoargsty}[2][2=]
                                                              334 {\newtxtoarg*[\defval{#2}{#1}]}
               \newtxtpar ... to do!
                                                                        \bullet \texttt{\ \ } \texttt{[Ext1] \{Par\}[Ext2]} = \texttt{\ \ \ } \texttt{\ \ } \texttt{Ext1[Par]Ext2"} 
                                                                       • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                       • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup_Ext1[Par]Ext2"
                                                                         \bullet \texttt{\newtxtpar*[\nmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2]} = "Name^{\sup}_{\sup} Ext1[Par] Ext2" 
                                                                        \bullet \texttt{\newtxtpar*[\sub][sub][sub][Ext1]{Par}[Ext2] = \texttt{``Name}^{sup}_{sub} \texttt{Ext1[Par]Ext2''} } 
                                                                        • \newtxtpar*[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name sup Ext1[Par]Ext2"
                                                              335 \DeclareRobustCommand{\newtxtpar}
                                                              336 {\@ifstar{\@snewtxtpar}{\@newtxtpar}}
                                                              337 \DeclareRobustCommandx{\Onewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                              338 {\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
                                                              339 \DeclareRobustCommandx{\@snewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                              340 {\newtxt*[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
   \newtxtparsty ... to do!
                                                                        \bullet \texttt{\newtxtparsty}(\texttt{\normally}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}\}[\texttt{Ext2}] = \texttt{\normall}(\texttt{Name}) \\ \texttt{\normall}(\texttt{\normall}(\texttt{Par})) \\ \texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\n
                                                                       • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name*sub*Ext1[Par]Ext2"
                                                                       • \newtxtparsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                       • \mbox{\newtxtparsty*{\nmfamily}{Name}[sub][sup][Ext1]{Par}[Ext2] = \mbox{\newtxtparsty*{\nmfamily}{Ext1[Par]Ext2"}}
                                                                        \bullet \texttt{\newtxtparsty*{\normalivg}[sub][sub][sub][Ext1]{Par}[Ext2] = \texttt{``Name}^{sup}_{sub} \texttt{Ext1[Par]Ext2''} 
                                                                        \bullet \mathtt{Name}_{sub}^{\mathsf{Sup}}[\mathsf{Ext1}] \\ \{\mathsf{Par}\}[\mathsf{Ext2}] = \mathtt{``Name}_{sub}^{\mathsf{Sup}}\mathsf{Ext1}[\mathsf{Par}] \\ \mathsf{Ext2}] \\ = \mathtt{``Name}_{sub}^{\mathsf{Sup}}\mathsf{Ext1}[\mathsf{Par}] \\ \mathsf{Ext2}[\mathsf{Par}] \\ \mathsf{Par}[\mathsf{Par}] \\ \mathsf
                                                              341 \DeclareRobustCommand{\newtxtparsty}
                                                              342 {\@ifstar{\@snewtxtparsty}{\@newtxtparsty}}
                                                              343 \DeclareRobustCommandx{\@newtxtparsty}[2][2=]
                                                              344 {\text{newtxtpar[\defval{#2}{#1}]}}
                                                              345 \DeclareRobustCommandx{\@snewtxtparsty}[2][2=]
                                                             346 {\texttt{newtxtpar*[\defval{#2}{#1}]}}
           \newtxtopar ... to do!
                                                                       • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Par]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sup}}[Par]}"
                                                                       • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                       \bullet \ \texttt{\ \ } [Sub] \ [Sup] \ [Par] = "Name_{sub}^{sup} \ [Par]"
                                                                        • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Par]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sup}}[Par]}"
                                                                        • \newtxtopar*[\ttfamily]{Name}[sub][sup][Par] = "Name_sup_[Par]"
                                                              347 \DeclareRobustCommand{\newtxtopar}
                                                              348 {\@ifstar{\@snewtxtopar}{\@newtxtopar}}
                                                              349 \DeclareRobustCommandx{\@newtxtopar}[5][1=, 3=, 4=, 5=]
                                                              350 {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
                                                              351 \DeclareRobustCommandx{\@snewtxtopar}[5][1=, 3=, 4=, 5=]
                                                              352 {\newtxtpar*[#1]{#2}[#3][#4][]{#5}[]}
\mbox{\ensuremath{\text{newtxtoparsty}}} ... to do!
                                                                        \bullet \verb| \newtxtoparsty{\new1} {\rm [sub] [sup] [Par]} = "Name_{\rm sub}^{\rm sup} [Par]" \\
                                                                       • \newtxtoparsty{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub[Par]"
                                                                        • \newtxtoparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                        • \mbox{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\newtxtoparsty*{\new
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• \newtxtoparsty*{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub_Par]"
                                  • \newtxtoparsty*{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sup_[Par]"
                            353 \DeclareRobustCommand{\newtxtoparsty}
                            354 {\@ifstar{\@snewtxtoparsty}{\@newtxtoparsty}}
                            355 \DeclareRobustCommandx{\@newtxtoparsty}[2][2=]
                            356 {\newtxtopar[\defval{#2}{#1}]}
                            357 \DeclareRobustCommandx{\@snewtxtoparsty}[2][2=]
                                      {\newtxtopar*[\defval{#2}{#1}]}
\txtsubsup ... to do!
                                   \bullet \texttt{ \txtsubsup\{sub\}\{\}} = \texttt{``sub''}; \texttt{\txtsubsup\{\}} = \texttt{``sup''}; \texttt{\txtsubsup\{sub\}} = \texttt{``sub''}; \texttt{\txtsubsub\{sub\}} = \texttt{``sub
                                  • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                  • \txtsubsup[\ttfamily]{Aa}{Bb} = \(\frac{\lambda Bb}{\text{Aa}}\)
                            359 \DeclareRobustCommand{\txtsubsup}[3][]
                                       {\ensuremath{\empchk{#2}{_{\text{#1#2}}}\empchk{#3}{^{\text{#1#3}}}}}
              \txt ... to do!
                                  • \txt{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                  • \text{txt[\scshape]}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{"Name}_{\text{SUB}}^{\text{SUP}}EXT"
                                  • \txt[\bfseries]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                  • \text{txt*{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext"}
                                  • \text{txt*[\scshape]} \{\text{Name}\} [\text{sub}] [\text{Ext}] = \text{"Name}_{\text{SUB}}^{\text{SUP}} Ext"
                                  • \txt*[\bfseries]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                            362 \DeclareRobustCommand{\txt}
                                       {\@ifstar{\newtxtsty*{\txtsty}}{\newtxtsty{\txtsty}}}
       \txtarg ... to do!
                                  • \text{txtarg{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}"
                                  • \text{txtarg[\scshape]} \{\text{Name}\} [\text{sub}] [\text{sup}] [\text{Ext1}] \{\text{Arg}\} [\text{Ext2}] = \text{"Name}_{\text{SUB}}^{\text{SUP}} Ext1 (\text{Arg}) Ext2"
                                   \bullet \texttt{ \txtarg[\bfseries] \{Name\}[sub] [sup] [Ext1] \{Arg\} [Ext2] = "Name} \\ \text{sub} \text{Ext1}(Arg) \text{Ext2"} 
                                  • \txtarg*{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                  • \txtarg*[\scshape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NAMESUBEXT1(ARG)EXT2"
                                   \verb| txtarg*[\bfseries]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2" 
                            364 \DeclareRobustCommand{\txtarg}
                                      {\@ifstar{\newtxtargsty*{\txtsty}}{\newtxtargsty{\txtsty}}}
     \txtoarg ... to do!
                                  • \txtoarg{Name}[sub][sup][Arg] = "Name<sub>sub</sub>(Arg)"
                                  • \txtoarg[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                                  • \text{txtoarg[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}] = \text{"Name}_{\text{sub}}^{\text{sup}}(\text{Arg})"
                                  • \txtoarg*{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                                  • \txtoarg*[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                                  • \txtoarg*[\bfseries]{Name}[sub][sup][Arg] = "Name^{sup}_{sub}(Arg)"
                            366 \DeclareRobustCommand{\txtoarg}
                                      {\@ifstar{\newtxtoargsty*{\txtsty}}{\newtxtoargsty{\txtsty}}}
      \txtpar ... to do!
                                  • \txtpar{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                  • \txtpar[\scshape] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "NAME_SUB_EXT1 [PAR] EXT2"
                                  • \txtpar[\bfseries] {Name} [sub] [sub] [Ext1] {Par} [Ext2] = "Name_sub_Ext1[Par]Ext2"
                                  • \txtpar*{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{\text{sub}}^{\text{sup}}Ext1[Par]Ext2"
```

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

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

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

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

412 \DeclareRobustCommand{\newmth}

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

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

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

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

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

```
436 \DeclareRobustCommand{\newmthoarg} 

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

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

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

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

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

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

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

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

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

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

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

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

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

### \newmthparsty ... to do!

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

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

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

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

```
• \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                  \mbox{\tt Name} [	ext{\tt Sub}] [	ext{\tt Sup}] [	ext{\tt Ext}] = \mbox{\tt Name}_{sub}^{sup} Ext
                                                                                                                                  \verb|\mbox| \verb| Mame| = \verb| Sub| = \verb| Name| = \verb| Name| = \verb| Sub| = \verb| Name| = Nam
                                                                                                488 \DeclareRobustCommand{\cmdmth}[1]
                                                                                                                             {\csdef{mth#1}%
                                                                                                                                                        {\@ifstar{\newmthsty*{mthsty#1}}}{\newmthsty{mthsty#1}}}}
                                                                                                490
       \cmdmtharg ... to do!
                                                                                                                  • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                 \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}|Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}|Ext2|
                                                                                                                               \verb| That is a constant of the constant of the
                                                                                                 491 \DeclareRobustCommand{\cmdmtharg}[1]
                                                                                                                                       {\csdef{mtharg#1}%
                                                                                                                                                        {\@ifstar{\newmthargsty*{mthsty#1}}}{\newmthargsty{mthsty#1}}}
                                                                                                 493
\cmdmthoarg ... to do!
                                                                                                                  • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                               \verb|\mbox| \verb|\mbox| | [Sup] [Arg^{Ex^{*}}] = \verb|\mbox| | [Arg^{E_x^{Ex}}] = \verb|\mbox| | [Arg^{E_x^
                                                                                                                               \verb|\mbox| \mbox{ $\mathbb{E}^{sup}$ [Sup] [Arg^{Ex^{Ex}}] = \mathbb{N}$ and $\sup_{sub} (Arg^{Ex^{Ex}})$ }
                                                                                                494 \DeclareRobustCommand{\cmdmthoarg}[1]
                                                                                                                               {\csdef{mthoarg#1}%
                                                                                                496
                                                                                                                                                        {\@ifstar{\newmthoargsty*{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
       \cmdmthpar ... to do!
                                                                                                                  • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                               \verb| mthparNewCmd*{Name}[sub][sup][Ext1]{Par^{Ex^{-}}{Ex}}] Ext2] = \verb| Name| sub| Ext1[Par^{Ex^{-}}] Ext2[Par^{Ex^{-}}] Ext2[Par^{Ex^{-}}
                                                                                                497 \DeclareRobustCommand{\cmdmthpar}[1]
                                                                                                                                  {\csdef{mthpar#1}%
                                                                                                                                                        {\@ifstar{\newmthparsty*{mthsty#1}}}{\newmthparsty{mthsty#1}}}
                                                                                                499
\cmdmthopar ... to do!
                                                                                                                   • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                               500 \DeclareRobustCommand{\cmdmthopar}[1]
                                                                                                                                    {\csdef{mthopar#1}%
                                                                                                                                                      {\@ifstar{\newmthoparsty*{mthsty#1}}}{\newmthoparsty{mthsty#1}}}}
                                                                                                502
       \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| | sub| Ext1 | Par^{Ex^{Ex}} | Ext2| = | sub| Ext1 | Par^{Ex^{Ex}} | Ext2| = | sub| Ext2| | 
                                                                                                                               503 \DeclareRobustCommand{\cmdmthall}[1]
                                                                                                                                 {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
```

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

\usrmth ... to do!

```
\usrmthlet ... to do!
                              528 \DeclareRobustCommandx{\usrmthlet}[4][4=]
                              529 \{ \text{wsrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqoflet \{ \#1 \#2 \} \{ mth \#3 \} \}
                              534 \iftxtgen@
             \txtdef ... to do!
                                   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{`txtpardef\{Name\}[sub][sup][Ext1]\{Par\}[Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2] 
                               535 %% Style for Definitions
                              536 \verb|\cmdtxtall{def}\\| \text{\cmand{\txtstydef}}| \text{\cmalfont\bfseries}| 
       \cmdtxtdef ... to do!
                                   • \cmdtxtdef{cmdName};
                                      \colon colon col
                                   • \cmdtxtdef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
                               537 \DeclareRobustCommandx{\cmdtxtdef}[2][2=]
                              538 {\usrtxt{#1}{}{def}[#2]}
 \verb|\cmdtxtargdef| \dots 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
                              539 \DeclareRobustCommandx{\cmdtxtargdef}[2][2=]
                              540 {\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)
                              541 \DeclareRobustCommandx{\cmdtxtoargdef}[2][2=]
                              542 \quad \{\texttt{\usrtxt} \#1\} \{\texttt{\pargdef} \#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
                               543 \DeclareRobustCommandx{\cmdtxtpardef}[2][2=]
                                      {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                   \cmdtxtopardef{cmdName};
                                      \cmdName[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                   \cmdtxtopardef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][par]| = newName_{sub}^{sub}[par]|
                              545 \DeclareRobustCommandx{\cmdtxtopardef}[2][2=]
                              546 {\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
                                  547 %% Style for Abbreviations
                                  548 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
        \cmdtxtabr ... to do!
                                       • \cmdtxtabr{cmdName};
                                           \colon colon col
                                       • \cmdtxtabr{cmdName}[newName];
                                           \verb|\cmdName[sub][sub][ext]| = newName_{\rm sub}^{\rm sub}ext
                                  549 \DeclareRobustCommandx{\cmdtxtabr}[2][2=]
                                          {\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_{sub}^{sub}ext1(arg)ext2
                                  551 \DeclareRobustCommandx{\cmdtxtargabr}[2][2=]
                                  552 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                                       • \cmdtxtoargabr{cmdName};
                                           \verb|\cmdName[sub][sub][arg]| = cmdName_{\rm sub}^{\rm sub}(arg)
                                       \cmdtxtoargabr{cmdName} [newName];
                                           \colon = newName[sub][sub][arg] = newName[sub](arg)
                                  553 \DeclareRobustCommandx{\cmdtxtoargabr}[2][2=]
                                  554 {\usrtxt{#1}{}{oargabr}[#2]}
  \cmdtxtparabr ... to do!
                                       • \cmdtxtparabr{cmdName};
                                           \cmdName[sub][sub][ext1][par][ext2] = cmdName[sub]ext1[par]ext2
                                       • \cmdtxtparabr{cmdName} [newName];
                                           \colon = [sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1[par]ext2]
                                  555 \DeclareRobustCommandx{\cmdtxtparabr}[2][2=]
                                  556 {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                                       • \cmdtxtoparabr{cmdName};
                                           \cmdName[sub][sub][par] = cmdName_{sub}^{sub}/par
                                       \cmdtxtoparabr{cmdName}[newName];
                                           \verb|\cmdName[sub][sub][par]| = newName_{\rm sub}^{\rm sub}/par|
                                  557 \DeclareRobustCommandx{\cmdtxtoparabr}[2][2=]
                                          {\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
                                        \bullet \ \texttt{\txtparname}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}\}[\texttt{Ext2}] = NAME^{SUP}_{SUB}EXT1[PAR]EXT2 
                                  560 %% Style for Names
                                  561 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
      \cmdtxtname ... to do!
```

```
\cmdtxtname{cmdName};
                                            \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                        \cmdtxtname{cmdName}[newName];
                                            562 \DeclareRobustCommandx{\cmdtxtname}[2][2=]
                                   563 {\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];
                                            564 \verb|\DeclareRobustCommandx{\cmdtxtargname}[2][2=]
                                           {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                        • \cmdtxtoargname{cmdName};
                                            \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                        • \cmdtxtoargname{cmdName}[newName];
                                            \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                   566 \DeclareRobustCommandx{\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|\newName[sub][ext1][PAR] = NEWNAME[sub][ext1][PAR] = NEWNAME[sub][ext1][PAR] = NEWNAME[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][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                   568 \DeclareRobustCommandx{\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]
                                   570 \DeclareRobustCommandx{\cmdtxtoparname}[2][2=]
                                   571 {\usrtxt{#1}{}{oparname}[#2]}
                \txtcom ... to do!
                                        • \t Name [sub] [sup] [Ext] = Name_{Sub}^{SUP} Ext
                                        • \txtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                        • \text{txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{Name}_{SUB}^{SUP} \text{Ext1}[Par] \text{Ext2}
                                   572 %% Style for Complexities
                                  573 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
          \cmdtxtcom ... to do!
                                        • \cmdtxtcom{cmdName};
                                            \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                        • \cmdtxtcom{cmdName}[newName];
                                            574 \DeclareRobustCommandx{\cmdtxtcom}[2][2=]
                                   575 {\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|\newName|_{SUB}^{SUB} EXT1(ARG) EXT2
                                                                576 \DeclareRobustCommandx{\cmdtxtargcom}[2][2=]
                                                                                 {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                                                          • \cmdtxtoargcom{cmdName};
                                                                                 \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                                                          • \cmdtxtoargcom{cmdName}[newName];
                                                                                 \verb|\cmdName[sub][sub][arg]| = NEWNAME^{SUB}_{SUB}(ARG)
                                                                 578 \DeclareRobustCommandx{\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]{Ext1}[PAR]{EXT2}
                                                                 580 \DeclareRobustCommandx{\cmdtxtparcom}[2][2=]
                                                                581 {\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]
                                                                 582 \DeclareRobustCommandx{\cmdtxtoparcom}[2][2=]
                                                                                {\usrtxt{#1}{}{oparcom}[#2]}
                                                                584 \fi
                                                                589 \ifmthgen@
                        \mthname ... to do!
                                                                          ullet \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                                                                           \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt
                                                                            \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{\ 
                                                                           590 %% Style for Names
                                                                591 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
                                             \dots \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}
                                                                592 \seqoflatupp{Name}{mthname}
            \cmdmthname ... to do!
                                                                          • \cmdmthname{CMDNAME};
                                                                                 \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                                                           • \cmdmthname{cmdName}[NEWNAME];
                                                                                 \verb|\cmdNameName[sub][sub][ext]| = \mathcal{NEWNAME}^{sub}_{sub}ext
                                                                 593 \DeclareRobustCommandx{\cmdmthname}[2][2=]
                                                                594 {\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
                                              595 \DeclareRobustCommandx{\cmdmthargname}[2][2=]
                                                         {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                                                    • \cmdmthoargname{CMDNAME};
                                                         \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                    • \cmdmthoargname{cmdName}[NEWNAME];
                                                         \verb|\cmdNameName[sub][sub][arg]| = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                              597 \DeclareRobustCommandx{\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
                                              599 \DeclareRobustCommandx{\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]
                                             601 \DeclareRobustCommandx{\cmdmthoparname}[2][2=]
                                                        {\usrmth{#1}{Name}{oparname}[#2]}
                      \mthfam ... to do!
                                                    • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N} \mathcal{A} \mathcal{M} \mathcal{E}_{sub}^{sup} Ext
                                                    • \mthargfam{NAME} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1 \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
                                                    603 %% Style for Families
                                             604 \mbox{ } {\mathbf{m}}{\mathbf{m}}{\mathbf{m}}{\mathbf{m}}{\mathbf{m}}{\mathbf{m}}
                           \AFam \dots to do!
                                 \ldots \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{F}, \mathscr{T}, \mathscr{V}, 
                                             605 \seqoflatupp{Fam}{mthfam}
             \cmdmthfam ... to do!
                                                    \cmdmthfam{CMDNAME};
                                                         \verb|\CMDNAMEFam[sub][sub][ext]| = \mathscr{CMDNAMEFam}[sub][sub][ext]| = \mathscr{CMDNAMEFam}[sub][sub][ext]|
                                                    • \cmdmthfam{cmdName}[NEWNAME]:
                                                         \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}^{sub}_{sub}ext
                                              606 \DeclareRobustCommandx{\cmdmthfam}[2][2=]
                                                       {\usrmth{#1}{Fam}{fam}[#2]}
     \cmdmthargfam ... to do!
```

```
\cmdmthargfam{CMDNAME};
                                                        • \cmdmthargfam{cmdName}[NEWNAME];
                                                        \label{lem:cmdNameFam} $$ \operatorname{Sub} [\operatorname{sub}] [\operatorname{sub}] [\operatorname{ext1}] = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg) ext2 $$
                                            608 \DeclareRobustCommandx{\cmdmthargfam}[2][2=]
                                                      {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                                                   \cmdmthoargfam{CMDNAME};
                                                        \verb|\CMDNAMEFam[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][sub][arg]|
                                                   • \cmdmthoargfam{cmdFam}[NEWNAME];
                                                        \cmbox{cmdFamFam[sub] [sub] [arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                             610 \DeclareRobustCommandx{\cmdmthoargfam}[2][2=]
                                            611 {\usrmth{#1}{Fam}{oargfam}[#2]}
  \cmdmthparfam ... to do!
                                                   • \cmdmthparfam{CMDNAME};
                                                        \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAMEFam}[sub][sub][ext1][par]ext2
                                                   • \cmdmthparfam{cmdName}[NEWNAME];
                                                        \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNMME}^{sub}_{sub}ext1[par]ext2
                                            612 \DeclareRobustCommandx{\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]
                                             614 \DeclareRobustCommandx{\cmdmthoparfam}[2][2=]
                                            615 {\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] = 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{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ 
                                                   • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2
                                                   • \mthparcls*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = NAME^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                             616 %% Style for Classes
                                            617 \mbox{ \cmdmthall{cls}\newcommand{\mbox{\mbox{\cmthstycls}}{\mbox{\mbox{\cmatheus}}}}
                         \ACls ... to do!
                               \dots A, B, C, D, E, F, G, H, I, J, X, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                            618 \seqoflatupp{Cls}{mthcls}
           \cmdmthcls ... to do!
                                                   \cmdmthcls{CMDNAME};
                                                        \verb|\CMDNAMECls[sub][sub][ext]| = \verb|\CMDNAME| sub| ext|
                                                   • \cmdmthcls{cmdName}[NEWNAME];
                                                        \cmdNameCls[sub][sub][ext] = NEWNAME_{sub}^{sub}ext
                                            619 \DeclareRobustCommandx{\cmdmthcls}[2][2=]
                                            620 {\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
                                                                   621 \DeclareRobustCommandx{\cmdmthargcls}[2][2=]
                                                                                   {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                                                              \cmdmthoargcls{CMDNAME};
                                                                                     \CMDNAMEC1s[sub][sub] [arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                                              \cmdmthoargcls{cmdCls}[NEWNAME];
                                                                                     \verb|\cmdClsCls[sub][sub][arg]| = NEWNAME_{sub}^{sub}(arg)
                                                                   623 \DeclareRobustCommandx{\cmdmthoargcls}[2][2=]
                                                                  624 {\usrmth{#1}{Cls}{oargcls}[#2]}
    \cmdmthparcls ... to do!
                                                                              \cmdmthparcls{CMDNAME};
                                                                                     \verb|\CMDNAMECls[sub][sub][ext1][par][ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1[par]ext2|
                                                                              • \cmdmthparcls{cmdName}[NEWNAME];
                                                                                     \cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2
                                                                    625 \DeclareRobustCommandx{\cmdmthparcls}[2][2=]
                                                                   626 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                             • \cmdmthoparcls{CMDNAME};
                                                                                     \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                              • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                                     \verb|\cmdClsCls[sub][par]| = \verb|NEWNAME|_{sub}^{sub}[par]|
                                                                   627 \DeclareRobustCommandx{\cmdmthoparcls}[2][2=]
                                                                   628 {\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 \left(Arg^{Ex^{Ex}}\right) Ext2
                                                                              • \mthargsig*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = \Re e^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                              \bullet \  \  \, \texttt{\bare}[Sub][Sub][Ext1] = \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] = \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] = \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] = \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] = \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] = \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] = \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] = \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] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex^{Ex}} \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex^{Ex}} \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex} \Big] = \mathcal{N} am
                                                                             \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{
                                                                    629 %% Style for Signatures
                                                                   630 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
                                      \aSig ... to do!
                                                \dots \ a, \ b, \ c, \ d, \ e, \ f, \ g, \ h, \ i, \ j, \ k, \ l, \ m, \ n, \ o, \ p, \ q, \ r, \ s, \ t, \ u, \ v, \ w, \ \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
                                                                   631 \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]| = \textit{NewName}^{sub}_{sub} ext|
                                                                    632 \DeclareRobustCommandx{\cmdmthsig}[2][2=]
                                                                   633 {\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
                                                                   634 \DeclareRobustCommandx{\cmdmthargsig}[2][2=]
                                                                                    {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                              \cmdmthoargsig{cmdName};
                                                                                    \verb|\cmdNameSig[sub][sub][arg]| = \textit{cmdName}_{sub}^{sub}(arg)
                                                                              • \cmdmthoargsig{cmdSig}[NewName];
                                                                                    \verb|\cmdSigSig[sub][sub][arg]| = \textit{NewName}^{sub}_{sub}(arg)
                                                                   636 \DeclareRobustCommandx{\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
                                                                   638 \DeclareRobustCommandx{\cmdmthparsig}[2][2=]
                                                                                  {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                             • \cmdmthoparsig{cmdName};
                                                                                    \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                              • \cmdmthoparsig{cmdSig}[NewName];
                                                                                    \verb|\cmdSigSig[sub][sub][par]| = \textit{NewName}^{sub}_{sub}[par]|
                                                                   640 \DeclareRobustCommandx{\cmdmthoparsig}[2][2=]
                                                                   641 {\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{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \  }} \texttt{\ \  }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \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{\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
                                                                   642 %% Style for Structures
                                                                   643 \mbox{ \cmdmthall{str}\newcommand{\mbox{\mbox{\cmthstystr}{\mbox{\cmdmthall{str}}}}
                                      \aStr ... to do!
                                               ... \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}, \mathfrak{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
                                                                   644 \sqoflatlet{Str}{mthstr}\sqofgrklow{Str}{mthstr}
                 \cmdmthstr ... to do!
                                                                             • \cmdmthstr{cmdName};
                                                                                    • \cmdmthstr{cmdName}[NewName];
                                                                                    \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{NewName}_{sub}^{sub} ext
                                                                   645 \DeclareRobustCommandx{\cmdmthstr}[2][2=]
                                                                   646 {\usrmth{#1}{Str}{str}[#2]}
    \cmdmthargstr ... to do!
                                                                              \cmdmthargstr{cmdName};
                                                                                    \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdMame| sub ext1(arg)ext2|
```

```
• \cmdmthargstr{cmdName} [NewName];
                                                                            \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                           647 \DeclareRobustCommandx{\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];
                                                                           \verb|\cmdStrStr[sub][sub][arg]| = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                           649 \DeclareRobustCommandx{\cmdmthoargstr}[2][2=]
                                                                          {\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];
                                                                           \label{lem:cmdNameStr} $$ \operatorname{Sub}[\operatorname{sub}][\operatorname{ext1}] = \mathfrak{NewName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                                                           651 \DeclareRobustCommandx{\cmdmthparstr}[2][2=]
                                                                         {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                    • \cmdmthoparstr{cmdName};
                                                                           \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                                                                     • \cmdmthoparstr{cmdStr}[NewName];
                                                                           \colored \
                                                           653 \DeclareRobustCommandx{\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{\ Name} \ \texttt{[sub] [sup] [Ext1] \{Arg^{\{Ex^{\{Ex\}\}}\}} \ \texttt{[Ext2]} \ = \ \texttt{Name} \\ \text{$^{sub}_{sub}$} Ext1(Arg^{Ex^{Ex}}) Ext2 \\ \text{\ } = \ \texttt{\ } \\ \text{\ } \\ 
                                                                    \bullet \  \, \texttt{\t Name} \  \, \texttt{\t [Sub] [Sub] [Ext1] \{Par^{Ex^{\{Ex\}}\}} \  \, \texttt{\t Ext2]}} \  \, = \  \, \texttt{\t Name} \  \, \texttt{\t Ext1} \  \, \Big[ Par^{Ex^{Ex}} \Big] \  \, Ext2
                                                                     655 %% Style for Sets
                                                           656 \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
                                                           657 \seqoflet{Set}{mthset}
               \cmdmthset ... to do!
                                                                     \cmdmthset{cmdName};
                                                                           \verb|\cmdNameSet[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                    • \cmdmthset{cmdName}[NewName];
                                                                           \cmdNameSet[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                           658 \DeclareRobustCommandx{\cmdmthset}[2][2=]
                                                                         {\usrmth{#1}{Set}{set}[#2]}
   \cmdmthargset ... to do!
                                                                     \cmdmthargset{cmdName};
                                                                            \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargset{cmdName}[NewName];
                                                                                             \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                         660 \DeclareRobustCommandx{\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];
                                                                                             \verb|\cmdSetSet[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                                                         662 \DeclareRobustCommandx{\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];
                                                                                             \cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                          664 \DeclareRobustCommandx{\cmdmthparset}[2][2=]
                                                                         665 {\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]|
                                                                         666 \DeclareRobustCommandx{\cmdmthoparset}[2][2=]
                                                                         667 {\usrmth{#1}{Set}{oparset}[#2]}
    \cmdmthsetext ... to do!
                                                                         668 \DeclareRobustCommandx{\cmdmthsetext}[3][2=, 3=]
                                                                         669 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                                                         670 \usrmthlet{\thestring}{Sym}{sym}
                                                                                                            [\defval{#3}{\defval{\empchk{#2}}{\lowercase{#2}}}{\thestring}}]%
                                                                         672 \usrmthlet{\thestring}{Elm}{elm}
                                                                         673
                                                                                                            [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}} \label{eq:lowercase{*2}} \label{eq:
                                 \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
                                                                                     \bullet \ \texttt{\normalfine}[sub][sup][Ext1] \\ \{ Par^{Ex^{f}} \} \} \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext2 \\ = Name_{sub}^{sub} Ext2 \\ = Nam_{sub}^{sub} Ext2 \\ = Nam_{sub}^{sub} E
                                                                                     \bullet \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }
                                                                          674 %% Style for Relations
                                                                         675 \mbox{ } \mbox{mthall{rel}\newcommand{\mbox{mthstyrel}{\mathbb{}}} \
                                          \aRel ... to do!
                                                    \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                      A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                                                      \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
                                                                         676 \seqoflet{Rel}{mthrel}
                  \cmdmthrel ... to do!
                                                                                    • \cmdmthrel{cmdName};
```

 $\verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext$ 

```
• \cmdmthrel{cmdName}[NewName];
                                                  \colon dNameRel[sub][sub][ext] = NewName_{sub}^{sub}ext
                                       677 \DeclareRobustCommandx{\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
                                       679 \DeclareRobustCommandx{\cmdmthargrel}[2][2=]
                                                {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                             • \cmdmthoargrel{cmdName};
                                                 \cmdNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                             • \cmdmthoargrel{cmdRel}[NewName];
                                                 \verb|\cmdRelRel[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                       681 \DeclareRobustCommandx{\cmdmthoargrel}[2][2=]
                                       682 {\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|
                                       683 \DeclareRobustCommandx{\cmdmthparrel}[2][2=]
                                                  {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                             • \cmdmthoparrel{cmdName};
                                                 \cmdNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                             • \cmdmthoparrel{cmdRel}[NewName];
                                                  \colon dRelRel[sub][sub][par] = NewName_{sub}^{sub}[par]
                                       685 \DeclareRobustCommandx{\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][sub][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} = \  \, \texttt{\bar{Name}} \  \, \texttt{\ba
                                             687 %% Style for Functions
                                       688 \mbox{\mbox{\mbox{$\sim$}}{\mbox{\mbox{$\sim$}}}{\mbox{\mbox{$\sim$}}}{\mbox{\mbox{$\sim$}}}
                           ... 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
                                       689 \seqoflet{Fun}{mthfun}
         \cmdmthfun ... to do!
                                             \cmdmthfun{cmdName};
                                                  \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
```

```
• \cmdmthfun{cmdName} [NewName];
                                                         \cmdNameFun[sub][sub][ext] = NewName_{sub}^{sub}ext
                                            690 \DeclareRobustCommandx{\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
                                            692 \DeclareRobustCommandx{\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)
                                             694 \DeclareRobustCommandx{\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];
                                                        696 \DeclareRobustCommandx{\cmdmthparfun}[2][2=]
                                                        {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                                                   • \cmdmthoparfun{cmdName};
                                                        \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                    • \cmdmthoparfun{cmdFun}[NewName];
                                                         \colon [sub] [sub] [par] = NewName_{sub}^{sub} [par]
                                             698 \DeclareRobustCommandx{\cmdmthoparfun}[2][2=]
                                                        {\usrmth{#1}{Fun}{oparfun}[#2]}
                    \mthsym ... to do!
                                                   • \mthsym{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                    • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                    \bullet \  \  \, \texttt{\bare}^{sup}[\texttt{Ext1}] \  \, \texttt{\bare}^{sup}[\texttt{Ext2}] \  \, = \  \  \, \texttt{\bare}^{sup}_{sub} Ext1 (Arg^{Ex^{Ex}}) Ext2 \  \, = \  \, \texttt{\bare}^{sup}_{sub} Ext1 (Arg^{Ex^{Ex}}) Ext2 \  \, = \  \, \texttt{\bare}^{sup}_{sub} Ext2 \  \, = \  \, \texttt{\bare}^{sub}_{sub} Ext
                                                   \bullet \  \, \texttt{\bar{Ext1}[Ext1]} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\}\\ + \mathtt{\bar{Ext2}} = \mathtt{\bar{Ext1}}\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathtt{\bar{Ext1}}\Big[Par^{Ex^{Ex}}\Big]Ext2\Big]
                                                    • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                             700 %% Style for Symbols
                                             701 \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
                                            702 \seqoflet{Sym}{mthsym}
           \cmdmthsym ... to do!
                                                    \cmdmthsym{cmdName};
                                                        \cmdNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
```

```
\cmdmthsym{cmdName} [NewName];
                                                                                   \colon colon col
                                                                  703 \DeclareRobustCommandx{\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
                                                                  705 \DeclareRobustCommandx{\cmdmthargsym}[2][2=]
                                                                                  {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                           • \cmdmthoargsym{cmdName};
                                                                                   • \cmdmthoargsym{cmdSym}[NewName];
                                                                                   \verb|\cmdSymSym[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                                  707 \DeclareRobustCommandx{\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|
                                                                  709 \DeclareRobustCommandx{\cmdmthparsym}[2][2=]
                                                                                     {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                           • \cmdmthoparsym{cmdName};
                                                                                   • \cmdmthoparsym{cmdSym}[NewName];
                                                                                   \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                  711 \DeclareRobustCommandx{\cmdmthoparsym}[2][2=]
                                                                                  {\usrmth{#1}{Sym}{oparsym}[#2]}
                             \mbox{\mbox{\it mthelm}} ... to do!
                                                                           • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                            \bullet \verb| \t Mame | [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} | [Ext2] = Name_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 | (Arg^{Ex^{Ex}}) | [Ext2] | (Arg^{Ex^{Ex}}) | (Arg^{Ex}) | (Arg^{E
                                                                            • \mthargelm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{-}})Ext2
                                                                            \bullet \ \texttt{\normalfont{Name}[sub][sup][Ext1][Par^{Ex^{}}]} [Ext2] = Name_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = Name_{sub}^{sup} Ext2 \\ = Nam_{sub}^{sup} Ext2 \\ = Name_{sub}^{sup} E
                                                                            • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                  713 %% Style for Elements
                                                                  714 \mbox{ }\mbox{mthall{elm}\newcommand{\mbox{mthstyelm}{\mbox{mathnormal}}}
                                              \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                              A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                              \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                              A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                                                 715 \seqoflet{Elm}{mthelm}
                \cmdmthelm ... to do!
                                                                            \cmdmthelm{cmdName};
```

 $\verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext$ 

```
• \cmdmthelm{cmdName}[NewName];
                         \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                    716 \DeclareRobustCommandx{\cmdmthelm}[2][2=]
                         {\usrmth{#1}{Elm}{elm}[#2]}
   \cmdmthargelm ... to do!
                       \cmdmthargelm{cmdName};
                         \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                       • \cmdmthargelm{cmdName}[NewName];
                         \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                    718 \DeclareRobustCommandx{\cmdmthargelm}[2][2=]
                         {\usrmth{#1}{Elm}{argelm}[#2]}
  \cmdmthoargelm ... to do!
                       \cmdmthoargelm{cmdName};
                         \colon = cmdNameElm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                       • \cmdmthoargelm{cmdElm}[NewName];
                         \cmbox{cmdElmElm[sub] [sub] [arg]} = NewName_{sub}^{sub}(arg)
                    720 \DeclareRobustCommandx{\cmdmthoargelm}[2][2=]
                        {\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
                    722 \DeclareRobustCommandx{\cmdmthparelm}[2][2=]
                         {\usrmth{#1}{Elm}{parelm}[#2]}
  \cmdmthoparelm ... to do!
                       \cmdmthoparelm{cmdName};
                         \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                       • \cmdmthoparelm{cmdElm}[NewName];
                         \cmdElmElm[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                    724 \DeclareRobustCommandx{\cmdmthoparelm}[2][2=]
                         {\usrmth{#1}{Elm}{oparelm}[#2]}
   \cmdmthsymelm ... to do!
                       • \cmdmthsymelm{cmdName};
                         \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                         \colon dNameElm[sub][sub][ext] = cmdName^{sub}_{sub}ext
                       • \cmdmthsymelm{cmdName}[NewName];
                          \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub}ext|
                          \verb|\cmdNameElm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                    727 \DeclareRobustCommandx{\cmdmthsymelm}[2][2=]
                          {\cmdmthsym{#1}[#2]%
                    729
                          \cmdmthelm{#1}[#2]}
\cmdmthargsymelm ... to do!
                       \cmdmthargsymelm{cmdName};
                         \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|| 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
```

```
730 \DeclareRobustCommandx{\cmdmthargsymelm}[2][2=]
                                                                        {\cmdmthargsym{#1}[#2]%
                                                        732
                                                                        \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                                                \cmdmthoargsymelm{cmdName};
                                                                      \cmbox{\cmdNameSym[sub][sub][arg]} = cmdName_{sub}^{sub}(arg)
                                                                      \verb|\cmdNameElm[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                                                • \cmdmthoargsymelm{cmdName}[NewName];
                                                                     \colon = \
                                                                     \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                         733 \DeclareRobustCommandx{\cmdmthoargsymelm}[2][2=]
                                                                        {\cmdmthoargsym{#1}[#2]%
                                                                        \cmdmthoargelm{#1}[#2]}
  \cmdmthparsymelm ... to do!
                                                                \cmdmthparsymelm{cmdName};
                                                                      \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{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
                                                         736 \DeclareRobustCommandx{\cmdmthparsymelm}[2][2=]
                                                                        {\cmdmthparsym{#1}[#2]%
                                                                        \cmdmthparelm{#1}[#2]}
                                                         738
\cmdmthoparsymelm ... 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]|
                                                        739 \DeclareRobustCommandx{\cmdmthoparsymelm}[2][2=]
                                                                        {\cmdmthoparsym{#1}[#2]%
                                                                        \cmdmthoparelm{#1}[#2]}
                                                        \mthluop ... to do!
                                                                \bullet \ \texttt{\bary [sub] [sup] [Ext]} = \oplus_{sub}^{sup} Ext ]
                                                                ullet \mthlbop{\oplus}[sub][sup][Ext] = \oplus_{sub}^{sup}Ext
                                                        743 %% Style for \LaTex Operators
                                                         744 \cmdmth{luop}\newcommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                                        745 \mbox{cmdmth{lbop}\newcommand{\mbstylbop}[1]{\textstyle}mathbin{#1}}
                 \cmdmthluop ... to do!
                                          . . .
                                                               • \cmdmthluop{cmdName};
                                                                     \verb|\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
                                                         746 \DeclareRobustCommandx{\cmdmthluop}[2][2=]
                                                                        {\usrmth{#1}{UOp}{luop}[#2]}
                                                         748 \DeclareRobustCommandx{\cmdmthlbop}[2][2=]
                                                                       {\usrmth{#1}{BOp}{lbop}[#2]}
```

```
\mthlrel ... to do!
                                                                                  • \mthlrel{\preceq}[sub][sup][Ext] = \preceq_{sub}^{sup} Ext
                                                                       750 %% Style for \LaTex Relations
                                                                       751 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
             \cmdmthlrel ... to do!
                                                                                  • \cmdmthlrel{cmdName};
                                                                                         \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                                  • \cmdmthlrel{cmdName}[\preceq];
                                                                                          \colon 
                                                                       752 \DeclareRobustCommandx{\cmdmthlrel}[2][2=]
                                                                                       {\usrmth{#1}{Rel}{lrel}[#2]}
                                                                       \mthsnt ... to do!
                                                                                  • \mthsnt{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                                                                  • \mthargsnt{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                  • \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 \
                                                                                  \bullet \  \, \texttt{Name} \texttt{[sub][sup][Ext1]} \texttt{\{Par^{Ex^{Ex}}\}} \texttt{[Ext2]} = \mathsf{Name}_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2 = \mathsf{Name}_{sub}^{sup} Ext2 = \mathsf{Name}_{sub}
                                                                       755 %% Style for Sentences
                                                                       756 \cmdmthall{snt}\newcommand{\mthstysnt}{\mathsf}
                                                  ... 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
                                                                       757 \seqoflet{Snt}{mthsnt}
                 \cmdmthsnt ... to do!
                                                                                  \cmdmthsnt{cmdName};
                                                                                          \colon = cmdNameSnt[sub][sub][ext] = cmdName<math>_{sub}^{sub}ext
                                                                                  • \cmdmthsnt{cmdName}[NewName];
                                                                                          \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                                       758 \DeclareRobustCommandx{\cmdmthsnt}[2][2=]
                                                                                        {\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];
                                                                                         \c NameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                       760 \DeclareRobustCommandx{\cmdmthargsnt}[2][2=]
                                                                       761 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                                                                                  \cmdmthoargsnt{cmdName};
                                                                                         \colon = cmdNameSnt[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                                                                  • \cmdmthoargsnt{cmdName}[NewName];
                                                                                         \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                                       762 \DeclareRobustCommandx{\cmdmthoargsnt}[2][2=]
                                                                       763 {\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|
                                                 764 \DeclareRobustCommandx{\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]
                                                 766 \DeclareRobustCommandx{\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
                                                 768 %% Style for Formulae
                                                 769 \mbox{\cmdmthall{frm}\newcommand{\mbstyfrm}{\mbox{\cmthit}}}
                           \arrange Trm ... to do!
                                  \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                              A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                              \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                             770 \seqoflet{Frm}{mthfrm}
            \cmdmthfrm ... to do!
                                                       • \cmdmthfrm{cmdName};
                                                             \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                        • \cmdmthfrm{cmdName}[NewName];
                                                             \colon = NewName = NewNa
                                                 771 \DeclareRobustCommandx{\cmdmthfrm}[2][2=]
                                                772 {\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
                                                 773 \DeclareRobustCommandx{\cmdmthargfrm}[2][2=]
                                                 774 {\usrmth{#1}{Frm}{argfrm}[#2]}
\c 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)
                                                775 \DeclareRobustCommandx{\cmdmthoargfrm}[2][2=]
                                                776 {\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];
                      777 \DeclareRobustCommandx{\cmdmthparfrm}[2][2=]
                 778 {\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]
                 779 \DeclareRobustCommandx{\cmdmthoparfrm}[2][2=]
                      {\usrmth{#1}{Frm}{oparfrm}[#2]}
                 \mthmat ... to do!
                    • \mathbb{E}_{sub}[sub][sup][Ext] = 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^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                    • \mthparmat*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                  782 %% Style for Matrices
                 783 \mbox{\mbox{$\mathsf{\#1}}} \mbox{\mbox{$\mathsf{\#1}$}}
          \aMat ... to do!
            \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                 784 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                    • \cmdmthmat{cmdName};
                      \colon dNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                    • \cmdmthmat{cmdName}[NewName];
                      \verb|\cmdNameMat[sub][sub][ext]| = \verb| NewName| _{sub}^{sub} ext|
                  785 \DeclareRobustCommandx{\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];
                      \cmdNameMat[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                 787 \DeclareRobustCommandx{\cmdmthargmat}[2][2=]
                 788 {\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)
                  789 \DeclareRobustCommandx{\cmdmthoargmat}[2][2=]
                  790 {\usrmth{#1}{Mat}{oargmat}[#2]}
```

```
\cmdmthparmat ... to do!
                                                        • \cmdmthparmat{cmdName};
                                                             \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1[par]ext2|
                                                        • \cmdmthparmat{cmdName}[NewName];
                                                             \c NewName Sub [sub] [sub] [ext1] [par] [ext2] = NewName Sub ext1[par] ext2
                                                 791 \DeclareRobustCommandx{\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}_{sub}[par]|
                                                 793 \DeclareRobustCommandx{\cmdmthoparmat}[2][2=]
                                                794 {\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
                                                        \bullet \ \texttt{\normalfont{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}} [\texttt{Ext2}] = \textit{Name}^{sup}_{sub} Ext1(Arg^{Ex^{Ex}}) Ext2
                                                        • \mthparvec{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                        \bullet \  \, \texttt{\colored}[sub][sub][Ext1] \{ Par^{\{Ex^{\{Ex\}}\}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = Name_{sub}^{sub}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^{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}]Ext2[Par^{Ex}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ex
                                                 795 %% Style for Vectors
                                                 796 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
                           \aVec ... to do!
                                  \dots \ a, \ b, \ c, \ d, \ e, \ f, \ g, \ h, \ i, \ j, \ k, \ l, \ m, \ n, \ o, \ p, \ q, \ r, \ s, \ t, \ u, \ v, \ w, \ x, \ y, \ z
                                              A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                              \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                              A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                797 \seqoflet{Vec}{mthvec}
            \cmdmthvec ... to do!
                                                        • \cmdmthvec{cmdName};
                                                             \colon colon col
                                                        • \cmdmthvec{cmdName}[NewName];
                                                             \verb|\cmdNameVec[sub][sub][ext]| = NewName^{sub}_{sub}ext
                                                798 \DeclareRobustCommandx{\cmdmthvec}[2][2=]
                                                799 {\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
                                                 800 \DeclareRobustCommandx{\cmdmthargvec}[2][2=]
                                                801 {\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)
                                                 802 \DeclareRobustCommandx{\cmdmthoargvec}[2][2=]
                                                803 {\usrmth{#1}{Vec}{oargvec}[#2]}
```

```
\cmdmthparvec ... to do!
                • \cmdmthparvec{cmdName};
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                • \cmdmthparvec{cmdName} [NewName];
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = NewName^{sub}_{sub}ext1[par]ext2
              804 \DeclareRobustCommandx{\cmdmthparvec}[2][2=]
                  {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                • \cmdmthoparvec{cmdName};
                  \verb|\cmdNameVec[sub][sub][par]| = cmdName^{sub}_{sub}[par]|
                • \cmdmthoparvec{cmdName}[NewName];
                  \verb|\cmdNameVec[sub][sub][par]| = NewName_{sub}^{sub}[par]|
              806 \DeclareRobustCommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
              808 \fi
              813 \iftxt@
     \dotcheck
                • A\dotcheck a\dotcheck.a = A.a. a
              814 \DeclareRobustCommand{\dotcheck}
                  {\@ifnextchar.{}{.\@}}
              \adhoc
                • \adhoc = ad\ hoc
              817 \cmdtxtabr{adhoc}[ad hoc]
                • \arrange afortiori = a fortiori
    \afortiori
              818 \mbox{ } \mbox{cmdtxtabr{afortiori}[a fortiori]}
      \apriori
                • \apriori = a priori
              819 \cmdtxtabr{apriori}[a priori]
                • \arrowvertaposteriori = a\ posteriori
  \aposteriori
              820 \cmdtxtabr{aposteriori}[a posteriori]
                • \backslash cf = cf.
          \cf
              821 \cmdtxtabr{cf}[cf.\@]
                • \del{dedicto} = de \ dicto
      \dedicto
              822 \cmdtxtabr{dedicto}[de dicto]
                • \del{defacto} = de \ facto
      \defacto
              823 \cmdtxtabr{defacto}[de facto]
                • \forall dere = de re
        \dere
              824 \cmdtxtabr{dere}[de re]
                • \foralldivideetimpera = divide et impera
\divideetimpera
              825 \cmdtxtabr{divideetimpera}[divide et impera]
          \eg
                • \backslash eg = e.g.
              826 \cmdtxtabr{eg}[e.g.\@]
```

```
\ergo
                    ◆ \ergo = ergo
                  827 \cmdtxtabr{ergo}
                    • \errata = errata
         \errata
                  828 \cmdtxtabr{errata}
        \erratum
                    • \erratum = erratum
                  829 \cmdtxtabr{erratum}
           \etal
                    • \ensuremath{\backslash} \mathtt{etal} = et \ al.
                  830 \cmdtxtabr{etal}[et al.\@]
            \etc
                    • \backslashetc = etc.
                  831 \cmdtxtabr{etc}[etc.\@]
             \ie
                    • \forallie = i.e.
                  832 \cmdtxtabr{ie}[i.e.\@]
                    • \mbox{\mbox{\tt mutatis}} mutandis = mutatis mutandis
\mutatismutandis
                  833 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
      \percontra
                    • \percontra = per contra
                  834 \cmdtxtabr{percontra}[per contra]
     \primafacie
                    ullet \primafacie = prima\ facie
                  835 \cmdtxtabr{primafacie}[prima facie]
      \viceversa
                    • \viceversa = vice versa
                  836 \cmdtxtabr{viceversa}[vice versa]
                    • \vert vs = vs.
             \vs
                  837 \cmdtxtabr{vs}[vs.\@]
            \viz
                    • \forall viz = viz.
                  838 \cmdtxtabr{viz}[viz.\@]
                  \Afortiori
                    • \Afortiori = A fortiori
                  840 \cmdtxtabr{Afortiori}[A fortiori]
        \Apriori
                    • \Apriori = A priori
                  841 \cmdtxtabr{Apriori}[A priori]
    \Aposteriori
                    • \Aposteriori = A posteriori
                  842 \cmdtxtabr{Aposteriori}[A posteriori]
                    \Dedicto
                  843 \cmdtxtabr{Dedicto}[De dicto]
        \Defacto
                    844 \cmdtxtabr{Defacto} [De facto]
           \Dere
                    • \Dere = De re
                  845 \cmdtxtabr{Dere}[De re]
                    • \Divideetimpera = Divide \ et \ impera
 \Divideetimpera
                  846 \cmdtxtabr{Divideetimpera}[Divide et impera]
```

```
\Eg • \Eg = E.g.
             847 \cmdtxtabr{Eg}[E.g.\@]
               • \Errata = Errata
      \Errata
             848 \cmdtxtabr{Errata}
      \Erratum
               • \Erratum = Erratum
             849 \cmdtxtabr{Erratum}
               • \Mutatismutandis = Mutatis mutandis
\Mutatismutandis
             850 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
    \Percontra
               • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
             851 \cmdtxtabr{Percontra}[Per contra]
                \bullet \ \ \verb|\Primafacie| = Prima\ facie \\
   \Primafacie
             852 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
               • \forall Viceversa = Vice versa
             853 \cmdtxtabr{Viceversa}[Vice versa]
             • \alphala = \grave{a} la
         \ala
             857 \cmdtxtabr{ala}[\'a la]
        \n
               • \n naif = naif
             858 \cmdtxtabr{naif}[na\"{i}f]
       \naive
               859 \cmdtxtabr{naive}[na\"{i}ve]
        \role
              • \role = r\hat{o}le
              860 \cmdtxtabr{role}[r\^{o}le]
             \Role
               • \label{eq:Role} \operatorname{Role} = R \hat{o} l e
             862 \mbox{ \cmdtxtabr{Role}[R\^{o}le]}
             \aka
               864 \cmdtxtabr{aka}[a.k.a.\@]
       \contd
               • \contd = contd.
             865 \cmdtxtabr{contd}[contd.\@]
               • \setminus iff = iff
         \iff
             866 \cmdtxtabr{iff}
               • \iht = i.h.t.
         \iht
             867 \cmdtxtabr{iht}[i.h.t.\@]
```

```
\stx
                      • \ \ \ \ stx = s.t.
                  868 \cmdtxtabr{stx}[s.t.\@]
     \resp
                      • \resp = resp.
                  869 \cmdtxtabr{resp}[resp.\@]
       \wrt
                      870 \cmdtxtabr{wrt}[w.r.t.\@]
    \wlogx
                      • \wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\w
                  871 \cmdtxtabr{wlogx}[w.l.o.g.\@]
                  \Contd
                      • \Contd = Contd.
                  873 \cmdtxtabr{Contd}[Contd.\@]
   \Wlogx
                      • \W log x = W.l.o.g.
                  874 \cmdtxtabr{Wlogx}[W.l.o.g.\@]
                  880 \ifmth@
                  \defeq ...
    \seteq 882 \DeclareRobustCommand{\defeq}
                  883
                          {\@ifstar%
                  884
                               {\bf \{\text{\textup{def}}\}{=}}}%
                  885
                               {\mthlbop{\triangleq}}}
                  886 \DeclareRobustCommand{\seteq}
                          {\@ifstar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
                  \limp ...
         · · · 889 \DeclareRobustCommand{\limp}
                  890 {\mthlbop{\rightarrow}}
 \lcoimp ...
         · · · 891 \DeclareRobustCommand{\lcoimp}
                         {\mthlbop{\leftrightarrow}}
                  \implies ...
                 894 \DeclareRobustCommand{\implies}
                         {\mthlrel{\Rightarrow}}
                  896 \DeclareRobustCommand{\notimplies}
                 897 {\mthlrel{\not\Rightarrow}}
\implied ...
         · · · 898 \DeclareRobustCommand{\implied}
                  899 {\mthlrel{\Leftarrow}}
                  900 \DeclareRobustCommand{\notimplied}
                  901 {\bf \{\not\Leftarrow\}}
```

```
\coimplies ...
      ••• 902 \DeclareRobustCommand{\coimplies}
          903 {\mthlrel{\Leftrightarrow}}
          904 \DeclareRobustCommand{\notcoimplies}
          905 {\bf \{not\!\Leftrightarrow\}}
          \cmodels ...
          907 \DeclareRobustCommand{\cmodels}
          908 {\mthlrel{\models}}
          909 \DeclareRobustCommand{\notcmodels}
          910 {\mthlrel{\not\models}}
   \cequiv ...
      ··· 911 \DeclareRobustCommand{\cequiv}
          912 {\mthlrel{\equiv}}
          913 \DeclareRobustCommand{\notcequiv}
          914 {\mthlrel{\not\equiv}}
          \denot ...
          916 \DeclareRobustCommand{\denot}
          917 {\@ifstar{\@sdenot}{\@denot}}
          918 \DeclareRobustCommand{\@denot}[1]
             {\mth{\argmid{\left\llbracket}{#1}{\right\rrbracket}}}
          920 \DeclareRobustCommand{\@sdenot}[1]
              {\mth*{\argmid{\llbracket}{#1}{\rrbracket}}}
          \dual ...
     \adj 923 \DeclareRobustCommand{\dual}[1]
      \dots 924 {\mth{\overline{#1}}}
          925 \DeclareRobustCommand{\adj}[1]
          926 {\mth{\mathring{#1}}}
          927 \DeclareRobustCommand{\der}[1]
          928 {\mth{\widehat{#1}}}
          929 \DeclareRobustCommand{\trn}[1]
          930 {\mth{\widetilde{#1}}}
      \vec ...
          931 \DeclareRobustCommand{\vec}
          932 {\c}^{0} {\\ 0 if star{\\ 0 svec}{\\ 0 vec}}
          933 \DeclareRobustCommand{\@vec}[1]
          934 {\bf 1}
          935 \DeclareRobustCommand{\@svec}[1]
          936 {\mth{\overline{#1}}}
          \enumeration ...
          938 \varcmd{enumeration}{\mth*}{}{,}{}}
          \sequence ...
          940 \DeclareRobustCommand{\sequence}
          941 {\@ifstar{\@ssequence}{\@sequence}}
          943 \ \c){\{0,\}{\}}}
          944 \DeclareRobustCommand{\sequencel}
             {\@ifstar{\@ssequencel}{\@sequencel}}
          946 \varcmd{@sequencel}{\mth}{\left[}{,}{\right.}{}
```

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947 \varcmd{@ssequencel}{\mth*}{[]{,}{}}
              948 \DeclareRobustCommand{\sequencer}
              949 {\@ifstar{\@ssequencer}{\@sequencer}}
              950 \varcmd{@sequencer}{\mth}{\left.}{,}{\right]}{}
              951 \varcmd{@ssequencer}{\mth*}{}{,}{]}{}
              952 \DeclareRobustCommand{\sequencex}
              953 {\@ifstar{\@ssequencex}{\@sequencex}}
              954 \varcmd{@sequencex}{\mth}{\left[}{;}{\right]}{}
              955 \varcmd{@ssequencex}{\mth*}{[]{;}{]}{}
              956 \DeclareRobustCommand{\sequencex1}
                       {\@ifstar{\@ssequencexl}{\@sequencexl}}
              958 \varcmd{@sequencexl}{\mth}{\left[}{;}{\right.}{}
              959 \varcmd{@ssequencex1}{\mth*}{[]{;}{}}
              960 \DeclareRobustCommand{\sequencexr}
                       {\@ifstar{\@ssequencexr}{\@sequencexr}}
              962 \varcmd{@sequencexr}{\mth}{\left.}{;}{\right]}{}
              963 \varcmd{@ssequencexr}{\mth*}{}{;}{]}{}
\tuple ...
     . . .
             964 \DeclareRobustCommand{\tuple}
              965 {\@ifstar{\@stuple}{\@tuple}}
              966 \varcmd{Otuple}{\mth}{\left\langle}{,}{\right\rangle}{}
              967 \varcmd{@stuple}{\mth*}{\langle}{,}{\rangle}{}
              968 \DeclareRobustCommand{\tuplel}
                       {\@ifstar{\@stuplel}{\@tuplel}}
              970 \varcmd{@tuplel}{\mth}{\left\langle}{,}{\right.}{}
              971 \varcmd{@stuplel}{\mth*}{\langle}{,}{}}
              972 \DeclareRobustCommand{\tupler}
                       {\@ifstar{\@stupler}{\@tupler}}
              975 \varcmd{@stupler}{\mth*}{}{,}{\rangle}{}
              976 \DeclareRobustCommand{\tuplex}
                       {\@ifstar{\@stuplex}{\@tuplex}}
              978 \c {\tt Qtuplex}{\tt hth}{\tt left\langle}{\tt;}{\tt right\rangle}{\tt}
              979 \varcmd{@stuplex}{\mth*}{\langle}{;}{\rangle}{}
              980 \DeclareRobustCommand{\tuplex1}
                       {\@ifstar{\@stuplexl}}
              982 \varcmd{@tuplexl}{\mth}{\left\langle}{;}{\right.}{}
              983 \ \ensuremath{\mth*}{\ngle}{;}{}{}
              984 \DeclareRobustCommand{\tuplexr}
              985 {\@ifstar{\@stuplexr}{\@tuplexr}}
              986 \varcmd{@tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
              987 \ \ensuremath{\mth*}{}{;}{\ngle}{}
              \set ...
              989 \DeclareRobustCommand{\set}
                      {\@ifstar{\@sset{\vert}}{\@set{\vert}}}
              991 \DeclareRobustCommand{\setx}
                      {\@ifstar{\@sset{:}}{\@set{.\!:}}}
              993 \DeclareRobustCommand{\@set}[3]
                       {\bf \{\nth{\argmid{\left(\hrace}}_{\nth{\argmid{\left(\hrace}}_{\nth{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid{\left(\hrace}}_{\nthf{\argmid
              995 \DeclareRobustCommand{\@sset}[3]
                      {\mth*{\argmid{\lbrace}{\argsep{#2}{\,#1\,}{#3}}{\rbrace}}}
              997 \DeclareRobustCommand{\set1}
                      {\@ifstar{\@ssetl{\vert}}{\@setl{\vert}}}
              999 \DeclareRobustCommand{\setlx}
                      {\@ifstar{\@ssetl{:}}{\@setl{.\!\!\!:}}}
            1001 \DeclareRobustCommand{\@set1}[2]
                     {\mth{\argmid{\left\lbrace}{#2}{\,\right#1\!}}}
            1003 \DeclareRobustCommand{\@sset1}[2]
                     {\mth*{\argmid{\lbrace}{#2}{\,#1\!}}}
             1005 \DeclareRobustCommand{\setr}
```

```
{\@ifstar{\@ssetr}{\@setr}}
       1007 \DeclareRobustCommand{\setrx}
           {\@ifstar{\@ssetr}{\@setr}}
       1009 \DeclareRobustCommand{\@setr}[1]
       1010 {\bf \{\d{\deft.}}{\#1}{\dot \}
       1011 \DeclareRobustCommand{\@ssetr}[1]
       1012 {\bf \{\mbox{\mbox{$1$}}}
  \card ...
       1013 \DeclareRobustCommand{\card}
       1014 \quad {\c {\c card} {\c card}}
       1015 \DeclareRobustCommand{\@card}[1]
           {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
       1017 \DeclareRobustCommand{\@scard}[1]
           {\mth*{\argmid{\lvert}{#1}{\rvert}}}
   \pow ...
       1019 \DeclareRobustCommand{\pow}[1]
           {\bf 2^{\hat 1}}{\cdot}}
       \emptyrel ...
       1022 \DeclareRobustCommand{\emptyrel}
           {\mth{\varnothing}}
       \dom ...
   \verb|\cod $_{1025} \| $$ \cod $_{1025} \
    \dots 1026 \usrmth{cod}{}{argfun}
       1027 \usrmth{rng}{}{argfun}
       1028 \usrmth{img}{}{argfun}
   \deg ...
       1029 \mbox{ }\mbox{deg}{{\mbox{argfun}}}
       \prj ...
       1031 \DeclareRobustCommand{\prj}
       1032 {\mthlbop{\downarrow}}
   \rst ...
       1033 \DeclareRobustCommand{\rst}
           {\mthlbop{\upharpoonright}}
   \cmp ...
       1035 \DeclareRobustCommand{\cmp}
           {\mthlbop{\circ}}
       \emptyfun ...
       1038 \verb|\DeclareRobustCommand{\emptyfun}|
           {\mth{\varnothing}}
       \pto ...
\pmapsto 1041 \DeclareMathOperator{\pto}
           {\ensuremath{\rightharpoonup}}
       1043 \DeclareMathOperator{\pmapsto}
       1044
           {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
       1045
              \kern-1.5ex\rightharpoonup}}}
```

```
\fix ...
            \ifp _{1047} \usrmth{fix}{}{fun}
               \cdots 1048 \usrmth{ifp}{}{fun}
                         1049 \mbox{ \norm}{10}
                         1050 \mbox{ }\mbox{usrmth} \{gfp\} \{\} \{fun\}
                         \Aomega ...
     \verb|AOmega|_{1052} \le $1052 \le 1052 \le 1
                         1053 \usrmth{AOmega}{}{argset}[\Omega]
    \Atheta ...
     1055 \usrmth{ATheta}{}{argset}[\Theta]
\Aomicron ...
               \cdots 1056 \usrmth{Aomicron}{}{argset}[\omicron]
                         1057 \usrmth{AOmicron}{}{argset}[\Omicron]
                         \SetB ...
                         1059 \DeclareRobustCommand{\SetB}
                                     {\mthset[mathbb]{B}}
         \SetF ...
                         1061 \DeclareRobustCommand{\SetF}
                                      {\mthset[mathbb]{F}}
         \SetN ...
               ··· 1063 \DeclareRobustCommand{\SetN}
                         1064 \quad \{\text{mthset[mathbb]} \{N\}\}
                         1065 \DeclareRobustCommand{\SetNI}[1][]
                         1066 {\SetN[\infty #1]}
         \SetZ ...
               · · · 1067 \DeclareRobustCommand{\SetZ}
                         1068 {\mthset[mathbb]{Z}}
                         1069 \DeclareRobustCommand{\SetZI}[1][]
                        1070 {\SetZ[\pm\infty #1]}
                         1071 \DeclareRobustCommand{\SetZPI}[1][]
                         1072 {\SetZ[+\infty #1]}
                         1073 \DeclareRobustCommand{\SetZNI}[1][]
                        1074 {\SetZ[-\infty #1]}
         \SetQ ...
               · · · 1075 \DeclareRobustCommand{\SetQ}
                         1076 {\mthset[mathbb]{Q}}
                         1077 \DeclareRobustCommand{\SetQI}[1][]
                                     {\SetQ[\pm\infty #1]}
                         1079 \DeclareRobustCommand{\SetQPI}[1][]
                                     {\SetQ[+\infty #1]}
                         1081 \DeclareRobustCommand{\SetQNI}[1][]
                        1082 {\SetQ[-\infty #1]}
         \SetR ...
               · · · 1083 \DeclareRobustCommand{\SetR}
                         1084 {\mthset[mathbb]{R}}
                         1085 \verb|\DeclareRobustCommand{\SetRI}[1][]
                         1086 {\SetR[\pm\infty #1]}
```

```
1087 \DeclareRobustCommand{\SetRPI}[1][]
         {\SetR[+\infty #1]}
     1089 \DeclareRobustCommand{\SetRNI}[1][]
     1090 {\SetR[-\infty #1]}
\SetC ...
  ··· 1091 \DeclareRobustCommand{\SetC}
          {\mthset[mathbb]{C}}
      1093 \DeclareRobustCommand{\SetCI}[1][]
     1094 {\SetC[\infty #1]}
     \num ...
  {\mth{[#1]}}
     1098 \DeclareRobustCommand{\numcc}[2]
          {\mth{[\argsep{#1}{,}{#2}]}}
     1100 \DeclareRobustCommand{\numco}[2]
          {\mth{[\argsep{#1}{,}{#2})}}
     1102 \DeclareRobustCommand{\numoc}[2]
     1103 {\mth{(\argsep{#1}{,}{#2}]}}
     1104 \DeclareRobustCommand{\numoo}[2]
          {\mth{(\argsep{#1}{,}{#2})}}
     \abs ...
\verb|\norm||_{1107} \verb|\DeclareRobustCommand{\abs}|
     1108 {\@ifstar{\@sabs}{\@abs}}
     1109 \DeclareRobustCommand{\@abs}[1]
     1110 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
     1111 \DeclareRobustCommand{\@sabs}[1]
     1112 {\mth*{\argmid{\lvert}{#1}{\rvert}}}
     1113 \DeclareRobustCommand{\norm}
          {\@ifstar{\@snorm}{\@norm}}
     1115 \DeclareRobustCommand{\@norm}[1]
     1116 {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
     1117 \DeclareRobustCommand{\@snorm}[1]
         {\mth*{\argmid{\lVert}{#1}{\rVert}}}
\floor ...
\ceil 1119 \DeclareRobustCommand{\floor}
          {\@ifstar{\@sfloor}{\@floor}}
     1121 \DeclareRobustCommand{\@floor}[1]
     1122 {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
     1123 \DeclareRobustCommand{\@sfloor}[1]
          {\mth*{\argmid{\lfloor}{#1}{\rfloor}}}
     1125 \DeclareRobustCommand{\ceil}
     1126 {\c}^{\c} 
     1127 \DeclareRobustCommand{\@ceil}[1]
     1128 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
     1129 \DeclareRobustCommand{\@sceil}[1]
          {\mth*{\argmid{\lceil}{#1}{\rceil}}}
     \arg ...
     1132 \usrmth{arg}{}{fun}
 \evn ...
 \odd _{1133} \usrmth{evn}{}{fun}
     1134 \usrmth{odd}{}{fun}
```

```
\bst ...
        \cdots 1135 \usrmth{bst}{}{fun}
            1136 \usrmth{argbst}{}{fun}[arg\,bst]
       \min ...
       \max_{1137} \operatorname{lmin}{{fun}}
        \dots 1138 \usrmth{max}{}{fun}
            1139 \usrmth{argmin}{}{fun}[arg\,min]
            1140 \usrmth{argmax}{}{fun}[arg\,max]
       \inf ...
       \sup 1141 \usrmth{inf}{}{fun}
            1142 \operatorname{sup}{{fun}}
            \emptyseq ...
            1144 \DeclareRobustCommand{\emptyseq}
            1145 {\mth{\varepsilon}}
       \len ...
            1146 \DeclareRobustCommand{\len}
            1147 {\@ifstar{\@slen}{\@len}}
            1148 \DeclareRobustCommand{\@len}[1]
            1149 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
            1150 \DeclareRobustCommand{\@slen}[1]
            1151 {\mth*{\argmid{\lvert}{#1}{\rvert}}}
       \fst ...
       \lst _{1152} \usrmth{fst}{}{argfun}
            1153 \usrmth{lst}{}{argfun}
            1154 \fi
            1159 \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)
            1160 \newcommandx{\defcomcls}[2][2=]
                {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
              • \defcomclsgrp{CompClass};
                \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                \verb|\CoCompClass[sub][sup][arg]| = CoCompClass[sup](ARG)
                \CompClassE[sub][sup][arg] = COMPCLASS-EASY_{SUB}^{SUP}(ARG)
                \verb|\CoCompClassE[sub][sup][arg]| = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                \verb|\CompClassH[sub][sup][arg]| = CompClass-Hard_{SUB}^{SUP}(ARG)
                \verb|\CoCompClassH[sub][sup][arg]| = CoCompClass-Hard_{SUB}^{SUP}(ARG)
                \CompClassC[sub][sup][arg] = COMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                \CoCompClassC[sub][sup][arg] = CoCoMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\DCompClass[sub][sup][arg] = DCompClass_{SUB}^{SUP}(ARG)
  \CoDCompClass[sub][sup][arg] = CoDCompClass_{SUB}^{SUP}(ARG)
 \label{eq:decompClassEsub} $$ \operatorname{[sub][arg]} = \operatorname{DCompCLass-Easy}^{\operatorname{SUP}}_{\operatorname{SUB}}(\operatorname{ARG}) $$
 \verb|\CoDCompClassE[sub][sup][arg]| = CoDCompClass-EASY_{SUB}^{SUP}(ARG)
 \label{eq:decompClassHard} $$\D{\compClassHard}_{SuB}[sub][sup] = DCOMPCLASS-HARD_{SUB}^{SUP}(ARG)$
  \verb|\CoDCompClassH[sub][sup][arg]| = CoDCompClass-Hard_{SUB}^{SUP}(ARG)
  \label{eq:decompClassC} $$\D{\compClassC[sub] [sup] [arg]} = D{\ccompClass-COMPLETE}^{SUP}_{SUB}(ARG)
  \CoDCompClassC[sub][sup][arg] = CoDCompClass-CompLete_{SUB}^{SUP}(ARG)
 \verb|\NCompClass[sub][sup][arg]| = NCOMPCLASS_{SUB}^{SUP}(ARG)
 \verb|\ConCompClass[sub][sup][arg]| = ConCompClass[sup](arg)
 \verb|\NCompClassE[sub][sup][arg]| = NCompClass-Easy_{SUB}^{SUP}(ARG)
 \ConCompClassE[sub][sup][arg] = ConCompClass-Easy_{SUB}^{SUP}(ARG)
 \N{\c CompClassH[sub][sup][arg]} = N{\c CompClass-Hard}_{SUB}^{SUP}(ARG)
 \ConCompClassH[sub][sup][arg] = ConCompClass-Hard_{SUB}^{SUP}(ARG)
 \NCompClassC[sub][sup][arg] = NCompClass-CompLete_{SUB}^{SUP}(ARG)
 \verb|\ConCompClassC[sub][sup][arg]| = ConCompClass-complete_{SUB}^{SUP}(ARG)
 \UCompClass[sub][sup][arg] = UCompClass_{SUB}^{SUP}(ARG)
 \CoUCompClass[sub][sup][arg] = CoUCompClass_{SUB}^{SUP}(ARG)
 \UCompClassE[sub][sup][arg] = UCompClass-Easy_{SUB}^{SUP}(ARG)
 \CoulompClassE[sub][sup][arg] = CoulompClass-Easy_{SUB}^{SUP}(ARG)
 \label{eq:UCompClassHard} $$\UCompClassH[sub][sup][arg] = UCompClass-Hard_{SUB}^{SUP}(ARG)$
 \verb|\CoUCompClassH[sub][sup][arg]| = CoUCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\UCompClassC[sub][sup][arg]| = UCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
 \CoUCompClassC[sub][sup][arg] = CoUCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
 \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
 \verb|\CoACompClass[sub][sup][arg]| = CoACompClass[sub](arg)
 \triangle CompClassE[sub][sup][arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)
 \verb|\CoACompClassE[sub][sup][arg]| = CoACompClass-Easy_{sur}^{SUP}(ARG)
 \triangle CompClassH[sub][sup][arg] = ACOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \CoACompClassH[sub][sup][arg] = CoACompClass-Hard_{SUB}^{SUP}(Arg)
  \triangle CompClassC[sub][sup][arg] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \CoACompClassC[sub][sup][arg] = CoACompClass-CompLete_{Sub}^{SUP}(ARG)
\defcomclsgrp{CompClass}[NewClass];
 \verb|\CompClass[sub][sup][arg]| = NewClass_{SUB}^{SUP}(ARG)
 \verb|\CoCompClass[sub][sup][arg]| = \operatorname{CoNewClass}^{SUP}_{SUB}(\operatorname{Arg})
 \CompClassE[sub][sup][arg] = NewClass-easy_{SUB}^{SUP}(ARG)
 \CoCompClassE[sub][sup][arg] = CoNewClass-Easy_{SUB}^{SUP}(ARG)
 \CompClassH[sub][sup][arg] = NEWCLASS-HARD_{SUB}^{SUP}(ARG)
 \verb|\CoCompClassH[sub][sup][arg]| = CoNewClass-Hard_{SUB}^{SUP}(ARG)
 \verb|\CompClassC[sub][sup][arg]| = NewClass-complete_{sub}^{SUP}(ARG)
 \CoCompClassC[sub][sup][arg] = CoNewClass-CompLete_{SUB}^{SUP}(ARG)
 \verb|\DCompClass[sub][sup][arg]| = DNEWCLASS_{SUB}^{SUP}(ARG)
 \CoDCompClass[sub][sup][arg] = CoDNewClass_{SUB}^{SUP}(ARG)
 \label{eq:decompClassE[sub][sup][arg]} DNEWCLASS-EASY_{SUB}^{SUP}(ARG)
 \verb|\CoDCompClassE[sub][sup][arg]| = CoDNewClass-easy_{Sub}^{SUP}(ARG)
 \verb|\DCompClassH[sub][sup][arg]| = DNEWCLASS-HARD_{SUB}^{SUP}(ARG)
 \CodCompClassH[sub][sup][arg] = CodNewClass-Hard_{SUB}^{SUP}(Arg)
 \label{eq:decompClassC} $$\D{\compClassC[sub][sup][arg]} = DNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
 \CodCompClassC[sub][sup][arg] = CodNewClass-CompLete_{SUB}^{SUP}(ARG)
 \verb|\NCompClass[sub][sup][arg]| = NNEWCLASS_{SUB}^{SUP}(ARG)
 \verb|\ConCompClass[sub][sup][arg]| = CoNNewClass_{SUB}^{SUP}(ARG)
 \NCompClassE[sub][sup][arg] = NNEWCLASS-EASY_{SUB}^{SUP}(ARG)
 \ConCompClassE[sub][sup][arg] = ConNewClass-Easy_{SUB}^{SUP}(Arg)
 \N{\c CLASS-HARD}_{SUB}[sup][arg] = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)
 \ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{SUB}^{SUP}(Arg)
 \NCompClassC[sub][sup][arg] = NNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
 \verb|\ConCompClassC[sub][sup][arg]| = ConNewClass-complete_{SUB}^{SUP}(ARG)
```

```
\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)
                \verb|\CoUCompClassE[sub][sup][arg]| = CoUNEWCLASS-EASY_{SUB}^{SUP}(ARG)
                \label{eq:UCompClassH} $$ \UCompClassH[sub] [sup] [arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
                \Coulomb ClassH[sub][sup][arg] = Council New Class-Hard_{SUB}^{SUP}(Arg)
                \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                 \CoUCompClassC[sub][sup][arg] = CoUNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                \verb|\ACompClass[sub][sup][arg]| = ANEWCLASS_{SUB}^{SUP}(ARG)
                \verb|\CoACompClass[sub][sup][arg]| = CoANewClass_{SUB}^{SUP}(ARG)
                \verb|\ACompClassE[sub][sup][arg]| = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                \CoACompClassE[sub][sup][arg] = CoANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                \ACompClassH[sub][sup][arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                \CoACompClassH[sub][sup][arg] = CoANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                \triangle CompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                \verb|\CoACompClassC[sub][sup][arg]| = CoANewClass-complete_{SUB}^{SUP}(ARG)
           1162 \newcommandx{\defcomclsgrp}[2][2=]
                 {\defcomclsgrpsem{#1}{\defval{#2}{#1}}%
                 \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
           1165 \newcommandx{\defcomclsgrpsem}[3][3=]
                 {\defcomclsgrpred{#3#1}{#2}[#3]%
           1167
                 \defcomclsgrpred{#3D#1}{#2}[#3D]%
           1168
                 \defcomclsgrpred{#3N#1}{#2}[#3N]%
           1169
                 \defcomclsgrpred{#3U#1}{#2}[#3U]%
                 \defcomclsgrpred{#3A#1}{#2}[#3A]}
           1170
           1171 \newcommandx{\defcomclsgrpred}[3][3=]
                 {\defcomclsgrpcmd{#1}{#2}[#3]%
           1172
           1173
                 \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                 \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
           1174
                 \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
           1176 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                 {\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];
                 {\tt CompHierarchy[sub][sup][par] = NewHierarchy^{SUP}_{SUB}[PAR]}
           1178 \newcommandx{\defcomhrc}[2][2=]
                 {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
           \Easy
     \Hard 1181 \cmdtxtcom{Easy}
       ... 1182 \cmdtxtcom{Hard}
           1183 \cmdtxtcom{Complete}
           • \FPT[sub] [sup] [arg] = FPT_{SUB}^{SUP}(ARG)
      \FPT
              • \FPLin[sub][sup][arg] = FPL_{SUB}^{SUP}(ARG)
               • \FPQdr[sub][sup][arg] = FPQ_{SUB}^{SUP}(ARG)
               • \FPCub[sub][sup][arg] = FPC_{SUB}^{SUP}(ARG)
           1185 \defcomcls{FPT}
           1186 \defcomcls{FPLin}[FPL]
           1187 \defcomcls{FPQdr}[FPQ]
           1188 \defcomcls{FPCub}[FPC]
```

```
• Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
    \Time
                   TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
                   TimeH[sub][sup][arg] = TIME-HARD_{SUB}^{SUP}(ARG)
                  TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
                \bullet \ \ \texttt{\baseline}[\mathtt{sub}] \ [\mathtt{sup}] \ [\mathtt{arg}] \ = \ \mathrm{DTIME}^{\mathtt{SUP}}_{\mathtt{SUB}} (\mathtt{ARG})
                   \verb|\DTimeE[sub][sup][arg]| = \mathrm{DTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                   \texttt{\DTimeH[sub][sup][arg]} = \mathrm{DTIME-HARD}^{SUP}_{SUB}(ARG)
                   \verb|\DTimeC[sub][sup][arg]| = DTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \NTime[sub][sup][arg] = NTIME_{SUB}^{SUP}(ARG)
                   \NTimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
                  \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                   \NTimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
                   \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)
                   \texttt{\ATimeE[sub][sup][arg]} = \text{ATIME-EASY}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                   \Delta TimeH[sub][sup][arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
                   \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
            1190 \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)
                \bullet \ \texttt{\bace[sub][sup][arg]} = \mathrm{DSPACE}^{SUP}_{SUB}(ARG)
                   \DSpaceE[sub][sup][arg] = DSPACE-EASY_{SUB}^{SUP}(ARG)
                   \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
                   \verb|\DSpaceC[sub][sup][arg]| = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 \bullet \ \texttt{NSpace[sub][sup][arg]} = \mathrm{NSpace}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{Arg}) 
                   \NSpaceE[sub][sup][arg] = NSPACE-EASY_{SUB}^{SUP}(ARG)
                   \verb|\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)
                   \texttt{ASpaceE[sub][sup][arg]} = ASPACE-EASY_{SUB}^{SUP}(ARG)
                   ASpaceH[sub][sup][arg] = ASPACE-HARD_{SUB}^{SUP}(ARG)
                   \verb|\ASpaceC[sub][sup][arg]| = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
            1191 \defcomclsgrp{Space}
\LogTime
                 \bullet \ \texttt{LogTime[sub][sup][arg]} = \mathrm{LogTime}^{SUP}_{SUB}(ARG) 
                   \verb|\LogTimeE[sub][sup][arg]| = LogTime-easy_{sub}^{SUP}(ARG)
                   \lceil LogTimeH[sub][sup][arg] = 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)
                • \NLogTime[sub][sup][arg] = NLogTime_{SUB}^{SUP}(ARG)
                   \NLogTimeE[sub][sup][arg] = NLogTime-EASY_{SUB}^{SUP}(ARG)
                   \NLogTimeH[sub][sup][arg] = NLogTime-HARD_{SUB}^{SUP}(ARG)
```

 $\NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)$ 

```
• \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                  \verb| ULogTimeE[sub][sup][arg] = ULogTime-EASY_{SUB}^{SUP}(ARG)
                  \verb|VLogTimeH[sub][sup][arg]| = ULogTime-Hard_{SUB}^{SUP}(ARG)
                  \ULogTimeC[sub][sup][arg] = ULogTime-COMPLETE_{SUB}^{SUP}(ARG)
                • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                  \verb|\ALogTimeE[sub][sup][arg]| = ALOGTIME-EASY_{SUB}^{SUP}(ARG)
                  \ALogTimeH[sub][sup][arg] = ALogTime-HARD_{SUB}^{SUP}(ARG)
                  \ALogTimeC[sub][sup][arg] = ALogTime-COMPLETE_{SUB}^{SUP}(ARG)
            1192 \defcomclsgrp{LogTime}
                • LogSpace[sub][sup][arg] = LogSpace_{SUB}^{SUP}(ARG)
\LogSpace
                  \verb|\LogSpaceE[sub][sup][arg]| = \operatorname{LogSpace-Easy}^{SUP}_{SUB}(ARG)
                  LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(Arg)
                  \lfloor LogSpaceC[sub][sup][arg] = LogSpace-complete_{Sup}^{SUP}(Arg)
                • \DLogSpace[sub][sup][arg] = DLogSpace_{SUB}^{SUP}(ARG)
                  \verb|\DLogSpaceE[sub][sup][arg]| = DLogSpace-Easy_{SUB}^{SUP}(ARG)
                  \verb|\DLogSpaceH[sub][sup][arg]| = DLogSpace-Hard_{SUB}^{SUP}(ARG)
                  \DLogSpaceC[sub][sup][arg] = DLogSpace-Complete_{Sub}^{SUP}(Arg)
                • \NLogSpace[sub][sup][arg] = NLogSpace_{SUB}^{SUP}(ARG)
                  \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                  \NLogSpaceH[sub][sup][arg] = NLogSpace-Hard_{SUB}^{SUP}(Arg)
                  \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(ARG)
                • \ULogSpace[sub][sup][arg] = ULogSpace_{SUB}^{SUP}(ARG)
                  \ULogSpaceE[sub][sup][arg] = ULogSpace-Easy_{SUB}^{SUP}(ARG)
                  \verb|\ULogSpaceH[sub][sup][arg]| = ULogSpace-Hard_{SUB}^{SUP}(ARG)
                  \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(Arg)
                • ALogSpace[sub][sup][arg] = ALogSpace_{SUB}^{SUP}(ARG)
                  \verb|\ALogSpaceE[sub][sup][arg]| = ALogSpace-easy_{sub}^{SUP}(ARG)
                  \verb|\ALogSpaceH[sub][sup][arg]| = ALogSpace-Hard_{SUB}^{SUP}(ARG)
                  ALogSpaceC[sub][sup][arg] = ALogSpace-Complete_{SUB}^{SUP}(ARG)
            1193 \defcomclsgrp{LogSpace}
   \PTime
                • \P [sub] [sup] [arg] = PTIME_{SUB}^{SUP}(ARG)
                  \PTimeE[sub][sup][arg] = PTIME-EASY_{SUB}^{SUP}(ARG)
       . . .
                  \P \PTimeH[sub] [sup] [arg] = PTIME-HARD_SUB (ARG)
                  \label{eq:ptimeC} $$ \Pr[\sup] [arg] = \Pr[\operatorname{COMPLETE}^{SUP}_{SUB}(\operatorname{ARG}) $$
                • \DPTime[sub][sup][arg] = DPTIME_SUB(ARG)
                  \DPTimeE[sub][sup][arg] = DPTIME-EASY_{SUB}^{SUP}(ARG)
                  \DPTimeH[sub][sup][arg] = DPTIME-HARD_{SUB}^{SUP}(ARG)
                  \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                \label{eq:nptimeE} $$ \DTimeE[sub][sup][arg] = NPTIME-EASY_{SUB}^{SUP}(ARG) $$
                  \NPTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG)
                  \NPTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \UPTime[sub][sup][arg] = UPTIME_{SUB}^{SUP}(ARG)
                  \UPTimeE[sub][sup][arg] = UPTIME-EASY_{SUB}^{SUP}(ARG)
                  \UPTimeH[sub][sup][arg] = UPTIME-HARD_{SUB}^{SUP}(ARG)
                  \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                \bullet \ \texttt{\ \ } \texttt{[sub][sup][arg]} = APTIME^{SUP}_{SUB}(ARG)
                  \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(ARG)
                  \Delta PTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                  \triangle PTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
            1194 \defcomclsgrp{PTime}
                \PSpace
                  \PSpaceE[sub][sup][arg] = PSPACE-EASY_{SUB}^{SUP}(ARG)
                  \verb|\PSpaceH[sub][sup][arg]| = PSPACE-HARD_{SUB}^{SUP}(ARG)
                  \label{eq:pspaceCsub} $$ \PSpaceC[sub] [sup] [arg] = PSpace-Complete_{SUB}^{SUP}(ARG) $$
```

```
• \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
                  \verb|\DPSpaceE[sub][sup][arg]| = DPSPACE-EASY_{SUB}^{SUP}(ARG)
                   \DPSpaceH[sub][sup][arg] = DPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \verb|\DPSpaceC[sub][sup][arg]| = \mathrm{DPSPACE\text{-}COMPLETE}^{SUP}_{SUB}(ARG)
                • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                  \label{eq:npspace} $$ \NPSpaceE[sub][sup][arg] = NPSpace-Easy_{SUB}^{SUP}(ARG) $$
                   \verb|NPSpaceH[sub][sup][arg]| = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • \UPSpace[sub][sup][arg] = UPSpace_Sup(ARG)
                  \UPSpaceE[sub][sup][arg] = UPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \UPSpaceH[sub][sup][arg] = UPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \label{eq:upspace} $$ \UPSPACE-COMPLETE_{SUB}^{SUP}(ARG) = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                • APSpace[sub][sup][arg] = APSPACE_{SUB}^{SUP}(ARG)
                  \verb|\APSpaceE[sub][sup][arg]| = APSpace-easy_{sub}^{SUP}(ARG)
                  \label{eq:apsign} $$ \APSpaceH[sub] [sup] [arg] = APSpace-Hard_{SUB}^{SUP}(ARG) $$
                  \triangle PSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG)
            1195 \defcomclsgrp{PSpace}
                • \QPTime[sub][sup][arg] = QPTIME_{SUB}^{SUP}(ARG)
 \QPTime
                  \QPTimeE[sub][sup][arg] = QPTIME-EASY_{SUB}^{SUP}(ARG)
                  \verb|\QPTimeH[sub][sup][arg]| = \mathrm{QPTIME-HARD}^{SUP}_{SUB}(ARG)
                  \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                  \verb|\DQPTimeE[sub][sup][arg]| = \mathrm{DQPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                  \texttt{DQPTimeH[sub][sup][arg]} = DQPTIME-HARD_{SUB}^{SUP}(ARG)
                  \DQPTimeC[sub][sup][arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \NQPTime[sub][sup][arg] = NQPTIME_{SUB}^{SUP}(ARG)
                   \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                  \NQPTimeH[sub][sup][arg] = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                  \verb|\NQPTimeC[sub][sup][arg]| = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \UQPTime[sub][sup][arg] = UQPTIME_{SUB}^{SUP}(ARG)
                   \UQPTimeE[sub][sup][arg] = UQPTIME-EASY_{SUB}^{SUP}(ARG)
                  \verb|VQPTimeH[sub][sup][arg]| = UQPTIME-HARD_{SUB}^{SUP}(ARG)
                  \verb|VUQPTimeC[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)
                  \AQPTimeH[sub][sup][arg] = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                  \triangle AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
            1196 \defcomclsgrp{QPTime}
\QPSpace
                • \QPSpace[sub][sup][arg] = QPSPACE_{SUB}^{SUP}(ARG)
                  \label{eq:QPSpaceEsub} $$ \qrup{\sc Sup} [sup] [arg] = QPSPACE-EASY_{SUB}^{SUP}(ARG) $$
                   \verb|\QPSpaceH[sub][sup][arg]| = QPSPACE-HARD_{SUB}^{SUP}(ARG)
                   \label{eq:QPSpaceC[sub][sup][arg]} = \operatorname{QPSPACE-COMPLETE}_{SUB}^{SUP}(\operatorname{ARG})
                • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                   \DQPSpaceE[sub][sup][arg] = DQPSPACE-EASY_{SUB}^{SUP}(ARG)
                   \DQPSpaceH[sub][sup][arg] = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                   \texttt{DQPSpaceC[sub][sup][arg]} = DQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                  \verb|\NQPSpaceE[sub][sup][arg]| = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \verb|\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]| = \mathrm{UQPSpace-EASY}^{SUP}_{SUB}(\mathrm{ARG})
                   \verb|VQPSpaceH[sub][sup][arg]| = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \UQPSpaceC[sub][sup][arg] = UQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                \bullet \ \texttt{\AQPSpace[sub][sup][arg]} = \mathrm{AQPSpace}^{SUP}_{SUB}(\mathrm{ARG})
                  \verb|\AQPSpaceE[sub][sup][arg]| = \mathrm{AQPSpace}\text{-}\mathrm{EASY}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                  \texttt{AQPSpaceH[sub][sup][arg]} = AQPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \triangle QPSpaceC[sub][sup][arg] = AQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

1197 \defcomclsgrp{QPSpace}

```
\verb|\ExpTimeE[sub][sup][arg]| = EXPTIME-EASY_{SUB}^{SUP}(ARG)
       . . .
                  \verb|\ExpTimeH[sub][sup][arg]| = \mathrm{EXPTIME-HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                  \ExpTimeC[sub][sup][arg] = EXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \DExpTime[sub][sup][arg] = DEXPTIME_{SUB}^{SUP}(ARG)
                  \verb|\DExpTimeE[sub][sup][arg]| = DEXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \texttt{\DExpTimeH[sub][sup][arg]} = DEXPTIME-HARD_{SUB}^{SUP}(ARG)
                  \DExpTimeC[sub][sup][arg] = DEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                  \verb|\NExpTimeE[sub][sup][arg]| = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \NExpTimeH[sub][sup][arg] = NEXPTIME-HARD_{SUB}^{SUP}(ARG)
                  \verb|\NExpTimeC[sub][sup][arg]| = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \UExpTime[sub][sup][arg] = UEXpTIME_{SUB}^{SUP}(ARG)
                  \label{eq:uexpTimeE} $$ \UEXPTIME-EASY_{SUB}^{SUP}(ARG) $$
                  \UExpTimeH[sub][sup][arg] = UEXPTIME-HARD_{SUB}^{SUP}(ARG)
                  \verb|\UExpTimeC[sub][sup][arg]| = UEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \AExpTime[sub][sup][arg] = AExpTime_SUP_(ARG)
                  \verb|\AExpTimeE[sub][sup][arg]| = AEXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \texttt{AExpTimeH[sub][sup][arg]} = \text{AEXPTIME-HARD}^{SUP}_{SUB}(\text{ARG})
                  \verb|\AExpTimeC[sub][sup][arg]| = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
            1198 \defcomclsgrp{ExpTime}
                • \ExpSpace[sub][sup][arg] = EXPSPACE_{SUB}^{SUP}(ARG)
\ExpSpace
                  \ExpSpaceE[sub][sup][arg] = EXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \texttt{\colored{LexpSpaceH[sub][sup][arg]}} = \operatorname{ExpSpace-HARD}^{SUP}_{SUB}(ARG)
                  \ExpSpaceC[sub][sup][arg] = ExpSpace-CompleteSup(Arg)
                • \DExpSpace[sub][sup][arg] = DExpSpace_Sup(ARG)
                  \verb|\DExpSpaceE[sub][sup][arg]| = DEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \verb|\DExpSpaceH[sub][sup][arg]| = DEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \DExpSpaceC[sub][sup][arg] = DExpSpace-COMPLETE_{SUB}^{SUP}(ARG)
                • \NExpSpace[sub][sup][arg] = NExpSpace_{SUB}^{SUP}(ARG)
                  \NExpSpaceE[sub][sup][arg] = NEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \NExpSpaceH[sub][sup][arg] = NEXpSpace-Hard_{SUB}^{SUP}(ARG)
                  \NExpSpaceC[sub][sup][arg] = NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                \verb|\UExpSpaceE[sub][sup][arg]| = UEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \label{eq:uexpSpaceH} $$ \UExpSpaceH[sub][sup][arg] = UExpSpace-HARD_{SUB}^{SUP}(ARG) $$
                  \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)
                  \verb|\AExpSpaceH[sub][sup][arg]| = AEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \Delta ExpSpaceC[sub][sup][arg] = AEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
            1199 \defcomclsgrp{ExpSpace}
            \PH
                • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
            1201 \defcomhrc{PH}
                ullet \WH[sub][sup][par] = W_{	ext{SUB}}^{	ext{SUP}}[PAR]
       \WH
            1202 \defcomhrc{WH}[W]
       \AH
                ullet \AH[sub][sup][par] = A_{	ext{SUB}}^{	ext{SUP}}[PAR]
            1203 \defcomhrc{AH}[A]
                ullet \DLH[sub][sup][par] = \Delta_{	ext{SUP}}^{	ext{SUP}}[	ext{PAR}]
      \DLH
      \DBH
                ullet \DBH[sub][sup][par] = oldsymbol{\Delta}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
            1204 \defcomhrc{DLH}[{\mth{\Delta}}]
            1205 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
```

•  $\text{ExpTime[sub][sup][arg]} = \text{ExpTime}_{\text{SUB}}^{\text{SUP}}(\text{ARG})$ 

\ExpTime

```
ullet \ELH[sub] [sup] [par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
  \ELH
  \EBH
       ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUR}}[	ext{PAR}]
     1206 \defcomhrc{ELH}[{\mth{\Sigma}}]
     1207 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
  \ULH
       • \ULH[sub][sup][par] = \Pi_{\text{SUB}}^{\text{SUP}}[PAR]
  \UBH
       ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
     1208 \defcomhrc{ULH}[{\bf \{\hh{\Pi}\}}]
     1209 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
     1215 \ifgrp@
     \GrpName ...
   \cdots 1217 \newcommand{\grpname}{G}
     1218 \usrmthlatupp{Grp}{Name}{name}[\grpname]
\VerSet ...
   ··· 1219 \newcommand{\versym}{v}
     1220 \newcommand{\verset}{V}
     1221 \cmdmthsetext{Ver}[\verset][\versym]
     1222 \cmdmthsymelm{iver}[\versym_{I}]
     1223 \cmdmthsymelm{fver}[\versym_{F}]
\EdgRel ...
     1224 \newcommand{\edgrel}{E}
     1225 \cmdmthrel{Edg}[\edgrel]
     \PthSet ...
1228 \newcommand{\pthset}{Pth}
     1229 \cmdmthsetext{Pth} [\pthset] [\pthsym]
     1230 \usrmth{path}{}{argfun}
  \pre ...
  \suc _{1231} \usrmth{pre}{}{oargfun}
     1232 \usrmth{suc}{}{oargfun}
     1233 \fi
     1238 \ifgam@
     \SATG ...
   · · · 1240 %% Satisfiability Games
     1241 \cmdtxtoparname{SATG}[Sat]
     1242
     1243 %% Validity Games
     1244 \cmdtxtoparname{VALG}[Val]
     1246 %% Evaluation Games
```

```
1247 \cmdtxtoparname{EVLG}[Ev1]
                                     1249 %% Synthesis Games
                                     1250 \cmdtxtoparname{SYNG}[Syn]
                                     1252 %% Model-Checking Games
                                     1253 \cmdtxtoparname{MCG}[MC]
                                     1255 %% Ehrenfeucht-Fraisse Games
                                     1256 \cmdtxtoparname{EFG}[EF]
                                     \PlrSym ...
          \verb|\OppSym 1258 \newcommand{\plrsym}{E}|
                                     1259 \cmdmthsym{Plr}[\plrsym]
                                     1260 \mbox{ \newcommand{\nopsym}{A}}
                                     1261 \cmdmthsym{Opp}[\oppsym]
\ArenaName ...
                        \cdots 1262 \newcommand{\arenaname}{A}
                                      1263 \usrmthlatupp{Arena}{Name}{name}[\arenaname]
         \PosSet ...
                        \dots 1264 \newcommand{\possym}{v}
                                     1265 \newcommand{\posset}{Ps}
                                     1266 \cmdmthsetext{Pos}[\posset][\possym]
                                     1267 \cmdmthsymelm{ipos}[\possym_{I}]
                                     1268 \cmdmthsymelm{fpos}[\possym_{F}]
                                     1269 \verb|\cmdmthset{PPos}[\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\pos
                                     1270 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                                     1271 \verb|\cmdmthset{OPos}[\posset_{\0ppSym}]|
                                     1272 \mbox{ \cmdmthsymelm{opos}[\possym_{\cmb}]}
          \PlrFun ...
                                     1273 \newcommand{\plrfun}{pl}
                                     1274 \cmdmthfun{plr}[\plrfun]
          \MovRel ...
                                      1275 \newcommand{\movrel}{Mv}
                                     1276 \cmdmthrel{Mov}[\movrel]
   \GameName ...
                        \cdots 1277 \newcommand{\gamename}{\Game}
                                     1278 \usrmthlatupp{Game}{Name}{name}[\gamename]
         \WinSet ...
                                      1279 \newcommand{\winset}{Wn}
                                     1280 \cmdmthset{Win}[\winset]
          \ObsSet ...
          \orderight{\command{\obsset}{0b}}
                                      1282 \cmdmthset{Obs}[\obsset]
                                     1283 \cmdmthfun{obs}
                                     \HstSet ...
                        · · · 1285 \newcommand{\hstsym}{\varpi}
                                     1286 \mbox{ } \mbox
                                     1287 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                     1288 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                     1289 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                     1290 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                     1291 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                                     1292 \usrmth{play}{}{argfun}
```

```
\PlaySet ...
1294 \mbox{ }\mbox{playset}{Play}
                      1295 \cmdmthsetext{Play}[\playset][\playsym]
                      1296 \mbox{ \norm} 1296 \mbox{\norm} \mbox{\norm} 1296 \mbox{\norm} 
  \StrSet ...
            · · · 1297 \newcommand{\strsym}{\sigma}
                      1298 \newcommand{\strset}{Str}
                      1299 \cmdmthsetext{Str}[\strset][\strsym]
                      1300 \verb|\cmdmthset{PStr}[\strset_{\prsym}]|
                      1301 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                      1302 \cmdmthset{OStr}[\strset_{\OppSym}]
                      1303 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
  \PrfSet ...
   \prfFun _{1304} \newcommand{\prfsym}{\xi}
                      1305 \verb|\newcommand{\prfset}{Prf}|
                      1306 \cmdmthsetext{Prf}[\prfset][\prfsym]
          \ent ...
          \esc 1307 \usrmth{ent}{}{oargfun}
                      1308 \usrmth{esc}{}{oargfun}
         \verb|\int ...
          \out _{1309} \usrmth{int}{}{oargfun}
                      1310 \ \mbox{usrmth{out}{fout}{}} \
          \atr ...
         1312 \usrmth{rch}{}{oargfun}
       \lift ...
                      1313 \usrmth{lift}{}{oargfun}
          \sol ...
                      1314 \usrmth{sol}{}{oargfun}
                      \BG ...
             · · · 1316 %% Buchi Games
                      1317 \cmdtxtoparname{BG}
                      1318
                      1319 %% Co-Buchi Games
                     1320 \cmdtxtoparname{CG}
                      1322 %% Parity Games
                      1323 \cmdtxtoparname{PG}
                      1325 %% Rabin Games
                      1326 \cmdtxtoparname{RG}
                      1328 %% Streett Games
                      1329 \cmdtxtoparname{SG}
                      1330
                      1331 %% Muller Games
                      1332 \cmdtxtoparname{MG}
```

```
\EvnSym ...
\verb| OddSym |_{1334} \verb| \newcommand{\evnsym}{0}|
              1335 \cmdmthsym{Evn}[\evnsym]
              1336 \newcommand{\oddsym}{1}
              1337 \cmdmthsym{Odd}[\oddsym]
\PrtSet ...
\label{lem:local_prtsym} $$ \prod_{1338 \neq 0} \sum_{i=1}^{p} {prtSym}_{p} $$
              1339 \newcommand{\prtset}{Pr}
              1340 \cmdmthsetext{Prt}[\prtset][\prtsym]
              1341 \cmdmthfun{prt}[pr]
              \EG ...
       · · · 1344 %% Energy Games
              1345 \cmdtxtoparname{EG}
              1346
              1347 %% Mean-Payoff Games
              1348 \cmdtxtoparname{MPG}
              1350 %% Discounted-Payoff Games
              1351 \cmdtxtoparname{DPG}
              \MaxSym ...
\verb|\MinSym|_{1353} \verb|\newcommand{\maxsym}{\cline{Conditions}} 
              1354 \cmdmthsym{Max}[\maxsym]
              1355 \newcommand{\minsym}{\boxminus}
              1356 \cmdmthsym{Min}[\minsym]
\WghSet ...
\label{lem:linear_state} $$ \wghFun_{1357} \end{support of the property of t
              1358 \newcommand{\wghset}{Wg}
              1359 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
              1360 \cmdmthfun{wgh} [wg]
              1362 \fi
              1367 \iflog@
              \BF ...
     \QBF _{1369} % Boolean Formulae
       \cdots 1370 \cmdtxtoparname{BF}
              1372 % Quantified Boolean Formulae
              1373 \DeclareRobustCommand{\QBF}
                       \{\{\text{txtname}\{Q\}\}\setminus BF\}
              1375 \DeclareRobustCommand{\EBF}
              1376 {\ensuremath{\exists}\BF}
              1377 \DeclareRobustCommand{\UBF}
              1378 {\ensuremath{\forall}\BF}
```

```
\LogSig ...
    · · · 1380 \newcommand{\logsig}{L}
        1381 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
    \Tt ...
    \Ff _{1382} \neq \{ tsym \} 
        1383 \usrmth{Tt}{}{sym}[\ttsym]
        1384 \mbox{ \newcommand{\ffsym}{\bot}}
        1385 \usrmth{Ff}{}{sym}[\ffsym]
  \LNeg ...
  \LNot _{1386} \rightarrow \{\newcommand{\negsym} \
        1387 \usrmth{LNeg}{}{luop}[\lnegsym]
        1388 \newcommand{\lnotsym}{\sim}
        1389 \usrmth{LNot}{}{luop}[\lnotsym]
  \LCon ...
  \LDis _{1390} \rightarrow {\lower.em}{\lower.em}
        1391 \usrmth{LCon}{}{lbop}[\lconsym]
        1392 \newcommand{\ldissym}{\lor}
        1393 \usrmth{LDis}{}{lbop}[\ldissym]
  \LImp ...
  \LCoi _{1394} \rightarrow \{\lower1394 \}
        1395 \usrmth{LImp}{}{lbop}[\limpsym]
        1396 \verb|\newcommand{\lcoisym}{\leftrightarrow}|
        1397 \usrmth{LCoi}{}{lbop}[\lcoisym]
  \LExs ...
  \LAll _{1398} \rightarrow {\text{LAll }}_{1398}
        1399 \usrmth{LExs}{}{luop}[\lexssym]
        1400 \mbox{ } {\mbox{\command}{\lallsym}{\forall}}
        1401 \usrmth{LAll}{}{luop}[\lallsym]
 \APSet ...
    \cdots 1402 \newcommand{\apsym}{p}
        1403 \verb|\apset|{AP}|
        1404 \verb|\cmdmthsetext{AP}| [\texttt{\apsym}]
        1405 \mbox{ } \mbox{argfun} 
   \sub ...
        1406 \usrmth{sub}{}{argfun}
   \Cnt ...
   \Sym 1408 \setminus \{Qnt}{\}sym}[Q]
        1409 \usrmth{Sym}{}{sym}[\odot]
   \QAE ...
   \label{eq:QEA} $$ \QEA _{1410} \left(QAE\right)_{sym}[\frac{1410}{sym}] $$
        1411 \usrmth{QEA}{}{sym}[\exists\forall]
\QntSet ...
    · · · 1412 \newcommand{\qntsym}{\wp}
        1413 \mbox{ } \mbox{qntset}{Qn}
        1414 \cmdmthsetext{Qnt}[\qntset][\qntsym]
  \free ...
 \bound _{1415} \usrmth{free}{}{argfun}
```

1416 \usrmth{bound}{}{argfun}

```
\dep ...
  1418 \usrmth{alt}{}{argfun}
  \cnf ...
  \dnf _{1419} \cmdtxtabr{cnf}
   ... 1420 \cmdtxtabr{dnf}
       1421 \cmdtxtabr{pnf}
       1422 \cmdtxtabr{nnf}
       \LogStr ...
   · · · 1424 \newcommand{\logstr}{L}
       1425 \usrmthlatupp{Log}{Str}{str}[\logstr]
\ValSet ...
   \cdots 1426 \newcommand{\valsym}{\xi}
       1427 \newcommand{\valset}{Val}
       1428 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet ...
   \cdots 1429 \texttt{\asgsym}{\chi}
       1430 \newcommand{\asgset}{Asg}
       1431 \cmdmthsetext{Asg}[\asgset][\asgsym]
       \FOL ...
   · · · 1433 % First-Order Logic
       1434 \cmdtxtoparname{FOL} [Fol]
       1435 \cmdtxtoparname{F0}[F0]
       1436
       1437 % Monadic First-Order Logic
       1438 \DeclareRobustCommand{\MFOL}
       1439 \{\{\text{txtname}\{M\}\}\}\
       1440 \DeclareRobustCommand{\MFO}
       1441 \{\{\text{txtname}\{M\}\}\}\
       \VarSig ...
   · · · 1443 \newcommand{\varsig}{V}
       1444 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
       1445 \newcommand{\varsym}{x}
       1446 \newcommand{\varset}{Vr}
       1447 \cmdmthsetext{Var}[\varset][\varsym]
       1448 \usrmth{var}{}{argfun}[vr]
       1449 \usrmth{dim}{}{argfun}[dm]
\ConSig ...
   \cdots 1450 \newcommand{\consig}{C}
       1451 \usrmthlatupp{Con}{Sig}{sig}[\consig]
       1452 \mbox{newcommand{\consym}{c}}
       1453 \mbox{ } \mbox{conset}{Cn}
       1454 \cmdmthsetext{Con}[\conset][\consym]
       1455 \usrmth{con}{}{argfun}[cn]
\FunSig ...
   \cdots 1456 \newcommand{\funsig}{F}
       1457 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
       1458 \mbox{ } \mbox{newcommand{\hrunsym}{f}}
       1459 \mbox{ } \mbox{newcommand{\funset}{Fn}}
       1460 \cmdmthsetext{Fun}[\funset][\funsym]
       1461 \usrmth{fun}{}{argfun}[fn]
       1462 \usrmth{art}{}{argfun}[ar]
```

```
\TerSig ...
                       \cdots 1463 \newcommand{\tersig}{T}
                                           1464 \verb|\usrmth|| 1464
                                           1465 \mbox{ } \mbox
                                           1466 \mbox{ } \mbox{\mbox{Tr}} 
                                            1467 \mbox{ \cmdmthsetext{Ter} [\terset] [\tersym]}
                                           1468 \t \{ter}{}{argfun}
\RelSig ...
                      · · · 1469 \newcommand{\relsig}{R}
                                           1470 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                                           1471 \newcommand{\relsym}{r}
                                           1472 \neq 1472 \neq 1472 
                                            1473 \cmdmthsetext{Rel}[\relset][\relsym]
                                            1474 \usrmth{rel}{}{argfun}[rl]
                 \skm ...
                                            1475 \operatorname{km}{{\rm skm}}{{\rm argfun}}
                                            \ConStr ...
                       \cdots 1477 \newcommand{\constr}{C}
                                            1478 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr ...
                       \cdots 1479 \newcommand{\funstr}{F}
                                            1480 \mbox{ } \mbox
\TerStr ...
                      ··· 1481 \newcommand{\terstr}{T}
                                            1482 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr ...
                      \cdots 1483 \newcommand{\relstr}{R}
                                            1484 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                                            \DF ...
                      \IF 1486 % Dependence-Friendly Logic
                       ... 1487 \cmdtxtoparname{DF}
                                           1489 % Independence-Friendly Logic
                                            1490 \cmdtxtoparname{IF}
                                            1492 % Dependence/Independence-Friendly Logic
                                           1493 \cmdtxtoparname{DIF}
                                           1494
                                            1495 % Dependence Logic
                                            1496 \cmdtxtoparname{DL}
                                            1497
                                            1498 % Team Logic
                                            1499 \cmdtxtoparname{TL}
                                            1501 % Alternating Dependence-Friendly Logic
                                            1502 \cmdtxtoparname{ADF}
                                            1504 % Alternating Independence-Friendly Logic
                                           1505 \cmdtxtoparname{AIF}
                                            1507 % Alternating Dependence/Independence-Friendly Logic
                                            1508 \cmdtxtoparname{ADIF}
```

```
\LEExs ...
 \LAAll _{1510} \newcommand{\leexssym}{\Sigma}
       1511 \usrmth{LEExs}{}{luop}[\leexssym]
       1512 \mbox{ \newcommand{\laallsym}{\Pi}}
       1513 \usrmth{LAAll}{}{luop}[\laallsym]
       \SOL ...
    · · · 1516 % Second-Order Logic
       1517 \cmdtxtoparname{SOL} [Sol]
       1518 \cmdtxtoparname{SO}
       1519
       1520 % Weak Second-Order Logic
       1521 \DeclareRobustCommand{\WSOL}
       1522 \{\{\text{w}}\}\
       1523 \DeclareRobustCommand{\WSO}
           {\{\text{xtname}{W}\}\S0}
       1524
       1525
       1526 % coWeak Second-Order Logic
       1527 \DeclareRobustCommand{\coWSOL}
       1528 \quad \{\{\text{txtname}\{\text{coW}\}\}\}\
       1529 \DeclareRobustCommand{\coWSO}
           {{\txtname{coW}}\SO}
       1531
       1532 % Monadic Second-Order Logic
       1533 \DeclareRobustCommand{\MSOL}
           {\{\text{txtname}\{M\}}\SOL\}
       1535 \DeclareRobustCommand{\MSO}
       1536 \quad \{\{\texttt{\txtname}\{\texttt{M}\}\} \setminus \texttt{SO}\}
       1537
       1538 % Weak Monadic Second-Order Logic
       1539 \DeclareRobustCommand{\WMSOL}
           {{\txtname{W}}\MSOL}
       1541 \DeclareRobustCommand{\WMSO}
           {{\txtname{W}}\MSO}
       1544 % coWeak Monadic Second-Order Logic
       1545 \DeclareRobustCommand{\coWMSOL}
       1546 \{\{\text{txtname}\{\text{coW}\}\}\}
       1547 \DeclareRobustCommand{\coWMSO}
       1548 \{\{\text{txtname}\{\text{coW}\}\}\}
       \FVarSet ...
    · · · 1550 \newcommand{\fvarsym}{x}
       1551 \newcommand{\fvarset}{FVr}
       1552 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet ...
    · · · 1553 \newcommand{\svarsym}{X}
       1554 \newcommand{\svarset}{SVr}
       1555 \cmdmthsetext{SVar}[\svarset][\svarsym]
```

```
\TL ...
\PL _{1558}\,\% Tree Logic
··· 1559 \cmdtxtoparname{TL}
    1560
    1561 % Weak Tree Logic
    1562 \verb|\DeclareRobustCommand{\WTL}|
        {\{\text{txtname}\{W\}}\}\TL}
    1564
    1565 % coWeak Tree Logic
    1566 \DeclareRobustCommand{\coWTL}
         {{\txtname{coW}}\TL}
    1569 \% Monadic Tree Logic
    1570 \DeclareRobustCommand{\MTL}
    1571 \{\{\text{txtname}\{M\}\}\}\
    1573\ \mbox{\ensuremath{\mbox{\%}}} Weak Monadic Tree Logic
    1574 \DeclareRobustCommand{\WMTL}
    1575 \{\{\text{txtname}\{W\}\}\}\}
    1577 % coWeak Monadic Tree Logic
    1578 \DeclareRobustCommand{\coWMTL}
         {{\txtname{coW}}\MTL}
    1581 % Path Logic
    1582 \verb|\cmdtxtoparname{PL}|
    1583
    1584 % Weak Path Logic
    1585 \verb|\DeclareRobustCommand{\WPL}|
         {\{\text{Xtname}(W)\}\PL}
    1586
    1587
    1588 % coWeak Path Logic
    1589 \DeclareRobustCommand{\coWPL}
         {\{\text{coW}}\
    1591
    1592 % Monadic Path Logic
    1593 \DeclareRobustCommand{\MPL}
         {\{\text{Ntxtname}\{M\}}\PL\}
    1594
    1595
    1596 % Weak Monadic Path Logic
    1597 \DeclareRobustCommand{\WMPL}
         {{\txtname{W}}\MPL}
    1600 % coWeak Monadic Path Logic
    1601 \DeclareRobustCommand{\coWMPL}
         {{\txtname{coW}}\MPL}
    \ML ...
\GML 1606 % Modal Logic
... 1607 \cmdtxtoparname{ML}
    1609 % Graded Modal Logic
    1610 \DeclareRobustCommand{\GML}
         {\{\text{txtname}\{G\}\}\setminus ML\}}
    1611
    1613 % Quantified Modal Logic
```

```
1614 \DeclareRobustCommand{\QML}
            {\{\text{txtname}\{Q\}\}\setminus ML\}}
       1616 \DeclareRobustCommand{\EML}
       1617 {\ensuremath{\exists}\ML}
       1618 \DeclareRobustCommand{\UML}
       1619 {\ensuremath{\forall}\ML}
       \Opr ...
       1621 \usrmth{Opr}{}{sym}[Op]
 \DMod ...
 \label{local_bound} $$ \BMod_{1622 \subset \mathbb{N}}[\Delta] $$ \BMod_{1622 \subset \mathbb{N}} (\BMod) $$
       1623 \verb|\sym|{BMod}{{sym}[\Box]}
   \Exs ...
   \All 1624 \DeclareRobustCommand{\Exs}
            {\@ifstar{\@sexs}{\@exs}}
       1626 \DeclareRobustCommand{\@sexs}[1]
       1627 {\mth{\DMod}[#1]}
       1628 \DeclareRobustCommand{\@exs}[1]
       1630 \DeclareRobustCommand{\All}
       1631 {\@ifstar{\@sall}{\@all}}
       1632 \DeclareRobustCommand{\@sall}[1]
       1633 {\mth{\BMod}[#1]}
       1634 \DeclareRobustCommand{\@all}[1]
            {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
       \KrpStr ...
   · · · 1637 \newcommand{\krpstr}{K}
       1638 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
\WrlSet ...
    \cdots \ 1639 \verb| newcommand{wrlsym}{w}
       1640 \mbox{ } \mbox{\mbox{newcommand}{\mbox{\mbox{wrlset}}{\mbox{\mbox{W}}}}
       1641 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
       1642 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel ...
\TrnRel _{1643} \newcommand{\accsym}{R}
       1644 \cmdmthrel{Acc}[\accsym]
       1645 \cmdmthrel{Trn}[\accsym]
\labFun ...
       1646 \mbox{labsym}{\lambda}
       1647 \cmdmthfun{lab}[\labsym]
\PthSet ...
    · · · 1648 \providecommand{\pthsym}{\pi}
       1649 \providecommand{\pthset}{Pth}
       1650 \cmdmthsetext{Pth}[\pthset][\pthsym]
       1651 \usrmth{path}{}{argfun}
       \MC ...
   \GMC _{1653}\,\% Mu Calculus
    ... 1654 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
       1656 % Graded Mu Calculus
```

```
1657 \DeclareRobustCommand{\GMC}
    1658
         {{\txtname{G}}\MC}
    1659
    1660 % Quantified Mu Calculus
    1661 \DeclareRobustCommand{\QMC}
    1662 \quad \{\{\text{txtname}\{Q\}\}\}\
    1663 \DeclareRobustCommand{\EMC}
    1664 {\ensuremath{\exists}\MC}
    1665 \DeclareRobustCommand{\UMC}
         {\ensuremath{\forall}\MC}
    1667
    1668 % Alternation-Free Mu Calculus
    1669 \DeclareRobustCommand{\AFMC}
        {{\txtname{AF}}\MC}
    1671
    1672 % Alternation-Free Graded Mu Calculus
    1673 \DeclareRobustCommand{\AFGMC}
         {{\txtname{AF}}\GMC}
    1675
    1676 % Quantified Alternation-Free Mu Calculus
    1677 \DeclareRobustCommand{\QAFMC}
        {{\txtname{Q}}\AFMC}
    1679 \DeclareRobustCommand{\EAFMC}
        {\ensuremath{\exists}\AFMC}
    1681 \DeclareRobustCommand{\UAFMC}
         {\ensuremath{\forall}\AFMC}
    1682
    1683
    \PTL ...
\LTL _{1687}\,\% Propositional Temporal Logic
 ... 1688 \cmdtxtoparname{PTL}
    1690 % Quantified Propositional Temporal Logic
    1691 \DeclareRobustCommand{\QPTL}
    1692 \quad \{\{\text{txtname}\{Q\}\}\}\
    1693 \DeclareRobustCommand{\EPTL}
    1694 {\ensuremath{\exists}\PTL}
    1695 \DeclareRobustCommand{\UPTL}
        {\ensuremath{\forall}\PTL}
    1698 % Linear Temporal Logic
    1699 \cmdtxtoparname{LTL}
    1701 % Quantified Linear Temporal Logic
    1702 \DeclareRobustCommand{\QLTL}
        {\{\text{txtname}\{Q\}\}\setminus LTL\}}
    1704 \DeclareRobustCommand{\ELTL}
    1705 {\ensuremath{\exists}\LTL}
    1706 \DeclareRobustCommand{\ULTL}
    1707 {\ensuremath{\forall}\LTL}
    · · · 1709 \usrmth{X}{}{sym}[X\,]
    1710 \usrmth{F}{}{sym}[F\,]
    1711 \usrmth{G}{}{sym}[G\,]
```

```
1712 \operatorname{U}{Sym}[\,U\,]
    1713 \usrmth{R}{}{sym}[\,R\,]
 · · · 1714 \usrmth{Y}{}{sym}[G\,]
    1715 \usrmth{P}{}{sym}[P\,]\let\SavePilcrow\P
    1716 \usrmth{H}{}{sym}[H\,]\let\SaveDoubleAcute\H
    1717 \usrmth{S}{}{sym}[\,S\,]\let\SaveSectionSymbol\S
    1718 \usrmth{B}{}{sym}[\,B\,]
    \PDL ...
\CTL _{1721}\,\% Propositional Dynamic Logic
... 1722 \cmdtxtoparname{PDL}
    1723
    1724 % Computation Tree Logic
    1725 \cmdtxtoparname{CTL}
    1727 % Weak Computation Tree Logic
    1728 \DeclareRobustCommand{\WCTL}
    1729
         {{\txtname{W}}\CTL}
    1730
    1731 % Quantified Computation Tree Logic
    1732 \DeclareRobustCommand{\QCTL}
    1733 \{\{\text{txtname}\{Q\}\}\}\
    1734 \DeclareRobustCommand{\ECTL}
    1735 {\ensuremath{\exists}\CTL}
    1736 \DeclareRobustCommand{\UCTL}
         {\ensuremath{\forall}\CTL}
    1739 % Improved Computation Tree Logic
    1740 \cmdtxtoparname{CTLP}[CTL$^{+}$]
    1742\;\text{\%} Weak Improved Computation Tree Logic
    1743 \DeclareRobustCommand{\WCTLP}
         {{\txtname{W}}\CTLP}
    1746 % Quantified Improved Computation Tree Logic
    1747 \DeclareRobustCommand{\QCTLP}
         {{\txtname{Q}}\CTLP}
    1749 \DeclareRobustCommand{\ECTLP}
         {\ensuremath{\exists}\CTLP}
    1751 \DeclareRobustCommand{\UCTLP}
         {\ensuremath{\forall}\CTLP}
    1752
    1754 % Full Computation Tree Logic
    1755 \cmdtxtoparname{CTLS}[CTL*]
    1756
    1757 % Weak Full Computation Tree Logic
    1758 \DeclareRobustCommand{\WCTLS}
         {{\txtname{W}}\CTLS}
    1761 % Quantified Full Computation Tree Logic
    1762 \DeclareRobustCommand{\QCTLS}
         {{\txtname{Q}}\CTLS}
    1764 \DeclareRobustCommand{\ECTLS}
        {\ensuremath{\exists}\CTLS}
    1766 \DeclareRobustCommand{\UCTLS}
        {\ensuremath{\forall}\CTLS}
```

```
\E ...
  \A 1769 \operatorname{th}{E}{sym}
     1770 \usrmth{A}{}{sym}
     \ATL ...
 \cdots 1773 % Alternating Temporal Logic
     1774 \cmdtxtoparname{ATL}
     1775
     1776 \% Weak Alternating Tree Logic
     1777 \DeclareRobustCommand{\WATL}
          {{\txtname{W}}\ATL}
     1779
     1780 % Quantified Alternating Temporal Logic
     1781 \DeclareRobustCommand{\QATL}
     1782 \{\{\text{txtname}\{Q\}\}\}
     1783 \DeclareRobustCommand{\EATL}
         {\ensuremath{\exists}\ATL}
     1784
     1785 \DeclareRobustCommand{\UATL}
         {\ensuremath{\forall}\ATL}
     1787
     1788 % Improved Alternating Temporal Logic
     1789 \cmdtxtoparname{ATLP}[ATL$^{+}$]
     1791 % Weak Improved Alternating Tree Logic
     1792 \DeclareRobustCommand{\WATLP}
          {{\txtname{W}}\ATLP}
     1793
     1794
     1795 % Quantified Improved Alternating Temporal Logic
     1796 \DeclareRobustCommand{\QATLP}
         {\{\text{txtname}\{Q\}\}\setminus ATLP\}}
     1798 \DeclareRobustCommand{\EATLP}
          {\ensuremath{\exists}\ATLP}
     1800 \DeclareRobustCommand{\UATLP}
     1801
          {\ensuremath{\forall}\ATLP}
     1802
     1803 % Full Alternating Temporal Logic
     1804 \cmdtxtoparname{ATLS}[ATL*]
     1806 % Weak Full Alternating Tree Logic
     1807 \DeclareRobustCommand{\WATLS}
         {\{\text{Xtname}\{W\}}\ATLS\}
     1810 % Quantified Full Alternating Temporal Logic
     1811 \DeclareRobustCommand{\QATLS}
     1812 \{\{\text{txtname}\{Q\}\}\setminus ATLS\}
     1813 \DeclareRobustCommand{\EATLS}
     1814 {\ensuremath{\exists}\ATLS}
     1815 \DeclareRobustCommand{\UATLS}
         {\ensuremath{\forall}\ATLS}
     \EExs ...
\verb|\AAll | 1818 \verb|\DeclareRobustCommand{\EExs}[1]|
     1819 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
     1820 \DeclareRobustCommand{\AAll}[1]
          {\mth{\argmid{\left[\}{\defval{#1}{\emptyset}}{\right]\}}}
```

```
\CGS ...
         1823 \cmdtxtname{CGS}
\CGSStr ...
    · · · 1824 \newcommand{\cgsstr}{G}
         1825 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet ...
    \cdots 1826 \newcommand{\agnsym}{a}
         1827 \newcommand{\agnset}{Ag}
         1828 \cmdmthsetext{Agn}[\agnset][\agnsym]
\ActSet ...
     \cdots \ 1829 \verb|\newcommand{\actsym}{c}
         1830 \mbox{ \newcommand{\actset}{Ac}}
         1831 \verb|\cmdmthsetext{Act}| [\verb|\actset|] [\|\cmdmthsetext{Mct}|] |
\PosSet ...
     \cdots 1832 \providecommand{\possym}{v}
         1833 \providecommand{\posset}{Ps}
         1834 \cmdmthsetext{Pos}[\posset][\possym]
         1835 \cmdmthsymelm{ipos}[\possym_{I}]
         1836 \cmdmthsymelm{fpos}[\possym_{F}]
         1837 \cmdmthset{PPos}[\posset_{\PlrSym}]
         1838 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
         1839 \cmdmthset{OPos}[\posset_{\OppSym}]
         1840 \cmdmthsymelm{opos}[\possym_{\OppSym}]
\SttSet ...
     ··· 1841 \newcommand{\sttsym}{s}
         1842 \mbox{ } \mbox{sttset}{St}
         1843 \cmdmthsetext{Stt}[\sttset][\sttsym]
         1844 \cmdmthset{IStt}[\sttset_{I}]
         1845 \cmdmthsymelm{istt}[\sttsym_{I}]
         1846 \cmdmthset{FStt}[\sttset_{F}]
         1847 \cmdmthsymelm{fstt}[\sttsym_{F}]
\DecSet ...
     · · · 1848 \newcommand{\decsym}{d}
         1849 \newcommand{\decset}{Dc}
         1850 \cmdmthsetext{Dec}[\decset][\decsym]
\movFun ...
\label{lower_loss} $$\operatorname{movRel}_{1851} \newcommand{\operatorname{movsym}_{\tau}} $$
         1852 \cmdmthfun{mov}[\movsym]
         1853 \cmdmthrel{mov}[\movsym]
\trnFun ...
\verb|\trnRel|_{1854} \\ \verb|\newcommand{\trnsym}{\delta}|
         1855 \cmdmthfun{trn}[\trnsym]
         1856 \verb|\cmdmthrel{trn}| [\verb|\trnsym|]
\PrfSet ...
         1857 \providecommand{\prfsym}{\xi}
         1858 \providecommand{\prfset}{Prf}
         1859 \cmdmthsetext{Prf}[\prfset][\prfsym]
\HstSet ...
     · · · 1860 \providecommand{\hstsym}{\varpi}
         1861 \providecommand{\hstset}{Hst}
         1862 \cmdmthsetext{Hst}[\hstset][\hstsym]
```

1863 \cmdmthset{PHst}[\hstset\_{\PlrSym}]

```
1864 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1865 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1866 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                   1867 \usrmth{hst}{}{argfun}
\PlaySet ...
           · · · 1868 \providecommand{\playsym}{\pi}
                   1869 \providecommand{\playset}{Play}
                   1870 \cmdmthsetext{Play}[\playset][\playsym]
                   1871 \usrmth{play}{}{argfun}
  \PlnSet ...
           \cdots 1872 \providecommand{\plnsym}{\rho}
                   1873 \providecommand{\plnset}{Pln}
                   1874 \cmdmthsetext{Pln}[\plnset][\plnsym]
                   1875 \verb|\cmdmthset{PPln}[\plnset_{\PlrSym}]|
                   1876 \verb|\cmdmthsymelm{pPln}[\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\plnsym_{\
                   1877 \verb|\cmdmthset{OPln}[\plnset_{\correct}]
                   1878 \verb|\cmdmthsymelm{oPln}[\plnsym_{\coloredge m}]|
  \StrSet ...
           ··· 1879 \providecommand{\strsym}{\sigma}
                   1880 \providecommand{\strset}{Str}
                   1881 \cmdmthsetext{Str}[\strset][\strsym]
                   1882 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1883 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1884 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1885 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
                   \PL ...
           · · · 1887 % Plan Logic
                   1888 \cmdtxtoparname{PL}
                   1889
                   1890 \DeclareRobustCommand{\EPL}
                              {\ensuremath{\exists}\PL}
                   1891
                   1892 \DeclareRobustCommand{\UPL}
                   1893
                                {\ensuremath{\forall}\PL}
                   1894
                   1895 \DeclareRobustCommand{\FPL}
                               {\{\text{txtname}\{F\}}\PL\}
                   1897
                   1898 \DeclareRobustCommand{\EFPL}
                   1899 {\ensuremath{\exists}\FPL}
                   1900 \DeclareRobustCommand{\UFPL}
                               {\ensuremath{\forall}\FPL}
                   1901
                   1902
                   1903 % One-Goal Plan Logic
                   1904 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
                   1905
                                {\PL[#1][#2][1g\arglef{,}{#3}]}
                   1906
                   1907 \DeclareRobustCommand{\EOGPL}
                               {\ensuremath{\exists}\OGPL}
                   1909 \DeclareRobustCommand{\UOGPL}
                   1910
                               {\ensuremath{\forall}\OGPL}
                   1911
                   1912 \DeclareRobustCommand{\FOGPL}
                               {{\txtname{F}}\OGPL}
                   1913
                   1914
                   1915 \DeclareRobustCommand{\EFOGPL}
                               {\ensuremath{\exists}\FOGPL}
                   1917 \DeclareRobustCommand{\UFOGPL}
                   1918 {\ensuremath{\forall}\FOGPL}
```

```
1919
1920 % Conjunctive-Goal Plan Logic
1921 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
1922
      {\PL[#1][#2][cg\arglef{,}{#3}]}
1923
1924 \DeclareRobustCommand{\ECGPL}
     {\ensuremath{\exists}\CGPL}
1926 \DeclareRobustCommand{\UCGPL}
      {\ensuremath{\forall}\CGPL}
1927
1929 \DeclareRobustCommand{\FCGPL}
     {{\txtname{F}}\CGPL}
1931
1932 \DeclareRobustCommand{\EFCGPL}
      {\ensuremath{\exists}\FCGPL}
1934 \DeclareRobustCommand{\UFCGPL}
      {\ensuremath{\forall}\FCGPL}
1935
1936
1937 % Disjunctive-Goal Plan Logic
1938 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][dg\arglef{,}{#3}]}
1940
1941 \DeclareRobustCommand{\EDGPL}
1942
      {\ensuremath{\exists}\DGPL}
1943 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
1944
1945
1946 \DeclareRobustCommand{\FDGPL}
1947
      {{\txtname{F}}\DGPL}
1948
1949 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
1951 \DeclareRobustCommand{\UFDGPL}
1952
     {\ensuremath{\forall}\FDGPL}
1953
1954 % Alternating-Goal Plan Logic
1955 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
     {\PL[#1][#2][ag\arglef{,}{#3}]}
1957
1958 \DeclareRobustCommand{\EAGPL}
     {\ensuremath{\exists}\AGPL}
1960 \DeclareRobustCommand{\UAGPL}
      {\ensuremath{\forall}\AGPL}
1962
1963 \DeclareRobustCommand{\FAGPL}
     {\{\text{txtname}\{F\}\}\setminus AGPL\}}
1964
1965
1966 \DeclareRobustCommand{\EFAGPL}
     {\ensuremath{\exists}\FAGPL}
1968 \DeclareRobustCommand{\UFAGPL}
1969
      {\ensuremath{\forall}\FAGPL}
1971 % Extended-Goal Plan Logic
1972 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
1973
      {\PL[#1][#2][eg\arglef{,}{#3}]}
1974
1975 \DeclareRobustCommand{\EEGPL}
      {\ensuremath{\exists}\EGPL}
1977 \DeclareRobustCommand{\UEGPL}
1978
      {\ensuremath{\forall}\EGPL}
1979
1980 \DeclareRobustCommand{\FEGPL}
      {{\txtname{F}}\EGPL}
```

```
1982
    1983 \DeclareRobustCommand{\EFEGPL}
         {\ensuremath{\exists}\FEGPL}
    1985 \DeclareRobustCommand{\UFEGPL}
    1986
         {\ensuremath{\forall}\FEGPL}
    1987
    1988 % Boolean-Goal Plan Logic
    1989 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
          {\PL[#1][#2][bg\arglef{,}{#3}]}
    1992 \DeclareRobustCommand{\EBGPL}
         {\ensuremath{\exists}\BGPL}
    1994 \DeclareRobustCommand{\UBGPL}
         {\ensuremath{\forall}\BGPL}
    1996
    1997 \DeclareRobustCommand{\FBGPL}
         {{\txtname{F}}\BGPL}
    1998
    1999
    2000 \DeclareRobustCommand{\EFBGPL}
          {\ensuremath{\exists}\FBGPL}
    2002 \DeclareRobustCommand{\UFBGPL}
         {\ensuremath{\forall}\FBGPL}
    2004
    2005 % Undefined-Goal Plan Logic
   2006 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
         {\PL[#1][#2][xg\arglef{,}{#3}]}
   2008
    2009 \DeclareRobustCommand{\EXGPL}
         {\ensuremath{\exists}\XGPL}
    2011 \DeclareRobustCommand{\UXGPL}
          {\ensuremath{\forall}\XGPL}
    2012
    2014 \DeclareRobustCommand{\FXGPL}
         {{\txtname{F}}\XGPL}
   2015
   2016
    2017 \DeclareRobustCommand{\EFXGPL}
    2018 {\ensuremath{\exists}\FXGPL}
    2019 \DeclareRobustCommand{\UFXGPL}
         {\ensuremath{\forall}\FXGPL}
· · · 2021 % Strategy Logic
    2022 \cmdtxtoparname{SL}
    2023
    2024 \DeclareRobustCommand{\ESL}
         {\ensuremath{\exists}\SL}
    2025
   2026 \DeclareRobustCommand{\USL}
         {\ensuremath{\forall}\SL}
    2027
    2028
    2029 \DeclareRobustCommand{\FSL}
         {\{\text{txtname}\{F\}\}\SL\}}
    2030
    2032 \DeclareRobustCommand{\EFSL}
         {\ensuremath{\exists}\FSL}
    2034 \DeclareRobustCommand{\UFSL}
    2035
         {\ensuremath{\forall}\FSL}
    2037 \% One-Goal Strategy Logic
    2038 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
         {\SL[#1][#2][1g\arglef{,}{#3}]}
    2041 \DeclareRobustCommand{\EOGSL}
         {\ensuremath{\exists}\OGSL}
    2043 \DeclareRobustCommand{\UOGSL}
```

```
2044
      {\ensuremath{\forall}\OGSL}
2045
2046 \DeclareRobustCommand{\FOGSL}
2047
      {{\txtname{F}}\OGSL}
2048
2049 \DeclareRobustCommand{\EFOGSL}
     {\ensuremath{\exists}\FOGSL}
2051 \DeclareRobustCommand{\UFOGSL}
2052
      {\ensuremath{\forall}\FOGSL}
2054 % Conjunctive-Goal Strategy Logic
2055 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][cg\arglef{,}{#3}]}
2057
2058 \DeclareRobustCommand{\ECGSL}
2059
      {\ensuremath{\exists}\CGSL}
2060 \DeclareRobustCommand{\UCGSL}
      {\ensuremath{\forall}\CGSL}
2061
2062
2063 \DeclareRobustCommand{\FCGSL}
      {{\txtname{F}}\CGSL}
2066 \DeclareRobustCommand{\EFCGSL}
2067
      {\ensuremath{\exists}\FCGSL}
2068 \DeclareRobustCommand{\UFCGSL}
      {\ensuremath{\forall}\FCGSL}
2069
2070
2071 % Disjunctive-Goal Strategy Logic
2072 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2074
2075 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
2077 \DeclareRobustCommand{\UDGSL}
2078
      {\ensuremath{\forall}\DGSL}
2079
2080 \DeclareRobustCommand{\FDGSL}
      {{\txtname{F}}\DGSL}
2081
2082
2083 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
2085 \DeclareRobustCommand{\UFDGSL}
2086
      {\ensuremath{\forall}\FDGSL}
2088 \% Alternating-Goal Strategy Logic
2089 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
2090
      {\SL[#1][#2][ag\arglef{,}{#3}]}
2091
2092 \DeclareRobustCommand{\EAGSL}
     {\ensuremath{\exists}\AGSL}
2094 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
2097 \DeclareRobustCommand{\FAGSL}
2098
      {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2099
2100 \DeclareRobustCommand{\EFAGSL}
      {\ensuremath{\exists}\FAGSL}
2102 \DeclareRobustCommand{\UFAGSL}
2103
      {\ensuremath{\forall}\FAGSL}
2104
2105 % Extended-Goal Strategy Logic
2106 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
```

```
2107
      {\SL[#1][#2][eg\arglef{,}{#3}]}
2108
2109 \DeclareRobustCommand{\EEGSL}
2110
     {\ensuremath{\exists}\EGSL}
2111 \DeclareRobustCommand{\UEGSL}
     {\ensuremath{\forall}\EGSL}
2112
2113
2114 \DeclareRobustCommand{\FEGSL}
2115 \quad \{\{\text{txtname}\{F\}\}\} \in SL\}
2117 \DeclareRobustCommand{\EFEGSL}
     {\ensuremath{\exists}\FEGSL}
2119 \DeclareRobustCommand{\UFEGSL}
     {\ensuremath{\forall}\FEGSL}
2121
2122 % Boolean-Goal Strategy Logic
2123 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][bg\arglef{,}{#3}]}
2125
2126 \DeclareRobustCommand{\EBGSL}
      {\ensuremath{\exists}\BGSL}
2128 \DeclareRobustCommand{\UBGSL}
2129
     {\ensuremath{\forall}\BGSL}
2130
2131 \DeclareRobustCommand{\FBGSL}
      {\{\text{txtname}\{F\}\}\setminus BGSL}
2132
2133
2134 \DeclareRobustCommand{\EFBGSL}
2135 {\ensuremath{\exists}\FBGSL}
2136 \DeclareRobustCommand{\UFBGSL}
      {\ensuremath{\forall}\FBGSL}
2137
2139 % Nested-Goal Strategy Logic
2140 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
2141
      {\SL[#1][#2][ng\arglef{,}{#3}]}
2143 \DeclareRobustCommand{\ENGSL}
     {\ensuremath{\exists}\NGSL}
2145 \DeclareRobustCommand{\UNGSL}
      {\ensuremath{\forall}\NGSL}
2148 \DeclareRobustCommand{\FNGSL}
2149
     {{\txtname{F}}\NGSL}
2151 \DeclareRobustCommand{\EFNGSL}
2152 {\ensuremath{\exists}\FNGSL}
2153 \DeclareRobustCommand{\UFNGSL}
2154 {\ensuremath{\forall}\FNGSL}
2156 % Undefined-Goal Strategy Logic
2157 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][xg\arglef{,}{#3}]}
2160 \DeclareRobustCommand{\EXGSL}
      {\ensuremath{\exists}\XGSL}
2162 \DeclareRobustCommand{\UXGSL}
2163
      {\ensuremath{\forall}\XGSL}
2164
2165 \DeclareRobustCommand{\FXGSL}
     {{\txtname{F}}\XGSL}
2166
2167
2168 \DeclareRobustCommand{\EFXGSL}
     {\ensuremath{\exists}\FXGSL}
```

```
2170 \DeclareRobustCommand{\UFXGSL}
                     {\ensuremath{\forall}\FXGSL}
             \BndSet ...
       · · · 2173 \newcommand{\bndsym}{\flat}
             2174 \newcommand{\bndset}{Bn}
             2175 \cmdmthsetext{Bnd}[\bndset][\bndsym]
             2176 \mbox{ } [\mbox{bndsym_{\text{idbnd}} [\mbox{text{id}}]}]
             2177 \usrmth{bnd}{}{argfun}
      \psn ...
             2178 \usrmth{psn}{}{argfun}
             \nxt ...
             2180 \usrmth{nxt}{}{argfun}
             2181 \fi
             2186 \ifaut@
             \DFA ...
        ··· 2188 \cmdtxtoparname{DFA}\cmdtxtoparname{NFA}\cmdtxtoparname{UFA}\cmdtxtoparname{AFA}
             2191
             2194 \cmdtxtoparname{DBW}\cmdtxtoparname{ABW}
             2196 \cmdtxtoparname{DPW}\cmdtxtoparname{MPW}\cmdtxtoparname{UPW}\cmdtxtoparname{APW}
             2197 \cmdtxtoparname{DRW}\cmdtxtoparname{URW}\cmdtxtoparname{ARW}
             {\tt 2198 \cmdtxtoparname\{NSW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{ASW\}\cmdtxtoparname\{
             2199 \cmdtxtoparname{DMW}\cmdtxtoparname{AMW}
      \GFG ...
       ··· 2200 \cmdtxtoparname{GFG}
             2202 \cmdtxtoparname{PD}
             2203 \cmdtxtoparname{PN}
             2204
             2205 \cmdtxtoparname{LD}
             2206 \cmdtxtoparname{LN}
             \AutName ...
       \cdots 2208 \newcommand{\autname}{A}
             2209 \usrmthlatupp{Aut}{Name}{name}[\autname]
             2210 \mbox{ }\mbox{\em newcommand{\autset}{Aut}}
             2211 \cmdmthset{Aut}[\autset]
\WAutSet ...
             2212 \newcommand{\wautset}{WAut}
             2213 \cmdmthset{WAut}[\wautset]
```

```
\SymSet ...
         ··· 2214 \newcommand{\symsym}{\sigma}
                2215 \newcommand{\symset}{\Sigma}
                2216 \cmdmthsetext{Sym}[\symset][\symsym]
  \SttSet ...
        · · · 2217 \providecommand{\sttsym}{q}
                2218 \providecommand{\sttset}{Q}
                2219 \cmdmthsetext{Stt}[\sttset][\sttsym]
                2220 \cmdmthset{IStt}[\sttset_{I}]
                2221 \cmdmthsymelm{istt}[\sttsym_{I}]
                2222 \mbox{cmdmthset{FStt}[\sttset_{F}]}
                2223 \mbox{cmdmthsymelm{fstt}[\sttsym_{F}]}
  \trnFun ...
  \verb|\trnRel||_{2224} \verb|\providecommand{\trnsym}{\delta}|
                2225 \cmdmthfun{trn}[\trnsym]
                2226 \cmdmthrel{trn}[\trnsym]
                \WrdSet ...
         ··· 2228 \newcommand{\wrdsym}{w}
                2229 \mbox{ } \mbox{wrdset}{Wr}
                2230 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
     \Lang ...
                2231 \usrmth{Lang}{}{argfun}[L]
                \DTA ...
         \cdots 2233 \cmdtxtoparname{DTA}\cmdtxtoparname{ATA}\cmdtxtoparname{ATA}
                2235 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                2236 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}\cmdtxtoparname{UWT}\cmdtxtoparname{AWT}
                2237 \cmdtxtoparname{DBT}\cmdtxtoparname{NBT}\cmdtxtoparname{UBT}\cmdtxtoparname{ABT}
                2238 \cmdtxtoparname{DCT}\cmdtxtoparname{UCT}\cmdtxtoparname{UCT}\cmdtxtoparname{ACT}
                2239 \cmdtxtoparname{DPT}\cmdtxtoparname{UPT}\cmdtxtoparname{APT}
                2240 \verb|\cmdtxtoparname{NRT}| cmdtxtoparname{URT}| cmdtxtoparname{ART}| cmdtxtoparname{ART}|
                2241 \verb|\cmdtxtoparname{NST}\cmdtxtoparname{UST}\cmdtxtoparname{AST}|
                2242 \verb|\cmdtxtoparname{NMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
                \TAutSet ...
                2244 \neq \text{TAut}
                2245 \cmdmthset{TAut}[\tautset]
  \DirSet ...
         ··· 2246 \newcommand{\dirsym}{d}
                2247 \mbox{ \newcommand{\dirset}{\Lambda}}
                2248 \cmdmthsetext{Dir}[\dirset][\dirsym]
                \TreeSet ...
         \cdots 2250 \newcommand{\treesym}{T}
                2251 \newcommand{\treeset}{Tr}
                2252 \cmdmthsetext{Tree} [\treeset] [\treesym]
       \wot ...
                2253 \usrmth{wot}{}{argfun}
```

```
2254 \fi
    2259 \iffrm@
  . . . ...
    2260 %%...
    2261 \fi
    2266 \iffig@
    2267 \RequirePackage{tikz}
    2268 \usetikzlibrary{arrows, shapes, patterns, graphs, matrix}
    2269 \tikzstyle{every node} =
      [draw = none, fill = none, black, thin]
    2271 \tikzstyle{every edge} +=
    2272 [black, thick]
    2273 \tikzstyle{noall} =
    2274 [draw = none, fill = none]
    2275 \tikzstyle{nodraw} =
    2276 [draw = none, fill = white]
    2277 \tikzstyle{nofill} =
    2278 [draw = black, fill = none]
    2279 \ifwrpfig@
    2280 % Wrapfig Package
    2281
      \RequirePackage{wrapfig}
    2282 \fi
    2283 \fi
    2288 \iftab@
    2289 %%...
    2290 \fi
    2295 \ifalg@
    2296 \RequirePackage[ruled,vlined]{algorithm2e}
    2297 \DontPrintSemicolon
    2298 \SetInd{0.25em}{0.5em}
    2299 \setlength{\algomargin}{1.25em}
\Signature ...
    2300 \SetKw{Signature}{signature}
 \Macro ...
  ··· 2301 \SetKwFor{Macro}{macro}{}}
    2302 \SetKwFor{Function}{function}{}}
    2303 \SetKwFor{Procedure}{procedure}{}{}
```

```
\Let ...
     2304 \SetKwFor{Let}{let}{in}{}
\True ...
\False _{2305} \SetKw{True}{true}
     2306 \SetKw{False}{false}
\From ...
  · · · 2307 \SetKw{From}{from}
     2308 \To}{to}
     2309 \SetKw{DownTo}{downto}
\GoTo ...
  ··· 2310 \SetKw{GoTo}{goto}
     2311 \SetKw{Break}{break}
     2312 \SetKw{Continue}{continue}
  2314 \verb|\DeclareRobustCommand{\nlr}[1]
     2315 \quad \{\addtocounter\{AlgoLine\}\{1\}\%
     2316 \quad \verb|\arabic{AlgoLine}-\addtocounter{AlgoLine}{\#1}\arabic{AlgoLine}}|
     2319 \endinput
     2320 (/package)
```

## 2 Change History

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

## 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.

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\\ \text{Qset1}  \text{.998}, 1000, 1001 \\ \text{Qsetr}  \text{.1006}, 1008, 1009 \\ \text{Qsexs}  \text{.120}, 1123 \\ \text{Qslen}  \text{.147}, 1150 \\ \text{Qsnewmth}   \text{.147}, 1150 \\ \text{Qsnewmtharg}    \text{.25}, 428 \\ \text{Qsnewmthargsty}     \text{431}, 434 \\ \text{Qsnewmthoarg}     \text{437}, 440 \\ \text{Qsnewmthoargsty}     \text{437}, 440 \\ \text{Qsnewmthopar}     \text{467}, 470 \\   \text{Qsnewmthopar}     \text{467}, 470 \\   \text{Qsnewmthpar}  \qua	\adhoc \ 817 \adj \ 923 \aElm \ 715 \AFam \ 605 \AFGMC \ 1669, 1678, 1680, 1682 \Afortiori \ 840 \afortiori \ 818 \aFrm \ 770 \aFun \ 689 \AgnSet \ 1826, 1828 \agnsym \ 1826, 18	\asgsym 1429, 1431 \aSig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \ATL 1773 \ATLP 1793, 1797, 1799, 1801 \ATLS 1808, 1812, 1814, 1816 \atr 1311 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2208 \autname 2208, 2209 \autset 2210, 2211 \aux@false 11, 13 \aux@true 12 \aVec 797  B  \BF 1369 \bfseries 536 \BG 1316 \BGPL 1989, 1993, 1995, 1998
\\( \text{\text{\cong}} \) \\( \text{\cong} \text{\cong} \text{\cong} \) \\( \text{\cong} \text{\cong} \text{\cong} \text{\cong} \text{\cong} \) \\( \text{\cong} \text{\cong} \text{\cong} \text{\cong} \text{\cong} \text{\cong} \) \\( \text{\cong}	\adhoc \ 817 \adj \ 923 \aElm \ 715 \AFam \ 605 \AFGMC \ 1669, 1678, 1680, 1682 \Afortiori \ 840 \afortiori \ 818 \aFrm \ 770 \aFun \ 689 \AgnSet \ 1826, 1828 \agnsym \ 1826, 1828 \algorightarrow 1203 \aka \ 864 \ala \ 857 \algorightarrow 126, 128 \algorightarrow 126, 128 \algorightarrow 127 \algorightarrow 126 \algorightarrow 127 \algorightarrow 1299 \all \ 11 \ 1624 \all \ 1417 \amat \ 1417 \amat \ 1447 \amat \ 1447 \amat \ 1447 \amat \ 1784 \amsdef@false \ 17	\asgsym 1429, 1431 \aSig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \ATL 1773 \ATLP 1793, 1797, 1799, 1801 \ATLS 1808, 1812, 1814, 1816 \atr 1311 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2208 \autname 2208, 2209 \autset 2210, 2211 \aux@false 11, 13 \aux@true 12 \aVec 797  B  \BF 1369 \bfseries 536 \BG 1316 \BGPL 1989, 1993, 1995, 1998 \bgroup 171
\\( \text{\te\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text	\adhoc \ 817 \adj \ 923 \aElm \ 715 \AFam \ 605 \AFGMC \ 1669, 1678, 1680, 1682 \Afortiori \ 840 \afortiori \ 818 \aFrm \ 770 \aFun \ 689 \AgnSet \ 1826, 1828 \agnsym \ 1826, 1828 \alguer \ 1955, 1959, 1961, 1964 \agnsym \ 1826, 1828 \alguer \ 1265, 1959, 1961, 1964 \agnsym \ 1826, 1828 \alguer \ 1265, 1959, 1961, 1964 \agnsym \ 1826, 1828 \alguer \ 1827 \alguer \ 1840 \alguer \ 127 \algomargin \ 2299 \alguer \ 127 \algomargin \ 1624 \alguer \ 1417 \amat \ 1417 \amat \ 1447 \amsdef@true \ 16	\asgsym 1429, 1431 \aSig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \ATL 1773 \ATLP 1793, 1797, 1799, 1801 \ATLS 1808, 1812, 1814, 1816 \atr 1311 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2208 \autname 2208, 2209 \autset 2210, 2211 \aux@false 11, 13 \aux@true 12 \aVec 797  B \BF 1369 \bfseries 536 \BG 1316 \BGPL 1989, 1993, 1995, 1998 \bgroup 171 \BGSL 2123, 2127, 2129, 2132
\\ \text{Qset1}  \text{.998}, 1000, 1001 \\ \text{Qsetr}  \text{.1006}, 1008, 1009 \\ \text{Qsexs}  \text{.120}, 1123 \\ \text{Qslen}  \text{.1147}, 1150 \\ \text{Qsnewmth}   \text{.134}, 416 \\ \text{Qsnewmtharg}    \text{.425}, 428 \\ \text{Qsnewmthargsty}    \text{.437}, 440 \\ \text{Qsnewmthoarg}     \text{.437}, 440 \\ \text{Qsnewmthoargsty}     \text{.437}, 440 \\ \text{Qsnewmthoargsty}     \text{.467}, 470 \\ \text{Qsnewmthoarsty}     \text{.467}, 470 \\ \text{Qsnewmthpar}     \text{.455}, 458 \\   \text{Qsnewmthpar}   \qquad                \	\adhoc \ 817 \adj \ 923 \aElm \ 715 \AFam \ 605 \AFGMC \ 1669, 1678, 1680, 1682 \Afortiori \ 840 \afortiori \ 818 \aFrm \ 770 \aFun \ 689 \AgnSet \ 1826, 1828 \agnsym \ 1826, 1828 \alguer \ 1955, 1959, 1961, 1964 \agnsym \ 1826, 1828 \alguer \ 1203 \aka \ 864 \ala \ 857 \alguer \ 126, 128 \alguer \ 127 \algomargin \ 2299 \all \ 1 \ 1624 \all \ 1417 \amat \ 784 \amsdef@true \ 16 \amsdef@true \ 16 \amsthm@false \ 21	\asgsym 1429, 1431 \aSig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \ATL 1773 \ATLP 1793, 1797, 1799, 1801 \ATLS 1808, 1812, 1814, 1816 \atr 1311 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2208 \autname 2208, 2209 \autset 2210, 2211 \aux@false 11, 13 \aux@true 12 \aVec 797  B \BF 1369 \bfseries 536 \BG 1316 \BGPL 1989, 1993, 1995, 1998 \bgroup 171 \BGSL 2123, 2127, 2129, 2132 \BMod 1622, 1633, 1635
\\ \text{Qset1} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\adhoc \ 817 \adj \ 923 \aElm \ 715 \AFam \ 605 \AFGMC \ 1669, 1678, 1680, 1682 \Afortiori \ 840 \afortiori \ 818 \aFrm \ 770 \aFun \ 689 \AgnSet \ 1826, 1828 \agnset \ 1827, 1828 \agnsym \ 1826, 1828 \AGPL \ 1955, 1959, 1961, 1964 \AGSL \ 2089, 2093, 2095, 2098 \AH \ 1203 \aka \ 864 \ala \ 857 \alg@false \ 126, 128 \alg@true \ 127 \algomargin \ 2299 \All \ 1624 \Alpha \ 1417 \amsdef@true \ 16 \amsdef@true \ 20 \amsthm@true \ 20 \amsthm@true \ 20	\asgsym 1429, 1431 \aSig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \ATL 1773 \ATLP 1793, 1797, 1799, 1801 \ATLS 1808, 1812, 1814, 1816 \atr 1311 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2208 \autname 2208, 2209 \autset 2210, 2211 \aux@false 11, 13 \aux@true 12 \aVec 797  B \BF 1369 \bfseries 536 \BG 1316 \BGPL 1989, 1993, 1995, 1998 \bgroup 171 \BGSL 2123, 2127, 2129, 2132 \BMod 1622, 1633, 1635 \BndSet 2173
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\mathit 675, 769, 796	903, 905, 908, 910, 912, 914	\newtxtarg $311, 320, 322, 326, 328$
\mathnormal 714	\mthluop 743	\newtxtargsty $\frac{317}{365}$ , $\frac{383}{384}$
\mathop 744	\mthmat 782	\newtxtoarg <u>323</u> , 332, 334
\mathpzc 293, 630	\mthname 590	\newtxtoargsty <u>329</u> , 367, 388, 389
\mathrel 751, 1044	\mthoarg 479	\newtxtopar 347, 356, 358
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	\mthopar 483	\newtxtoparsty 353, 371, 398, 399
\mathrm 656	\mthpar 481	\newtxtpar $335, 344, 346, 350, 352$
\mathscr $\underline{294}$ , 604	\mthrel <u>674</u>	\newtxtparsty $341, 369, 393, 394$
\mathsf 688, 756, 783	\mthset <u>655</u> , 1060, 1062, 1064,	\newtxtsty $305$ , $363$ , $378$ , $379$
\mathtt	1068, 1076, 1084, 1092	\NGSL 2140, 2144, 2146, 2149
\max 1137	\mthsig 629	\nlr 2314
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\MIf <u>2313</u>	\mthstyfrm 769	\notcoimplies 904
\min	\mtnstyirm 769 \mtnstyfun 688	· •
\min <u>1137</u>	\mthstyfun 688	\notimplied 900
\min	\mthstyfun 688 \mthstylbop 745	\notimplied 900 \notimplies 896
\min \ \ \ \ \ \min \ \ \ \min \ \ \ \ \min \ \ \ \ \min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun 688 \mthstylbop	\notimplied
\min \ \ \ \ \ \min \ \ \min \ \ \min \min	\mthstyfun	\notimplied 900 \notimplies 896 \num \ \ \ \numcc \ 1096 \numcc \ 1098
\min \ \ \frac{1137}{\text{MinSym}} \ \ \text{minsym} \ \ \frac{1353}{\text{MInSym}} \ \ \text{ML} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun	\notimplied       900         \notimplies       896         \num       \frac{1096}{2000}         \numcc       1098         \numco       1100
\min       1137         \MinSym       1353         \minsym       1355, 1356         \ML       1606         \models       908, 910         \movFun       1851	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591	\notimplied         900           \notimplies         896           \num         \frac{1096}{2000}           \numcc         1098           \numco         1100           \numoc         1102
\min       1137         \MinSym       1353         \minsym       1355, 1356         \ML       1606         \models       908, 910         \movFun       1851         \MovRel       1275	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675	\notimplied         900           \notimplies         896           \num         \frac{1096}{2000}           \numcc         1098           \numco         1100           \numoc         1102           \numoo         1104
\min       1137         \minSym       1353         \minsym       1355, 1356         \ML       1606         \models       908, 910         \movFun       1851         \movRel       1851         \movRel       1851	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656	\notimplied         900           \notimplies         896           \num         \frac{1096}{2000}           \numcc         1098           \numco         1100           \numoc         1102
\min     1137       \MinSym     1353       \minsym     1355, 1356       \ML     1606       \models     908, 910       \movFun     1851       \movRel     1851       \movrel     1275, 1276	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630	\notimplied       900         \notimplies       896         \num       1096         \numcc       1098         \numco       1100         \numco       1102         \numoo       1104         \nxt       2180
\min     1137       \MinSym     1353       \minsym     1355, 1356       \ML     1606       \models     908, 910       \movFun     1851       \movRel     1275       \movrel     1275, 1276       \movsym     1851, 1852, 1853	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min     1137       \MinSym     1353       \minsym     1355, 1356       \ML     1606       \models     908, 910       \movFun     1851       \movRel     1851       \movrel     1275, 1276	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630	\notimplied       900         \notimplies       896         \num       1096         \numcc       1098         \numco       1100         \numco       1102         \numoo       1104         \nxt       2180
\min     1137       \MinSym     1353       \minsym     1355, 1356       \ML     1606       \models     908, 910       \movFun     1851       \movRel     1275       \movrel     1275, 1276       \movsym     1851, 1852, 1853	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysnt       756	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min     1137       \MinSym     1353       \minsym     1355, 1356       \ML     1606       \models     908, 910       \movFun     1851       \movRel     1275       \movrel     1275, 1276       \movsym     1851, 1852, 1853       \MPL     1593, 1598, 1602       \MSO     1535, 1542, 1548	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysnt       756         \mthstystr       643         \mthstysym       701	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min       1137         \MinSym       1353         \minsym       1355, 1356         \ML       1606         \models       908, 910         \movFun       1851         \movRel       1275         \movRel       1275, 1276         \movsym       1851, 1852, 1853         \mPL       1593, 1598, 1602         \MSO       1535, 1542, 1548         \MSOL       1533, 1540, 1546	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysnt       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \frac{1137}{\MinSym} \frac{1353}{\Sinsym} \frac{1355}{1356} \minsym \frac{1355}{1356} \minsym \frac{1355}{1356} \minsym \frac{1355}{1356} \minsym \frac{1355}{1356} \minsym \frac{1606}{1355} \minsym \frac{1606}{1351} \movFun \frac{1851}{1275} \movRel \frac{1275}{1275} \movRel \frac{1275}{1276} \movrel \frac{1275}{1276} \movsym \frac{1851}{1852}, 1853 \mathred{MPL} \frac{1593}{1598}, 1598, 1602 \mathred{MSO} \frac{1535}{1535}, 1542, 1548 \mathred{MSOL} \frac{1533}{1533}, 1540, 1546 \mthred{Mth} \frac{475}{475}, 919, 921,	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstystr       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796         \mthsubsup       415, 417, 472	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysit       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796         \mthsubsup       415, 417, 472         \mthsym       700	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysit       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796         \mthsubsup       415, 417, 472         \mthsym       700         \mthvec       795	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysit       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796         \mthsubsup       415, 417, 472         \mthsym       700         \mthvec       795         \MTL       1570, 1575, 1579	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numco 1100 \numco 1102 \numco 1104 \nxt 2180  O \text{ObsFun} 1281 \text{ObsSet} 1281, 1282 \text{odd} 1133 \text{OddSym} 1336, 1337 \text{odot} 1309
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysrt       756         \mthstystr       643         \mthstysym       701         \mthstysym       701         \mthstysym       701         \mthstysup       415, 417, 472         \mthsym       700         \mthvec       795         \mtl       1570, 1575, 1579         \mu       1654	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysnt       756         \mthstystr       643         \mthstysym       701         \mthstysym       701         \mthstyvec       796         \mthsubsup       415, 417, 472         \mthsym       700         \mthvec       795         \mtl       1570, 1575, 1579         \mu       1654         \mtutatismutandis       850	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numcc 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1281 \obsset 1281, 1282 \odd 1334 \oddSym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysrt       756         \mthstystr       643         \mthstysym       701         \mthstysym       701         \mthstysym       701         \mthstysup       415, 417, 472         \mthsym       700         \mthvec       795         \mtl       1570, 1575, 1579         \mu       1654	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numco 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1281 \obsset 1281, 1282 \odd 1336 \oddSym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysnt       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796         \mthsym       700         \mthvec       795         \mtL       1570, 1575, 1579         \mu       1654         \mutatismutandis       850         \mutatismutandis       833	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numco 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1334 \oddSym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun 688 \mthstylbop 745 \mthstylrel 751 \mthstylrel 751 \mthstyluop 744 \mthstymat 783 \mthstyname 591 \mthstyrel 675 \mthstyrel 656 \mthstyset 656 \mthstysig 630 \mthstysig 630 \mthstysit 756 \mthstystr 643 \mthstystr 643 \mthstystr 701 \mthstystr 796 \	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numcc 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1334 \oddSym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053 \omega 1052 \Omicron 1057
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun       688         \mthstylbop       745         \mthstylrel       751         \mthstyluop       744         \mthstymat       783         \mthstyname       591         \mthstyrel       675         \mthstyset       656         \mthstysig       630         \mthstysnt       756         \mthstystr       643         \mthstysym       701         \mthstyvec       796         \mthsym       700         \mthvec       795         \mtL       1570, 1575, 1579         \mu       1654         \mutatismutandis       850         \mutatismutandis       833	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numco 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1334 \oddSym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\mthstyfun 688 \mthstylbop 745 \mthstylrel 751 \mthstylrel 751 \mthstyluop 744 \mthstymat 783 \mthstyname 591 \mthstyrel 675 \mthstyrel 656 \mthstyset 656 \mthstysig 630 \mthstysig 630 \mthstysit 756 \mthstystr 643 \mthstystr 643 \mthstystr 701 \mthstystr 796 \	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numcc 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1334 \oddSym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053 \omega 1052 \Omicron 1057
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{mthstyfun}} \ 688 \text{\text{mthstylpop}} \ 745 \text{\text{mthstylrel}} \ 751 \text{\text{mthstyluop}} \ 744 \text{\text{mthstymat}} \ 783 \text{\text{mthstymame}} \ 591 \text{\text{mthstyrel}} \ 675 \text{\text{mthstyset}} \ 656 \text{\text{mthstyset}} \ 630 \text{\text{mthstysig}} \ 630 \text{\text{mthstystr}} \ 756 \text{\text{mthstystr}} \ 756 \text{\text{mthstystr}} \ 701 \text{\text{mthstysym}} \ 701 \text{\text{mthstysym}} \ 701 \text{\text{mthstysym}} \ 701 \text{\text{mthstysup}} \ 700 \text{\text{mthstym}} \ 700 \text{\text{mthsym}} \ 700 \text{\text{mthsym}} \ 700 \text{\text{mthsym}} \ 1570, 1575, 1579 \text{\text{mu}} \ 1654 \text{\text{Mutatismutandis}} \ 850 \text{\text{mutatismutandis}} \ 833 \text{\text{N}} \text{\text{naif}} \ 858 \text{\text{naif}} \ 858 \text{\text{naive}} \ 859 \text{\text{naif}} \ 858 \text{\text{naive}} \ 859	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numco 1104 \nxt 2180  O \obsFum 1281 \ObsSet 1281, 1282 \odd 1133 \OddSym 1336, 1337 \oddsym 1336, 1337 \oddsym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053 \omega 1052 \Omicron 1057 \omicron 123, 1056 \oplus 1353
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{mthstyfun}} \ 688 \text{\text{mthstylpop}} \ 745 \text{\text{mthstylrel}} \ 751 \text{\text{mthstyluop}} \ 744 \text{\text{mthstymat}} \ 783 \text{\text{mthstymame}} \ 591 \text{\text{mthstyrel}} \ 675 \text{\text{mthstyset}} \ 656 \text{\text{mthstyset}} \ 630 \text{\text{mthstysig}} \ 630 \text{\text{mthstystr}} \ 756 \text{\text{mthstystr}} \ 643 \text{\text{mthstysym}} \ 701 \text{\text{mthstysym}} \ 701 \text{\text{mthstysym}} \ 701 \text{\text{mthstysym}} \ 700 \text{\text{mthstym}} \ 700 \text{\text{mthsym}} \ 700 \text{\text{mthsym}} \ 700 \text{\text{mthsym}} \ 700 \text{\text{mthsym}} \ 1570, 1575, 1579 \text{\text{mu}} \ 1654 \text{\text{Mutatismutandis}} \ 850 \text{\text{mutatismutandis}} \ 833 \text{\text{Nutatismutandis}} \ 859 \text{\text{haif}} \ 858 \text{\text{haif}} \ 859 \text{\text{haif}} \ 1386 \text{\text{haif}} \ 859 \text{\text{haif}} \ 850 \text{\text{haif}} \ 859 \text{\text{haif}} \ 859 \text{\text{haif}} \ 850 \text	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numco 1104 \nxt 2180  O \obsFun 1281 \obsSet 1281, 1282 \odd 1333 \oddSym 1336, 1337 \oddsym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053 \omega 1052 \Omicron 1057 \omicron 1258, 1271, 1272,
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{mthstyfun}} & 688 \text{\text{\text{mthstylpop}}} & 745 \text{\text{mthstylrel}} & 751 \text{\text{mthstyluop}} & 744 \text{\text{mthstymat}} & 783 \text{\text{mthstymame}} & 591 \text{\text{mthstyrel}} & 675 \text{\text{mthstyset}} & 656 \text{\text{mthstysig}} & 630 \text{\text{mthstysig}} & 630 \text{\text{mthstystr}} & 643 \text{\text{mthstystr}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstybup}} & 415, 417, 472 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 1654 \text{\text{Mutatismutandis}} & 850 \text{\text{mutatismutandis}} & 833 \text{\text{Nutatismutandis}} & 858 \text{\text{haive}} & 859 \text{\text{height}} \text{height} & 1386 \text{\text{height}} \text{height} & 1360, 1162, \text{\text{leg}} \text{\text{height}} & 1360 \text{\text{height}} & 1360 \text{\text{height}} \text{\text{height}} \text{\text{height}} \text{\text{height}} & 1360 \text{\text{height}} \text{\text{height}} \text{\text{height}} & 1360 \text{\text{height}} \tex	\notimplied 900 \notimplies 896 \num 1096 \numcc 1098 \numcc 1100 \numcc 1100 \numcc 1102 \numcc 1102 \numcc 1104 \nxt 2180  O \obsFun 1281 \obsset 1281, 1282 \odd 1333 \oddSym 1336, 1337 \odd 1409 \oddsym 1336, 1337 \odot 1409 \OGPL 1904, 1908, 1910, 1913 \OGSL 2038, 2042, 2044, 2047 \Omega 1053 \omega 1053 \omega 1052 \Omicron 1057 \omicron 1258, 1271, 1272, 1290, 1291, 1302, 1303,
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{mthstyfun}} & 688 \text{\text{mthstylpop}} & 745 \text{\text{mthstylrel}} & 751 \text{\text{mthstyluop}} & 744 \text{\text{mthstymat}} & 783 \text{\text{mthstymame}} & 591 \text{\text{mthstyrel}} & 675 \text{\text{mthstyset}} & 656 \text{\text{mthstysig}} & 630 \text{\text{mthstysig}} & 630 \text{\text{mthstystr}} & 643 \text{\text{mthstystr}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstybup}} & 415, 417, 472 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 1654 \text{\text{Mutatismutandis}} & 850 \text{\text{mutatismutandis}} & 833 \text{\text{Mutatismutandis}} & 858 \text{\text{haive}} & 859 \text{\text{height}} \text{\text{naive}} & 859 \text{\text{height}} \text{\text{height}} & 1386 \text{\text{height}} \text{\text{height}} & 1165, 1171, 1176, 1178 \text{\text{\text{height}}}	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{mthstyfun}} \ 688 \text{\text{mthstylpop}} \ 745 \text{\text{mthstylrel}} \ 751 \text{\text{mthstyluop}} \ 744 \text{\text{mthstymat}} \ 783 \text{\text{mthstymame}} \ 591 \text{\text{mthstyrel}} \ 675 \text{\text{mthstyset}} \ 656 \text{\text{mthstysig}} \ 630 \text{\text{mthstysig}} \ 630 \text{\text{mthstystr}} \ 756 \text{\text{mthstystr}} \ 701 \text{\text{mthstysym}} \ 700 \text{\text{mthstymh}} \ 700 \text{\text{mthsym}} \ 765 \text{\text{mthsym}} \ 700 \text{\text{mthsym}} \ 700 \text{\text{mthstystr}} \ 850 \text{\text{mutatismutandis}} \ 850 \text{\text{mutatismutandis}} \ 850 \text{\text{mutatismutandis}} \ 850 \text{\text{mutatismutandis}} \ 165 \ 858 \text{\text{naive}} \ 859 \text{\text{newcommandx}} \ 1160, 1162, \ 1171, 1176, 1178 \text{\text{newif}} \ 11,	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\min \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{mthstyfun}} & 688 \text{\text{mthstylpop}} & 745 \text{\text{mthstylrel}} & 751 \text{\text{mthstyluop}} & 744 \text{\text{mthstymat}} & 783 \text{\text{mthstymame}} & 591 \text{\text{mthstyrel}} & 675 \text{\text{mthstyset}} & 656 \text{\text{mthstysig}} & 630 \text{\text{mthstysig}} & 630 \text{\text{mthstystr}} & 643 \text{\text{mthstystr}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstysym}} & 701 \text{\text{mthstybup}} & 415, 417, 472 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 700 \text{\text{mthsym}} & 1654 \text{\text{Mutatismutandis}} & 850 \text{\text{mutatismutandis}} & 833 \text{\text{Mutatismutandis}} & 858 \text{\text{haive}} & 859 \text{\text{height}} \text{\text{naive}} & 859 \text{\text{height}} \text{\text{height}} & 1386 \text{\text{height}} \text{\text{height}} & 1165, 1171, 1176, 1178 \text{\text{\text{height}}}	\notimplied 900 \notimplies 896 \num \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

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\overline 924, 936	-	\S 1717
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\P 1715 \PackageWarning 131	\QAFMC	\SavePilcrow
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\Pi 1208, 1209, 1512	\QCTLP 1747	<u>191</u> , 200, 203, 519, 631, 644
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\pmapsto <u>1041</u>	966, 967, 974, 975, 978, 979, 986, 987, 1629, 1819	\set 989
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\prtFun <u>1338</u> \PrtSet 1338	1016, 1110, 1116, 1122, 1128, 1149, 1635, 1821	\setr
\PrtSet <u>1338</u>	1016, 1110, 1116, 1122,	\setr 1005
<u> </u>	1016, 1110, 1116, 1122, 1128, 1149, 1635, 1821 \Rightarrow 895, 897	\setr
\PrtSet	1016, 1110, 1116, 1122, 1128, 1149, 1635, 1821   \Rightarrow 895, 897   \rightarrow 890, 1394   \rightarpoonup 1042, 1045   \rmfamily 373, 573	\setr       1005         \SetRI       1085         \SetRNI       1089         \SetRPI       1087         \setrx       1007         \setx       991
\PrtSet	1016, 1110, 1116, 1122, 1128, 1149, 1635, 1821   \Rightarrow 895, 897   \rightarrow 890, 1394   \rightarpoonup 1042, 1045   \rmfamily 373, 573   \Role 862	\setr       1005         \SetRI       1085         \SetRNI       1089         \SetRPI       1007         \setx       991         \SetZ       1067
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\PrtSet \ \ \frac{1338}{1340} \ \prtset \ \ 1339, \ 1340 \ \prtsym \ \ 1338, \ 1340 \ \psn \ \ \ 2178 \ \PSpace \ \ \ \ 1195 \ \pthFun \ \ \ \ \ \ 227, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1016, 1110, 1116, 1122,         1128, 1149, 1635, 1821         \Rightarrow	\setr       1005         \SetRI       1085         \SetRNI       1089         \SetRPI       1007         \setx       1007         \setx       991         \SetZ       1067         \SetZI       1069         \SetZNI       1073
\PrtSet \ \ \ \frac{1338}{1340} \ \prtsym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1016, 1110, 1116, 1122,         1128, 1149, 1635, 1821         Rightarrow       895, 897         \rightarrow       890, 1394         \rightharpoonup       1042, 1045         \rmfamily       373, 573         \Role       862         \role       860         \rrbracket       919, 921         \rst       1033	\setr       1005         \SetRI       1085         \SetRNI       1089         \SetRPI       1087         \setrx       1007         \setx       991         \SetZ       1067         \SetZI       1069         \SetZNI       1073         \SetZPI       1071
\PrtSet \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1016, 1110, 1116, 1122,         1128, 1149, 1635, 1821         \Rightarrow	\setr 1005 \SetRI 1085 \SetRNI 1089 \SetRPI 1087 \setrx 1007 \setx 991 \SetZ 1067 \SetZI 1069 \SetZNI 1073 \SetZPI 1071 \sffamily 561
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\Signature <u>2300</u>	\trn 929	\UBH <u>1208</u>
\sim 1388	\trnFun <u>1854</u> , <u>2224</u>	\UCGPL 1926
\skm 1475	\TrnRel 1643	\UCGSL 2060
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\SL <u>2021</u>	\trnRel <u>1854</u> , <u>2224</u>	\UCTL 1736
\SO 1524, 1530, 1536	\trnsym 1854, 1855,	\UCTLP 1751
\SOL <u>1516</u>	1856, 2224, 2225, 2226	\UCTLS 1766
\sol 1314	\True <u>2305</u>	\UDGPL 1943
\Space 1191	\Tt \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\UDGSL
\stackrel 884	\ttsym 1382, 1383	
		\UEGPL 1977
\StrSet <u>1297</u> , <u>1879</u>	\tuple <u>964</u>	\UEGSL 2111
\strset	\tuplel 968	\UFAGPL 1968
1298, 1299, 1300, 1302,	\tupler 972	\UFAGSL 2102
1880, 1881, 1882, 1884	\tuplex 976	\UFBGPL 2002
\strsym	\tuplex1 980	·
1297, 1299, 1301, 1303,	\tuplexr 984	\UFBGSL
	· •	\UFCGPL 1934
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1842, 1843, 1844, 1846,	\txtabr <u>547</u>	\UFEGPL 1985
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2217, 2219, 2221, 2223	\txtgen@false 53, 56	\UFOGSL 2051
\stx <u>868</u>	\txtgen@true	\UFPL 1900
\sub <u>1406</u>	. 54, 67, 78, 84, 89, 94, 99	
\suc 1231	\txtname $560$ , $1374$ ,	\UFSL 2034
\sup 1141	1439, 1441, 1522, 1524,	\UFXGPL 2019
\SVarSet 1553	1528, 1530, 1534, 1536,	\UFXGSL 2170
		\ULH 1208
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\svarsym 1553, 1555	1563, 1567, 1571, 1575,	\UMC 1665
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\SymSet2214	1598, 1602, 1611, 1615,	\UML 1618
	, , , ,	
\symset 2215, 2216		\UNGSL 2145
\symset	1658, 1662, 1670, 1674,	\UNGSL
\symset	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729,	·
\symsym 2214, 2216	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729, 1733, 1744, 1748, 1759,	\U0GPL
\symsym 2214, 2216 T	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729, 1733, 1744, 1748, 1759, 1763, 1778, 1782, 1793,	\U0GPL
\symsym 2214, 2216  T \tab@false 120, 122	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729, 1733, 1744, 1748, 1759, 1763, 1778, 1782, 1793, 1797, 1808, 1812, 1896,	\U0GPL
\symsym	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729, 1733, 1744, 1748, 1759, 1763, 1778, 1782, 1793, 1797, 1808, 1812, 1896, 1913, 1930, 1947, 1964,	\U0GPL 1909 \U0GSL 2043 \upharpoonright 1034 \UPL 1892 \upshape 373
\symsym	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729, 1733, 1744, 1748, 1759, 1763, 1778, 1782, 1793, 1797, 1808, 1812, 1896, 1913, 1930, 1947, 1964, 1981, 1998, 2015, 2030,	\U0GPL 1909 \U0GSL 2043 \upharpoonright 1034 \UPL 1892 \upshape 373 \UPTL 1695
T \tab@false 120, 122 \tab@true 121 \tau 1851 \TAutSet 2244	1658, 1662, 1670, 1674, 1678, 1692, 1703, 1729, 1733, 1744, 1748, 1759, 1763, 1778, 1782, 1793, 1797, 1808, 1812, 1896, 1913, 1930, 1947, 1964,	\U0GPL 1909 \U0GSL 2043 \upharpoonright 1034 \UPL 1892 \upshape 373 \UPTL 1695 \usetikzlibrary 2268
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