## fmocdmac — FM's OCD LATEX Macro\*

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## Abstract

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

## 1 Implementation & Usage

```
1 (*package)
    Required external packages:
  3 \RequirePackage{etoolbox}
  5 \RequirePackage{xargs}
  6 \RequirePackage{xspace}
  7 \RequirePackage{stringstrings}
     Package options:
 10 %% Auxiliary packages
 11 \newif\ifaux@ \aux@false
 12 \DeclareOption{aux}{\aux@true}
13 \DeclareOption{noaux}{\aux@false}
15 %% AMS defaults
 16 \newif\ifamsdef@ \amsdef@true
17 \DeclareOption{noamsdef}{\amsdef@false}
19\ \mbox{\%\%} AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
23 %% Extended Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \verb|\DeclareOption{noenmtls}{\cline{Condition}} | \cline{Condition} | \cline{Condit
31 %% Hyper reference
32 \neq 0 
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
```

<sup>\*</sup>This document describes version v0.12 of the fmocdmac package, last revised 2023/01/23.

```
37 \DeclareOption{nofnttls}{\fnttls@false}
39 %% Camera-ready version
40 \newif\ifcrv@ \crv@false
41 \DeclareOption{crv}{\crv@true}
43 %% Change bars
44 \newif\ifchgbar@ \chgbar@false
45 \DeclareOption{chgbar}{\chgbar@true}
47 %% Line numbers
48 \newif\iflinnum@ \linnum@false
49 \DeclareOption{linnum}{\linnum@true}
51
52 %% Text macro generation
53 \newif\iftxtgen@ \txtgen@false
54 \DeclareOption{txtgen}{\txtgen@true}
55 \DeclareOption{notxtgen}
    {\txtgen@false\text@false\com@false\log@false\aut@false}
57
58 %% Math macro generation
59 \newif\ifmthgen@ \mthgen@false
60 \DeclareOption{mthgen}{\mthgen@true}
61 \DeclareOption{nomthgen}
    {\mthgen@false\math@false\gam@false\log@false\aut@false}
63
64
65 %% Elementary macros for text
66 \newif\iftext@ \text@false
67 \DeclareOption{text}{\text@true\txtgen@true}
68 \DeclareOption{notext}{\text@false}
70 %% Elementary macros for math
71 \newif\ifmath@ \math@false
72 \DeclareOption{math}{\math@true\mthgen@true}
73 \ensuremath{$\ $\ $} \{\math@false\}
75
76 %% Macros for computational-complexity classes
77 \newif\ifcom@ \com@false
78 \DeclareOption{com}{\com@true\txtgen@true}
79 \DeclareOption{nocom}{\com@false}
82 %% Macros for games
83 \newif\ifgam@ \gam@false
84 \end{true} txtgen@true\mthgen@true\}
85 \DeclareOption{nogam}{\gam@false}
87 %% Macros for logics
88 \newif\iflog@ \log@false
89 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
90 \DeclareOption{nolog}{\log@false}
91
92 %% Macros for automata
93 \newif\ifaut@ \aut@false
94 \end{true} txtgen@true\end{true}
95 \DeclareOption{noaut}{\aut@false}
96
98 %% Format-related tricks
99 \newif\iffrm@ \frm@false
```

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

```
163
                                                                                  % Hyper References
                                                         164
                                                                                    \RequirePackage{hyperref}
                                                         165
                                                                                   \hypersetup {
                                                                                                                                                                       = {},
                                                                                             pdfsubject
                                                         166
                                                                                             pdfkeywords
                                                                                                                                                                       = {},
                                                         167
                                                                                             pdfproducer
                                                                                                                                                                       = {},
                                                         168
                                                                                             pdfcreator
                                                         169
                                                                                                                                                                       = {},
                                                                                             pdfpagemode
                                                                                                                                                                      = {UseNone},
                                                         170
                                                                                             pdfstartview = {FitH},
                                                         171
                                                                                              urlcolor
                                                                                                                                                                       = {blue},
                                                         172
                                                         173
                                                                                               colorlinks
                                                         174
                                                                                }
                                                         175 \fi
                                                        176
                                                        177 \iffnttls@
                                                                                 % Font Tools
                                                                                   \RequirePackage[final]{microtype}
                                                         179
                                                         180 \fi
                                                        181
                                                         182 \ifcrv@
                                                         183
                                                                                 % Camera-Ready Version
                                                         184
                                                                                  %%...
                                                         185
                                                         186
                                                        187 \else
                                                                                 % Draft Version
                                                        188
                                                         189
                                                        190
                                                                                 %%...
                                                        191
                                                                                   \ifchgbar@
                                                         192
                                                                                             % Change Bars
                                                         193
                                                                                              \RequirePackage{changebar}
                                                         194
                                                         195
                                                                                   \fi
                                                         196
                                                                                   \iflinnum@
                                                         197
                                                                                             % Line Numbers
                                                         198
                                                                                               \if@twocolumn
                                                         199
                                                                                                         \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                                                         200
                                                         201
                                                         202
                                                                                                         \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                                                         203
                                                         204
                                                                                   \fi
                                                         205
                                                                                  %%...
                                                        206
                                                        207
                                                       208 \fi
                                                       209
                                                       210 \fi
                                                        \mathbbo Bbo Math Font: ... to do!
                                                         215 \left\{ \mathbf{Mathbbo}_{\ mathbbo}_{\ mathbboo}_{\ mathb
\matheus Eus Math Font: ... to do!
                                                        216 \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheux} \right\} \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheux} \right\} \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheux} \right\} 
\mathpzc Pzc Math Font: ... to do!
                                                        217 \ifdef{\mathpzc}{}{\DeclareMathAlphabet{\mathpzc}{T1}{pzc}{m}{it}}
```

162 \ifhypref@

```
\mathscr Scr Math Font: ... to do!
                                218 \left\{ \mathbf{Wathscr} \right\} \left\{ \mathbf{Mathscr} \right\} 
                                \omicron Auxiliary Greek lowercase letter: ... to do!
                                223 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
                                224 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
                                225 \texttt{\Zeta}{Z} \texttt{\Acsdef{Eta}{H} \texttt{\Iota}{I} \texttt{\Acsdef{Kappa}{K}}
                                226 \csdef{Nu}{N} \csdef{Nu}{N} \csdef{Omicron}{O}
                                227 \csdef{Rho}{P} \csdef{varRho}{P} \csdef{Tau}{T} \csdef{Chi}{X}
                                Emptiness check: \{A\}\{\langle B\}\}\ evaluates to the empty string, if Argument \langle A\rangle is empty,
                              and to Argument \langle B \rangle, otherwise.
                                      • \empchk{}{B} = ""
                                      • \empchk{A}{B} = "B"
                                232 \newcommand{\empchk}[2]
                                          {\left\{ if & 1 \right\} }
         \defval Default value: \defval{\langle A \rangle}{\langle B \rangle} evaluates to Argument \langle B \rangle, if Argument \langle A \rangle is empty, and to
                              Argument \langle A \rangle itself, otherwise.
                                      • \defval{}{B} = "B"
                                      • \defval{A}{B} = "A"
                                234 \newcommand{\defval}[2]
                                           {\left\{ if & 1 & 2 \le 1 \le 1 \right\}}
                                \alpha Left extension: \alpha \alpha evaluates to the concatenation \langle AB \rangle of the two arguments, if
                              Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                                      • \arglef{A}{} = ""
                                      • \arglef{A}{B} = "AB"
                                237 \newcommand{\arglef}[2]
                                           {\empchk{#2}{#1\allowbreak#2}}
         \argrig Right extension: \argrig{\langle A\rangle}{\langle B\rangle} evaluates to the concatenation \langle AB \rangle of the two arguments,
                              if Argument \langle A \rangle is non-empty, and to the empty string, otherwise.
                                      • \argrig{}{B} = ""
                                      • \argrig{A}{B} = "AB"
                                239 \newcommand{\argrig}[2]
                                           {\empchk{#1}{#1\allowbreak#2}}
         \ Middle extension: \ of the three
                              arguments, if Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                                      • \argmid{A}{}{C} = ""
                                      • \argmid{A}{B}{C} = "ABC"
                                241 \newcommand{\argmid}[3]
                                         {\empchk{#2}{#1\allowbreak#2\allowbreak#3}}
```

```
Separators: \argsep{\langle A \rangle}{\langle B \rangle}{\langle C \rangle} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
               Argument \langle A \rangle, if Argument \langle C \rangle is empty, and to the concatenation \langle ABC \rangle, otherwise.
                  • \argsep{}{B}{C} = "C"
                  • \argsep{A}{B}{} = "A"
                  • \argsep{A}{}{C} = "AC"
                  • \argsep{A}{B}{C} = "ABC"
               243 \newcommand{\argsep}[3]
                    \label{limits} $$ {\left  \  \  \right } = 1\allowbreak\arglef{#2}{\#3}\fi}
               Variadic commands: \operatorname{Varcmd}\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\{\langle D \rangle\}\{\langle E \rangle\}\{\langle F \rangle\} \dots to do!
     \varcmd
               246 \newcommand{\varcmd}[6]
                     {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
               247
                       {\csname check#1arg\endcsname{\argsep{##1}{#4}{##2}}}%
               248
               249
                     \expandafter\newcommand\csname check#larg\endcsname[1]
               250
                       {\csname @ifnextchar\endcsname%
                         \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
                251
                     \expandafter\newcommand\csname#1\endcsname[1]
                252
                       {\csname check#1arg\endcsname{#3##1}}}
               Sequence of tags: \ensuremath{\mathsf{Sequence}}\ (A) + (B) + (C) + \dots  to do!
   \seqoftag
                255 \newcommand{\seqoftag}[3]
                256
                    {\@for\itr:={#1}\do%
                257
                       {\expandafter\csedef{\itr#2}%
                         {\noexpand\csname #3\endcsname{\itr}}}
               258
              Sequence of commands: \sqoign{A}{\langle A \rangle} {\langle A \rangle} {\langle C \rangle} \dots \text{ to do!}
   \seqofcmd
                259 \newcommand{\seqofcmd}[3]
                260
                     {\@for\itr:={#1}\do%
                261
                       {\expandafter\csedef{\itr#2}%
                262
                         {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
               \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow{\langle A \rangle}{\langle B \rangle} ... to do!
               264 \newcommand{\seqoflatlow}
                     {\left(a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z\right)}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                266 \newcommand{\seqoflatupp}
                     {\left(A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z\right)}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                268 \newcommand{\seqoflatlet}[2]
                     {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
                Sequence of Greek lowercase letters: \seqofgrklow{\langle A \rangle}{\langle B \rangle} ... to do!
\seqofgrklow
                271 \newcommand{\seqofgrklow}
                     {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                272
                     iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
                273
                274
                     varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
              Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\}\ ... to do!
\seqofgrkupp
                275 \newcommand{\seqofgrkupp}
               276
                     {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
               277
                     Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                278
                     varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
```

```
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   279 \newcommand{\seqofgrklet}[2]
                                             {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
                                   \seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
                                   282 \newcommand{\seqoflow}[2]
                                   283
                                            {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
        \seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   284 \newcommand{\seqofupp}[2]
                                              {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
        \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                   286 \newcommand{\seqoflet}[2]
                                             {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
                                   \newtxt ... to do!
                                        • \newtxt[\rmfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                        • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                         • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                   292 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
                                              {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
      \newtxtsty ... to do!
                                        • \newtxtsty{\rmfamily}{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                        • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                         • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                   294 \newcommandx{\newtxtsty}[2][2=]
                                             {\newtxt[\defval{#2}{#1}]}
      \newtxtarg ... to do!
                                        • \newtxtarg[\rmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{\text{sup}}^{\text{sup}}Ext1(Arg)Ext2"
                                        • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                         • \newtxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                   296 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                              {\newtxt[#1]{#2}[#3][#4][#5\argmid{(}{#6}{)}#7]}
\newtxtargsty ... to do!
                                         \bullet \mathtt{Name}^{\sup}_{\sup} [\mathtt{Ext1}] \{\mathtt{Arg}\} [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ext1}] \{\mathtt{Arg}\} [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ext1}] (\mathtt{Arg}) [\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{\sup} [\mathtt{Ex
                                        • \newtxtargsty{\rmfamily}[\sffamily][\sup][\sup][\sup][\sup][\st1]{\Arg}[\st2] = "Name_sup_\sup \st1(\Arg)\st2"
                                         • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Namesup Ext1(Arg)Ext2"
                                   298 \newcommandx{\newtxtargsty}[2][2=]
                                            {\newtxtarg[\defval{#2}{#1}]}
    \newtxtoarg ... to do!
                                        • \newtxtoarg[\rmfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                         • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                         • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                   300 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                                            {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
```

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

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

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

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

```
370 \newcommand{\mth}
                                                                                                                            {\newmthsty{\mthsty}}
                          \mtharg ... to do!
                                                                                                                \bullet \  \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, "Name_{sub}^{sup} Ext1 (Arg) Ext2"
                                                                                                                • \mbox{\mbox{\tt mtharg[mathbf]} {\tt Name} [sub] [sup] [Ext1] {\tt Arg} [Ext2] = "Name_{sub}^{sup} Ext1(Arg) Ext2"}
                                                                                                                 • \mtharg[mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name _{sub}^{sup}Ext1(Arg)Ext2"
                                                                                               372 \newcommand{\mtharg}
                                                                                                                            {\newmthargsty{\mthsty}}
                     \mthoarg ... to do!
                                                                                                                • \mthoarg{Name}[sub][sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                                • \mthoarg[mathbf] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                                 \bullet \ \texttt{\t Name} \ \texttt{\t [sub] [sup] [Arg]} = \texttt{\t "Name} \ \texttt{\t sub} \ \texttt{\t [sup] [Arg]} = \texttt{\t "Name} \ \texttt{\t sub} \ \texttt{\t [sup] [Arg]} 
                                                                                               374 \newcommand{\mthoarg}
                                                                                                                                 {\newmthoargsty{\mthsty}}
                          \mthpar ... to do!
                                                                                                                \bullet \  \  \, \texttt{\bare}[\mathtt{Sub}] \  \, \texttt{\bare}[\mathtt{Ext1}] \  \, \texttt{\bare}[\mathtt{Ext2}] \  \, = \  \, "Name^{sup}_{sub} Ext1[Par] Ext2"
                                                                                                                \bullet \  \, \texttt{\bare}[mathbf] \  \, \texttt{\bare}[sub] \  \, \texttt{\bare}[Ext1] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \texttt{\bare}[sub] \  \, \texttt{\bare}[Ext1] \  \, \texttt{\bare}[Ext2] \  \, = \  \, \texttt{\bare}[sub] \  \, \texttt{
                                                                                                                \bullet \  \, \texttt{\bare}[\texttt{mathtt}] \, \{\texttt{Name}\} \, [\texttt{sub}] \, [\texttt{sup}] \, [\texttt{Ext1}] \, \{\texttt{Par}\} \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 [Par] Ext2 \, \text{'`Par} \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext1 \, [Par] \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} \, \frac{\sup}{\sup} Ext2 \, [\texttt{Ext2}] \, = \, \text{``Name} 
                                                                                                376 \newcommand{\mthpar}
                                                                                                                            {\newmthparsty{\mthsty}}
                     \mthopar ... to do!
                                                                                                                • \mthopar[mathbf]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                                                 • \mthopar[mathtt] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup}[Par]"
                                                                                               378 \newcommand{\mthopar}
                                                                                                                             {\newmthoparsty{\mthsty}}
                           \mthsty ... to do!
                                                                                              380 \newcommand{\mthsty}
                                                                                                                           {}
                                                                                               \cmdmth ... to do!
                                                                                                                \bullet \ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mb
                                                                                                                            \verb|\mthNewCmd{Name}[sub][sup][Ext] = \verb|\mame| sub| Ext|
                                                                                                383 \newcommand{\cmdmth}[1]
                                                                                                                        {\csdef{mth#1}{\newmthsty{mthsty#1}}}
      \cmdmtharg ... to do!
                                                                                                                 • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                             \verb|\mathresize | \texttt{Sub} [\texttt{sub}] [\texttt{sup}] [\texttt{Ext1}] \{\texttt{Arg}\} [\texttt{Ext2}] = \texttt{Name}_{sub}^{sup} Ext1(Arg) Ext2
                                                                                                385 \newcommand{\cmdmtharg}[1]
                                                                                                                        {\csdef{mtharg#1}{\newmthargsty{mthsty#1}}}
                                                                                              386
\cmdmthoarg ... to do!
                                                                                                                 • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                            \verb|\mbox| \verb| [sub] [sup] [Arg] = \verb|\mbox| \verb| [sup] [Arg] = \verb|\mbox| \verb| [sup] [Arg] = \verb|\mbox| \verb| [sub] [sup] [sup] = \verb|\mbox| \verb| [sub] = \verb|\mbox| = \verb|\mbox| \verb| [sub] = \verb|\mbox| =
                                                                                               387 \newcommand{\cmdmthoarg}[1]
                                                                                                                           {\csdef{mthoarg#1}{\newmthoargsty{mthsty#1}}}
      \cmdmthpar ... to do!
```

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

```
\usrmthupp ... to do!
                               413 \newcommandx{\usrmthupp}[4][4=]
                               414 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
       \usrmthlet ... to do!
                               415 \newcommandx{\usrmthlet}[4][4=]
                               421 \iftxtgen@
   \txtdef, ... to do!
                                    ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                     \qquad \qquad \bullet \  \  \, \texttt{`txtargdef\{Name\}[sub][sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2 
                                    ullet \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{ext}^{sup}Ext1/Par]Ext2
                               422 %% Style for Definitions
                               423 \verb|\def|\newcommand{\txtstydef}{\normalfont\bfseries\em}|
       \cmdtxtdef ... to do!
                                    • \cmdtxtdef{cmdName};
                                       \verb|\cmdName[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                    • \cmdtxtdef{cmdName}[newName];
                                       \colon = newName[sub][sub][ext] = newName^{sub}_{sub}ext
                               424 \newcommandx{\cmdtxtdef}[2][2=]
                                       {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                                    • \cmdtxtargdef{cmdName};
                                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                    • \cmdtxtargdef{cmdName}[newName];
                                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                               426 \newcommandx{\cmdtxtargdef}[2][2=]
                               427 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                    \cmdtxtoargdef{cmdName};
                                       \colon colon col
                                    • \cmdtxtoargdef{cmdName}[newName];
                                       \colon = newName[sub][sub][arg] = newName^{sub}_{sub}(arg)
                                428 \newcommandx{\cmdtxtoargdef}[2][2=]
                               429 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                                    • \cmdtxtpardef{cmdName};
                                       \cmdName[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1/par]ext2
                                    \cmdtxtpardef{cmdName}[newName];
                                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2
                               430 \newcommandx{\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|
```

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

```
447 %% Style for Names
                                                             448 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
              \cmdtxtname ... to do!
                                                                     • \cmdtxtname{cmdName};
                                                                           \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                                                      • \cmdtxtname{cmdName}[newName];
                                                                           \c Mame[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                                             449 \newcommandx{\cmdtxtname}[2][2=]
                                                            450 {\usrtxt{#1}{}{name}[#2]}
   \cmdtxtargname ... to do!
                                                                     • \cmdtxtargname{cmdName};
                                                                           \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
                                                                     • \cmdtxtargname{cmdName}[newName];
                                                                            \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                                             451 \newcommandx{\cmdtxtargname}[2][2=]
                                                            452 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                                      \cmdtxtoargname{cmdName};
                                                                           \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                                                                     • \cmdtxtoargname{cmdName}[newName];
                                                                           \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                                             453 \newcommandx{\cmdtxtoargname}[2][2=]
                                                                           {\usrtxt{#1}{}{oargname}[#2]}
   \cmdtxtparname ... to do!
                                                                      \cmdtxtparname{cmdName};
                                                                           \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub]| = \verb|\cmdNam
                                                                     • \cmdtxtparname{cmdName}[newName];
                                                                            \label{lem:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma:lemma
                                                             455 \newcommandx{\cmdtxtparname}[2][2=]
                                                                          {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                                                      \cmdtxtoparname{cmdName};
                                                                           \verb|\cmdName[sub][par]| = CMDNAME_{SUB}^{SUB}[PAR]|
                                                                      • \cmdtxtoparname{cmdName}[newName];
                                                                           \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                                                             457 \newcommandx{\cmdtxtoparname}[2][2=]
                                                            458 {\usrtxt{#1}{}{oparname}[#2]}
          \txtcom, ... to do!
                                                                     • \text{txtcom{Name}[sub][sup][Ext]} = \text{Name}_{SUB}^{SUP} \text{Ext}
                                                                     • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                                                      • \txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_{SUB}^{SUP}EXT1[PAR]EXT2
                                                             459 %% Style for Complexities
                                                            460 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
                 \cmdtxtcom ... to do!
                                                                     • \cmdtxtcom{cmdName};
                                                                           \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
                                                                      • \cmdtxtcom{cmdName} [newName];
                                                                           \c Mame[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                                             461 \newcommandx{\cmdtxtcom}[2][2=]
                                                             462 {\usrtxt{#1}{}{com}[#2]}
```

```
\cmdtxtargcom ... to do!
                      • \cmdtxtargcom{cmdName};
                         \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                       • \cmdtxtargcom{cmdName}[newName];
                         463 \newcommandx{\cmdtxtargcom}[2][2=]
                        {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                      • \cmdtxtoargcom{cmdName};
                        \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                       \cmdtxtoargcom{cmdName}[newName];
                        \verb|\cmdName[sub][sub][arg]| = NEWNAME_{SUB}^{SUB}(ARG)
                   465 \newcommandx{\cmdtxtoargcom}[2][2=]
                        {\usrtxt{#1}{}{oargcom}[#2]}
 \cmdtxtparcom ... to do!
                      • \cmdtxtparcom{cmdName};
                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                       • \cmdtxtparcom{cmdName} [newName];
                        \label{lem:lemma:equation:lemma:equation:ext} $$ \operatorname{CmdName}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}][\operatorname{ext2}] = \operatorname{NEWNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}] \operatorname{EXT2} $$
                   467 \mbox{\cmdtxtparcom}[2][2=]
                        {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                      • \cmdtxtoparcom{cmdName};
                        \label{eq:cmdNamesub} $$ \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR] $$
                       \cmdtxtoparcom{cmdName}[newName];
                        \verb|\cmdName[sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                   469 \mbox{newcommandx{\cmdtxtoparcom}[2][2=]}
                        {\usrtxt{#1}{}{oparcom}[#2]}
                   471 \fi
                   476 \ifmthgen@
 \mthname, ... to do!
                      ullet \mthname{NAME}[sub] [sup] [Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                      \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                       • \mthparname{NAME}[sub][sup][Ext1]{Par}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par]Ext2
                   477 %% Style for Names
                   478 \mbox{ } \mbox{mthall{name}\newcommand{\mbox{mthstyname}{\mbox{mathcal}}}
   \AName, ... to do!
                   \mathcal{A},\,\mathcal{B},\,\mathcal{C},\,\mathcal{D},\,\mathcal{E},\,\mathcal{F},\,\mathcal{G},\,\mathcal{H},\,\mathcal{I},\,\mathcal{J},\,\mathcal{K},\,\mathcal{L},\,\mathcal{M},\,\mathcal{N},\,\mathcal{O},\,\mathcal{P},\,\mathcal{Q},\,\mathcal{R},\,\mathcal{S},\,\mathcal{T},\,\mathcal{U},\,\mathcal{V},\,\mathcal{W},\,\mathcal{X},\,\mathcal{Y},\,\mathcal{Z}
                   479 \seqoflatupp{Name}{mthname}
   \cmdmthname ... to do!
                      • \cmdmthname{CMDNAME};
                         \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                       • \cmdmthname{cmdName}[NEWNAME];
                        \colon {\tt CmdNameName[sub][sub][ext]} = \mathcal{NEWNAME}^{sub}_{sub} ext
                   480 \newcommandx{\cmdmthname}[2][2=]
                        {\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
                      482 \newcommandx{\cmdmthargname}[2][2=]
                            {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                         • \cmdmthoargname{CMDNAME};
                            \verb|\CMDNAMEName[sub][sub][arg]| = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                         • \cmdmthoargname{cmdName}[NEWNAME];
                            \colon {\tt CmdNameName[sub][sub][arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                      484 \newcommandx{\cmdmthoargname}[2][2=]
                            {\usrmth{#1}{Name}{oargname}[#2]}
 \cmdmthparname ... to do!
                         • \cmdmthparname{CMDNAME};
                            \CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                         • \cmdmthparname{cmdName}[NEWNAME];
                            \cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                      486 \newcommandx{\cmdmthparname}[2][2=]
                           {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                         • \cmdmthoparname{CMDNAME};
                            \CMDNAMEName[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                         • \cmdmthoparname{cmdName}[NEWNAME];
                            \verb|\cmdNameName[sub][sub][par]| = \mathcal{NEWNAME}^{sub}_{sub}[par]
                      488 \newcommandx{\cmdmthoparname}[2][2=]
                            {\usrmth{#1}{Name}{oparname}[#2]}
   \mthfam, ... to do!
                         \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]{Arg}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                         \bullet \  \, \texttt{\baselinestable MAME} \  \, \texttt{\baseline Sub} \  \, \texttt{\baseline Ext1} \  \, \texttt{\baseline Par} \  \, \texttt{\baseline Ext2} \  \, = \  \, \mathcal{NAME} \  \, \mathcal{E}^{sup}_{sub} Ext1 [Par] Ext2
                      490 %% Style for Families
                      491 \cmdmthall{fam}\newcommand{\mthstyfam}{\mathscr}
      \AFam, ... to do!
                     \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{I}, \mathcal{H}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{F}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Y}
                      492 \seqoflatupp{Fam}{mthfam}
      \cmdmthfam ... to do!
                         \cmdmthfam{CMDNAME};
                            \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext]
                         • \cmdmthfam{cmdName}[NEWNAME];
                            \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                      493 \newcommandx{\cmdmthfam}[2][2=]
                      494 {\usrmth{#1}{Fam}{fam}[#2]}
  \cmdmthargfam ... to do!
                         • \cmdmthargfam{CMDNAME};
                            • \cmdmthargfam{cmdName}[NEWNAME];
                            \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1(arg)ext2
```

```
495 \newcommandx{\cmdmthargfam}[2][2=]
                           {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                         \cmdmthoargfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][arg] = \mathscr{CMDNAMEFam}[sub](arg)
                         • \cmdmthoargfam{cmdFam}[NEWNAME];
                           \verb|\cmdFamFam[sub][sub][arg]| = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                     497 \newcommandx{\cmdmthoargfam}[2][2=]
                          {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                         • \cmdmthparfam{CMDNAME};
                           \verb|\CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par][ext2]
                         • \cmdmthparfam{cmdName}[NEWNAME];
                           499 \newcommandx{\cmdmthparfam}[2][2=]
                          {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                         • \cmdmthoparfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                         \cmdmthoparfam{cmdFam}[NEWNAME];
                           \label{eq:cmdFamFam} $$ \operatorname{[sub]}[\operatorname{par}] = \mathcal{NEWNAME}^{sub}_{sub}[\operatorname{par}] $$
                     501 \newcommandx{\cmdmthoparfam}[2][2=]
                           {\usrmth{#1}{Fam}{oparfam}[#2]}
  \mthcls, ... to do!
                         • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                         • \mthargcls{NAME}[sub][sup][Ext1]{Arg}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg)Ext2
                         \bullet \ \texttt{\nAME} \ [\texttt{sub}] \ [\texttt{Ext1}] \ \{\texttt{Par}\} \ [\texttt{Ext2}] \ = \ \mathcal{NAME} \ sub \ Ext1 \ [Par] Ext2
                      503 %% Style for Classes
                     504 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}
     \ACls, ... to do!
                    \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                     505 \seqoflatupp{Cls}{mthcls}
     \cmdmthcls ... to do!
                         • \cmdmthcls{CMDNAME};
                           \CMDNAMEC1s[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                         • \cmdmthcls{cmdName}[NEWNAME];
                           \cmdNameCls[sub][sub][ext] = NEWNAME_{sub}^{sub}ext
                      506 \newcommandx{\cmdmthcls}[2][2=]
                     507 {\usrmth{#1}{Cls}{cls}[#2]}
 \cmdmthargcls ... to do!
                         • \cmdmthargcls{CMDNAME};
                           \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargcls{cmdName}[NEWNAME];
                           \label{lem:lemma:energy:ext2} $$ \operatorname{CmdNameCls[sub][sub][ext1]} = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg)ext2$
                      508 \newcommandx{\cmdmthargcls}[2][2=]
                           {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                         • \cmdmthoargcls{CMDNAME};
```

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

```
\cmdmthoargcls{cmdCls}[NEWNAME];
                                                   \verb|\cmdClsCls[sub][sub][arg]| = NEWNAME_{sub}^{sub}(arg)
                                        510 \newcommandx{\cmdmthoargcls}[2][2=]
                                                   {\usrmth{#1}{Cls}{oargcls}[#2]}
  \cmdmthparcls ... to do!
                                               \cmdmthparcls{CMDNAME};
                                                   \verb|\CMDNAMECls[sub][sub][ext1]{par}[ext2] = \verb|\CMDNAME| sub| ext1| par| ext2|
                                               • \cmdmthparcls{cmdName}[NEWNAME];
                                                   \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2|
                                        512 \newcommandx{\cmdmthparcls}[2][2=]
                                                 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                              • \cmdmthoparcls{CMDNAME};
                                                   \verb|\CMDNAMECls[sub][sub][par]| = \verb|\CMDNAME|_{sub}^{sub}[par]|
                                               \cmdmthoparcls{cmdCls}[NEWNAME];
                                                   \cmdClsCls[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                         514 \newcommandx{\cmdmthoparcls}[2][2=]
                                        515 {\usrmth{#1}{Cls}{oparcls}[#2]}
    \mthsig, ... to do!
                                              • \mthsig{Name} [sub] [sup] [Ext] = \mathcal{N}_{sub}Ext
                                              \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Arg\} [Ext2]} = \mathcal{N}\!\mathit{ame}^{sup}_{sub} Ext1(Arg) Ext2
                                              \bullet \ \texttt{\t Name} \ \texttt{[Sub]} \ \texttt{[Sup]} \ \texttt{\t [Ext1]} \ \texttt{\t Par} \ \texttt{\t [Ext2]} \ = \ \textit{\textbf{\textit{Name}}} \ sub \ \texttt{\t Ext1} \ \texttt{\t [Par]} \ \texttt{\t Ext2}
                                        516 %% Style for Signatures
                                        517 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
         \aSig, ... to do!
                                      a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, \chi, y, z
                                       \mathcal{A},~\mathcal{B},~\mathcal{C},~\mathcal{D},~\mathcal{E},~\mathcal{F},~\mathcal{G},~\mathcal{H},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~Q,~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~X,~\mathcal{Y},~Z
                                      \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                        518 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
         \cmdmthsig ... to do!
                                              • \cmdmthsig{cmdName};
                                                   \colon d \cmdNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                               • \cmdmthsig{cmdName}[NewName];
                                                   \verb|\cmdNameSig[sub][sub][ext]| = \textit{NewName}_{sub}^{sub} ext|
                                         519 \newcommandx{\cmdmthsig}[2][2=]
                                        520 {\usrmth{#1}{Sig}{sig}[#2]}
  \cmdmthargsig ... to do!
                                               • \cmdmthargsig{cmdName};
                                                   \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = cmd Name_{sub}^{sub} ext1(arg) ext2
                                               • \cmdmthargsig{cmdName}[NewName];
                                                   \cmdNameSig[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                        521 \newcommandx{\cmdmthargsig}[2][2=]
                                        522 {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                              • \cmdmthoargsig{cmdName};
                                                   \colon 
                                               • \cmdmthoargsig{cmdSig}[NewName];
                                                   \colored{cmdSigSig[sub][sub][arg]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}(arg)
                                         523 \newcommandx{\cmdmthoargsig}[2][2=]
                                        524 {\usrmth{#1}{Sig}{oargsig}[#2]}
```

```
\cmdmthparsig ... to do!
                              • \cmdmthparsig{cmdName};
                                 \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{cmdName}_{sub}^{sub}ext1[par]ext2
                              • \cmdmthparsig{cmdName}[NewName];
                                 \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{NewName}^{sub}_{sub}ext1[par]ext2
                           525 \newcommandx{\cmdmthparsig}[2][2=]
                                 {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                              • \cmdmthoparsig{cmdName};
                                 \verb|\cmdNameSig[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                              • \cmdmthoparsig{cmdSig}[NewName];
                                 \colon condSigSig[sub][sub][par] = NewName_{sub}^{sub}[par]
                           527 \newcommandx{\cmdmthoparsig}[2][2=]
                                 {\usrmth{#1}{Sig}{oparsig}[#2]}
   \mthstr, ... to do!
                              • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup} Ext
                              • \mthargstr{Name}[sub][sup][Ext1]{Arg}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg)Ext2
                              \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Par\} [Ext2]} = \mathfrak{Name}^{sup}_{sub} Ext1[Par]Ext2
                          529 %% Style for Structures
                          530 \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{h}, \mathfrak{z}
                         \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{I}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{D}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{S}, \mathfrak{T}, \mathfrak{U}, \mathfrak{W}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}
                         \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                          531 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
      \cmdmthstr ... to do!
                              \cmdmthstr{cmdName};
                                 \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{cmdName}_{sub}^{sub} ext
                              • \cmdmthstr{cmdName} [NewName];
                                 \c MameStr[sub][sub][ext] = \mathfrak{NewName}_{sub}^{sub}ext
                           532 \newcommandx{\cmdmthstr}[2][2=]
                          533 {\usrmth{#1}{Str}{str}[#2]}
 \cmdmthargstr ... to do!
                              \cmdmthargstr{cmdName};
                                 \cmdNameStr[sub][sub][ext1]{arg}[ext2] = cmdMame_{sub}^{sub}ext1(arg)ext2
                              • \cmdmthargstr{cmdName}[NewName];
                                 \cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                          534 \mbox{ } \mbox{cmdmthargstr} [2] [2=]
                                {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                              • \cmdmthoargstr{cmdName};
                                 \cmdNameStr[sub] [sub] [arg] = cmdMame_{sub}^{sub}(arg)
                              • \cmdmthoargstr{cmdStr}[NewName];
                                 \colored{cmdStrStr[sub][sub][arg]} = \mathfrak{NewName}^{sub}_{sub}(arg)
                           536 \newcommandx{\cmdmthoargstr}[2][2=]
                                {\usrmth{#1}{Str}{oargstr}[#2]}
 \cmdmthparstr ... to do!
                              • \cmdmthparstr{cmdName};
                                 \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName$| subert1[par] ext2|
```

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• \cmdmthparstr{cmdName} [NewName];
                          \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                     538 \newcommandx{\cmdmthparstr}[2][2=]
                          {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                        • \cmdmthoparstr{cmdName};
                          \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                        • \cmdmthoparstr{cmdStr}[NewName];
                          540 \newcommandx{\cmdmthoparstr}[2][2=]
                          {\usrmth{#1}{Str}{oparstr}[#2]}
  \mthset, ... to do!
                        • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                        • \mthargset{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                        \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par][Ext2]} = \mathrm{Name}_{sub}^{sup} Ext1[Par]Ext2
                     542 %% Style for Sets
                     543 \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,\,\varTheta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\varPi,\,P,\,P,\,\Sigma,\,\varSigma,\,T,\,\Upsilon,\,\Phi,\,\varPhi,\,X,\,\Psi,\,\Omega
                     544 \seqoflet{Set}{mthset}
     \cmdmthset ... to do!
                        • \cmdmthset{cmdName};
                          \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthset{cmdName}[NewName];
                          \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} = xt
                     545 \newcommandx{\cmdmthset}[2][2=]
                         {\usrmth{#1}{Set}{set}[#2]}
 \cmdmthargset ... to do!
                        • \cmdmthargset{cmdName};
                          \colored Name Set [sub] [sub] [ext1] {arg} [ext2] = cmd Name {sub \atop sub} ext1 (arg) ext2
                        • \cmdmthargset{cmdName}[NewName];
                          \colon = NewName (sub) [sub] [ext1] {arg} [ext2] = NewName (sub) ext1 (arg) ext2
                     547 \newcommandx{\cmdmthargset}[2][2=]
                          {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                        • \cmdmthoargset{cmdName};
                          \colon = cmdNameSet[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargset{cmdSet}[NewName];
                          \verb|\cmdSetSet[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                     549 \newcommandx{\cmdmthoargset}[2][2=]
                         {\usrmth{#1}{Set}{oargset}[#2]}
 \cmdmthparset ... to do!
                        • \cmdmthparset{cmdName};
                          \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                        • \cmdmthparset{cmdName}[NewName];
                          \cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                     551 \newcommandx{\cmdmthparset}[2][2=]
                     552 {\usrmth{#1}{Set}{parset}[#2]}
```

```
\cmdmthoparset ... to do!
                        \cmdmthoparset{cmdName};
                          \colon dNameSet[sub][sub][par] = cmdName_{sub}^{sub}[par]
                        • \cmdmthoparset{cmdSet}[NewName];
                          \colon dSetSet[sub][sub][par] = NewName_{sub}^{sub}[par]
                     553 \newcommandx{\cmdmthoparset}[2][2=]
                         {\usrmth{#1}{Set}{oparset}[#2]}
 \cmdmthsetext ... to do!
                    555 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                    556 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                          \usrmthlet{\thestring}{Sym}{sym}
                            [\defval{#3}{\defval{\empchk{#2}{\lowercase{#2}}}}{\thestring}}]%
                         \usrmthlet{\thestring}{Elm}{elm}
                    560
                             [\defval{#3}{\defval{\mpchk{#2}}}] 
  \mthrel, ... to do!
                       • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                       \bullet \  \, \texttt{\bar{Name}[Sub][Sub][Ext1][Arg][Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                        • \mthparrel{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                    561 %% Style for Relations
                    562 \mbox{ \label{rel}\newcommand{\mbstyrel}{\mbstyrel}} \
    \aRel, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                   \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                   A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\varSigma,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                    563 \seqoflet{Rel}{mthrel}
    \cmdmthrel ... to do!
                       \cmdmthrel{cmdName};
                         \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                        • \cmdmthrel{cmdName}[NewName];
                         \verb|\cmdNameRel[sub][sub][ext]| = NewName_{sub}^{sub}ext
                    564 \newcommandx{\cmdmthrel}[2][2=]
                    565 {\usrmth{#1}{Rel}{rel}[#2]}
 \verb|\cmdmthargrel| ... to do!
                        \cmdmthargrel{cmdName};
                         \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargrel{cmdName}[NewName];
                         \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                    566 \newcommandx{\cmdmthargrel}[2][2=]
                    567 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                        \cmdmthoargrel{cmdName};
                         \verb|\cmdNameRel[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargrel{cmdRel}[NewName];
                          \colon dRelRel[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                     568 \newcommandx{\cmdmthoargrel}[2][2=]
                    569 {\usrmth{#1}{Rel}{oargrel}[#2]}
 \cmdmthparrel ... to do!
                        \cmdmthparrel{cmdName};
                         \verb|\cmdNameRel[sub][sub][ext1][par][ext2]| = cmdName_{sub}^{sub}ext1[par]ext2|
```

```
• \cmdmthparrel{cmdName}[NewName];
                                                  \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2]|
                                        570 \newcommandx{\cmdmthparrel}[2][2=]
                                                  {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                              • \cmdmthoparrel{cmdName};
                                                  \verb|\cmdNameRel[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                              • \cmdmthoparrel{cmdRel}[NewName];
                                                  \colone{local} \col
                                        572 \newcommandx{\cmdmthoparrel}[2][2=]
                                                 {\usrmth{#1}{Rel}{oparrel}[#2]}
    \mthfun, ... to do!
                                              • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                              \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Arg][Ext2]} = \mathsf{\bar{Name}}_{sub}^{sup} Ext1(Arg) Ext2
                                              \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \mathsf{Name}^{sup}_{sub}Ext1[Par]Ext2
                                        574 %% Style for Functions
                                        575 \mbox{ \mbox{\mbox{mathsf}} \mbox{\mbox{\mbox{mathsf}}} \
         \arraycolor{1}{a}Fun, ... to do!
                                     a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                      \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                      \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\mathsf{\Delta},\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\mathsf{\Sigma},\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                       576 \seqoflet{Fun}{mthfun}
         \cmdmthfun ... to do!
                                              • \cmdmthfun{cmdName};
                                                  \cmdNameFun[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                              • \cmdmthfun{cmdName}[NewName];
                                                  \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} = t
                                        577 \newcommandx{\cmdmthfun}[2][2=]
                                        578 {\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
                                        579 \newcommandx{\cmdmthargfun}[2][2=]
                                                  {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                              • \cmdmthoargfun{cmdName};
                                                  \cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                              • \cmdmthoargfun{cmdFun} [NewName];
                                                  \verb|\cmdFunFun[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                        581 \newcommandx{\cmdmthoargfun}[2][2=]
                                       582 {\usrmth{#1}{Fun}{oargfun}[#2]}
  \cmdmthparfun ... to do!
                                              • \cmdmthparfun{cmdName};
                                                  \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName$| sub| ext1[par]ext2|
                                              • \cmdmthparfun{cmdName}[NewName];
                                                  \cmdNameFun[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                        583 \newcommandx{\cmdmthparfun}[2][2=]
                                        584 {\usrmth{#1}{Fun}{parfun}[#2]}
```

```
\cmdmthoparfun ... to do!
                                                                 • \cmdmthoparfun{cmdName};
                                                                       \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                 • \cmdmthoparfun{cmdFun} [NewName];
                                                                       \verb|\cmdFunFun[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                         585 \newcommandx{\cmdmthoparfun}[2][2=]
                                                                       {\usrmth{#1}{Fun}{oparfun}[#2]}
      \mthsym, ... to do!
                                                                 • \mthsym{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                 \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathtt{Name}^{sup}_{sub}Ext1(Arg)Ext2
                                                                 • \mathbb{E}_{sub}[Sub][Sup][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                                                         587 %% Style for Symbols
                                                         588 \mbox{\mbox{\mbox{$\sim$}}{\mathbf{\mbox{$\sim$}}}{\mathbf{\mbox{$\sim$}}}{\mathbf{\mbox{$\sim$}}}
             \aggreen \
                                                      a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                      \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                      A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, T, \Phi, \Phi, X, \Psi, \Omega
                                                         589 \seqoflet{Sym}{mthsym}
             \cmdmthsym ... to do!
                                                                 \cmdmthsym{cmdName};
                                                                       \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                                                                 • \cmdmthsym{cmdName}[NewName];
                                                                       \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                         590 \newcommandx{\cmdmthsym}[2][2=]
                                                                     {\usrmth{#1}{Sym}{sym}[#2]}
   \cmdmthargsym ... to do!
                                                                 \cmdmthargsym{cmdName};
                                                                       \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                 • \cmdmthargsym{cmdName}[NewName];
                                                                       \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                         592 \newcommandx{\cmdmthargsym}[2][2=]
                                                         593 {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                 \cmdmthoargsym{cmdName};
                                                                       \colon cond name Sym [sub] [sub] [arg] = cmd Name <math>_{sub}^{sub} (arg)
                                                                 • \cmdmthoargsym{cmdSym}[NewName];
                                                                       \colon 
                                                         594 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                     {\usrmth{#1}{Sym}{oargsym}[#2]}
   \cmdmthparsym ... to do!
                                                                 \cmdmthparsym{cmdName};
                                                                        \c MameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                 • \cmdmthparsym{cmdName}[NewName];
                                                                       \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\NewName|_{sub}^{sub}ext1[par]ext2|
                                                         596 \newcommandx{\cmdmthparsym}[2][2=]
                                                                          {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                 • \cmdmthoparsym{cmdName};
                                                                       \cmdNameSym[sub][sub][par] = cmdName_{sub}^{sub}[par]
```

```
\cmdmthoparsym{cmdSym}[NewName];
                           \verb|\cmdSymSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                      598 \newcommandx{\cmdmthoparsym}[2][2=]
                           {\usrmth{#1}{Sym}{oparsym}[#2]}
  \mthelm, ... to do!
                         • \mthelm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                         • \mthargelm{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                         • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                      600 %% Style for Elements
                      601 \mbox{ \cmdmthall{elm}\newcommand{\mbox{\mbox{mthstyelm}}{\mbox{\mbox{\cmdmthall}}}}
     \all lm, ... to do!
                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                     \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                     A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                      602 \seqoflet{Elm}{mthelm}
     \cmdmthelm ... to do!
                         \cmdmthelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                         • \cmdmthelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                      603 \newcommandx{\cmdmthelm}[2][2=]
                      604 {\usrmth{#1}{Elm}{elm}[#2]}
 \cmdmthargelm ... to do!
                         • \cmdmthargelm{cmdName};
                           \cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName^{sub}_{sub}ext1(arg)ext2
                         • \cmdmthargelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      605 \newcommandx{\cmdmthargelm}[2][2=]
                           {\usrmth{#1}{Elm}{argelm}[#2]}
\cmdmthoargelm ... to do!
                         • \cmdmthoargelm{cmdName};
                           \colon = cmdNameElm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                         • \cmdmthoargelm{cmdElm}[NewName];
                           \cmbox{cmdElmElm[sub] [sub] [arg]} = NewName_{sub}^{sub}(arg)
                      607 \newcommandx{\cmdmthoargelm}[2][2=]
                           {\usrmth{#1}{Elm}{oargelm}[#2]}
 \cmdmthparelm ... to do!
                         • \cmdmthparelm{cmdName};
                           \label{local_cond_norm_sub} $$ \operatorname{Lim}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}] = cmdName_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2 $$
                         • \cmdmthparelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                      609 \newcommandx{\cmdmthparelm}[2][2=]
                      610 {\usrmth{#1}{Elm}{parelm}[#2]}
\cmdmthoparelm ... to do!
                         • \cmdmthoparelm{cmdName};
                           \verb|\cmdNameElm[sub][par]| = cmdName_{sub}^{sub}[par]|
                         • \cmdmthoparelm{cmdElm}[NewName];
                           \colonerge{cmdElmElm[sub][sub][par]} = NewName_{sub}^{sub}[par]
                      611 \newcommandx{\cmdmthoparelm}[2][2=]
                      612 {\usrmth{#1}{Elm}{oparelm}[#2]}
```

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

```
• \mthluop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                          • \mthlbop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                       630 %% Style for \LaTex Operators
                       631 \mbox{ \cmdmth{luop}\newcommand{\mbstyluop}[1]{\textstyle\mathop{#1}}}
                      632 \cmdmth{lbop}\newcommand{\mthstylbop}[1]{\textstyle\mathbin{#1}}
\cmdmthluop, ... to do!
                         • \cmdmthluop{cmdName};
                           \verb|\cmdNameUOp[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                          • \cmdmthluop{cmdName}[\oplus];
                           \verb|\cmdNameUOp[sub][sub][ext]| = \oplus_{sub}^{sub} ext
                          \cmdmthlbop{cmdName};
                            \cmdNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                          • \cmdmthlbop{cmdName}[\oplus];
                           \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                       633 \newcommandx{\cmdmthluop}[2][2=]
                       634 {\usrmth{#1}{UOp}{luop}[#2]}
                       635 \newcommandx{\cmdmthlbop}[2][2=]
                           {\usrmth{#1}{BOp}{lbop}[#2]}
         \mthlrel ... to do!
                         • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                      637 %% Style for \LaTex Relations
                      638 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
      \cmdmthlrel \dots to \operatorname{do}!
                          • \cmdmthlrel{cmdName};
                            \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                         • \cmdmthlrel{cmdName}[\preceq];
                            \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                       639 \newcommandx{\cmdmthlrel}[2][2=]
                           {\usrmth{#1}{Rel}{lrel}[#2]}
                      \mthsnt, ... to do!
                         • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                          \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathsf{Name}^{sup}_{sub}Ext1(Arg)Ext2
                          • \mathbb{E}_{sub}[Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                      642 %% Style for Sentences
                      643 \mbox{ \mbox{$\sim$}}{\mbox{$\sim$}}{\mbox{$\sim$}}
       \aSnt, ... to do!
                     a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                     \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, 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
                      644 \seqoflet{Snt}{mthsnt}
       \cmdmthsnt ... to do!
                         • \cmdmthsnt{cmdName};
                           • \cmdmthsnt{cmdName}[NewName];
                           \colon dNameSnt[sub][sub][ext] = NewName_{sub}^{sub}ext
                      645 \newcommandx{\cmdmthsnt}[2][2=]
                      646 {\usrmth{#1}{Snt}{snt}[#2]}
   \c cmdmthargsnt ... to do!
```

```
\cmdmthargsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2|
                        \cmdmthargsnt{cmdName} [NewName];
                          \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\NewName|^{sub}_{sub}ext1(arg)ext2|
                     647 \newcommandx{\cmdmthargsnt}[2][2=]
                         {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                        \cmdmthoargsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\cmdNames|^{sub}(arg)
                        • \cmdmthoargsnt{cmdName}[NewName];
                          \colon = NewNameSnt[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                     649 \newcommandx{\cmdmthoargsnt}[2][2=]
                          {\usrmth{#1}{Snt}{oargsnt}[#2]}
 \cmdmthparsnt ... to do!
                        • \cmdmthparsnt{cmdName}:
                          \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                        • \cmdmthparsnt{cmdName} [NewName];
                          \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\NewName|^{sub}_{sub}ext1[par]ext2|
                     651 \newcommandx{\cmdmthparsnt}[2][2=]
                     652 {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                        \cmdmthoparsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdName|^{sub}_{sub}[par]|
                        • \cmdmthoparsnt{cmdName}[NewName];
                          \colon = NewNameSub[sub][sub][par] = NewNameSub[par]
                     653 \newcommandx{\cmdmthoparsnt}[2][2=]
                    654 {\usrmth{#1}{Snt}{oparsnt}[#2]}
  \mbox{\em mthfrm, } \dots \mbox{\em to do!}
                        • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                        \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                        • \mthparfrm{Name} [sub] [sup] [Ext1] {Par} [Ext2] = Name_{sub}^{sup} Ext1[Par]Ext2
                     655 %% Style for Formulae
                    656 \mbox{\cmmand{\bf https:/mathit}} \
     \aFrm, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                    A,~B,~\Gamma,~\Delta,~E,~E,~Z,~H,~\Theta,~\Theta,~I,~K,~K,~\Lambda,~M,~N,~\Xi,~O,~\Pi,~\Pi,~P,~P,~\Sigma,~\Sigma,~T,~\Upsilon,~\Phi,~\Phi,~X,~\Psi,~\Omega
                    657 \seqoflet{Frm}{mthfrm}
     \cmdmthfrm ... to do!
                        \cmdmthfrm{cmdName};
                          \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthfrm{cmdName} [NewName];
                          \cmdNameFrm[sub][sub][ext] = NewName_{sub}^{sub}ext
                     658 \newcommandx{\cmdmthfrm}[2][2=]
                          {\usrmth{#1}{Frm}{frm}[#2]}
 \cmdmthargfrm ... to do!
                        • \cmdmthargfrm{cmdName};
                          \verb|\cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargfrm{cmdName}[NewName];
                          \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
```

```
660 \newcommandx{\cmdmthargfrm}[2][2=]
                                                    {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                                                • \cmdmthoargfrm{cmdName};
                                                    \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                • \cmdmthoargfrm{cmdName}[NewName];
                                                    \c MameFrm[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                          662 \newcommandx{\cmdmthoargfrm}[2][2=]
                                          663 {\usrmth{#1}{Frm}{oargfrm}[#2]}
  \cmdmthparfrm ... to do!
                                                • \cmdmthparfrm{cmdName};
                                                    \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                • \cmdmthparfrm{cmdName}[NewName];
                                                    \cmdNameFrm[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                          664 \newcommandx{\cmdmthparfrm}[2][2=]
                                          665 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                                                • \cmdmthoparfrm{cmdName};
                                                    \colon dNameFrm[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                • \cmdmthoparfrm{cmdName}[NewName];
                                                    \cmdNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                                          666 \newcommandx{\cmdmthoparfrm}[2][2=]
                                                    {\usrmth{#1}{Frm}{oparfrm}[#2]}
                                         \mthmat, ... to do!
                                               • \mathbb{E}_{sub}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                                                \bullet \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Sup}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Arg}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \textbf{\bar{Name}} \  \, \underbrace{sub} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \textbf{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \textbf{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \textbf{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \textbf{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}} \  \, \texttt{\bar{
                                                • \mathbb{E}_{sub}[Sub][Sup][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                          669 %% Style for Matrices
                                          670 \cmdmthall{mat}\newcommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
          \aMat, ... to do!
                                       a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                        A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                        \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                        A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                          671 \seqoflet{Mat}{mthmat}
          \cmdmthmat ... to do!
                                                \cmdmthmat{cmdName};
                                                    \c Mame Mat[sub][sub][ext] = cmd Name _{sub}^{sub} ext
                                                • \cmdmthmat{cmdName} [NewName];
                                                    \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName|^{sub}_{sub} ext|
                                          672 \newcommandx{\cmdmthmat}[2][2=]
                                         673 {\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
                                          674 \newcommandx{\cmdmthargmat}[2][2=]
                                          675 {\usrmth{#1}{Mat}{argmat}[#2]}
```

```
\cmdmthoargmat ... to do!
                                           • \cmdmthoargmat{cmdName};
                                               \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargmat{cmdName}[NewName];
                                               \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                      676 \newcommandx{\cmdmthoargmat}[2][2=]
                                              {\usrmth{#1}{Mat}{oargmat}[#2]}
  \cmdmthparmat ... to do!
                                           • \cmdmthparmat{cmdName};
                                               \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1[par]ext2
                                           • \cmdmthparmat{cmdName} [NewName];
                                               \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \verb|NewName|^{sub}_{sub}ext1[par]ext2|
                                     678 \newcommandx{\cmdmthparmat}[2][2=]
                                               {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                           • \cmdmthoparmat{cmdName};
                                               \verb|\cmdNameMat[sub][sub][par]| = \mathbf{cmdName}_{sub}^{sub}[par]|
                                           • \cmdmthoparmat{cmdName}[NewName];
                                               \colon dNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                                     680 \newcommandx{\cmdmthoparmat}[2][2=]
                                     681 {\usrmth{#1}{Mat}{oparmat}[#2]}
    \mthvec, ... to do!
                                           ullet \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                           \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]\{Arg\}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                                           \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]{Par}[Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2
                                     682 %% Style for Vectors
                                     683 \label{lem:command} $$683 \cmdmthall{vec}\newcommand{\mathbf \{\mthstyvec}[1]_{\boldsymbol{\mathbf \{\}}}}$
         \aVec, ... to do!
                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                    \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                    A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                                     684 \seqoflet{Vec}{mthvec}
         \cmdmthvec ... to do!
                                           \cmdmthvec{cmdName};
                                               \verb|\cmdNameVec[sub][sub][ext]| = cmdName^{sub}_{sub}ext|
                                           • \cmdmthvec{cmdName} [NewName];
                                               \cmdNameVec[sub][sub][ext] = NewName_{sub}^{sub}ext
                                      685 \newcommandx{\cmdmthvec}[2][2=]
                                     686 {\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
                                      687 \newcommandx{\cmdmthargvec}[2][2=]
                                               {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                           • \cmdmthoargvec{cmdName};
                                               \colon = cmdName \col
```

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

\cmdmthoargvec{cmdName} [NewName];

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

731 \cmdtxtabr{Divideetimpera}[Divide et impera]

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

```
\wrt
             • \wrt = w.r.t.
           753 \cmdtxtabr{wrt}[w.r.t.]
             • \wdots w.l.o.g.
     \wlogx
           754 \cmdtxtabr{wlogx}[w.l.o.g.]
           • \Contd = Contd.
     \Contd
           756 \cmdtxtabr{Contd}[Contd.]
     \Wlogx
             • \W logx = W.l.o.g.
           757 \cmdtxtabr{Wlogx}[W.l.o.g.]
           758 \fi
           763 \ifmath@
           \defeq, \seteq
           765 \DeclareRobustCommand{\defeq}
              {\@ifstar%
           767
                {\mthlbop{\stackrel{\text{\textup{def}}}{=}}}%
           768
                {\mthlbop{\triangleq}}}
           769 \DeclareRobustCommand{\seteq}
           770 {\mbox{\mbox{\mbox{$1$}}}}
           \implies, ...
           772 \DeclareRobustCommand{\implies}
           773 {\mthlrel{\Rightarrow}}
           774 \DeclareRobustCommand{\notimplies}
           775 {\mthlrel{\not\Rightarrow}}
 \implied, ... ...
           776 \DeclareRobustCommand{\implied}
           777 {\mthlrel{\Leftarrow}}
           778 \DeclareRobustCommand{\notimplied}
           779 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
           780 \DeclareRobustCommand{\coimplies}
           781 {\mthlrel{\Leftrightarrow}}
           782 \DeclareRobustCommand{\notcoimplies}
           783 {\mthlrel{\not\!\Leftrightarrow}}
           \cmodels, ... ...
           785 \DeclareRobustCommand{\cmodels}
           786 {\mthlrel{\models}}
           787 \DeclareRobustCommand{\notcmodels}
           788 {\mthlrel{\not\models}}
 \cequiv, ... ...
           789 \DeclareRobustCommand{\cequiv}
           790 {\mthlrel{\equiv}}
           791 \DeclareRobustCommand{\notcequiv}
           792 {\mthlrel{\not\equiv}}
```

```
\dual, \adj, ... ...
                 794 \DeclareRobustCommand{\dual}[1]
                    {\mth{\overline{#1}}}
                 796 \DeclareRobustCommand{\adj}[1]
                    {\mth{\mathring{#1}}}
                 798 \DeclareRobustCommand{\der}[1]
                    {\mth{\widehat{#1}}}
                 800 \DeclareRobustCommand{\trn}[1]
                 801 \quad \{\mathbf{mth}\{\mathbf{41}\}\}
           \vec ...
                 802 \DeclareRobustCommand{\vec}
                    {\@ifstar{\@svec}{\@vec}}
                 804 \DeclareRobustCommand{\@vec}[1]
                 805 {\bf 1} {\mth{\mathaccent"017E{#1}}}
                 806 \DeclareRobustCommand{\@svec}[1]
                 807 {\mth{\overline{#1}}}
                 \enumeration, ... ...
                 809 \varcmd{enumeration}{\mth}{}{,}{}{}
                 810 \\ {\mth}{}{;}{}}
  \sequence, ... ...
                 811 \varcmd{sequence}{\mth}{\left[}{,}{\right]}{}
                 812 \varcmd{sequencel}{\mth}{\left[}{,}{\right.}{}
                 813 \varcmd{sequencer}{\mth}{\left.}{,}{\right]}{}
                 814 \varcmd{sequencex}{\mth}{\left[}{;}{\right]}{}
                 815 \varcmd{sequencexl}{\mth}{\left[}{;}{\right.}{}
                 816 \varcmd{sequencexr}{\mth}{\left.}{;}{\right]}{}
     \tuple, ... ...
                 817 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
                 818 \varcmd{tuplel}{\mth}{\left\langle}{,}{\right.}{}
                 819 \varcmd{tupler}{\mth}{\left.}{,}{\right\rangle}{}
                 820 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                 821 \varcmd{tuplex1}{\mth}{\left\langle}{;}{\right.}{}
                 822 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
                 \set, ... ...
                 824 \DeclareRobustCommand{\set}
                     {\@ifstar{\@set}{\@set[\left][\middle][\right]}}
                 826 \DeclareRobustCommandx{\@set}[5][1=, 2=, 3=]
                    828 \DeclareRobustCommand{\set1}
                     {\@ifstar{\@setl}{\@setl[\left][\right]}}
                 830 \DeclareRobustCommandx{\@setl}[3][1=, 2=]
                    {\mth{\argmid{#1\lbrace}{#3}{\,#2\vert\!}}}
                 832 \DeclareRobustCommand{\setr}
                 833 {\@ifstar{\@setr}{\@setr[\left.][\right]}}
                 834 \DeclareRobustCommandx{\@setr}[3][1=, 2=]
                    {\mth{\argmid{#1}{#3}{#2\rbrace}}}
          \card ...
                 836 \DeclareRobustCommand{\card}
                 837 {\@ifstar{\@card}{\@card[\left][\right]}}
                 838 \DeclareRobustCommandx{\@card}[3][1=, 2=]
                    {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
```

```
\pow ...
           840 \DeclareRobustCommand{\pow}[1]
              {\mth{2^{\defval{#1}{\cdot}}}}
     \denot ...
           842 \DeclareRobustCommand{\denot}
           843 {\@ifstar{\@denot}{\@denot[\left][\right]}}
           844 \DeclareRobustCommandx{\@denot}[3][1=, 2=]
           845 {\mth{\argmid{#1\llbracket}{#3}{#2\rrbracket}}}
           \emptyrel ...
           847 \DeclareRobustCommand{\emptyrel}
           848 {\mth{\varnothing}}
           \dom, \cod, ... ...
           850 \DeclareRobustCommand{\dom}
              {\mthargfun{dom}}
           852 \DeclareRobustCommand{\cod}
           853 {\mthargfun{cod}}
           854 \DeclareRobustCommand{\rng}
           855 {\mthargfun{rng}}
           856 \DeclareRobustCommand{\img}
              {\mthargfun{img}}
           \prj ...
           859 \DeclareRobustCommand{\prj}
           860 {\mthargfun{prj}}
       \rst ...
           861 \DeclareRobustCommand{\rst}
           862 {\mthlbop{\upharpoonright}}
       \cmp ...
           863 \DeclareRobustCommand{\cmp}
           864 {\mthlbop{\circ}}
           \emptyfun ...
           866 \DeclareRobustCommand{\emptyfun}
           867 {\mth{\varnothing}}
           \pto, \pmapsto
           869 \DeclareMathOperator{\pto}
              {\ensuremath{\rightharpoonup}}
           871 \DeclareMathOperator{\pmapsto}
              \kern-1.5ex\rightharpoonup}}}
```

```
\fix, \ifp, ... ...
                875 \DeclareRobustCommand{\fix}
                876 {\mthfun{fix}}
                877 \DeclareRobustCommand{\ifp}
                878 {\mthfun{ifp}}
                 879 \DeclareRobustCommand{\lfp}
                    {\mthfun{lfp}}
                 881 \DeclareRobustCommand{\gfp}
                    {\mthfun{gfp}}
                 \Aomega, \AOmega ...
                 884 \DeclareRobustCommand{\Aomega}
                 885 {\mthargset{\omega}}
                 886 \DeclareRobustCommand{\AOmega}
                887 {\mthargset{\Omega}}
\Atheta, \ATheta
                 888 \DeclareRobustCommand{\Atheta}
                    {\mthargset{\theta}}
                 890 \DeclareRobustCommand{\ATheta}
                    {\mthargset{\Theta}}
 \Aomicron, ... ...
                892 \DeclareRobustCommand{\Aomicron}
                 893 {\mthargset{\omicron}}
                 894 \DeclareRobustCommand{\AOmicron}
                     {\mthargset{\Omicron}}
                \SetB ...
                897 \DeclareRobustCommand{\SetB}
                898 {\mthset[mathbb]{B}}
          \SetF ...
                899 \DeclareRobustCommand{\SetF}
                900 {\bf [mathbb]{F}}
     \SetN, ... ...
                901 \DeclareRobustCommand{\SetN}
                902 {\mthset[mathbb]{N}}
                903 \DeclareRobustCommand{\SetNI}[1][]
                904 {\SetN[\infty #1]}
     \SetZ, ... ...
                905 \DeclareRobustCommand{\SetZ}
                906 {\mthset[mathbb]{Z}}
                907 \DeclareRobustCommand{\SetZI}[1][]
                908 {\SetZ[\pm\infty #1]}
                909 \DeclareRobustCommand{\SetZPI}[1][]
                910 {\SetZ[+\infty #1]}
                911 \DeclareRobustCommand{\SetZNI}[1][]
                912 {\SetZ[-\infty #1]}
     \SetQ, ... ...
                913 \DeclareRobustCommand{\SetQ}
                914 {\mthset[mathbb]{Q}}
                915 \DeclareRobustCommand{\SetQI}[1][]
                916 {\SetQ[\pm\infty #1]}
                917 \DeclareRobustCommand{\SetQPI}[1][]
                    {\SetQ[+\infty #1]}
                 919 \DeclareRobustCommand{\SetQNI}[1][]
                 920 {\SetQ[-\infty #1]}
```

```
\SetR, ... ...
                                   921 \DeclareRobustCommand{\SetR}
                                   922 {\mthset[mathbb]{R}}
                                   923 \DeclareRobustCommand{\SetRI}[1][]
                                   924 {\SetR[\pm\infty #1]}
                                   925 \DeclareRobustCommand{\SetRPI}[1][]
                                   926 {\SetR[+\infty #1]}
                                    927 \DeclareRobustCommand{\SetRNI}[1][]
                                   928 {\SetR[-\infty #1]}
          \SetC, ... ...
                                   929 \DeclareRobustCommand{\SetC}
                                   930 {\bf [mathbb]{C}}
                                   931 \DeclareRobustCommand{\SetCI}[1][]
                                   932 {\SetC[\infty #1]}
                                    \num, ... ...
                                   934 \DeclareRobustCommand(\num)[1]
                                   935 {\mth{[#1]}}
                                   936 \DeclareRobustCommand{\numcc}[2]
                                   937 {\mth{[\argsep{#1}{,}{#2}]}}
                                   938 \DeclareRobustCommand{\numco}[2]
                                   939 {\mth{[\argsep{#1}{,}{#2})}}
                                   940 \DeclareRobustCommand{\numoc}[2]
                                    941 {\mth{(\argsep{#1}{,}{#2}]}}
                                    942 \DeclareRobustCommand{\numoo}[2]
                                    943 {\mth{(\argsep{#1}{,}{#2}))}}
                                    \floor, \ceil ...
                                    945 \DeclareRobustCommand{\floor}
                                    946 {\@ifstar{\@floor}{\@floor[\left][\right]}}
                                   947 \DeclareRobustCommandx{\@floor}[3][1=, 2=]
                                    948 {\bf 4}^{41} = {\bf 4}^{43}
                                    949 \DeclareRobustCommand{\ceil}
                                    950 {\@ifstar{\@ceil}{\@ceil[\left][\right]}}
                                    951 \DeclareRobustCommandx{\@ceil}[3][1=, 2=]
                                    952 {\mth{\argmid{#1\lceil}{#3}{#2\rceil}}}
                                    \arg ...
                                   954 \DeclareRobustCommand{\arg}
                                   955 {\mthfun{arg}}
          \evn, \odd ...
                                   956 \DeclareRobustCommand{\evn}
                                   957 {\mthfun{evn}}
                                   958 \DeclareRobustCommand{\odd}
                                   959 {\mthfun{odd}}
            \bst, ... ...
                                    960 \label{localized} $960 \label{localized} $$ 1960 \label{localized} $$ 960 \label{localized} $$ 1960 \label{localized
                                   961 {\mthfun{bst}}
                                   962 \DeclareRobustCommand{\argbst}
                                   963 {\mthfun{arg bst}}
\min, \max, ... ...
                                   964 \DeclareRobustCommand{\min}
                                   965 {\mthfun{min}}
```

```
966 \DeclareRobustCommand{\max}
                                            {\mthfun{max}}
                                 968 \DeclareRobustCommand{\argmin}
                                 969 {\mthfun{arg min}}
                                 970 \DeclareRobustCommand{\argmax}
                                 971 {\mthfun{arg max}}
\inf, \sup
                                 972 \DeclareRobustCommand{\inf}
                                 973 {\mthfun{inf}}
                                 974 \DeclareRobustCommand{\sup}
                                 975 {\mthfun{sup}}
                                 \emptyseq
                                 977 \DeclareRobustCommand{\emptyseq}
                                 978 {\mth{\varepsilon}}
\fst, \lst ...
                                 979 \DeclareRobustCommand{\fst}
                                 980 {\mthargfun{fst}}
                                 981 \DeclareRobustCommand{\lst}
                                 982 {\mathbf{st}}
                                 983 \fi
                                 988 \ifcom@
\defcomcls ... to do!
                                        • \defcomcls{CompClass};
                                             \CompClass[sub][sup][ext] = COMPCLASS_{SUB}^{SUP}EXT
                                             \CoCompClass[sub][sup][ext] = CoCompClass_{SUB}^{SUP}EXT
                                             \verb|\CompClassE[sub][sup][ext]| = CompClass-Easy_{SUB}^{SUP}EXT
                                             \verb|\CoCompClassE[sub][sup][ext]| = CoCompClass-Easy^{SUP}_{SUR}EXT
                                             \CompClassH[sub][sup][ext] = COMPCLASS-HARD_{SUB}^{SUP}EXT
                                             \verb|\CoCompClassH[sub][sup][ext]| = CoCompClass-Hard_{SUB}^{SUP}EXT
                                             \verb|\CompClassC[sub][sup][ext]| = CompClass-complete_{Sub}^{SUP}EXT
                                            \verb|\CoCompClassC[sub][sup][ext]| = CoCompClass-complete_{SUB}^{SUP}EXT
                                            \N{CompClass[sub][sup][ext]} = N{CompCLASS_{SUB}^{SUP}}{EXT}
                                            \verb|\ConCompClass[sub][sup][ext]| = ConCompClass_{SUB}^{SUP}EXT
                                            \N{\c CompClassE[sub][sup][ext]} = N{\c CompClass-Easy}_{SUB}^{SUP}EXT
                                            \verb|\ConCompClassE[sub][sup][ext]| = ConCompClass-Easy_{SUB}^{SUP}EXT|
                                            \verb|NCompClassH[sub][sup][ext]| = NCOMPCLASS-HARD_{SUB}^{SUP}EXT
                                             \verb|\ConCompClassH[sub][sup][ext]| = ConCompClass-Hard_{SUB}^{SUP}EXT
                                             \label{eq:ncompClassC} $$\N{\compClassC[sub][sup][ext]} = N{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClassC[sub][sup][ext]} = N{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClassC[sub][sup][ext]} = N{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUB}^{SUP}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompClass-CompLete}_{SUB}^{SUB}{\ccompCl
                                            \verb|\ConCompClassC[sub][sup][ext]| = ConCompClass-complete_{sub}^{SUP}EXT
                                            \verb|\UCompClass[sub][sup][ext]| = UCOMPCLASS^{SUP}_{SUB}EXT
                                            \verb|\CoUCompClass[sub][sup][ext]| = CoUCompClass_{SUB}^{SUP}EXT
                                            \label{eq:UCompClassEsub} $$ \[\sup] [ext] = UCOMPCLASS-EASY_{SUB}^{SUP}EXT $$
                                             \CoulompClassE[sub][sup][ext] = CoUCOMPCLASS-EASY_{SUB}^{SUP}EXT
                                            \verb|VCompClassH[sub][sup][ext]| = UCOMPCLASS-HARD_{SUB}^{SUP}EXT
                                             \Coultberg Coultberg Cou
                                             \label{eq:UCompClassC} $$\UCompClassC[sub][sup][ext] = UCompClass-Complete_{SUB}^{SUP}EXT$
                                             \verb|\CoUCompClassC[sub][sup][ext]| = CoUCompClass-Complete_{SUB}^{SUP}EXT
                                             \verb|\ACompClass[sub][sup][ext]| = ACOMPCLASS^{SUP}_{SUB}EXT
                                             \CoACompClass[sub][sup][ext] = CoACompClass_{SUB}^{SUP}EXT
```

```
\verb|\ACompClassH[sub][sup][ext]| = ACOMPCLASS-HARD_{SUB}^{SUP}EXT
                    \verb|\CoACompClassH[sub][sup][ext]| = CoACompClass-Hard_{SUB}^{SUP}EXT
                    \verb|\ACompClassC[sub][sup][ext]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}EXT
                    \CoACompClassC[sub][sup][ext] = CoACompClass-Complete_{SUB}^{SUP}EXT
                  \defcomcls{CompClass}[NewClass];
                    \CompClass[sub][sup][ext] = NewClass_{SUB}^{SUP}EXT
                    \verb|\CoCompClass[sub][sup][ext]| = CoNewClass_{SUB}^{SUP}EXT
                    \verb|\CompClassE[sub][sup][ext]| = NewClass-easy_{Sub}^{SUP}EXT
                    \verb|\CoCompClassE[sub][sup][ext]| = CoNewClass-Easy_{SUB}^{SUP}EXT
                    \CompClassH[sub][sup][ext] = NewClass-Hard_{SUB}^{SUP}EXT
                    \CoCompClassH[sub][sup][ext] = CoNewClass-Hard_{SUR}^{SUP}EXT
                    \CompClassC[sub][sup][ext] = NewClass-CompLete_{SUR}^{SUP}EXT
                    \CoCompClassC[sub][sup][ext] = CoNewClass-Complete_{SUB}^{SUP}EXT
                    \verb|\NCompClass[sub][sup][ext]| = NNEWCLASS^{SUP}_{SUB}EXT
                    \ConCompClass[sub][sup][ext] = ConNewClass_{SUB}^{SUP}EXT
                    \NCompClassE[sub][sup][ext] = NNEWCLASS-EASY_{SUB}^{SUP}EXT
                    \verb|\CoNCompClassE[sub][sup][ext]| = CoNNewClass-Easy_{SUB}^{SUP}EXT|
                    \verb|\NCompClassH[sub][sup][ext]| = NNEWCLASS-HARD_{SUB}^{SUP}EXT
                    \verb|\CoNCompClassH[sub][sup][ext]| = CoNNewClass-HARD_{SUB}^{SUP}EXT
                    \verb|NCompClassC[sub][sup][ext]| = NNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                    \verb|\CoNCompClassC[sub][sup][ext]| = CoNNewClass-complete_{SUB}^{SUP}EXT
                    \verb|\UCompClass[sub][sup][ext]| = UNEWCLASS^{SUP}_{SUB}EXT
                    \texttt{CoUCompClass[sub][sup][ext]} = CoUNEWCLASS_{SUB}^{SUP}EXT
                    \verb|\UCompClassE[sub][sup][ext]| = UNEWCLASS-EASY_{SUB}^{SUP}EXT
                    \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEwClass-Easy_{SUB}^{SUP}EXT
                    \label{eq:UCompClassH} $$ \UCompClassH[sub][sup][ext] = UNEWCLASS-HARD_{SUB}^{SUP}EXT $$
                    \verb|\CoUCompClassH[sub][sup][ext]| = CoUNEwClass-Hard_{SUB}^{SUP}EXT
                    \verb|\UCompClassC[sub][sup][ext]| = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                    \texttt{CoUCompClassC[sub][sup][ext]} = \texttt{CoUNewClass-complete}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{EXT}
                    \texttt{\ACompClass[sub][sup][ext]} = ANEWCLASS^{SUP}_{SUR}EXT
                    \CoACompClass[sub][sup][ext] = CoANEWCLASS^{SUP}_{SUR}EXT
                    \triangle CompClassE[sub][sup][ext] = ANEWCLASS-EASY_{SUR}^{SUP}EXT
                    \verb|\CoACompClassE[sub][sup][ext]| = CoANewClass-easy_{sub}^{SUP}EXT
                    \verb|\ACompClassH[sub][sup][ext]| = ANEWCLASS-HARD_{SUB}^{SUP}EXT
                    \verb|\CoACompClassH[sub][sup][ext]| = CoANewClass-Hard_{SUB}^{SUP}EXT
                    \ACompClassC[sub][sup][ext] = ANEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                    \verb|\CoACompClassC[sub][sup][ext]| = CoANewClass-complete_{SUB}^{SUP}EXT
               989 \newcommandx{\defcomcls}[2][2=]
                    {\defcomclssem{#1}{\defval{#2}{#1}}%
                     992 \newcommandx{\defcomclssem}[3][3=]
                    {\defcomclsred{#3#1}{#2}[#3]%
                     \defcomclsred{#3N#1}{#2}[#3N]%
               994
                     \defcomclsred{#3U#1}{#2}[#3U]%
               995
                    \defcomclsred{#3A#1}{#2}[#3A]}
               997 \newcommandx{\defcomclsred}[3][3=]
                    {\defcomclscmd{#1}{#2}[#3]%
                     \defcomclscmd{#1E}{#2}[#3][-easy]%
              1000
                    \defcomclscmd{#1H}{#2}[#3][-hard]%
                     \defcomclscmd{#1C}{#2}[#3][-complete]}%
              1002 \newcommandx{\defcomclscmd}[4][3=, 4=]
                    {\csdef{#1}{\txtcom{#3#2#4}}}
\defcomhrc ... to do!
                 • \defcomhrc{CompHierarchy};
                    CompHierarchy[sub][sup][ext] = COMPHIERARCHY_{SUB}^{SUP}EXT
```

 $\label{eq:lass-easy} $$ \Delta CompClassE[sub] [sup] [ext] = ACOMPCLASS-EASY_{SUB}^{SUP} EXT $$ CoACompClassE[sub] [sup] [ext] = CoACompClass-EASY_{SUB}^{SUP} EXT $$ CoACompClassE[sub] [sup] [ext] = CoACompClass-EASY_{SUB}^{SUP} EXT $$ CoACompClass-EASY_{SUB}^{SUP} EXT $$$ 

```
\defcomhrc{CompHierarchy} [NewHierarchy];
                            CompHierarchy[sub][sup][ext] = NEWHIERARCHY<sup>SUP</sup><sub>SUR</sub>EXT
                      1004 \newcommandx{\defcomhrc}[2][2=]
                             {\csdef{#1}{\txtcom{\defval{#2}{#1}}}}
                      \Easy, \Hard, ...
                      1007 \cmdtxtcom{Easy}
                      1008 \cmdtxtcom{Hard}
                      1009 \cmdtxtcom{Complete}
                      • Time[sub][sup][ext] = TIME_{SUB}^{SUP}EXT
        \Time, ...
                            \mathsf{TimeE[sub][sup][ext]} = \mathsf{TIME\text{-}EASY}^{\mathsf{SUP}}_{\mathsf{SUB}}\mathsf{EXT}
                            TimeH[sub][sup][ext] = TIME-HARD_{SUB}^{SUP}EXT
                            TimeC[sub][sup][ext] = TIME-COMPLETE_{SUB}^{SUP}EXT
                          • \NTime[sub][sup][ext] = NTIME_{SUB}^{SUP}EXT
                            \verb|\NTimeE[sub][sup][ext]| = NTIME-EASY_{SUB}^{SUP}EXT
                            \TimeH[sub][sup][ext] = NTIME-HARD_{SUB}^{SUP}EXT
                            \verb|\NTimeC[sub][sup][ext]| = NTIME-COMPLETE_{SUB}^{SUP}EXT
                          ullet \UTime[sub][sup][ext] = \mathrm{UTIME}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                            \UTimeE[sub][sup][ext] = UTIME-EASY_{SUB}^{SUP}EXT
                            \UTimeH[sub][sup][ext] = UTIME-HARD_{SUB}^{SUP}EXT
                            \verb| UTimeC[sub][sup][ext] = UTIME-COMPLETE_{SUR}^{SUP}EXT
                          • ATime[sub][sup][ext] = ATIME_{SUB}^{SUP}EXT
                            \texttt{\ATimeE[sub][sup][ext]} = \text{ATIME-EASY}^{\text{SUP}}_{\text{SUB}} \text{EXT}
                            \Delta TimeH[sub][sup][ext] = ATIME-HARD_{SUB}^{SUP}EXT
                            \Delta TimeC[sub][sup][ext] = ATIME-COMPLETE_{SUB}^{SUP}EXT
                      1011 \defcomcls{Time}
                          \Space, ...
                            \SpaceE[sub][sup][ext] = SPACE-EASY_{SUB}^{SUP}EXT
                            \verb|\SpaceH[sub][sup][ext]| = SPACE-HARD_{SUB}^{SUP}EXT
                            \SpaceC[sub][sup][ext] = SPACE-COMPLETE_{SUB}^{SUP}EXT
                           \bullet \ \texttt{NSpace[sub][sup][ext]} = NSPACE^{SUP}_{SUB}EXT \\
                            \NSpaceE[sub][sup][ext] = NSPACE-EASY_{SUB}^{SUP}EXT
                            \NSpaceH[sub][sup][ext] = NSPACE-HARD_{SUB}^{SUP}EXT
                            \verb|\NSpaceC[sub][sup][ext]| = NSPACE-COMPLETE_{SUB}^{SUP}EXT
                          • USpace[sub][sup][ext] = USPACE_{SUB}^{SUP}EXT
                            \USpaceE[sub][sup][ext] = USPACE-EASY_{SUB}^{SUP}EXT
                            \verb|\USpaceH[sub][sup][ext]| = USPACE-HARD^{SUP}_{SUB}EXT
                            \verb|\USpaceC[sub][sup][ext]| = USPACE-COMPLETE_{SUB}^{SUP}EXT
                          • ASpace[sub][sup][ext] = ASPACE_{SUB}^{SUP}EXT
                            \verb|\ASpaceE[sub][sup][ext]| = ASPACE\text{-}EASY_{SUB}^{SUP}EXT
                            \verb|\ASpaceH[sub][sup][ext]| = ASPACE-HARD_{SUB}^{SUP}EXT
                            ASpaceC[sub][sup][ext] = ASPACE-COMPLETE_{SUB}^{SUP}EXT
                      1012 \defcomcls{Space}
                          • \lfloor LogTime[sub][sup][ext] = LogTime_{Sub}^{SUP}EXT
    \LogTime, ...
                            \LogTimeE[sub][sup][ext] = LogTime-Easy_{Sub}^{SUP}EXT
                            LogTimeH[sub][sup][ext] = LogTime-Hard_{Sup}^{SUP}EXT
                            LogTimeC[sub][sup][ext] = LogTime-Complete_{Sup}^{SUP}EXT
                          • \NLogTime[sub][sup][ext] = NLogTime_{SUB}^{SUP}EXT
                            \verb|\NLogTimeE[sub][sup][ext]| = NLogTime-easy_{Sub}^{SUP}ext
                            \verb|\NLogTimeH[sub][sup][ext]| = NLogTime-Hard_{SUB}^{SUP}EXT
                            \NLogTimeC[sub][sup][ext] = NLogTime-Complete_{Sub}^{SUP}EXT
```

•  $ALogTime[sub][sup][ext] = ALogTime_{SUB}^{SUP}EXT$  $\verb|\ALogTimeE[sub][sup][ext]| = ALogTime-Easy_{sup}^{SUP}EXT$  $\verb|\ALogTimeH[sub][sup][ext]| = ALogTime-Hard_{SUB}^{SUP}EXT$  $\verb|\ALogTimeC[sub][sup][ext]| = ALogTime-Complete_{SUB}^{SUP}EXT|$ 1013 \defcomcls{LogTime} •  $LogSpace[sub][sup][ext] = LogSpace_{SUB}^{SUP}EXT$ \LogSpace, ...  $LogSpaceE[sub][sup][ext] = LogSpace-Easy_{sup}^{SUP}EXT$ LogSpaceH[sub][sup][ext] = LogSpace-HardSup EXT $LogSpaceC[sub][sup][ext] = LogSpace-complete_{sup}^{SUP}EXT$  $\NLogSpaceE[sub][sup][ext] = NLogSpace-Easy_{SUB}^{SUP}EXT$  $\NLogSpaceH[sub][sup][ext] = NLogSpace-Hard_{Sub}^{SUP}EXT$  $\NLogSpaceC[sub][sup][ext] = NLogSpace-CompleteSup_EXT$ •  $\ULogSpace[sub][sup][ext] = ULogSpace_{SUB}^{SUP}EXT$  $\ULogSpaceE[sub][sup][ext] = ULogSpace-Easy_{SUB}^{SUP}EXT$  $\verb|VLogSpaceH[sub][sup][ext]| = ULogSpace-Hard_{SUB}^{SUP}EXT$  $\ULogSpaceC[sub][sup][ext] = ULogSpace-Complete_{SUB}^{SUP}EXT$ •  $ALogSpace[sub][sup][ext] = ALogSpace_{SUB}^{SUP}EXT$  $\verb|\ALogSpaceE[sub][sup][ext]| = ALogSpace-Easy_{SUB}^{SUP}EXT|$  $\verb|\ALogSpaceH[sub][sup][ext]| = ALogSpace-Hard_{SUB}^{SUP}EXT$  $ALogSpaceC[sub][sup][ext] = ALogSpace-Complete_{Sup}^{SUP}EXT$ 1014 \defcomcls{LogSpace} • \PTime[sub][sup][ext] = PTIME\_SUBEXT \PTime, ...  $\verb|\PTimeE[sub][sup][ext]| = PTime-EASY_{SUR}^{SUP}EXT$  $\label{eq:ptimeH} $$ \Pr[\text{sub}][\text{sup}][\text{ext}] = \Pr[\text{TIME-HARD}^{\text{SUP}}_{\text{SUB}}] = \Pr[\text{TIME-HARD}^{\text{SUB}}_{\text{SUB}}] = \Pr[\text{TIME-HARD}^$  $\label{eq:ptimeC} $$ \Pr[\text{Sup}][\text{ext}] = \Pr[\text{ME-COMPLETE}_{\text{SUB}}^{\text{SUP}}] = \Pr[\text{ME-COMPLETE}_{\text{SUB}}^{\text{SUB}}] = \Pr[\text{ME-COMPLETE}_{\text{SUB}}^{$ •  $\NPTime[sub][sup][ext] = NPTIME_{SUB}^{SUP}EXT$  $\NPTimeE[sub][sup][ext] = NPTIME-EASY_{SUB}^{SUP}EXT$  $\NPTimeH[sub][sup][ext] = NPTIME-HARD_{SUB}^{SUP}EXT$  $\texttt{NPTimeC[sub][sup][ext]} = \mathrm{NPTIME\text{-}COMPLETE}^{\mathrm{SUP}}_{\mathrm{SUB}} \mathrm{EXT}$ • \UPTime[sub][sup][ext] = UPTIME\_SUP\_EXT  $\verb|\UPTimeE[sub][sup][ext]| = UPTIME-EASY_{SUB}^{SUP}EXT|$  $\verb|\UPTimeH[sub][sup][ext]| = \mathrm{UPTIME\text{-}HARD}^{SUP}_{SUB}\mathrm{EXT}|$  $\verb|\UPTimeC[sub][sup][ext]| = UPTIME-COMPLETE_{SUR}^{SUP}EXT$ •  $APTime[sub][sup][ext] = APTIME_{SUB}^{SUP}EXT$  $\label{eq:aptimeEsub} $$ \Delta PTimeE[sub][sup][ext] = APTIME-EASY_{SUB}^{SUP}EXT $$$  $\APTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT$  $\APTimeC[sub][sup][ext] = APTIME-COMPLETE_{SUB}^{SUP}EXT$ 1015 \defcomcls{PTime} •  $\PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT$ \PSpace, ...  $\verb|PSpaceE[sub][sup][ext]| = PSPACE-EASY_{SUB}^{SUP}EXT|$  $\verb|\PSpaceH[sub][sup][ext]| = PSPACE-HARD_{SUB}^{SUP}EXT|$  $\PSpaceC[sub][sup][ext] = PSPACE-COMPLETE_{SUB}^{SUP}EXT$ •  $\NPSpace[sub][sup][ext] = NPSPACE_{SUB}^{SUP}EXT$  $\verb|\NPSpaceE[sub][sup][ext]| = NPSPACE-EASY_{SUB}^{SUP}EXT|$  $\verb|\NPSpaceH[sub][sup][ext]| = NPSPACE-HARD_{SUB}^{SUP}EXT|$  $\label{eq:NPSpaceCsub} $$ \NPSpaceC[sub][sup][ext] = NPSPACE-COMPLETE_{SUB}^{SUP}EXT $$$ •  $\UPSpace[sub][sup][ext] = UPSPACE_{SUB}^{SUP}EXT$  $\verb|\UPSpaceE[sub][sup][ext]| = UPSPACE-EASY_{SUB}^{SUP}EXT$  $\verb| UPSpaceH[sub][sup][ext] = UPSPACE-HARD_{SUB}^{SUP}EXT$  $\UPSpaceC[sub][sup][ext] = UPSPACE-COMPLETE_{SUB}^{SUP}EXT$ 

•  $\ULogTime[sub][sup][ext] = ULogTime_{SUB}^{SUP}EXT$ 

 $\label{eq:logTimeE} $$ \ULogTimeE[sub] [sup] [ext] = ULogTime-Easy_{SUB}^{SUP} EXT $$ \ULogTimeH[sub] [sup] [ext] = ULogTime-Hard_{SUB}^{SUP} EXT $$ \ULogTimeC[sub] [sup] [ext] = ULogTime-Complete_{SUB}^{SUP} EXT $$ $$ \ULogTimeC[sub] [sup] [ext] = ULogTime-Complete_{SUB}^{SUP} EXT $$ \ULogTime-Complete_{SUB}^{SUP} EXT$ 

```
\QPTime, ...
                         \verb|\QPTimeE[sub][sup][ext]| = \mathrm{QPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                         \verb|\QPTimeH[sub][sup][ext]| = \mathrm{QPTIME-HARD}^{SUP}_{SUB}\mathrm{EXT}|
                         \QPTimeC[sub][sup][ext] = QPTIME-COMPLETE_{SUB}^{SUP}EXT
                       • \NQPTime[sub][sup][ext] = NQPTIME_{SUB}^{SUP}EXT
                          \NQPTimeE[sub][sup][ext] = NQPTIME-EASY_{SUP}^{SUP}EXT
                         \NQPTimeH[sub][sup][ext] = NQPTIME-HARD_{SUB}^{SUP}EXT
                         \NQPTimeC[sub][sup][ext] = NQPTIME-COMPLETE_{SUP}^{SUP}EXT
                       • \UQPTime[sub][sup][ext] = UQPTIME_{SUB}^{SUP}EXT
                          \verb|VQPTimeE[sub][sup][ext]| = UQPTIME-EASY_{SUB}^{SUP}EXT|
                          \verb|VQPTimeH[sub][sup][ext]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}\mathrm{EXT}
                          \UQPTimeC[sub][sup][ext] = UQPTIME-COMPLETE_{SUB}^{SUP}EXT
                       • AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT
                         \verb|\AQPTimeE[sub][sup][ext]| = AQPTIME-EASY_{SUB}^{SUP}EXT|
                         \texttt{AQPTimeH[sub][sup][ext]} = \mathrm{AQPTIME\text{-}HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                         \verb| AQPTimeC[sub][sup][ext] = AQPTIME-COMPLETE_{SUB}^{SUP}EXT
                   1017 \defcomcls{QPTime}
\QPSpace, ...
                       • \QPSpace[sub][sup][ext] = QPSPACE_{SUB}^{SUP}EXT
                         \verb|\QPSpaceE[sub][sup][ext]| = QPSPACE-EASY_{SUB}^{SUP}EXT|
                          \verb|QPSpaceH[sub][sup][ext]| = QPSPACE-HARD_{SUB}^{SUP}EXT|
                          \QPSpaceC[sub][sup][ext] = QPSPACE-COMPLETE_{SUB}^{SUP}EXT
                       • \NQPSpace[sub][sup][ext] = NQPSPACE_{SUB}^{SUP}EXT
                         \verb|NQPSpaceE[sub][sup][ext]| = NQPSpace-easy_{sub}^{SUP}EXT|
                         \verb|\NQPSpaceH[sub][sup][ext]| = NQPSPACE-HARD_{SUB}^{SUP}EXT
                         \verb|NQPSpaceC[sub][sup][ext]| = NQPSPACE-COMPLETE_{SUB}^{SUP}EXT|
                       • \UQPSpace[sub][sup][ext] = UQPSPACE_{SUB}^{SUP}EXT
                         \label{eq:uqpspace} $$ UQPSpaceE[sub][sup][ext] = UQPSpace-EASY_{SUB}^{SUP}EXT $$
                         \UQPSpaceH[sub][sup][ext] = UQPSPACE-HARD_{SUB}^{SUP}EXT
                          \verb|VQPSpaceC[sub][sup][ext]| = UQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                       • \AQPSpace[sub][sup][ext] = AQPSPACE_SUP_EXT
                          \verb|AQPSpaceE[sub][sup][ext]| = AQPSPACE-EASY_{SUB}^{SUP}EXT|
                          AQPSpaceH[sub][sup][ext] = AQPSPACE-HARD_{SUB}^{SUP}EXT
                         \verb|\AQPSpaceC[sub][sup][ext]| = AQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                   1018 \defcomcls{QPSpace}
                       • \ExpTime[sub][sup][ext] = EXPTIME_{SUB}^{SUP}EXT
\ExpTime, ...
                         \verb|\ExpTimeE[sub][sup][ext]| = EXPTIME-EASY_{SUB}^{SUP}EXT
                          \verb|\ExpTimeH[sub][sup][ext]| = EXPTIME-HARD_{SUB}^{SUP}EXT|
                         \ExpTimeC[sub][sup][ext] = EXPTIME-COMPLETE_{SUB}^{SUP}EXT
                       • \NExpTime[sub][sup][ext] = NEXPTIME_{SUB}^{SUP}EXT
                          \verb|\NExpTimeE[sub][sup][ext]| = NEXPTIME-EASY_{SUB}^{SUP}EXT
                          \NExpTimeH[sub][sup][ext] = NEXPTIME-HARD_{SUB}^{SUP}EXT
                         \NExpTimeC[sub][sup][ext] = NEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                       • \UExpTime[sub][sup][ext] = UEXpTIME_{SUB}^{SUP}EXT
                         \verb| UExpTimeE[sub][sup][ext] = UEXPTIME-EASY_{SUB}^{SUP}EXT
                         \verb|\UExpTimeH[sub][sup][ext]| = UEXPTIME-HARD^{SUP}_{SUB}EXT
                         \verb|\UExpTimeC[sub][sup][ext]| = UEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                        \bullet \ \texttt{\ AExpTime[sub][sup][ext]} = AExpTime[{}^{SUP}_{SUB}EXT \\
                          \texttt{AExpTimeE[sub][sup][ext]} = \text{AEXpTIME-EASY}^{\text{SUP}}_{\text{SUB}} \text{EXT}
                          \verb|\AExpTimeH[sub][sup][ext]| = AEXPTIME-HARD_{SUB}^{SUP}EXT
                         \verb|\AExpTimeC[sub][sup][ext]| = AEXPTIME-COMPLETE^{SUP}_{SUB}EXT
                   1019 \defcomcls{ExpTime}
```

•  $APSpace[sub][sup][ext] = APSPACE_{SUB}^{SUP}EXT$ 

1016 \defcomcls{PSpace}

 $\label{eq:apspace} $$ \operatorname{Sup}[\operatorname{sup}][\operatorname{ext}] = \operatorname{APSPACE-EASY}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{APSPACE-HARD}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{APSPACE-HARD}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{APSPACE-COMPLETE}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{APSPACE-COMPLETE}^{\operatorname{SUP}}_{\operatorname{SUP}} = \operatorname{APSPACE$ 

```
\ExpSpace, ...
                 • \ExpSpace[sub][sup][ext] = EXPSPACE_SUB_EXT
                  \verb|\ExpSpaceE[sub][sup][ext]| = EXPSPACE-EASY_{SUB}^{SUP}EXT
                   \verb|\ExpSpaceH[sub][sup][ext]| = ExpSpace-Hard_{SUB}^{SUP}EXT
                  \verb|\ExpSpaceC[sub][sup][ext]| = EXPSPACE-COMPLETE_{SUB}^{SUP}EXT
                 • \NExpSpace[sub][sup][ext] = NEXPSPACE_{SUB}^{SUP}EXT
                  \verb|NExpSpaceE[sub][sup][ext]| = NEXPSPACE-EASY_{SUB}^{SUP}EXT
                   \verb|\NExpSpaceH[sub][sup][ext]| = NEXPSPACE-HARD_{SUB}^{SUP}EXT
                   \NExpSpaceC[sub][sup][ext] = NEXPSPACE-COMPLETE_{SUB}^{SUP}EXT
                 • \UExpSpace[sub][sup][ext] = UExpSpace_{SUB}^{SUP}Ext
                   \UExpSpaceE[sub][sup][ext] = UEXpSpace-EASY_{SUB}^{SUP}EXT
                  \UExpSpaceH[sub][sup][ext] = UExpSpace-Hard_{Sup}^{SUP}EXT
                  \UExpSpaceC[sub][sup][ext] = UExpSpace-CompleteSup_Ext
                 • \triangle ExpSpace[sub][sup][ext] = AExpSpace_{SUB}^{SUP}EXT
                   AExpSpaceE[sub][sup][ext] = AExpSpace-Easy_{SUB}^{SUP}EXT
                   \verb|\AExpSpaceH[sub][sup][ext]| = AEXPSPACE-HARD_{SUB}^{SUP}EXT
                   \verb|\AExpSpaceC[sub][sup][ext]| = AEXPSPACE-COMPLETE^{SUP}_{SUB}EXT
              1020 \defcomcls{ExpSpace}
              \PH
                 1022 \defcomhrc{PH}
              1023 \fi
              1028 \ifgam@
              \SATG, ...
              1030 %% Satisfiability Games
              1031 \cmdtxtoparname{SATG}[Sat]
              1033 %% Validity Games
              1034 \cmdtxtoparname{VALG}[Val]
              1035
              1036 %% Evaluation Games
              1037 \cmdtxtoparname{EVLG}[Ev1]
              1039 %% Synthesis Games
              1040 \cmdtxtoparname{SYNG}[Syn]
              1042 %% Model-Checking Games
              1043 \cmdtxtoparname{MCG} [MC]
              1045 %% Ehrenfeucht-Fraisse Games
              1046 \cmdtxtoparname{EFG}[EF]
              \PlrSym, \OppSym
              1048 \mbox{ } \mbox{newcommand{\plrsym}{E}}
              1049 \cmdmthsym{Plr}[\plrsym]
              1050 \mbox{ \newcommand{\nopsym}{A}}
              1051 \cmdmthsym{Opp} [\oppsym]
\ArenaName, ... ...
              1052 \newcommand{\arenaname}{A}
              1053 \usrmthlatupp{Arena}{Name}{name}[\arenaname]
```

```
\PosSet, ... ...
                   1054 \mbox{ \newcommand{\possym}{v}}
                   1055 \mbox{ \newcommand{\posset}{Ps}}
                   1056 \verb|\cmdmthsetext{Pos}| [\verb|\possym|]|
                   1057 \verb|\cmdmthsymelm{ipos}[\possym_{I}]|
                   1058 \cmdmthsymelm{fpos}[\possym_{F}]
                   1059 \cmdmthset{PPos}[\posset_{\PlrSym}]
                   1060 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                   1061 \cmdmthset{OPos}[\posset_{\OppSym}]
                   1062 \mbox{ \cmdmthsymelm{opos}[\possym_{\cmb}]}
          \PlrFun
                   1063 \mbox{ \newcommand{\plrfun}{pl}}
                   1064 \cmdmthfun{plr}[\plrfun]
          \MovRel
                   1065 \newcommand{\movrel}{Mv}
                   1066 \cmdmthrel{Mov}[\movrel]
   \GameName, ...
                   1067 \newcommand{\gamename}{\Game}
                   1068 \usrmthlatupp{Game}{Name}{name}[\gamename]
          \WinSet ...
                   1069 \mbox{ \newcommand{\winset}{Wn}}
                   1070 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun ...
                   1071 \newcommand{\obsset}{Ob}
                   1072 \cmdmthset{Obs}[\obsset]
                   1073 \cmdmthfun{obs}
                   \PthSet, \pthFun
                   1075 \mbox{ \newcommand{\pthsym}{\pi}}
                   1076 \newcommand{\pthset}{Pth}
                   1077 \cmdmthsetext{Pth}[\pthset][\pthsym]
                   1078 \cmdmthfun{pth}
     \HstSet, ... ...
                   1079 \newcommand{\hstsym}{\rho}
                   1080 \newcommand{\hstset}{Hst}
                   1081 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1082 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1083 \verb|\cmdmthsymelm{phst}[\hstsym_{\protect}]|
                   1084 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1085 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                   1086 \cmdmthfun{hst}
\PlaySet,\playFun
                   1087 \newcommand{\playsym}{\pi}
                   1088 \newcommand{\playset}{Play}
                   1089 \cmdmthsetext{Play}[\playset][\playsym]
                   1090 \cmdmthfun{play}
     \StrSet, ...
                   1091 \newcommand{\strsym}{\sigma}
                   1092 \newcommand{\strset}{Str}
                   1093 \cmdmthsetext{Str}[\strset][\strsym]
                   1094 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1095 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1096 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1097 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
```

```
\PrfSet, \prfFun
                 1098 \verb|\newcommand{\prfsym}{\xi}
                 1099 \newcommand{\prfset}{Prf}
                 1100 \cmdmthsetext{Prf}[\prfset][\prfsym]
\preFun, \sucFun
                 1101 \newcommand{\prefun}{pre}
                 1102 \cmdmthoargfun{pre}[\prefun]
                 1103 \newcommand{\sucfun}{suc}
                1104 \cmdmthoargfun{suc}[\sucfun]
\entFun, \escFun
                1105 \newcommand{\entfun}{ent}
                 1106 \cmdmthoargfun{ent}[\entfun]
                 1107 \newcommand{\escfun}{esc}
                 1108 \cmdmthoargfun{esc}[\escfun]
\intFun, \outFun ...
                 1109 \newcommand{\intfun}{int}
                 1110 \cmdmthoargfun{int}[\intfun]
                 1111 \newcommand{\outfun}{out}
                 1112 \cmdmthoargfun{out}[\outfun]
\atrFun, \rchFun ...
                1113 \newcommand{\atrfun}{atr}
                1114 \cmdmthoargfun{atr}[\atrfun]
                 1115 \newcommand{\rchfun}{rch}
                1116 \cmdmthoargfun{rch}[\rchfun]
       \liftFun ...
                 1117 \newcommand{\liftfun}{lift}
                 1118 \cmdmthoargfun{lift}[\liftfun]
        \solFun
                 1119 \newcommand{\solfun}{sol}
                 1120 \cmdmthoargfun{sol}[\solfun]
                 \BG, ... ...
                1122 %% Buchi Games
                1123 \cmdtxtoparname{BG}
                1125 %% Co-Buchi Games
                1126 \cmdtxtoparname{CG}
                1127
                1128 %% Parity Games
                1129 \cmdtxtoparname{PG}
                 1131 %% Rabin Games
                1132 \cmdtxtoparname{RG}
                1134 %% Streett Games
                1135 \cmdtxtoparname{SG}
                 1137 %% Muller Games
                 1138 \cmdtxtoparname{MG}
                 \EvnSym, \OddSym
                 1140 \mbox{ } \mbox{newcommand{\evnsym}{0}}
                 1141 \cmdmthsym{Evn} [\evnsym]
                 1142 \mbox{newcommand{\oddsym}{1}}
                 1143 \cmdmthsym{Odd} [\oddsym]
```

```
\PrtSet, \prtFun ...
          1144 \newcommand{\prtsym}{p}
          1145 \mbox{ } \mbox{prtset}{Pr}
          1146 \cmdmthsetext{Prt}[\prtset][\prtsym]
          1147 \cmdmthfun{prt}[pr]
          \EG, ... ...
          1150 %% Energy Games
          1151 \cmdtxtoparname{EG}
          1153 %% Mean-Payoff Games
          1154 \cmdtxtoparname{MPG}
          1156 %% Discounted-Payoff Games
          1157 \cmdtxtoparname{DPG}
          \MaxSym, \MinSym
          1159 \newcommand{\maxsym}{\oplus}
          1160 \cmdmthsym{Max}[\maxsym]
          1161 \newcommand{\minsym}{\boxminus}
          1162 \verb|\cmdmthsym{Min}| [\verb|\minsym|]
\WghSet, \wghFun
          1163 \newcommand{\wghsym}{w}
          1164 \mbox{ \newcommand{\wghset}{Wg}}
          1165 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
          1166 \cmdmthfun{wgh} [wg]
          1168 \fi
          1173 \iflog@
          \BF, \QBF, ... ...
          1175 % Boolean Formulae
          1176 \cmdtxtoparname{BF}
          1177
          1178 % Quantified Boolean Formulae
          1179 \DeclareRobustCommand{\QBF}
          1180 \{\{\text{xtname}\{Q\}\}\}\}
          1181 \DeclareRobustCommand{\EBF}
          1182 {\ensuremath{\exists}\BF}
          1183 \DeclareRobustCommand{\UBF}
          1184 {\ensuremath{\forall}\BF}
          \LogSig, ... ...
          1186 \mbox{ } \mbox{logsig}{L}
          1187 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
```

```
\Tt, \Ff ...
                                              1188 \mbox{ \newcommand{\ttsym}{\top}}
                                              1189 \operatorname{Tt}{sym}[\operatorname{ttsym}]
                                              1190 \verb|\newcommand{\ffsym}{\bot}|
                                              1191 \usrmth{Ff}{}{sym}[\ffsym]
          \LNeg, \LNot
                                              1192 \newcommand{\lnegsym}{\neg}
                                              1193 \usrmth{LNeg}{}{luop}[\lnegsym]
                                              1194 \newcommand{\lnotsym}{\sim}
                                              1195 \usrmth{LNot}{}{luop}[\lnotsym]
          \LCon, \LDis ...
                                              1196 \newcommand{\lconsym}{\land}
                                              1197 \usrmth{LCon}{}{lbop}[\lconsym]
                                              1198 \newcommand{\ldissym}{\lor}
                                              1199 \usrmth{LDis}{}{lbop}[\ldissym]
          \LImp, \LCoi
                                              1200 \newcommand{\limpsym}{\rightarrow}
                                              1201 \usrmth{LImp}{}{lbop}[\limpsym]
                                              1202 \newcommand{\lcoisym}{\leftrightarrow}
                                              1203 \usrmth{LCoi}{}{lbop}[\lcoisym]
          \LExs, \LA11 ...
                                              1204 \verb|\newcommand{\lexssym}{\ensuremath{}} 
                                              1205 \usrmth{LExs}{}{luop}[\lexssym]
                                              1206 \mbox{ } {\mbox{command{\allsym}{\forall}}
                                              1207 \usrmth{LAll}{}{luop}[\lallsym]
             \APSet, ... ...
                                              1208 \mbox{ newcommand{\apsym}{p}}
                                              1209 \mbox{ \newcommand{\apset}{AP}}
                                              1210 \cmdmthsetext{AP}[\apset][\apsym]
                                              1211 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
                               \sub ...
                                              1212 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
                                              1213 \usrmth{Cnt}{}{sym}[C]
                                              1214 \usrmth{Qnt}{}{sym}[Q]
                                              1215 \usrmth{Sym}{}{sym}[\odot]
                \QAE, \QEA ...
                                              1216 \verb|\armth{QAE}{{}} sym} [\forall\exists]
                                              1217 \usrmth{QEA}{}{sym}[\exists\forall]
          \QntSet, ... ...
                                              1218 \newcommand{\qntsym}{\wp}
                                              1219 \mbox{ } \mbox{qntset}{Qn}
                                              1220 \verb|\cmdmthsetext{Qnt}| [\qntset] [\qntsym]|
        \free, \bound ...
                                              1221 \usrmth{free}{}{argfun}
                                              1222 \mbox{ \normalfooth bound}{{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfooth}{\normalfo
                \dep, \alt ...
                                              1223 \usrmth{dep}{}{argfun}
                                              1224 \usrmth{alt}{}{argfun}
```

```
\cnf, \dnf, ... ...
               1225 \cmdtxtabr{cnf}
               1226 \cmdtxtabr{dnf}
               1227 \cmdtxtabr{pnf}
               1228 \cmdtxtabr{nnf}
               \LogStr, ... ...
               1230 \mbox{ } \mbox{logstr}{L}
               1231 \usrmthlatupp{Log}{Str}{str}[\logstr]
  \ValSet, ... ...
               1232 \newcommand{\valsym}{\xi}
               1233 \newcommand{\valset}{Val}
               1234 \cmdmthsetext{Val}[\valset][\valsym]
  \AsgSet, ... ...
               1235 \newcommand{\asgsym}{\chi}
               1236 \newcommand{\asgset}{Asg}
               1237 \cmdmthsetext{Asg}[\asgset][\asgsym]
               \FOL, ... ...
               1239 % First-Order Logic
               1240 \cmdtxtoparname{FOL} [Fol]
               1241 \cmdtxtoparname{F0}[F0]
               1242
               1243 % Monadic First-Order Logic
               1244 \DeclareRobustCommand{\MFOL}
               1245 \quad \{\{\text{txtname}\{M\}\}\}\}
               1246 \DeclareRobustCommand{\MFO}
               1247 \{\{\text{txtname}\{M\}\}\}\}
               \VarSig, ... ...
               1249 \newcommand{\varsig}{V}
               1250 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
               1251 \newcommand{\varsym}{x}
               1252 \mbox{ \newcommand{\varset}{Vr}}
               1253 \cmdmthsetext{Var}[\varset][\varsym]
               1254 \usrmth{var}{}{argfun}[vr]
               1255 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
  \ConSig, ... ...
               1256 \newcommand{\consig}{C}
               1257 \usrmthlatupp{Con}{Sig}{sig}[\consig]
               1258 \mbox{ \newcommand{\consym}{c}}
               1259 \mbox{ } \mbox{conset}{Cn}
               1260 \cmdmthsetext{Con}[\conset][\consym]
               1261 \usrmth{con}{}{argfun}[cn]
  \FunSig, ... ...
               1262 \newcommand{\funsig}{F}
               1263 \verb|\usrmth|| a tupp{Fun}{Sig}{sig}[\funsig]
               1264 \mbox{ \newcommand{\funsym}{f}}
               1265 \mbox{ } \mbox{newcommand{\funset}{Fn}}
               1266 \cmdmthsetext{Fun}[\funset][\funsym]
               1267 \usrmth{fun}{}{argfun}[fn]
               1268 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
```

```
\TerSig, ... ...
             1269 \newcommand{\tersig}{T}
             1270 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
             1271 \newcommand{\tersym}{t}
             1272 \newcommand{\terset}{Tr}
             1273 \cmdmthsetext{Ter}[\terset][\tersym]
             1274 \usrmth{ter}{}{argfun}
\RelSig, ...
             1275 \mbox{ } \mbox{relsig}{R}
             1276 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
             1277 \newcommand{\relsym}{r}
             1278 \mbox{ } \mbox{newcommand{\relset}{R1}}
              1279 \cmdmthsetext{Rel}[\relset][\relsym]
              1280 \usrmth{rel}{}{argfun}[rl]
        \skm ...
             1281 \usrmth{skm}{}{argfun}
             \ConStr, ... ...
             1283 \newcommand{\constr}{C}
             1284 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr, ... ...
             1285 \newcommand{\funstr}{F}
             1286 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr, ... ...
             1287 \newcommand{\terstr}{T}
             1288 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
             1289 \newcommand{\relstr}{R}
             1290 \usrmthlatupp{Rel}{Str}{str}[\relstr]
             \DF, \IF, ... ...
             1292 % Dependence-Friendly Logic
              1293 \cmdtxtoparname{DF}
             1294
             1295 % Independence-Friendly Logic
             1296 \cmdtxtoparname{IF}
             1298 % Dependence/Independence-Friendly Logic
             1299 \cmdtxtoparname{DIF}
              1301 % Dependence Logic
              1302 \cmdtxtoparname{DL}
              1304 % Team Logic
              1305 \cmdtxtoparname{TL}
              1307 \% Alternating Dependence-Friendly Logic
              1308 \cmdtxtoparname{ADF}
              1310 % Alternating Independence-Friendly Logic
              1311 \cmdtxtoparname{AIF}
              1312
              1313 % Alternating Dependence/Independence-Friendly Logic
              1314 \cmdtxtoparname{ADIF}
```

```
\LEExs, \LAA11 ...
            1316 \newcommand{\leexssym}{\Sigma}
            1317 \usrmth{LEExs}{}{luop}[\leexssym]
            1318 \newcommand{\laallsym}{\Pi}
            1319 \usrmth{LAAll}{}{luop}[\laallsym]
            \SOL, ... ...
            1322 % Second-Order Logic
            1323 \cmdtxtoparname{SOL}[Sol]
            1324 \cmdtxtoparname{SO}
            1326\,\% Weak Second-Order Logic
            1327 \DeclareRobustCommand{\WSOL}
                 {{\txtname{W}}\SOL}
            1329 \DeclareRobustCommand{\WSO}
            1330
                 {{\txtname{W}}\SO}
            1332 % coWeak Second-Order Logic
            1333 \DeclareRobustCommand{\coWSOL}
            1334 \{\{\text{txtname}\{\text{coW}\}\}\}
            1335 \DeclareRobustCommand{\coWSO}
            1336 \{\{\text{txtname}\{\text{coW}\}\}\
            1337
            1338 % Monadic Second-Order Logic
            1339 \DeclareRobustCommand{\MSOL}
            1340 \quad \{\{\text{txtname}\{M\}\}\}\
            1341 \DeclareRobustCommand{\MSO}
                 {{\txtname{M}}\SO}
            1344 % Weak Monadic Second-Order Logic
            1345 \DeclareRobustCommand{\WMSOL}
                {{\txtname{W}}\MSOL}
            1347 \DeclareRobustCommand{\WMSO}
                {{\txtname{W}}\MSO}
            1348
            1349
            1350 % coWeak Monadic Second-Order Logic
            1351 \DeclareRobustCommand{\coWMSOL}
                 {{\txtname{coW}}\MSOL}
            1353 \DeclareRobustCommand{\coWMSO}
                {{\txtname{coW}}\MSO}
            \FVarSet, ... ...
            1356 \newcommand{\fvarsym}{x}
            1357 \newcommand{\fvarset}{FVr}
            1358 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
            1359 \newcommand{\svarsym}{X}
            1360 \newcommand{\svarset}{SVr}
            1361 \verb|\cmdmthsetext{SVar}| [\verb|\svarset|] [\| svarsym]|
```

```
\TL, \PL, ... ...
             1364 % Tree Logic
             1365 \cmdtxtoparname{TL}
             1367 % Weak Tree Logic
             1368 \DeclareRobustCommand{\WTL}
                 {\{\text{txtname}\{W\}}\TL\}
             1369
             1370
             1371 % coWeak Tree Logic
             1372 \DeclareRobustCommand{\coWTL}
                  {{\txtname{coW}}\TL}
             1375 % Monadic Tree Logic
             1376 \DeclareRobustCommand{\MTL}
             1377
                  {\{\text{txtname}\{M\}}\TL\}
             1378
             1379 % Weak Monadic Tree Logic
             1380 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1381
             1382
             1383 % coWeak Monadic Tree Logic
             1384 \DeclareRobustCommand{\coWMTL}
                  {{\txtname{coW}}\MTL}
             1386
             1387 % Path Logic
             1388 \cmdtxtoparname{PL}
             1389
             1390\,\% Weak Path Logic
             1391 \DeclareRobustCommand{\WPL}
             1392 \{\{\text{txtname}\{W\}\}\}\}
             1394 % coWeak Path Logic
             1395 \DeclareRobustCommand{\coWPL}
                 {\{\texttxtname\{coW\}}\PL\}
             1398 % Monadic Path Logic
             1399 \DeclareRobustCommand{\MPL}
             1400 \quad \{\{\texttt{\txtname}\{\texttt{M}\}\}\texttt{\tPL}\}
             1402 % Weak Monadic Path Logic
             1403 \DeclareRobustCommand{\WMPL}
                 {\{\text{txtname}\{W\}}\MPL\}
             1404
             1406 % coWeak Monadic Path Logic
             1407 \DeclareRobustCommand{\coWMPL}
                 {{\txtname{coW}}\MPL}
             \ML, \GML, ... ...
             1412 % Modal Logic
             1413 \cmdtxtoparname{ML}
             1415 % Graded Modal Logic
```

```
1416 \DeclareRobustCommand{\GML}
                 1417
                      {\{\text{txtname}\{G\}\}\setminus ML\}}
                1418
                1419 % Quantified Modal Logic
                1420 \DeclareRobustCommand{\QML}
                1421 \{\{\text{txtname}\{Q\}\}\}ML\}
                1422 \DeclareRobustCommand{\EML}
                1423 {\ensuremath{\exists}\ML}
                 1424 \DeclareRobustCommand{\UML}
                     {\ensuremath{\forall}\ML}
                 \Opr ...
                 1427 \usrmth{Opr}{}{sym}[Op]
   \DMod, \BMod
                 1428 \usrmth{DMod}{}{sym}[\Diamond]
                 1429 \operatorname{Mod}{{sym}[Box]}
     \Exs, \All ...
                1430 \DeclareRobustCommand{\Exs}[1]
                     {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}}
                 1432 \DeclareRobustCommand{All}[1]
                     {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
                 \KrpStr, ... ...
                 1435 \mbox{ \newcommand{\krpstr}{K}}
                 1436 \verb|\usrmth|| atupp{Krp}{Str}{str}[\krpstr]
   \WrlSet, ... ...
                1437 \newcommand{\wrlsym}{w}
                1438 \newcommand{\wrlset}{W}
                 1439 \cmdmthsetext{Wrl} [\wrlset] [\wrlsym]
                 1440 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel ...
                 1441 \newcommand{\accsym}{R}
                 1442 \cmdmthrel{Acc}[\accsym]
                1443 \cmdmthrel{Trn}[\accsym]
        \labFun ...
                 1444 \newcommand{\labsym}{\labsym}{\labsym}
                1445 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun ...
                1446 \providecommand{\pthsym}{\pi}
                 1447 \providecommand{\pthset}{Pth}
                 1448 \verb|\cmdmthsetext{Pth}| [\verb|\pthset|]| [\verb|\pthsym|]|
                 1449 \cmdmthfun{pth}
                 \MC, \GMC, ... ...
                1451 % Mu Calculus
                1452 \verb|\cmdtxtoparname{MC}| [\ensuremath{\mu}-Calculus]|
                 1453
                 1454 % Graded Mu Calculus
                 1455 \DeclareRobustCommand{\GMC}
                 1456
                      {\{\text{txtname}\{G\}\}\setminus MC\}}
                 1457
```

```
1458 % Quantified Mu Calculus
              1459 \DeclareRobustCommand{\QMC}
              1460 \{\{\text{txtname}\{Q\}\}\}\
              1461 \DeclareRobustCommand{\EMC}
              1462 {\ensuremath{\exists}\MC}
              1463 \DeclareRobustCommand{\UMC}
                  {\ensuremath{\forall}\MC}
              1464
              1466 % Alternation-Free Mu Calculus
              1467 \DeclareRobustCommand{\AFMC}
                   {{\txtname{AF}}\MC}
              1470 % Alternation-Free Graded Mu Calculus
              1471 \DeclareRobustCommand{\AFGMC}
                   {{\txtname{AF}}\GMC}
              1474 % Quantified Alternation-Free Mu Calculus
              1475 \DeclareRobustCommand{\QAFMC}
                   {\{\text{txtname}\{Q\}\}\setminus AFMC\}}
              1477 \DeclareRobustCommand{\EAFMC}
                   {\ensuremath{\exists}\AFMC}
              1479 \DeclareRobustCommand{\UAFMC}
              1480
                   {\ensuremath{\forall}\AFMC}
              1481
              \PTL, \LTL, ...
              1485 % Propositional Temporal Logic
              1486 \cmdtxtoparname{PTL}
              1487
              1488 % Quantified Propositional Temporal Logic
              1489 \DeclareRobustCommand{\QPTL}
                   {\{\text{txtname}\{Q\}\}\PTL}
              1491 \DeclareRobustCommand{\EPTL}
                   {\ensuremath{\exists}\PTL}
              1493 \DeclareRobustCommand{\UPTL}
              1494 {\ensuremath{\forall}\PTL}
              1496 % Linear Temporal Logic
              1497 \cmdtxtoparname{LTL}
              1499 % Quantified Linear Temporal Logic
              1500 \DeclareRobustCommand{\QLTL}
                   {\{\text{txtname}\{Q\}\}\setminus LTL\}}
              1502 \DeclareRobustCommand{\ELTL}
              1503 {\ensuremath{\exists}\LTL}
              1504 \DeclareRobustCommand{\ULTL}
                   {\ensuremath{\forall}\LTL}
              \X, ... ...
              1507 \usrmth{X}{}{sym}[X\,]
              1508 \usrmth{F}{}{sym}[F\,]
              1509 \usrmth{G}{}{sym}[G\,]
              1510 \usrmth{U}{}{sym}[\,U\,]
              1511 \usrmth{R}{}{sym}[\,R\,]
```

```
\Y, ... ...
                1512 \usrmth{Y}{}{sym}[G\,]
                1513 \mbox{usrmth}{P}{}{sym}[P\,]\let\SavePilcrow\P
                1514 \usrmth{H}{}{sym}[H\,]\let\SaveDoubleAcute\H
                1515 \usrmth{S}{}{sym}[\,S\,]\let\SaveSectionSymbol\S
                1516 \usrmth{B}{}{sym}[\,B\,]
                \PDL, \CTL, ... ...
                1520 % Propositional Dynamic Logic
                1521 \cmdtxtoparname{PDL}
                1522
                1523 % Computation Tree Logic
                1524 \cmdtxtoparname{CTL}
                1526 % Weak Computation Tree Logic
                1527 \DeclareRobustCommand{\WCTL}
                     {{\txtname{W}}\CTL}
                1530 % Quantified Computation Tree Logic
                1531 \verb|\DeclareRobustCommand{\QCTL}|
                     {\{\text{txtname}\{Q\}\}\CTL\}}
                1533 \DeclareRobustCommand{\ECTL}
                    {\ensuremath{\exists}\CTL}
                1535 \DeclareRobustCommand{\UCTL}
                     {\ensuremath{\forall}\CTL}
                1536
                1538 % Improved Computation Tree Logic
                1539 \cmdtxtoparname{CTLP}[CTL$^{+}$]
                1540
                1541 % Weak Improved Computation Tree Logic
                1542 \DeclareRobustCommand{\WCTLP}
                     {\{\text{txtname}\{W\}}\CTLP\}
                1543
                1544
                1545 % Quantified Improved Computation Tree Logic
                1546 \DeclareRobustCommand{\QCTLP}
                1547 {\{\text{txtname}\{Q\}\}\}\
                1548 \DeclareRobustCommand{\ECTLP}
                1549 {\ensuremath{\exists}\CTLP}
                1550 \DeclareRobustCommand{\UCTLP}
                    {\ensuremath{\forall}\CTLP}
                1553 % Full Computation Tree Logic
                1554 \cmdtxtoparname{CTLS}[CTL*]
                1556\ \% Weak Full Computation Tree Logic
                1557 \DeclareRobustCommand{\WCTLS}
                     {{\txtname{W}}\CTLS}
                1558
                1560 % Quantified Full Computation Tree Logic
                1561 \DeclareRobustCommand{\QCTLS}
                1562 {\{\text{Xtname}\{Q\}\}\}
                1563 \DeclareRobustCommand{\ECTLS}
                1564 {\ensuremath{\exists}\CTLS}
                1565 \DeclareRobustCommand{\UCTLS}
                     {\ensuremath{\forall}\CTLS}
```

```
\E, \A ...
            1568 \operatorname{Lsrmth}{E}{sym}
            1569 \usrmth{A}{}{sym}
            \ATL, ... ...
            1572 % Alternating Temporal Logic
            1573 \cmdtxtoparname{ATL}
            1574
            1575 % Weak Alternating Tree Logic
            1576 \DeclareRobustCommand{\WATL}
                 {\{\txtname{W}}\ATL\}
            1577
            1578
            1579 % Quantified Alternating Temporal Logic
            1580 \DeclareRobustCommand{\QATL}
                 {\{\text{Xtname}_{Q}\}}\ATL\}
            1582 \DeclareRobustCommand{\EATL}
            1583 {\ensuremath{\exists}\ATL}
            1584 \verb|\DeclareRobustCommand{\UATL}|
                {\ensuremath{\forall}\ATL}
            1585
            1586
            1587 % Improved Alternating Temporal Logic
            1588 \cmdtxtoparname{ATLP}[ATL$^{+}$]
            1590 % Weak Improved Alternating Tree Logic
            1591 \DeclareRobustCommand{\WATLP}
            1592
                 {{\txtname{W}}\ATLP}
            1594 % Quantified Improved Alternating Temporal Logic
            1595 \DeclareRobustCommand{\QATLP}
            1596 \{\{\text{txtname}\{Q\}\}\} \land \text{TLP}\}
            1597 \DeclareRobustCommand{\EATLP}
            1598 {\ensuremath{\exists}\ATLP}
            1599 \DeclareRobustCommand{\UATLP}
                 {\ensuremath{\forall}\ATLP}
            1602 % Full Alternating Temporal Logic
            1603 \cmdtxtoparname{ATLS}[ATL*]
            1605 % Weak Full Alternating Tree Logic
            1606 \DeclareRobustCommand{\WATLS}
                {\{\text{txtname}\{W\}}\ATLS\}
            1608
            1609 % Quantified Full Alternating Temporal Logic
            1610 \DeclareRobustCommand{\QATLS}
                 {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
            1612 \DeclareRobustCommand{\EATLS}
                {\ensuremath{\exists}\ATLS}
            1614 \DeclareRobustCommand{\UATLS}
            1615 {\ensuremath{\forall}\ATLS}
            \EExs, \AAll ...
            1617 \DeclareRobustCommand{\EExs}[1]
                {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
            1619 \DeclareRobustCommand{\AAll}[1]
                 {\mth{\argmid{\left[\left[}{\defval{#1}{\emptyset}}{\right]\right]}}}
```

```
\CGS ...
                                            1622 \cmdtxtname{CGS}
           \CGSStr, ... ...
                                            1623 \mbox{ \cgsstr}{G}
                                            1624 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
           \AgnSet, ... ...
                                            1625 \mbox{ } \mbox{newcommand{\agnsym}{a}}
                                            1626 \mbox{ \newcommand{\agnset}{Ag}}
                                            1627 \cmdmthsetext{Agn}[\agnset][\agnsym]
           \PosSet, ... ...
                                            1628 \providecommand{\possym}{v}
                                            1629 \providecommand{posset}{Ps}
                                            1630 \cmdmthsetext{Pos}[\posset][\possym]
                                            1631 \verb|\cmdmthsymelm{ipos}[\possym_{I}]|
                                            1632 \cmdmthsymelm{fpos}[\possym_{F}]
                                            1633 \cmdmthset{PPos}[\posset_{\PlrSym}]
                                            1634 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                                            1635 \cmdmthset{OPos}[\posset_{\OppSym}]
                                            1636 \cmdmthsymelm{opos}[\possym_{\OppSym}]
           \SttSet, ... ...
                                            1637 \mbox{ \newcommand{\sttsym}{s}}
                                            1638 \newcommand{\sttset}{St}
                                            1639 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                            1640 \cmdmthset{IStt}[\sttset_{I}]
                                            1641 \cmdmthsymelm{istt}[\sttsym_{I}]
                                            1642 \cmdmthset{FStt}[\sttset_{F}]
                                            1643 \cmdmthsymelm{fstt}[\sttsym_{F}]
           \ActSet, ... ...
                                           1644 \newcommand{\actsym}{c}
                                            1645 \mbox{ } \mbox{\ } 
                                            1646 \cmdmthsetext{Act}[\actset][\actsym]
           \DecSet, ... ...
                                            1647 \newcommand{\decsym}{d}
                                            1648 \mbox{ } \mbox{lewcommand{\decset}{Dc}}
                                            1649 \cmdmthsetext{Dec} [\decset] [\decsym]
                       \movFun ...
                                            1650 \mbox{ \newcommand{\movsym}{\tau}}
                                            1651 \cmdmthfun{mov} [\movsym]
           \HstSet, ... ...
                                            1652 \providecommand{\hstsym}{\rho}
                                            1653 \providecommand{\hstset}{Hst}
                                            1654 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                            1655 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                            1656 \verb|\cmdmthsymelm{phst}[\hstsym_{\P}]
                                            1657 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                            1658 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                                            1659 \cmdmthfun{hst}
\PlaySet,\playFun
                                             1660 \providecommand{\playsym}{\pi}
                                            1661 \providecommand{\playset}{Play}
                                            1662 \cmdmthsetext{Play}[\playset][\playsym]
                                            1663 \cmdmthfun{play}
```

```
\StrSet, ... ...
                  1664 \providecommand{\strsym}{\sigma}
                  1665 \providecommand{\strset}{Str}
                  1666 \cmdmthsetext{Str}[\strset][\strsym]
                  1667 \cmdmthset{PStr}[\strset_{\PlrSym}]
                  1668 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                  1669 \verb|\cmdmthset{OStr}[\strset_{\oppSym}]|
                  1670 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
\PrfSet, \prfFun
                  1671 \displaystyle \frac{1671 \providecommand{\prfsym}{\xi}}{}
                  1672 \providecommand{\prfset}{Prf}
                  1673 \cmdmthsetext{Prf}[\prfset][\prfsym]
                  \SL, ... ...
                  1675 % Strategy Logic
                  1676 \cmdtxtoparname{SL}
                  1677
                  1678 \DeclareRobustCommand{\ESL}
                  1679 {\ensuremath{\exists}\SL}
                  1680 \DeclareRobustCommand{\USL}
                       {\ensuremath{\forall}\SL}
                  1681
                  1682
                  1683 \DeclareRobustCommand{\FSL}
                       {\{\text{txtname}\{F\}\}\SL\}}
                  1684
                  1686 \DeclareRobustCommand{\EFSL}
                        {\ensuremath{\exists}\FSL}
                  1688 \DeclareRobustCommand{\UFSL}
                  1689
                        {\ensuremath{\forall}\FSL}
                  1690
                  1691 % One-Goal Strategy Logic
                  1692 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                        {\SL[#1][#2][1g\arglef{,}{#3}]}
                  1693
                  1694
                  1695 \DeclareRobustCommand{\EOGSL}
                        {\ensuremath{\exists}\OGSL}
                   1697 \DeclareRobustCommand{\UOGSL}
                  1698
                        {\ensuremath{\forall}\OGSL}
                  1700 \DeclareRobustCommand{\FOGSL}
                        {\{ \text{txtname}\{F\} \} \setminus GSL \}}
                  1701
                  1702
                  1703 \DeclareRobustCommand{\EFOGSL}
                  1704 {\ensuremath{\exists}\FOGSL}
                  1705 \DeclareRobustCommand{\UFOGSL}
                        {\ensuremath{\forall}\FOGSL}
                  1706
                  1708 % Conjunctive-Goal Strategy Logic
                  1709 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
                  1710
                        {\SL[#1][#2][cg\arglef{,}{#3}]}
                  1711
                  1712 \DeclareRobustCommand{\ECGSL}
                        {\ensuremath{\exists}\CGSL}
                  1714 \DeclareRobustCommand{\UCGSL}
                  1715
                        {\ensuremath{\forall}\CGSL}
                  1716
                  1717 \DeclareRobustCommand{\FCGSL}
                        {\{ \text{xtname}\{F\} \} \times GSL \}}
```

1720 \DeclareRobustCommand{\EFCGSL}

```
{\ensuremath{\exists}\FCGSL}
1722 \DeclareRobustCommand{\UFCGSL}
1723
     {\ensuremath{\forall}\FCGSL}
1725 % Disjunctive-Goal Strategy Logic
1726 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
1729 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
1731 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
1733
1734 \DeclareRobustCommand{\FDGSL}
      {\{\text{xtname}\{F\}\}\times GSL\}}
1735
1736
1737 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
1738
1739 \DeclareRobustCommand{\UFDGSL}
      {\ensuremath{\forall}\FDGSL}
1740
1741
1742 % Alternating-Goal Strategy Logic
1743 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1745
1746 \DeclareRobustCommand{\EAGSL}
      {\tt \{\ensuremath{\exists}\AGSL\}}
1748 \DeclareRobustCommand{\UAGSL}
1749
      {\ensuremath{\forall}\AGSL}
1750
1751 \DeclareRobustCommand{\FAGSL}
      {\{\text{xtname}\{F\}\}\}\}
1753
1754 \DeclareRobustCommand{\EFAGSL}
      {\ensuremath{\exists}\FAGSL}
1756 \verb|\DeclareRobustCommand{\UFAGSL}|
      {\ensuremath{\forall}\FAGSL}
1757
1758
1759 % Extended-Goal Strategy Logic
1760 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
1761
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1762
1763 \DeclareRobustCommand{\EEGSL}
      {\ensuremath{\exists}\EGSL}
1765 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
1766
1767
1768 \DeclareRobustCommand{\FEGSL}
      {\{\text{xtname}\{F\}\}\times GSL\}}
1769
1770
1771 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
1773 \DeclareRobustCommand{\UFEGSL}
      {\ensuremath{\forall}\FEGSL}
1776 % Boolean-Goal Strategy Logic
1777 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][bg\arglef{,}{#3}]}
1779
1780 \DeclareRobustCommand{\EBGSL}
      {\ensuremath{\exists}\BGSL}
1781
1782 \DeclareRobustCommand{\UBGSL}
      {\ensuremath{\forall}\BGSL}
```

```
1784
            1785 \DeclareRobustCommand{\FBGSL}
            1786
                 {\{\text{txtname}\{F\}\}\setminus xGSL\}}
            1787
            1788 \DeclareRobustCommand{\EFBGSL}
                 {\ensuremath{\exists}\FBGSL}
            1789
            1790 \DeclareRobustCommand{\UFBGSL}
                 {\ensuremath{\forall}\FBGSL}
            1791
            1792
            1793 % Nested-Goal Strategy Logic
            1794 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
                  {\SL[#1][#2][ng\arglef{,}{#3}]}
            1796
            1797 \DeclareRobustCommand{\ENGSL}
                 {\ensuremath{\exists}\NGSL}
            1799 \DeclareRobustCommand{\UNGSL}
                 {\ensuremath{\forall}\NGSL}
            1800
            1801
            1802 \DeclareRobustCommand{\FNGSL}
                 {\{ \text{xtname}\{F\} \} xGSL \}}
            1803
            1804
            1805 \DeclareRobustCommand{\EFNGSL}
                 {\ensuremath{\exists}\FNGSL}
            1807 \DeclareRobustCommand{\UFNGSL}
                 {\ensuremath{\forall}\FNGSL}
            1808
            1809
            1810\ \% Undefined-Goal Strategy Logic
            1811 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
            1812
                  {\SL[#1][#2][xg\arglef{,}{#3}]}
            1814 \DeclareRobustCommand{\EXGSL}
                  {\ensuremath{\exists}\XGSL}
            1816 \DeclareRobustCommand{\UXGSL}
                 {\ensuremath{\forall}\XGSL}
            1817
            1818
            1819 \DeclareRobustCommand{\FXGSL}
                  {\{\text{xtname}\{F\}\}\}\}
            1820
            1821
            1822 \DeclareRobustCommand{\EFXGSL}
                 {\ensuremath{\exists}\FXGSL}
            1824 \DeclareRobustCommand{\UFXGSL}
                 {\ensuremath{\forall}\FXGSL}
            \BndSet, ... ...
            1827 \newcommand{\bndsym}{\flat}
            1828 \newcommand{\bndset}{Bn}
            1829 \cmdmthsetext{Bnd} [\bndset] [\bndsym]
            1830 \usrmth{bnd}{}{argfun}
       \psn ...
            1831 \usrmth{psn}{}{argfun}
            \nxtFun
            1833 \newcommand{\nxtfun}{nxt}
            1834 \cmdmthfun{nxt}[\nxtfun]
```

```
1840 \ifaut@
                                                        \DFA, ... ...
                                                        1842 \verb|\cmdtxtoparname{DFA}\cmdtxtoparname{UFA}\cmdtxtoparname{AFA}|
                                                        1843
                                                        1844 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{AWA}| cmdtxtoparname{WA}\\cmdtxtoparname{AWA}| cmdtxtoparname{AWA}| cm
                                                        1845
                                                        1846 \verb|\cmdtxtoparname{DFW}\\ cmdtxtoparname{UFW}\\ cmdtxtoparname{UFW}\\ cmdtxtoparname{AFW}\\ 
                                                        1847 \cmdtxtoparname{DBW}\cmdtxtoparname{ABW}
                                                        1848 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{UCW}\cmdtxtoparname{ACW}|
                                                        1849 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{MPW}\cmdtxtoparname{APW}|
                                                        1850 \verb|\cmdtxtoparname{DRW}| cmdtxtoparname{URW} \verb|\cmdtxtoparname{ARW}| cmdtxtoparname{ARW}| cmdtxtoparname{ARW
                                                        1851 \verb|\cmdtxtoparname{DSW}\cmdtxtoparname{ASW}| cmdtxtoparname{ASW}| 
                                                        \GFG, \PD, ...
                                                       1853 \cmdtxtoparname{GFG}
                                                        1855 \cmdtxtoparname{PD}
                                                        1856
                                                        1857 %% ...
                                                        \AutName, ... ...
                                                        1859 \newcommand{\autname}{A}
                                                        1860 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                        1861 \newcommand{\autset}{Aut}
                                                        1862 \cmdmthset{Aut}[\autset]
                     \WAutSet ...
                                                        1863 \newcommand{\wautset}{WAut}
                                                        1864 \cmdmthset{WAut}[\wautset]
      \SttSet, ...
                                                       1865 \def\sttsym{q}
                                                        1866 \def\sttset{Q}
                                                        1867 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                        1868 \cmdmthset{IStt}[\sttset_{I}]
                                                        1869 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                        1870 \verb|\cmdmthset{FStt}| [\sttset_{F}]|
                                                        1871 \cmdmthsymelm{fstt}[\sttsym_{F}]
      \SymSet, ...
                                                        1872 \newcommand{\symsym}{\sigma}
                                                        1873 \newcommand{\symset}{\Sigma}
                                                        1874 \cmdmthsetext{Sym}[\symset][\symsym]
                        \trnFun
                                                        1875 \newcommand{\trnsym}{\delta}
                                                        1876 \cmdmthfun{trn}[\trnsym]
                                                        \LangFun
                                                        1878 \mbox{ } \mbox{langfun}{L}
                                                        1879 \cmdmthfun{Lang}[\langfun]
```

```
\WrdSet, ... ...
                    1880 \mbox{ \newcommand{\wrdsym}{w}}
                    1881 \newcommand{\wrdset}{Wr}
                    1882 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                    \DTA, ... ...
                    1884 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| \\
                    1886 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| cmdtxtoparname{AFT}| 
                    1887 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                    1888 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                    1889 \verb|\cmdtxtoparname{DPT}\cmdtxtoparname{MPT}\cmdtxtoparname{APT}|
                    1890 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{ART}| \\
                    1891 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| \\
                    1892 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}| \\
                    \TAutSet ...
                    1894 \verb|\newcommand{\tautset}{TAut}|
                    1895 \cmdmthset{TAut}[\tautset]
 \DirSet, ... ...
                    1896 \mbox{ \newcommand{\dirsym}{d}}
                    1897 \newcommand{\dirset}{\Lambda}
                    1898 \cmdmthsetext{Dir}[\dirset][\dirsym]
                    \TreeSet, ... ...
                    1900 \newcommand{\treesym}{T}
                    1901 \newcommand{\treeset}{Tr}
                    1902 \cmdmthsetext{Tree} [\treeset] [\treesym]
        \wotFun ...
                     1903 \newcommand{\wotfun}{wot}
                    1904 \cmdmthfun{wot}[\wotfun]
                    1905 \fi
                    1910 \iffrm@
                    1911 %...
                    1912 \fi
                    1917 \iffig@
                    1918 \RequirePackage{tikz}
                    1919 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}
                    1920 \tikzstyle{every node} =
                            [draw = none, fill = none, black, thin]
                     1922 \tikzstyle{every edge} +=
                     1923 [black, thick]
```

```
1924 \tikzstyle{noall} =
           [draw = none, fill = none]
        1926 \tikzstyle{nodraw} =
        1927 [draw = none, fill = white]
        1928 \tikzstyle{nofill} =
        1929 [draw = black, fill = none]
        1930 \ifwrpfig@
        1931 % Wrapfig Package
        1932 \RequirePackage{wrapfig}
        1933 \fi
        1934 \fi
        1939 \iftab@
      1940 %%...
        1946 \ifalg@
        1947 \RequirePackage[ruled,vlined]{algorithm2e}
         1948 \setlength{\algomargin}{1.25em}
         1949 \DontPrintSemicolon
        1950 \sl 0.25em \ 0.5em \
 \Signature ...
        1951 \SetKw{Signature}{signature}
 \Macro, ... ...
        1952 \SetKwFor{Macro}{macro}{}}
        1953 \SetKwFor{Function}{function}{}}
        1954 \SetKwFor{Procedure}{procedure}{}{}
        1955 \SetKwFor{Let}{let}{in}{}
\True, \False ...
        1956 \SetKw{True}{true}
        1957 \SetKw{False}{false}
 \From, ... ...
        1958 \SetKw{From}{from}
        1959 \SetKw{To}{to}
        1960 \SetKw{DownTo}{downto}
 \GoTo, ... ...
        1961 \SetKw{GoTo}{goto}
        1962 \SetKw{Break}{break}
        1963 \SetKw{Continue}{continue}
  \MIf, ... ...
        1964 \F\{MIf}\{MElse]f\}\{\#then}{\else \f}\{\else \f\}\{\else}
```

## 2 Change History

v0.0	v0.4
General: First public release $\dots 1$	General: Refactoring, corrections, and
v0.1	extensions
General: Algorithm tricks	v0.5
v0.10	General: Figure tricks
General: Small refinements $\dots \dots \dots$	v0.6
v0.11	General: Small refinements 1
General: Few additions and corrections $\dots$ 1	v0.7
v0.12	General: Refinements, corrections, and
General: New starred variants 1	extensions
v0.2	v0.8
General: Changes in auxiliary tricks 1	General: Few refinements and corrections $\dots$ 1
v0.3	v0.9
General: Few problems solved $\dots 1$	General: Small addition to 'Algorithm tricks' 1

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\log@false	885, 887, 889, 891, 893, 895 \mthcls, \ldots \cdot \cd	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594,
\log@false	885, 887, 889, 891, 893, 895 \mthcls, \ldots \cdot \cd	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607,
\log@false	885, 887, 889, 891, 893, 895 \mthcls, \ldots \cdot \cd	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620,
\log@false	885, 887, 889, 891, 893, 895 \mthcls, \ldots \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607,
\log@false	885, 887, 889, 891, 893, 895 \mthcls, \ldots \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620,
\log@false	885, 887, 889, 891, 893, 895 \mthcls, \ldots \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639,
\log@false	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653,
\log@false	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666,
\log@false	885, 887, 889, 891, 893, 895         \mthcls, \( \cdots\)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693,
\log@false	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004
Nog@false   56, 62, 88, 90     Nog@true   89     NogSig   1186, 1187     LogSig, □   1186     LogSpace, □   1014     NogStr   1230, 1231     LogStr, □   1013     LogTime, □   1013     Nowercase   558, 560     Nowercase   558, 560     Nowercase   558, 560     Nowercase   62, 71, 73     Macro, □   1952     Math@false   62, 71, 73     Math@true   72     Mathaccent   805     Mathbin   632     Mathbin   632     Mathbin   632     Mathcal   478     Matheus   216, 504     Mathfrak   530     Mathit   562, 656, 683     Mathnormal   601     Mathop   631	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004
\log@false	885, 887, 889, 891, 893, 895         \mthcls, \( \cdots \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004
Nog@false   56, 62, 88, 90     Nog@true   89     NogSig   1186, 1187     LogSig, □   1186     LogSpace, □   1014     NogStr   1230, 1231     LogStr, □   1013     LogTime, □   1013     Nowercase   558, 560     Nowercase   558, 560     Nowercase   558, 560     Nowercase   62, 71, 73     Macro, □   1952     Math@false   62, 71, 73     Math@true   72     Mathaccent   805     Mathbbo   215     Mathbin   632     Mathbin   632     Matheus   216, 504     Mathfrak   530     Mathit   562, 656, 683     Mathnormal   601     Mathop   631     Mathpzc   217, 517     Mathrel   638, 872	885, 887, 889, 891, 893, 895         \mthcls, \( \cdots\)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004
Nog@false   56, 62, 88, 90     Nog@true   89     Nogsig   1186, 1187     LogSig, □   1186     LogSpace, □   1014     Nogstr   1230, 1231     LogStr, □   1013     NogTime, □   1013     Nowercase   558, 560     Nowercase   558, 560     Nowercase   558, 560     Nowercase   62, 71, 73     Macro, □   1952     Math@false   62, 71, 73     Math@true   72     Mathaccent   805     Mathbbo   215     Mathbin   632     Mathbin   632     Mathbin   632     Matheus   216, 504     Mathrak   530     Mathit   562, 656, 683     Mathnormal   601     Mathop   631     Mathrel   638, 872     Mathring   797	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004 \newif 11, 16, 20, 24, 28, 32, 36, 40, 44, 48, 53, 59, 66, 71, 77, 83, 88, 93, 99, 105, 110, 115, 121, 132
Nog@false   56, 62, 88, 90     Nog@true   89     Nogsig   1186, 1187     LogSig, □   1186     LogSpace, □   1014     Nogstr   1230, 1231     LogStr, □   1013     NogTime, □   1013     Nowercase   558, 560     Nowercase   558, 560     Nowercase   558, 560     Nowercase   62, 71, 73     Macro, □   1952     Math@false   62, 71, 73     Math@true   72     Mathaccent   805     Mathbbo   215     Mathbin   632     Mathbin   632     Mathbin   632     Matheus   216, 504     Matheus   216, 504     Mathfrak   530     Mathit   562, 656, 683     Mathnormal   601     Mathop   631     Mathrel   638, 872     Mathring   797     Mathring   797     Mathrm   543	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004 \newif 11, 16, 20, 24, 28, 32, 36, 40, 44, 48, 53, 59, 66, 71, 77, 83, 88, 93, 99, 105, 110, 115, 121, 132 \newmth $\dots$ 347, 350, 352, 360
Nog@false   56, 62, 88, 90     Nog@true   89     Nogsig   1186, 1187     LogSig, □   1186     LogSpace, □   1014     Nogstr   1230, 1231     LogStr, □   1013     NogTime, □   1013     Nowercase   558, 560     Nowercase   558, 560     Nowercase   558, 560     Nowercase   62, 71, 73     Macro, □   1952     Math@false   62, 71, 73     Math@true   72     Mathaccent   805     Mathbbo   215     Mathbin   632     Mathbin   632     Mathbin   632     Matheus   216, 504     Mathrak   530     Mathit   562, 656, 683     Mathnormal   601     Mathop   631     Mathrel   638, 872     Mathring   797	885, 887, 889, 891, 893, 895         \mthcls, \( \)	355, 357, 359, 361, 363, 365, 396, 399, 401, 403, 405, 407, 409, 411, 413, 415, 424, 426, 428, 430, 432, 436, 438, 440, 442, 444, 449, 451, 453, 455, 457, 461, 463, 465, 467, 469, 480, 482, 484, 486, 488, 493, 495, 497, 499, 501, 506, 508, 510, 512, 514, 519, 521, 523, 525, 527, 532, 534, 536, 538, 540, 545, 547, 549, 551, 553, 555, 564, 566, 568, 570, 572, 577, 579, 581, 583, 585, 590, 592, 594, 596, 598, 603, 605, 607, 609, 611, 614, 617, 620, 623, 626, 633, 635, 639, 645, 647, 649, 651, 653, 658, 660, 662, 664, 666, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 989, 992, 997, 1002, 1004 \newif 11, 16, 20, 24, 28, 32, 36, 40, 44, 48, 53, 59, 66, 71, 77, 83, 88, 93, 99, 105, 110, 115, 121, 132

\newmthoarg <u>355</u> , 358	\pi 1075, 1087, 1446, 1660	\QPTL 1489
\newmthoargsty . 357, 375, 388	\playset 1088, 1089, 1661, 1662	(4111 1403
\newmthopar 363, 366	\PlaySet,\playFun . 1087, 1660	R
\newmthoparsty . $\frac{365}{379}$ , $\frac{392}{392}$	\playsym 1087, 1089, 1660, 1662	\raisebox 872
\newmthpar $\frac{359}{362}$ , $\frac{362}{364}$	\PlrFun <u>1063</u>	\rangle 817,
\newmthparsty $\frac{361}{361}$ , $\frac{377}{390}$	\plrfun 1063, \overline{1064}	819, 820, 822, 1431, 1618
\newmthsty $\frac{349}{349}$ , 371, 384	\PlrSym	\rbrace 827, 835
\newtxt <u>292</u> , <u>795</u> , 297, 305	1059, 1060, 1082, 1083,	\rceil 952
\newtxtarg 296, 299, 301	1094, 1095, 1633, 1634,	\rchfun 1115, 1116
\newtxtargsty <u>298</u> , 318, 331	1655, 1656, 1667, 1668	\relax 130
\newtxtoarg <u>300</u> , 303	\plrsym 1048, 1049	\relset 1278, 1279
\newtxtoargsty . $\underline{302}$ , $320$ , $333$	\PlrSym, _ \OppSym <u>1048</u>	\relsig 1275, 1276
\newtxtopar <u>308</u> , 311	\pm 908, 916, 924	\RelSig, <u>1275</u>
\newtxtoparsty . $\underline{310}$ , $324$ , $337$	\posset	\relstr 1289, 1290
\newtxtpar $304, 307, 309$	1055, 1056, 1059, 1061,	\RelStr,
\newtxtparsty $\underline{306}$ , $322$ , $335$	1629, 1630, 1633, 1635	\relsym 1277, 1279
\newtxtsty <u>294</u> , 316, 329	\PosSet, <u>1054</u> , <u>1628</u>	\RequirePackage 3, 5,
\NGSL 1794, 1798, 1800	\possym	6, 7, 141, 142, 143, 149,
\nlr <u>1965</u>	1054, 1056, 1057, 1058,	154, 159, 164, 179, 194,
\nlset 1967	1060, 1062, 1628, 1630,	200, 202, 1918, 1932, 1947
\noexpand	1631, 1632, 1634, 1636	\resp
\normalfont 423, 448, 460	\pow 840	\rfloor 948 \rho 1079, 1652
\not 775, 779, 783, 788, 792	\prefun \ 1101, 1102	\right 352, 360, 811,
\notcequiv	\preFun,_\\sucFun <u>1101</u> \prfset . 1099, 1100, 1672, 1673	812, 813, 814, 815, 816,
\notcoimplies 787	\PrfSet, \\prfFun <u>1098</u> , <u>1671</u>	817, 818, 819, 820, 821,
\notimplied	\prfsym . 1098, 1100, 1671, 1673	822, 825, 829, 833, 837,
\notimplies 774	\Primafacie	843, 946, 950, 1433, 1620
\num, 934	\primafacie 720	\Rightarrow 773, 775
\numcc 936	\prj 859	\rightarrow 1200
\numco 938	\ProcessOptions 130	\rightharpoonup 870, 873
\numoc 940	\providecommand	\rmfamily 326, 460
\numoo 942	1446, 1447, 1628, 1629,	\rng 854
	1110, 1111, 1020, 1020,	1116
\nxtFun	1652, 1653, 1660, 1661,	\Role
		•
\nxtFun <u>1833</u>	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset \ldots 1145, 1146	\Role <u>746</u>
\nxtFun	$\begin{array}{c} 1652, 1653, 1660, 1661,\\ 1664, 1665, 1671, 1672\\ \verb \prtset  \dots \dots 1145, 1146\\ \verb \prtSet  \dots > \underline{1144} \end{array}$	\Role
\nxtFun	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset 1145, 1146 \PrtSet, ⊔\prtFun 1144, \prtsym 1144, 1146	\Role
\nxtFun	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset 1145, 1146 \PrtSet, \( \rightarrow \prtFun \) 1144, 1146 \psn	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset 1145, 1146 \PrtSet, \( \prtFun \) 1144, 1146 \psn 1831 \PSpace, \( \preceq \)	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset 1145, 1146 \PrtSet, □\prtFun 1144, 1146 \prtsym	\Role
\nxtFun 1833 \nxtfun 1833, 1834 O \obsset 1071, 1072 \ObsSet, \( \)\obsFun 1071 \oddsym 1142, 1143 \odot 1215 \OGSL 1692, 1696, 1698, 1701	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset 1145, 1146 \PrtSet, □\prtFun 1144, 1146 \prtsym 1831 \PSpace, □	\Role \ \ \frac{746}{744} \ \text{role} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672  \prtset 1145, 1146  \PrtSet, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	Nole
\nxtFun 1833 \nxtfun 1833, 1834 O \obsset 1071, 1072 \ObsSet ,\obsFun 1071 \oddsym 1142, 1143 \odot 1215 \OGSL 1692, 1696, 1698, 1701 \Omega 887 \omega 885 \Omicron 895 \omicron 223, 893	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	Role
\nxtFun	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\nxtFun	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\nxtFun	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
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\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	Role
\nxtFun \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1652, 1653, 1660, 1661, 1664, 1665, 1671, 1672 \prtset	\Role

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