fmocdmac — FM's OCD LATEX Macro*

Fabio Mogavero fm@fabiomogavero.com

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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{conmtls}}| 
31 %% Hyper reference
32 \neq 0 
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
```

^{*}This document describes version v0.14 of the fmocdmac package, last revised 2023/02/05.

```
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 \ \texttt{\formula} \ \texttt{\formu
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#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#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]
                                242 {\empchk{#2}{#1#2#3}}
```

```
Separators: \argsep\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
              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]
                    {\if&#1&#3\else#1\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#larg\endcsname{\argsep{##1}{#4}{\empchk{##2}{{##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][\argmid{#5(}{#6}{)#7}]}
\newtxtargsty ... to do!
                                             \bullet \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1}_{Arg}[\mathtt{Ext2}] = \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1}_{Arg}(\mathrm{Ext2})^{\mathrm{up}}_{\operatorname{Sub}}[\mathtt{Ext1}_{\operatorname{Sub}}] = \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext1}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Sub}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Ext2}} = \mathtt{Ext2}_{\operatorname{Sub}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Ext2}} = \mathtt{Ext2}_{\operatorname{Ext2}}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Ext2}} = \mathtt{Ext2}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Ext2}} = \mathtt{Ext2}[\mathtt{Ext2}]^{\mathrm{up}_{\operatorname{Ext2}} = \mathtt{Ext2}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Ext2}} = \mathtt{Ext2}[\mathtt{Ext2}]^{\mathrm{up}}_{\operatorname{Ext2}} = \mathtt{Ext2}[
                                            • \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{\ensuremath{\text{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{sup}}(Arg)}"
                      \bullet \verb| \newtxtoargsty{\mbox{\newtxtoargsty}[\ttfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)" } \\
                  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][\argmid{#5[}{#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{SUE}}\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};
                                                                  \t Name [sub] [sup] [Ext] = Name_{SUB}^{SUP} Ext
                                                                  \txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_SUBEXT1(ARG)EXT2
                                                                  \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|^{SUP}(Arg)
                                                                  \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\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}; \t Arg} = cmdName (Arg)
                                                                  • \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                                  \t \t {cmdName} {Suf} {arg} [newName]; \t \t \t {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=]
                                                 350 \{ \left( \frac{\#2}{\#1} \right) \}
\newmtharg ... to do!
                                                          • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2" | Ext2" 
                                                          • \newmtharg[mathsf] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                           • \newmtharg[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                           • \newmtharg*[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name _{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
```

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351 \newcommand{\newmtharg}
                                                                                                                                                                                                                             352 {\@ifstar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                                                                                                             353 \newcommandx{\@newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                           354 \quad {\newnth[#1] $ $ [#3] [#4] [\argmid{#5}!\eft(){#6}{\right)\arglef{\!}{#7}}] }
                                                                                                                                                                                                                           355 \newcommandx{\@snewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                                                                 {\newmth[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
            \newmthargsty ... to do!
                                                                                                                                                                                                                                                            • \newmthargsty{mathrm}{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                                                                                                                                                                           \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                                             \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                                                             \bullet \texttt{\newmthargsty*\{mathrm\}\{Name\}[sub][sup][Ext1]\{Arg^{\{Ex^{\{Ex\}\}}\}[Ext2]} = "Name^{\sup_{sub}}Ext1(Arg^{Ex^{Ex}})Ext2" \} } \\ [Ext2] = "Name^{\sup_{sub}Ext1(Arg^{Ex^{Ex}})Ext2" } \\ [Ext2] = "Name^{\sup_{sub}Ext2" } \\ [Ext2] = "
                                                                                                                                                                                                                                                             \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                                             \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                             357 \newcommand{\newmthargsty}
                                                                                                                                                                                                                                                                                              {\@ifstar{\@snewmthargsty}{\@newmthargsty}}
                                                                                                                                                                                                                             359 \newcommandx{\@newmthargsty}[2][2=]
                                                                                                                                                                                                                                                                                              {\newmtharg[\defval{#2}{#1}]}
                                                                                                                                                                                                                             361 \newcommandx{\@snewmthargsty}[2][2=]
                                                                                                                                                                                                                                                                                         {\newmtharg*[\defval{#2}{#1}]}
                                       \newmthoarg ... to do!
                                                                                                                                                                                                                                                          • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                                                                                                                                                                                           \bullet \ \texttt{Name} \ [\texttt{Sub}] \ [\texttt{Sup}] \ [\texttt{Arg}^{\texttt{Ex}^{\texttt{Ex}}}] = \ \texttt{"Name} \ [\texttt{Arg}^{E_x^{E_x}}) "
                                                                                                                                                                                                                                                             \bullet \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{
                                                                                                                                                                                                                                                             \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \
                                                                                                                                                                                                                                                            • \newmthoarg*[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{E
                                                                                                                                                                                                                                                             \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                             363 \newcommand{\newmthoarg}
                                                                                                                                                                                                                                                                                     {\@ifstar{\@snewmthoarg}{\@newmthoarg}}
                                                                                                                                                                                                                             365 \newcommandx{\Onewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                                                                                   {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                                                                                                           367 \newcommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                                                                                     {\newmtharg*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                                                                                                                                                                                                           \bullet \ \texttt{\normalform} \{\texttt{Name}\} [\texttt{sub}] [\texttt{sup}] [\texttt{Arg}^* \{\texttt{Ex}\}\}] = "\texttt{Name}^{sup}_{sub} \Big(Arg^{Ex}^{Ex}\Big) "
                                                                                                                                                                                                                                                           \bullet \ \texttt{\name}_{sub}[\texttt{\name}] \ [\texttt{\name}] \ [\texttt{\name}]
                                                                                                                                                                                                                                                           \bullet \verb| \newmthoargsty{mathrm}[mathtt]{Name}[sub][sup][Arg^{\{Ex^{\{Ex\}}\}}] = \verb| ``Name| ^{sup}_{sub} \Big(Arg^{Ex^{Ex}}\Big)" 
                                                                                                                                                                                                                                                            • \newmthoargsty*{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                                                                                                                                                                                             \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                             369 \newcommand{\newmthoargsty}
                                                                                                                                                                                                                           370 {\@ifstar{\@snewmthoargsty}{\@newmthoargsty}}
                                                                                                                                                                                                                           371 \newcommandx{\@newmthoargsty}[2][2=]
                                                                                                                                                                                                                                                                             {\newmthoarg[\defval{#2}{#1}]}
                                                                                                                                                                                                                             373 \newcommandx{\@snewmthoargsty}[2][2=]
                                                                                                                                                                                                                                                                                     {\newmthoarg*[\defval{#2}{#1}]}
                                                    \newmthpar ... to do!
```

```
• \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par^{Ex^{2}}} [Ext2] = "Name_{sub}^{sup} Ext1 \left[ Par^{Ex^{Ex}} \right] Ext2"
                                                                                                                                                      • \newmthpar[mathsf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1 \left| Par^{Ex^{Ex}} \right| Ext2"
                                                                                                                                                      \bullet \mathtt{Name}^{sup}[\mathtt{Ext1}] \\ \{\mathtt{Par}^{\mathsf{Ex}^{\mathsf{Ex}}}\} \\ [\mathtt{Ext2}] = \mathtt{``Name}^{sup}_{sub} \\ Ext1[Par^{\mathsf{Ex}^{\mathsf{Ex}}}] \\ Ext2" \\ \exists t \in [\mathtt{Ext2}] \\ [\mathtt{
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                      • \newmthpar*[mathtt]{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"
                                                                                                                                    375 \newcommand{\newmthpar}
                                                                                                                                                                    {\@ifstar{\@snewmthpar}{\@newmthpar}}
                                                                                                                                  377 \newcommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                        {\text{[$4] [$4] [$4] [}42] [$4] [\argmid{$5'}\left[{\frac{46}{\right]}arglef{\'!}{$7}}]}
                                                                                                                                    379 \newcommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                        {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
       \newmthparsty ... to do!
                                                                                                                                                      • \newmthparsty{mathrm}{Name}[sub][sup] [Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}] Ext2"
                                                                                                                                                      \bullet \verb| \newmthparsty{mathrm}[mathsf]{Name}[sub][sup][Ext1]{Par^{Ex^{2}}}[Ext2] = "Name_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2" = "Name_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2
                                                                                                                                                      \bullet \mathtt{Name}_{sub} \texttt{[Sub] [Sup] [Ext1] \{Par^{\{Ex^{\{Ex\}\}}\}} \texttt{[Ext2]} = \mathtt{``Name}_{sub}^{sup} Ext1 \texttt{[} Par^{Ex^{Ex}} \texttt{]} Ext2 \texttt{''} } \texttt{[} Ext2 \texttt{''} \texttt{[} Ext2 \texttt{''} \texttt{[} Ext2 \texttt{]} \texttt{''} \texttt{[} Ext2
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                      381 \newcommand{\newmthparsty}
                                                                                                                                                                            {\@ifstar{\@snewmthparsty}{\@newmthparsty}}
                                                                                                                                    383 \newcommandx{\@newmthparsty}[2][2=]
                                                                                                                                                                   {\text{newmthpar}[\defval{#2}{#1}]}
                                                                                                                                    385 \newcommandx{\@snewmthparsty}[2][2=]
                                                                                                                                                                   {\newmthpar*[\defval{#2}{#1}]}
                       \newmthopar ... to do!
                                                                                                                                                      • \newmthopar[mathrm] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                                                                                                                     • \newmthopar*[mathrm]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                      • \newmthopar*[mathsf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                      387 \newcommand{\newmthopar}
                                                                                                                                                                   {\@ifstar{\@snewmthopar}{\@newmthopar}}
                                                                                                                                    389 \mbox{\em mandx}{\mbox{\em memory}}[5][1=, 3=, 4=, 5=]
                                                                                                                                                              {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                  391 \newcommandx{\communication} [5] [1=, 3=, 4=, 5=]
                                                                                                                                                                   {\newmthpar*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                                                                                     • \newmthoparsty{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                      \bullet \ \texttt{\ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ } \ \texttt{\ \ \ } \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ }
                                                                                                                                                      \bullet \verb| \name | sub| [sub] [sup] [Par^{Ex^*}] = "Name | sub| [Par^{Ex^{Ex}}] = "Name | sub| [Par^{Ex}] = "Name | sub| [Par^{Ex^{Ex}}] = "Name | sub| [Par^{Ex}] = "Name | sub| [Par^{Ex^{Ex}}] = "Name | sub| [Par^{Ex}] = "Name | sub| 
                                                                                                                                                      • \newmthoparsty*{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
```

```
 \bullet \verb| \newmthoparsty*{mathrm}[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                               393 \newcommand{\newmthoparsty}
                                               394 {\@ifstar{\@snewmthoparsty}{\@newmthoparsty}}
                                               395 \newcommandx{\@newmthoparsty}[2][2=]
                                               396 \quad \{\texttt{\newmthopar[\defval{#2}{\#1}]}\}
                                               397 \newcommandx{\@snewmthoparsty}[2][2=]
                                                              {\newmthopar*[\defval{#2}{#1}]}
\mthsubsup ... to do!
                                              399 \newcommand{\mthsubsup}[2]
                                                             {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                               \mth ... to do!
                                                       • \mth{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                        • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                        402 \neq 02 
                                              403 {\newmthsty{\mthsty}}
          \mtharg ... to do!
                                                       • \mtharg{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                        • \mtharg[mathbf] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                        • \mtharg*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                        \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  } \texttt{\ \ }} \texttt{
                                                        • \mtharg*[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name _{sub}^{sup} Ext1(Arg^{Ex^{Ex}})Ext2"
                                               404 \newcommand{\mtharg}
                                                             {\@ifstar{\newmthargsty*{\mthsty}}{\newmthargsty{\mthsty}}}
                                              405
       \mthoarg ... to do!
                                                        \bullet \ \texttt{\ \ } [sub] [sup] [Arg^{\{Ex^{\}}\}}] = "Name^{sup}_{sub} \Big(Arg^{Ex^{Ex}}\Big)" 
                                                       • \mthoarg[mathbf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                        \bullet \ \texttt{\normalfont{Mame}[sub][sup][Arg^{Ex^{}}Ex^{}\}]} = \texttt{\normalfont{Name}} \\ \left(Arg^{Ex^{Ex}}\right) \texttt{\normalfont{Mame}} \\ \left(Arg^{Ex}\right) \texttt{\
                                                        • \mthoarg*{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                        • \mthoarg*[mathbf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                        • \mthoarg*[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                               406 \newcommand{\mthoarg}
                                                             {\@ifstar{\newmthoargsty*{\mthsty}}{\newmthoargsty{\mthsty}}}
          \mthpar ... to do!
                                                        • \mthpar{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name^{sup}_{sub}Ext1|Par^{Ex^{Ex}}|Ext2"
                                                        • \mthpar[mathbf]{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1|Par^{Ex^{Ex}}|Ext2"
                                                        • \mthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2"
                                                        • \mthpar*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"
```

```
408 \newcommand{\mthpar}
                                       409 {\@ifstar{\newmthparsty*{\mthsty}}}{\newmthparsty{\mthsty}}}
        \mthopar ... to do!
                                              • \mthopar[mathbf] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                              • \mthopar[mathtt] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                               • \mthopar*[mathbf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                               • \mthopar*[mathtt] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                       410 \newcommand{\mthopar}
                                                   {\@ifstar{\newmthoparsty*{\mthsty}}{\newmthoparsty{\mthsty}}}
           \mthsty ... to do!
                                       412 \newcommand{\mthsty}
                                       413 {}
                                       \cmdmth ... to do!
                                              • \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                   \mathbf{Name} [sub] [sup] [Ext] = \mathbf{Name}_{sub}^{sup}Ext
                                       415 \newcommand{\cmdmth}[1]
                                       416 {\csdef{mth#1}{\newmthsty{mthsty#1}}}
  \cmdmtharg ... to do!
                                              • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                    \verb| \mathbf{Arg^{Ex^{Ex}}}| \ [\mathtt{Ext2}] = \mathtt{Name}_{sub}^{sup} Ext1 \ [\mathtt{Ext2}] = \mathtt{Name}_{sub}^{sup} Ext1 \ \Big(Arg^{Ex^{Ex}}\Big) Ext2
                                                   \verb|\mathragNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][ext1][ext2][ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                       417 \newcommand{\cmdmtharg}[1]
                                                  {\csdef{mtharg#1}%
                                       419
                                                             {\@ifstar{\newmthargsty*{mthsty#1}}}{\newmthargsty{mthsty#1}}}
\cmdmthoarg ... to do!
                                               • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                   \verb|\mbox| \mbox{ $\mathbb{E}_{sub}$ [sub] [sup] [Arg^{Ex^*}] = \mathbb{E}_{sub}^{sup}(Arg^{Ex^{Ex}}) } |
                                       420 \newcommand{\cmdmthoarg}[1]
                                                   {\csdef{mthoarg#1}%
                                                             {\@ifstar{\newmthoargsty*{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
                                       422
  \cmdmthpar ... to do!
                                               • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                    \verb|\mbox| $$\mathbf{Ext1} = \mathbf{Ex}^{sup} Ext1 = \mathbf{Ex}^{su
                                                   423 \newcommand{\cmdmthpar}[1]
                                                  {\csdef{mthpar#1}%
                                       425
                                                             {\@ifstar{\newmthparsty*{mthsty#1}}}{\newmthparsty{mthsty#1}}}
\cmdmthopar ... to do!
                                               • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                   \verb|\mbox| \verb|\mbox| thoparNewCmd*{\tt Name}[sub][sup][Par^{Ex^{Ex}}] = \verb|\mbox| ame | sub | [Par^{Ex^{Ex}}]
```

```
426 \newcommand{\cmdmthopar}[1]
                                  {\csdef{mthopar#1}%
                          128
                                       {\@ifstar{\newmthoparsty*{mthsty#1}}}\newmthoparsty{mthsty#1}}}
     \cmdmthall ... to do!
                               • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                  \verb|\mthNewCmd{Name}[sub][sup][Ext]| = \verb|\mame| sup | Ext|
                                  \verb|\mbox| \verb|\mbox| | [sup] [Arg^{\{Ex^{\{Ex\}}\}}] = \verb|\mbox| | [arg^{Ex^{Ex'}}) |
                                  \verb|\mbox| $$\mathbf{Ext1} = \mathbf{Ex}^{Ex} | Ext2 = \mathbf{Ex}^{Ex} | Ext2 = \mathbf{Ex}^{Ex} | Ext2 | Ext
                                  \verb|\mbox| \label{eq:lambda} $$ \mathbb{Sup} [Par^{Ex^{Ex}}] = \mathbb{N} = \mathbb{E}^{\sup} \left[ Par^{Ex^{Ex}} \right] $
                                  429 \newcommand{\cmdmthall}[1]
                                  {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthopar{#1}\
                          \usrmth ... to do!
                               • \label{suf} \ \cmdNameSuf = cmdName
                                  \usrmth{cmdName}{Suf}{arg};
                                  \label{eq:cmdName} $$\operatorname{Arg}^{Ex^{Ex}}$ = cmdName \left(Arg^{Ex^{Ex}}\right)$
                                  \verb|\cmdNameSuf*{Arg^{Ex^{Ex}}}| = cmdName(Arg^{Ex^{Ex}})
                                  \usrmth{cmdName}{Suf}{par};
                                  \verb|\cmdNameSuf*{Par^{Ex^{Ex^{2}}}}| = cmdName[Par^{Ex^{Ex^{2}}}]
                               \usrmth{cmdName}{Suf}{arg}[newName];
                                  \verb|\cmdNameSuf{Arg^{Ex^{}}}| = newName\Big(Arg^{Ex^{Ex}}\Big)
                                  \verb|\cmdNameSuf*{Arg^{Ex^{}}}| = newName(Arg^{Ex^{Ex}})
                                  \usrmth{cmdName}{Suf}{par}[newName];
                                  \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = newName \Big[ Par^{Ex^{Ex}} \Big]
                                  \verb|\cmdNameSuf*{Par^{Ex^{Ex}}}| = newName[Par^{Ex^{Ex}}]|
                           432 \newcommandx{\usrmth}[4][4=]
                          433 {\csdef{#1#2}{%
                                       \@ifstar%
                          434
                                          {\csname mth#3\endcsname*{\defval{#4}{#1}}}%
                          435
                                          {\csname mth#3\endcsname{\defval{#4}{#1}}}%
                          436
                          437
                          \usrmthlatlow ... to do!
                          439 \newcommandx{\usrmthlatlow}[4][4=]
                                 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
                          441 \newcommandx{\usrmthlatupp}[4][4=]
                                  {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                          443 \newcommandx{\usrmthlatlet}[4][4=]
                          444 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
```

```
\usrmthgrklow ... to do!
                                  445 \newcommandx{\usrmthgrklow}[4][4=]
                                  446 \qquad {\tt \{usrmth\{\#1\}\{\#2\}\{\#3\}[\#4] \setminus gqofgrklow\{\#1\#2\}\{mth\#3\}\}}
 \usrmthgrkupp ... to do!
                                  447 \newcommandx{\usrmthgrkupp}[4][4=]
                                          {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
 \usrmthgrklet ... to do!
                                  449 \newcommandx{\usrmthgrklet}[4][4=]
                                  450 \qquad {\tt \{ \usrmth \{ \#1 \} \{ \#3 \} [ \#4 ] \seqofgrklet \{ \#1 \#2 \} \{ \#th \#3 \} \} }
        \usrmthlow ... to do!
                                  451 \newcommandx{\usrmthlow}[4][4=]
                                  452 {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}
        \usrmthupp ... to do!
                                  453 \newcommandx{\usrmthupp}[4][4=]
                                          {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
        \usrmthlet ... to do!
                                  455 \newcommandx{\usrmthlet}[4][4=]
                                  461 \iftxtgen@
   \txtdef, ... to do!
                                       ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                        \bullet \ \texttt{\txtargdef{Name}[sub][sub][Ext1]{Arg}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2 
                                         \qquad \qquad \texttt{`txtpardef\{Name\}[sub][sup][Ext1]\{Par\}[Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2] 
                                  462 %% Style for Definitions
                                  463 \verb|\def|\newcommand{\txtstydef}{\normalfont\bfseries\em}|
        \cmdtxtdef ... to do!
                                       \cmdtxtdef{cmdName};
                                           \colon colon col
                                        • \cmdtxtdef{cmdName}[newName];
                                           464 \newcommandx{\cmdtxtdef}[2][2=]
                                  465 {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                                       • \cmdtxtargdef{cmdName};
                                           \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2|
                                       • \cmdtxtargdef{cmdName}[newName];
                                           \cmdName[sub][sub][ext1]{arg}[ext2] = newName^{sub}_{sub}ext1(arg)ext2
                                   466 \newcommandx{\cmdtxtargdef}[2][2=]
                                  467 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                       • \cmdtxtoargdef{cmdName};
                                           \verb|\cmdName[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                        \cmdtxtoargdef{cmdName}[newName];
                                           \verb|\cmdName[sub][sub][arg]| = newName_{sub}^{sub}(arg)
```

```
468 \newcommandx{\cmdtxtoargdef}[2][2=]
                        {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                      \cmdtxtpardef{cmdName};
                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                      \cmdtxtpardef{cmdName}[newName];
                        \cmdName[sub][sub][ext1]\{par\}[ext2] = newName_{sub}^{sub}ext1[par]ext2
                   470 \newcommandx{\cmdtxtpardef}[2][2=]
                   471 {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                      \cmdtxtopardef{cmdName};
                        \colon = cmdName[sub][sub][par] = cmdName[sub][par]
                      • \cmdtxtopardef{cmdName}[newName];
                        \cmdName[sub][sub][par] = newName_{sub}^{sub}[par]
                   472 \newcommandx{\cmdtxtopardef}[2][2=]
                   473 {\usrtxt{#1}{}{opardef}[#2]}
  \txtabr, ... to do!
                      • \text{txtabr{Name}}[\text{sub}][\text{sup}][\text{Ext}] = Name_{\text{sub}}^{\text{sup}}Ext
                      • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{\text{sub}}^{\text{sup}} Ext1(Arg)Ext2
                      • \txtparabr{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{\text{sub}}^{\text{sup}}Ext1[Par]Ext2
                   474 %% Style for Abbreviations
                   475 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
    \cmdtxtabr ... to do!
                      • \cmdtxtabr{cmdName};
                        \verb|\cmdName[sub][sub][ext]| = cmdName_{\rm sub}^{\rm sub}ext
                      • \cmdtxtabr{cmdName}[newName];
                        \colon dName[sub][sub][ext] = newName_{sub}^{sub}ext
                   476 \newcommandx{\cmdtxtabr}[2][2=]
                        {\usrtxt{#1}{}{abr}[#2]}
 \cmdtxtargabr ... to do!
                      • \cmdtxtargabr{cmdName};
                        \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{\rm sub}^{\rm sub}ext1(arg)ext2
                      • \cmdtxtargabr{cmdName} [newName];
                        \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{\text{sub}}^{\text{sub}}ext1(arg)ext2
                   478 \newcommandx{\cmdtxtargabr}[2][2=]
                        {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                      • \cmdtxtoargabr{cmdName};
                        \colon dName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      • \cmdtxtoargabr{cmdName}[newName];
                        \verb|\cmdName[sub][sub][arg]| = newName_{\rm sub}^{\rm sub}(arg)
                   480 \newcommandx{\cmdtxtoargabr}[2][2=]
                   481 {\usrtxt{#1}{}{oargabr}[#2]}
 \cmdtxtparabr ... to do!
                      • \cmdtxtparabr{cmdName};
                        \cmdName[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                      \cmdtxtparabr{cmdName} [newName];
                        \cmdName[sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1/par/ext2
                   482 \newcommandx{\cmdtxtparabr}[2][2=]
                   483 {\usrtxt{#1}{}{parabr}[#2]}
```

```
\cmdtxtoparabr ... to do!
                     \cmdtxtoparabr{cmdName};
                       \cmdName[sub][sub][par] = cmdName_{sub}^{sub}/par
                     • \cmdtxtoparabr{cmdName}[newName];
                       \cmdName[sub][sub][par] = newName_{sub}^{sub}/par
                  484 \newcommandx{\cmdtxtoparabr}[2][2=]
                       {\usrtxt{#1}{}{oparabr}[#2]}
                  \txtname, ... to do!
                     • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext}
                     • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                     • \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}
                  487 %% Style for Names
                  488 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
    \cmdtxtname ... to do!
                     \cmdtxtname{cmdName};
                       • \cmdtxtname{cmdName}[newName];
                       \cmdName[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                   489 \newcommandx{\cmdtxtname}[2][2=]
                  490 {\usrtxt{#1}{}{name}[#2]}
 \cmdtxtargname ... to do!
                     • \cmdtxtargname{cmdName};
                       \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(ARG) \operatorname{EXT2} $$
                     • \cmdtxtargname{cmdName}[newName];
                       491 \newcommandx{\cmdtxtargname}[2][2=]
                  492 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                     • \cmdtxtoargname{cmdName};
                       \colon = CMDNAME_{SUB}^{SUB}(ARG)
                     • \cmdtxtoargname{cmdName}[newName];
                       \verb|\cmdName[sub][sub][arg]| = NEWNAME^{SUB}_{SUB}(ARG)
                  493 \newcommandx{\cmdtxtoargname}[2][2=]
                       {\usrtxt{#1}{}{oargname}[#2]}
 \cmdtxtparname ... to do!
                     \cmdtxtparname{cmdName};
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub][sub][ext1]{par}[ext2]
                     • \cmdtxtparname{cmdName}[newName];
                       495 \newcommandx{\cmdtxtparname}[2][2=]
                       {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                     • \cmdtxtoparname{cmdName};
                       \label{eq:cmdNamesub} $$ \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR] $$
                     \cmdtxtoparname{cmdName}[newName];
                       \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                  497 \newcommandx{\cmdtxtoparname}[2][2=]
                  498 {\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
                  499 %% Style for Complexities
                  500 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
    \cmdtxtcom ... to do!
                     • \cmdtxtcom{cmdName}:
                       \c MDNAME_{SUB}^{SUB} [sub] [ext] = CMDNAME_{SUB}^{SUB}EXT
                     • \cmdtxtcom{cmdName} [newName];
                       \verb|\cmdName[sub][sub][ext]| = \verb|\NEWNAME| SUB | EXT|
                   501 \newcommandx{\cmdtxtcom}[2][2=]
                  502 {\usrtxt{#1}{}{com}[#2]}
 \cmdtxtargcom ... to do!
                     • \cmdtxtargcom{cmdName};
                       \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(ARG) \operatorname{EXT2} $$
                     • \cmdtxtargcom{cmdName} [newName];
                       \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                  503 \newcommandx{\cmdtxtargcom}[2][2=]
                  504 {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                     • \cmdtxtoargcom{cmdName};
                       \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                     \cmdtxtoargcom{cmdName}[newName];
                       \colon = NEWNAME_{SUB}^{SUB}(ARG)
                  505 \mbox{newcommandx{\cmdtxtoargcom}[2][2=]}
                  506 {\usrtxt{#1}{}{oargcom}[#2]}
 \cmdtxtparcom ... to do!
                     • \cmdtxtparcom{cmdName};
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                     • \cmdtxtparcom{cmdName} [newName];
                       \label{lem:lemma:equation:lemma:equation:ext1} $$ \operatorname{cmdName}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}][\operatorname{ext2}] = \operatorname{NEWNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}] \operatorname{EXT2} $$
                  507 \newcommandx{\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];
                       \colon = NEWNAME_{SUB}^{SUB}[PAR]
                  509 \newcommandx{\cmdtxtoparcom}[2][2=]
                  510 {\usrtxt{#1}{}{oparcom}[#2]}
                  511 \fi
                  516 \ifmthgen@
 \mbox{\mbox{mthname, ...}} to do!
                      \bullet \ \texttt{\baseline}[\texttt{Sub}][\texttt{Sup}][\texttt{Ext}] = \mathcal{NAME}^{sup}_{sub}Ext 
                     • \mthargname{NAME}[sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1 \left(Arg^{Ex^{Ex}}\right)Ext2
```

```
• \mthargname*{NAME}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                         • \mthparname{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                         • \mthparname*{NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}^{sup}_{sub} Ext1[Par^{Ex^{Ex}}] Ext2
                      518 \cmdmthall{name}\newcommand{\mthstyname}{\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}
                      519 \seqoflatupp{Name}{mthname}
     \cmdmthname ... to do!
                         • \cmdmthname{CMDNAME};
                            \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                         • \cmdmthname{cmdName}[NEWNAME];
                            \cmdNameName[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                      520 \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];
                            \verb|\cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}^{sub}_{sub}ext1(arq)ext2
                      522 \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)
                      524 \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];
                           \verb|\cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                      526 \newcommandx{\cmdmthparname}[2][2=]
                           {\usrmth{#1}{Name}{parname}[#2]}
                    ... to do!
\cmdmthoparname
                         \cmdmthoparname{CMDNAME};
                            \CMDNAMEName[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                         • \cmdmthoparname{cmdName}[NEWNAME];
                            \cmdNameName[sub] [sub] [par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                      528 \newcommandx{\cmdmthoparname}[2][2=]
                           {\usrmth{#1}{Name}{oparname}[#2]}
   \mthfam, ... to do!
                         • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N}\mathcal{AME}^{sup}_{sub}Ext
                         • \mthargfam{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2
```

 $\bullet \ \, \texttt{\baselinestar} \ \, \texttt{\baselinest$

```
530 %% Style for Families
                                                                 531 \mbox{ \cmdmthall{fam}\newcommand{\mbox{\mbox{\cmthstyfam}}{\mbox{\cmdmthscr}}}
               \AFam, ... to do!
                                                             \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}
                                                                 532 \seqoflatupp{Fam}{mthfam}
               \cmdmthfam ... to do!
                                                                           \cmdmthfam{CMDNAME};
                                                                                  \verb|\CMDNAMEFam[sub][sub][ext]| = \mathscr{CMDNAMEFam}[sub][sub][ext]| = \mathscr{CMDNAMEFam}[sub][sub][ext]|
                                                                           • \cmdmthfam{cmdName}[NEWNAME];
                                                                                  \verb|\cmdNameFam[sub][sub][ext]| = \mathscr{NEWNAME}_{sub}^{sub}ext
                                                                 533 \newcommandx{\cmdmthfam}[2][2=]
                                                                 534 {\usrmth{#1}{Fam}{fam}[#2]}
   \cmdmthargfam ... to do!
                                                                           • \cmdmthargfam{CMDNAME};
                                                                                   \label{lem:composition} $$ \CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][
                                                                           • \cmdmthargfam{cmdName}[NEWNAME];
                                                                                  \cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                                                 535 \newcommandx{\cmdmthargfam}[2][2=]
                                                                 536 {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                                                                           • \cmdmthoargfam{CMDNAME};
                                                                                  \CMDNAMEFam[sub][sub][arg] = \mathscr{CMDNAMEFam}[sub](arq)
                                                                           \cmdmthoargfam{cmdFam}[NEWNAME];
                                                                                  \cmbox{cmdFamFam[sub] [sub] [arg]} = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                                                                  537 \newcommandx{\cmdmthoargfam}[2][2=]
                                                                 538 {\usrmth{#1}{Fam}{oargfam}[#2]}
   \cmdmthparfam ... to do!
                                                                           \cmdmthparfam{CMDNAME};
                                                                                  \CMDNAMEFam[sub][sub][ext1]\{par\}[ext2] = \mathcal{CMDNAMEFam}[sub][sub][ext1][par]ext2
                                                                           • \cmdmthparfam{cmdName}[NEWNAME];
                                                                                  \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1[par]ext2
                                                                  539 \newcommandx{\cmdmthparfam}[2][2=]
                                                                 540 {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                                                                           • \cmdmthoparfam{CMDNAME};
                                                                                  \verb|\CMDNAMEFam[sub][sub][par]| = \mathscr{CMDNAMEFam}[sub][par]|
                                                                           • \cmdmthoparfam{cmdFam}[NEWNAME];
                                                                                  \verb|\cmdFamFam[sub][sub][par]| = \mathscr{NEWNAME}^{sub}_{sub}[par]
                                                                  541 \newcommandx{\cmdmthoparfam}[2][2=]
                                                                 542 {\usrmth{#1}{Fam}{oparfam}[#2]}
       \mthcls, ... to do!
                                                                           • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                                                           \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{
                                                                           • \mthargcls*{NAME}[sub][sup][Ext1]{\operatorname{Arg}^{\operatorname{Ex}^{\operatorname{Ex}}}}[Ext2] = \operatorname{NAME}^{\sup}_{\sup} Ext1(\operatorname{Arg}^{\operatorname{Ex}^{\operatorname{Ex}}})Ext2
                                                                           • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1|Par^{Ex^{Ex}}|Ext2
                                                                           • \mthparcls*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = NAME^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
```

```
543 %% Style for Classes
                                                                    544 \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}
                                                                    545 \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
                                                                     546 \newcommandx{\cmdmthcls}[2][2=]
                                                                    547 {\usrmth{#1}{Cls}{cls}[#2]}
   \cmdmthargcls ... to do!
                                                                               • \cmdmthargcls{CMDNAME};
                                                                                      \verb|\CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \verb|\CMDNAME| sub| ext1(arg)ext2|
                                                                                • \cmdmthargcls{cmdName}[NEWNAME];
                                                                                      \label{lem:lemma:energy:ext2} $$ \operatorname{CmdNameCls[sub][sub][ext1]} = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg)ext2$
                                                                      548 \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)
                                                                     550 \newcommandx{\cmdmthoargcls}[2][2=]
                                                                                      {\usrmth{#1}{Cls}{oargcls}[#2]}
   \cmdmthparcls ... to do!
                                                                               • \cmdmthparcls{CMDNAME};
                                                                                       \verb|\CMDNAMECls[sub][sub][ext1]{par}[ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1[par]ext2|
                                                                                • \cmdmthparcls{cmdName}[NEWNAME];
                                                                                      \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameCls[sub][sub][ext1][par]ext2|
                                                                     552 \newcommandx{\cmdmthparcls}[2][2=]
                                                                                     {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                               • \cmdmthoparcls{CMDNAME};
                                                                                      \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                                • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                                      \verb|\cmdClsCls[sub][par]| = \verb|NEWNAME|_{sub}^{sub}[par]|
                                                                     554 \newcommandx{\cmdmthoparcls}[2][2=]
                                                                    555 \quad \{\usrmth{\#1}{Cls}{oparcls}{\#2}\}
       \mthsig, ... to do!
                                                                               • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}_{ame_{sub}}^{sup}Ext
                                                                               • \mthargsig{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                \bullet \ \texttt{\normalfont{Mane}[sub][sup][Ext1]{Arg^{Ex^{2}}}} [\texttt{Ext2}] = \mathcal{N} ame_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2 = \mathcal{N} ame_{sub}^{sup} Ext2 = \mathcal{N} ame_{sub}^{sub} Ext2 = \mathcal{N} ame_
                                                                                • \mthparsig{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                \bullet \  \  \, \texttt{\bare} = \texttt{\bare} =
                                                                      556 %% Style for Signatures
```

557 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}

```
\aSig, ... to do!
                                                                           a,\ b,\ c,\ d,\ e,\ f,\ g,\ h,\ i,\ j,\ k,\ l,\ m,\ n,\ o,\ p,\ q,\ r,\ s,\ t,\ u,\ v,\ w,\ \chi,\ y,\ z
                                                                           \mathcal{A},~\mathcal{B},~\mathcal{C},~\mathcal{D},~\mathcal{E},~\mathcal{F},~\mathcal{G},~\mathcal{H},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~\mathcal{Q},~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~X,~\mathcal{Y},~\mathcal{Z}
                                                                           \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                               558 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
                  \cmdmthsig ... to do!
                                                                                           • \cmdmthsig{cmdName};
                                                                                                   \colon d [sub] [sub] [ext] = cmdName_{sub}^{sub}ext
                                                                                           • \cmdmthsig{cmdName}[NewName];
                                                                                                   \colon colon col
                                                                                559 \newcommandx{\cmdmthsig}[2][2=]
                                                                               560 {\usrmth{#1}{Sig}{sig}[#2]}
    \cmdmthargsig ... to do!
                                                                                           • \cmdmthargsig{cmdName};
                                                                                                   \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                           • \cmdmthargsig{cmdName}[NewName];
                                                                                                   \cmdNameSig[sub][sub][ext1]{arg}[ext2] = \mathcal{N}ewName_{sub}^{sub}ext1(arg)ext2
                                                                                561 \newcommandx{\cmdmthargsig}[2][2=]
                                                                               562 {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                                           • \cmdmthoargsig{cmdName};
                                                                                                   \colon = cmdNameSig[sub][sub][arg] = cmdNamesub(arg)
                                                                                           • \cmdmthoargsig{cmdSig}[NewName];
                                                                                                   \colored{cmdSigSig[sub][sub][arg]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}(arg)
                                                                                563 \newcommandx{\cmdmthoargsig}[2][2=]
                                                                               564 {\usrmth{#1}{Sig}{oargsig}[#2]}
    \cmdmthparsig ... to do!
                                                                                           • \cmdmthparsig{cmdName};
                                                                                                   \cmdNameSig[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                           • \cmdmthparsig{cmdName}[NewName];
                                                                                                   \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                                                                565 \newcommandx{\cmdmthparsig}[2][2=]
                                                                                                  {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                                           \cmdmthoparsig{cmdName};
                                                                                                   \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                           • \cmdmthoparsig{cmdSig}[NewName];
                                                                                                   \colored{cmdSigSig[sub][sub][par]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}[par]
                                                                                567 \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^{Ex^{Ex}}} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1 \left(Arg^{Ex^{Ex}}\right) Ext2
                                                                                           \bullet \  \  \, \texttt{\bareauther}[Sub][Sub][Ext1] \{ \texttt{Arg^{\{Ex^{}\}}} \} [Ext2] = \mathfrak{Name}^{sup}_{sub} Ext1 (Arg^{Ex^{Ex}}) Ext2 \} = \mathfrak{Name}^{sup}_{sub} Ext2 + \mathfrak{Name}^{sub}_{sub} Ext2 + 
                                                                                           \bullet \ \texttt{\t Name} \ [\mathtt{Sup}] \ [\mathtt{Ext1}] \ \{\mathtt{Par}^{\{\mathtt{Ex}^{*}\}}\} \ [\mathtt{Ext2}] \ = \ \mathfrak{Name}_{sub}^{sup} Ext1 \ \Big[ Par^{Ex^{Ex}} \Big] Ext2
                                                                                           • \mthparstr*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                569 %% Style for Structures
                                                                                570 \mbox{ \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mb
```

```
\aStr, ... to do!
                                                                                     \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}, \mathfrak{g}
                                                                                    \mathfrak{A},\,\mathfrak{B},\,\mathfrak{C},\,\mathfrak{D},\,\mathfrak{E},\,\mathfrak{F},\,\mathfrak{G},\,\mathfrak{H},\,\mathfrak{I},\,\mathfrak{I},\,\mathfrak{K},\,\mathfrak{L},\,\mathfrak{M},\,\mathfrak{N},\,\mathfrak{D},\,\mathfrak{P},\,\mathfrak{Q},\,\mathfrak{R},\,\mathfrak{G},\,\mathfrak{T},\,\mathfrak{U},\,\mathfrak{V},\,\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
                                                                                        571 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
                     \cmdmthstr ... to do!
                                                                                                      \cmdmthstr{cmdName};
                                                                                                               \colon d [sub] [sub] [ext] = cmd 	ext{Mame}_{sub}^{sub} ext
                                                                                                      • \cmdmthstr{cmdName} [NewName];
                                                                                                               \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{NewName}_{sub}^{sub} ext
                                                                                          572 \newcommandx{\cmdmthstr}[2][2=]
                                                                                         573 {\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
                                                                                         574 \newcommandx{\cmdmthargstr}[2][2=]
                                                                                         575 {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                                                      • \cmdmthoargstr{cmdName};
                                                                                                               \colon d [sub] [sub] [arg] = cmd Mame_{sub}^{sub}(arg)
                                                                                                      • \cmdmthoargstr{cmdStr}[NewName];
                                                                                                               \color{cmdStrStr[sub][sub][arg]} = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                                                          576 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                                         577 {\usrmth{#1}{Str}{oargstr}[#2]}
     \cmdmthparstr ... to do!
                                                                                                      • \cmdmthparstr{cmdName};
                                                                                                               \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                                                      • \cmdmthparstr{cmdName} [NewName];
                                                                                                               \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                                                         578 \newcommandx{\cmdmthparstr}[2][2=]
                                                                                                              {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                                                      • \cmdmthoparstr{cmdName};
                                                                                                                \cmdNameStr[sub] [sub] [par] = cmdMame_{sub}^{sub}[par]
                                                                                                      • \cmdmthoparstr{cmdStr}[NewName];
                                                                                                               \colored \
                                                                                          580 \newcommandx{\cmdmthoparstr}[2][2=]
                                                                                                            {\usrmth{#1}{Str}{oparstr}[#2]}
          \mthset, ... to do!
                                                                                                      • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                                      • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                      \bullet \  \, \texttt{Name} \  \, \texttt{[sub] [sup] [Ext1] \{Arg^{\{Ex^{\{Ex\}\}}\}} \  \, \texttt{[Ext2]} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex^{Ex}})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex})Ext2} \  \, = \  \, \texttt{Name} \  \, \underbrace{Ext1(Arg^{Ex})Ext2} \  \, = \  \, \texttt{Name} \  \, = \
                                                                                                      \bullet \  \, \texttt{\name} \  \, \texttt{\name
                                                                                                      • \mthparset*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                          582 %% Style for Sets
                                                                                          583 \cmdmthall{set}\newcommand{\mthstyset}{\mathrm}
```

```
\aSet, ... to do!
                                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                   \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                   A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                    584 \seqoflet{Set}{mthset}
        \cmdmthset ... to do!
                                          \cmdmthset{cmdName};
                                              \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                          • \cmdmthset{cmdName}[NewName];
                                              \verb|\cmdNameSet[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                     585 \newcommandx{\cmdmthset}[2][2=]
                                             {\usrmth{#1}{Set}{set}[#2]}
  \cmdmthargset ... to do!
                                          • \cmdmthargset{cmdName};
                                              \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                          • \cmdmthargset{cmdName}[NewName];
                                              \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                     587 \newcommandx{\cmdmthargset}[2][2=]
                                     588 {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                                          • \cmdmthoargset{cmdName};
                                              \verb|\cmdNameSet[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                          • \cmdmthoargset{cmdSet}[NewName];
                                              \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                     589 \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];
                                              \colored Name Set[sub][sub][ext1]{par}[ext2] = New Name_{sub}^{sub} ext1[par]ext2
                                     591 \newcommandx{\cmdmthparset}[2][2=]
                                              {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                                          • \cmdmthoparset{cmdName};
                                              \colon cond Name Set [sub] [sub] [par] = cmd Name <math>_{sub}^{sub} [par]
                                          • \cmdmthoparset{cmdSet}[NewName];
                                              \colored \
                                     593 \newcommandx{\cmdmthoparset}[2][2=]
                                             {\usrmth{#1}{Set}{oparset}[#2]}
  \cmdmthsetext ... to do!
                                    595 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                              {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                               \usrmthlet{\thestring}{Sym}{sym}
                                     598
                                                  [\defval{#3}{\defval{\empchk{#2}{\lowercase{#2}}}}{\thestring}}]%
                                             \usrmthlet{\thestring}{Elm}{elm}
                                    600
                                                     [\defval{#3}{\defval{mpchk{#2}}{\defval{mpchk{#2}}}} \\
    \mthrel, ... to do!
                                          • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                          • \mthargrel{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2
```

```
• \mthargrel*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                \bullet \  \  \, \texttt{\barrel{Name}[sub][sub][Ext1]{Par^{Ex^{}}}} [Ext2] = Name_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 = Name_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 = Name_{sub}^{sub} Ext2 = Name_{su
                                                                 601 %% Style for Relations
                                                         602 \cmdmthall{rel}\newcommand{\mthstyrel}{\mathit}
             \arrowvert \aRel, ... to do!
                                                     a,\;b,\;c,\;d,\;e,f,\;g,\;h,\;i,\;j,\;k,\;l,\;m,\;n,\;o,\;p,\;q,\;r,\;s,\;t,\;u,\;v,\;w,\;x,\;y,\;z
                                                      A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                      A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                                                        603 \seqoflet{Rel}{mthrel}
             \cmdmthrel ... to do!
                                                                 • \cmdmthrel{cmdName};
                                                                       \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                 • \cmdmthrel{cmdName}[NewName];
                                                                       \verb|\cmdNameRel[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                                         604 \newcommandx{\cmdmthrel}[2][2=]
                                                                      {\usrmth{#1}{Rel}{rel}[#2]}
   \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
                                                         606 \newcommandx{\cmdmthargrel}[2][2=]
                                                                     {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                                                 • \cmdmthoargrel{cmdName};
                                                                       \colon dNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                 • \cmdmthoargrel{cmdRel}[NewName];
                                                                       \colon dRelRel[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                         608 \newcommandx{\cmdmthoargrel}[2][2=]
                                                                       {\usrmth{#1}{Rel}{oargrel}[#2]}
   \cmdmthparrel ... to do!
                                                                 • \cmdmthparrel{cmdName};
                                                                       \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                 • \cmdmthparrel{cmdName}[NewName];
                                                                       \verb|\cmdNameRel[sub][sub][ext1][par][ext2]| = NewName_{sub}^{sub}ext1[par]ext2|
                                                         610 \newcommandx{\cmdmthparrel}[2][2=]
                                                        611 {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                                                 • \cmdmthoparrel{cmdName};
                                                                       \verb|\cmdNameRel[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                                                 • \cmdmthoparrel{cmdRel}[NewName];
                                                                       \cmdRelRel[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                                                         612 \newcommandx{\cmdmthoparrel}[2][2=]
                                                        613 {\usrmth{#1}{Rel}{oparrel}[#2]}
      \mthfun, ... to do!
                                                                 • \mathbb{E}_{sub}[sub][sup][Ext] = \mathsf{Name}_{sub}^{sup}Ext
                                                                 \bullet \  \  \, \texttt{\bar{Lxt1}[Arg^{Ex^{Ex}}]} \  \  \, [\texttt{Ext2}] \  \  \, = \  \  \, \texttt{\bar{Name}} \  \  \, [\texttt{Ext2}] \  \  \, = \  \  \, \texttt{\bar{Name}} \  \  \, [\texttt{\bar{Ext1}} \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}} \  \ ] \  \  \, [\texttt{\bar{Ext2}}
```

```
• \mthargfun*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}
                                                                614 %% Style for Functions
                                                       615 \mbox{ \newcommand{\mbstyfun}{\mbstyfun}{\mbstyfun}}
             \aFun, ... to do!
                                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                     \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                     A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                       616 \seqoflet{Fun}{mthfun}
             \cmdmthfun ... to do!
                                                               • \cmdmthfun{cmdName};
                                                                     \cmdNameFun[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                • \cmdmthfun{cmdName}[NewName];
                                                                     \cmbox{\cmdNameFun[sub][sub][ext]} = \cmbox{\cmdNameFun[sub]} = \cmbox{\cmdNameFun[sub]}
                                                       617 \newcommandx{\cmdmthfun}[2][2=]
                                                                   {\usrmth{#1}{Fun}{fun}[#2]}
   \cmdmthargfun ... to do!
                                                               • \cmdmthargfun{cmdName};
                                                                     \verb|\cmdNameFun[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg)ext2
                                                                • \cmdmthargfun{cmdName}[NewName];
                                                                     \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                        619 \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];
                                                                     \colon 
                                                       621 \newcommandx{\cmdmthoargfun}[2][2=]
                                                                     {\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];
                                                                     \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                       623 \newcommandx{\cmdmthparfun}[2][2=]
                                                       624 {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                                                                • \cmdmthoparfun{cmdName};
                                                                     \verb|\cmdNameFun[sub][sub][par]| = \verb|\cmdName|^{sub}[par]|
                                                                • \cmdmthoparfun{cmdFun}[NewName];
                                                                     \colon {cmdFunFun[sub] [sub] [par] = NewName}_{sub}^{sub}[par]
                                                       625 \newcommandx{\cmdmthoparfun}[2][2=]
                                                       626 {\usrmth{#1}{Fun}{oparfun}[#2]}
      \mthsym, ... to do!
                                                               • \mathbb{E}_{sub}[Sub][Sup][Ext] = \mathbb{E}_{sub}[Ext]
                                                                • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
```

```
• \mthparsym{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                             • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                       627 %% Style for Symbols
                                       628 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}
         \aggreen \
                                     \mathtt{a},\,\mathtt{b},\,\mathtt{c},\,\mathtt{d},\,\mathtt{e},\,\mathtt{f},\,\mathtt{g},\,\mathtt{h},\,\mathtt{i},\,\mathtt{j},\,\mathtt{k},\,\mathtt{l},\,\mathtt{m},\,\mathtt{n},\,\mathtt{o},\,\mathtt{p},\,\mathtt{q},\,\mathtt{r},\,\mathtt{s},\,\mathtt{t},\,\mathtt{u},\,\mathtt{v},\,\mathtt{w},\,\mathtt{x},\,\mathtt{y},\,\mathtt{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
                                       629 \seqoflet{Sym}{mthsym}
         \cmdmthsym ... to do!
                                             • \cmdmthsym{cmdName};
                                                 \cmdNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                             • \cmdmthsym{cmdName}[NewName];
                                                 \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                       630 \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];
                                                 \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                       632 \newcommandx{\cmdmthargsym}[2][2=]
                                                {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                             • \cmdmthoargsym{cmdName};
                                                 \colon = cmdNameSym[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                             \cmdmthoargsym{cmdSym}[NewName];
                                                 \c mdSymSym[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                       634 \newcommandx{\cmdmthoargsym}[2][2=]
                                                  {\usrmth{#1}{Sym}{oargsym}[#2]}
  \cmdmthparsym ... to do!
                                             \cmdmthparsym{cmdName};
                                                 \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|| sub|| ext1|| par|| ext2||
                                             • \cmdmthparsym{cmdName}[NewName];
                                                 \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameSym[sub][ext1][par]ext2|
                                       636 \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];
                                                 \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                       638 \newcommandx{\cmdmthoparsym}[2][2=]
                                       639 {\usrmth{#1}{Sym}{oparsym}[#2]}
    \mbox{\mbox{\it mthelm}, ... to do!}
                                             • \mathbb{S}_{sub}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                             • \mthargelm{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
```

```
• \mthargelm*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{2}})Ext2
                                             \bullet \  \, \texttt{Name}[\texttt{Sub}][\texttt{Sup}][\texttt{Ext1}] \\ \{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] = Name_{sub}^{sup}Ext1 \\ \left[Par^{Ex^{Ex}}\right]Ext2] \\ = Name_{sub}^{sup}Ext1 \\ \left[Par^{Ex^{Ex}}\right]Ext2 \\ = Name_{sub}^{sup}Ext2 \\ = Name_{
                                              \bullet \  \  \, \texttt{\barelm*{Name}[sub][sup][Ext1]{Par^{Ex^*}[Ext2]}} = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                        640 %% Style for Elements
                                        641 \cmdmthall{elm}\newcommand{\mthstyelm}{\mathnormal}
         \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
                                      \begin{array}{l} \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega\\ A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega \end{array}
                                        642 \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
                                        643 \newcommandx{\cmdmthelm}[2][2=]
                                        644 {\usrmth{#1}{Elm}{elm}[#2]}
  \cmdmthargelm ... to do!
                                              • \cmdmthargelm{cmdName};
                                                  \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                              • \cmdmthargelm{cmdName}[NewName];
                                                  \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                        645 \newcommandx{\cmdmthargelm}[2][2=]
                                                 {\usrmth{#1}{Elm}{argelm}[#2]}
\cmdmthoargelm ... to do!
                                              • \cmdmthoargelm{cmdName};
                                                  \colon dNameElm[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                                              • \cmdmthoargelm{cmdElm}[NewName];
                                                  \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                        647 \newcommandx{\cmdmthoargelm}[2][2=]
                                                  {\usrmth{#1}{Elm}{oargelm}[#2]}
  \cmdmthparelm ... to do!
                                              • \cmdmthparelm{cmdName};
                                                  \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                              • \cmdmthparelm{cmdName}[NewName];
                                                  \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName^{sub}_{sub}ext1[par]ext2
                                        649 \newcommandx{\cmdmthparelm}[2][2=]
                                                 {\usrmth{#1}{Elm}{parelm}[#2]}
\cmdmthoparelm ... to do!
                                              • \cmdmthoparelm{cmdName};
                                                  \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                              • \cmdmthoparelm{cmdElm}[NewName];
                                                  \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                                        651 \newcommandx{\cmdmthoparelm}[2][2=]
                                                 {\usrmth{#1}{Elm}{oparelm}[#2]}
                                        \cmdmthsymelm ... to do!
```

```
\cmdmthsymelm{cmdName};
                                                                         \cmbox{\cmdNameSym[sub][sub][ext]} = cmdName_{sub}^{sub}ext
                                                                         \colonerge{cmdNameElm[sub][sub][ext]} = cmdName^{sub}_{sub}ext
                                                                   • \cmdmthsymelm{cmdName}[NewName];
                                                                         \c MameSym[sub][sub][ext] = 	ext{NewName}_{sub}^{sub}ext
                                                                        \verb|\cmdNameElm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                                           654 \newcommandx{\cmdmthsymelm}[2][2=]
                                                                           {\cmdmthsym{#1}[#2]%
                                                                           \cmdmthelm{#1}[#2]}
                                                           656
  \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
                                                            657 \newcommandx{\cmdmthargsymelm}[2][2=]
                                                                           {\cmdmthargsym{#1}[#2]%
                                                                           \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                                                   • \cmdmthoargsymelm{cmdName};
                                                                         \cmdNameSym[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                         \colone{local} \col
                                                                   • \cmdmthoargsymelm{cmdName}[NewName];
                                                                         \verb|\cmdNameSym[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                                         \colone{local} \col
                                                            660 \newcommandx{\cmdmthoargsymelm}[2][2=]
                                                                           {\cmdmthoargsym{#1}[#2]%
                                                           662
                                                                           \cmdmthoargelm{#1}[#2]}
  \c cmdmthparsymelm ... to do!
                                                                   \cmdmthparsymelm{cmdName};
                                                                         \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames|^{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|\cmdNameSym[sub][ext1][par]ext2|
                                                                        \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                            663 \newcommandx{\cmdmthparsymelm}[2][2=]
                                                                           {\cmdmthparsym{#1}[#2]%
                                                           665
                                                                           \cmdmthparelm{#1}[#2]}
\c do!
                                                                  \cmdmthoparsymelm{cmdName};
                                                                         \cmbox{\cmdNameSym[sub][sub][par]} = \cmdName_{sub}^{sub}[par]
                                                                         \colonerge{cmdNameSub[par]} = cmdName_{sub}^{sub[par]}
                                                                        \cmdmthoparsymelm{cmdName}[NewName];
                                                                        \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                        \cmdNameElm[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                                                           666 \mbox{newcommandx{\cmdmthoparsymelm}[2][2=]}
                                                                           {\cmdmthoparsym{#1}[#2]%
                                                            668
                                                                           \cmdmthoparelm{#1}[#2]}
                                                           \mthluop, ... to do!
                                                                  • \mthluop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
```

```
670 %% Style for \LaTex Operators
                                             671 \cmdmth{luop}\newcommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                             672 \mbox{ \mbox{$1$}} newcommand{\mbstylbop}[1]{\textstyle\mathbin{#1}}
\cmdmthluop, ... to do!
                                                   • \cmdmthluop{cmdName};
                                                       \cmdNameUOp[sub][sub] [ext] = cmdName_{sub}^{sub} ext
                                                   • \cmdmthluop{cmdName}[\oplus];
                                                       \colon = \oplus_{sub}^{sub} [sub] [ext] = \oplus_{sub}^{sub} ext
                                                   • \cmdmthlbop{cmdName};
                                                       \colon dNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                   • \cmdmthlbop{cmdName}[\oplus];
                                                       \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                                             673 \newcommandx{\cmdmthluop}[2][2=]
                                             674 {\usrmth{#1}{UOp}{luop}[#2]}
                                             675 \newcommandx{\cmdmthlbop}[2][2=]
                                                       {\usrmth{#1}{BOp}{lbop}[#2]}
                   \mthlrel ... to do!
                                                   • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                             677 %% Style for \LaTex Relations
                                             678 \mbox{ \cmdmth{lrel}\newcommand{\mbstylrel}{\mbox{\cmdmthrel}}}
            \cmdmthlrel ... to do!
                                                   • \cmdmthlrel{cmdName};
                                                       \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                   • \cmdmthlrel{cmdName}[\preceq];
                                                       \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                                             679 \newcommandx{\cmdmthlrel}[2][2=]
                                                      {\usrmth{#1}{Rel}{lrel}[#2]}
                                             \mthsnt, ... to do!
                                                   • \mathbb{E}_{sub}[sub][sup][Ext] = \mathsf{Name}_{sub}^{sup}Ext
                                                   • \mthargsnt{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                   \bullet \  \  \, \texttt{\bare}[sub][sub][sup][Ext1] \\ \{ \texttt{Arg}^{\{Ex^{\{Ex\}}\}} \} \\ [Ext2] = \mathsf{\bare}^{sup}_{sub} Ext1 \\ (Arg^{Ex^{Ex}}) Ext2 \\ ]
                                                   \bullet \  \  \, \texttt{Name}[sub][sup][Ext1] \\ \{\texttt{Par}^{\{\texttt{Ex}^{\}}\}}[\texttt{Ext2}] \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \Big[Par^{Ex^{Ex}}\Big] Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext2 \\ = \  \, \texttt{Name}^{sub}_{sub} Ext2 \\ = \  \, 
                                                   682 %% Style for Sentences
                                            683 \mbox{\mbox{\mbox{$\sim$}}{\mathbf{\mbox{\mbox{$\sim$}}}}{\mathbf{\mbox{\mbox{$\sim$}}}}
              \aSnt, ... to do!
                                           a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                                           A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                           \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, 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
                                            684 \seqoflet{Snt}{mthsnt}
              \cmdmthsnt ... to do!
                                                   • \cmdmthsnt{cmdName};
                                                       \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                                                   • \cmdmthsnt{cmdName} [NewName];
                                                       \colon dNameSnt[sub][sub][ext] = NewName_{sub}^{sub}ext
                                             685 \newcommandx{\cmdmthsnt}[2][2=]
                                             686 {\usrmth{#1}{Snt}{snt}[#2]}
```

```
\cmdmthargsnt ... to do!
                                          \cmdmthargsnt{cmdName};
                                              \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                          • \cmdmthargsnt{cmdName}[NewName];
                                              \colored {\tt NameSnt[sub][sub][ext1]{arg}[ext2] = NewName}_{sub}^{sub}ext1(arg)ext2
                                    687 \newcommandx{\cmdmthargsnt}[2][2=]
                                             {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                                         • \cmdmthoargsnt{cmdName};
                                             \colon = cmdNameSnt[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                          • \cmdmthoargsnt{cmdName}[NewName];
                                             \colon = NewNameSnt[sub][sub][arg] = NewNameSnt[sub](arg)
                                    689 \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];
                                             \cmdNameSnt[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                    691 \newcommandx{\cmdmthparsnt}[2][2=]
                                            {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                         • \cmdmthoparsnt{cmdName};
                                             \cmdNameSnt[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                          • \cmdmthoparsnt{cmdName}[NewName];
                                             \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                                    693 \newcommandx{\cmdmthoparsnt}[2][2=]
                                            {\usrmth{#1}{Snt}{oparsnt}[#2]}
    \mthfrm, ... to do!
                                         • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                          • \mthargfrm{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                          • \mthparfrm{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                          \bullet \  \  \, \texttt{\bare}[Sub][Sub][Ext1] \\ \{Par^{Ex^{-}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2 \\ = Name_{sub}^{sup}Ext2[Par^{Ex}]Ext2 \\ = Name_{sub}^{sup}Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2 \\ = Name_{sub}^{sup}Ext2[Par^{Ex}]Ext2 \\ = Name_{sub}^{sup}Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2 \\ = Name_{sub}^{sup}Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[Par^{Ex}]Ext2[P
                                    695 %% Style for Formulae
                                    696 \mbox{\mbox{\mbox{$\sim$}}{\rm mthstyfrm}{\mathbb{}}}
        \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
                                    697 \seqoflet{Frm}{mthfrm}
        \cmdmthfrm ... to do!
                                         • \cmdmthfrm{cmdName};
                                             \verb|\cmdNameFrm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                          • \cmdmthfrm{cmdName}[NewName];
                                             \colon dNameFrm[sub][sub][ext] = NewName_{sub}^{sub}ext
                                    698 \newcommandx{\cmdmthfrm}[2][2=]
                                            {\usrmth{#1}{Frm}{frm}[#2]}
```

```
\cmdmthargfrm ... to do!
                                               • \cmdmthargfrm{cmdName};
                                                    \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                               • \cmdmthargfrm{cmdName}[NewName];
                                                   \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                         700 \newcommandx{\cmdmthargfrm}[2][2=]
                                                  {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                                               • \cmdmthoargfrm{cmdName};
                                                   \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                               • \cmdmthoargfrm{cmdName}[NewName];
                                                   \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                         702 \newcommandx{\cmdmthoargfrm}[2][2=]
                                         703 {\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];
                                                   \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                         704 \newcommandx{\cmdmthparfrm}[2][2=]
                                         705 {\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]
                                         706 \newcommandx{\cmdmthoparfrm}[2][2=]
                                         707 {\usrmth{#1}{Frm}{oparfrm}[#2]}
                                         \mthmat, ... to do!
                                               \bullet \ \texttt{\bar{Name}[sub][sup][Ext]} = \mathbf{Name}^{sup}_{sub}Ext
                                              • \mthargmat{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                               \bullet \  \  \, \texttt{Name} \texttt{[sub][sub][Ext1]\{Arg^{\{Ex^{\{Ex\}\}}\}}\texttt{[Ext2]} = \mathbf{Name}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2}
                                               \bullet \  \, \texttt{Name}[\text{sub}][\text{sup}][\text{Ext1}] \\ \{\text{Par}^{\{\text{Ex}^{}\}}\}[\text{Ext2}] \\ = \\ \textbf{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \\ \textbf{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \\ \textbf{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \\ \textbf{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \\ \textbf{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \\ \textbf{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \\ \textbf{Name}_{sub}^{sup}Ext2 \\ = \\ \textbf{Name}_{sub}^{sub}Ext2 \\ = \\ \textbf{N
                                               \bullet \  \  \, \texttt{\bareaut*{Name}[sub][sup][Ext1]{Par^{Ex^*}}[Ext2]} = \mathbf{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2]
                                         709 %% Style for Matrices
                                         710 \label{lem:command} $$ 1] {\bf \{mat} \newcommand{\bf \{mthstymat\}[1] {\bf \{boldsymbol\{mathsf\{\#1\}\}\}} } $$
         \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, 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
                                        711 \seqoflet{Mat}{mthmat}
         \cmdmthmat ... to do!
                                               \cmdmthmat{cmdName};
                                                    \colon dNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                               • \cmdmthmat{cmdName}[NewName];
                                                   \colon dNameMat[sub][sub][ext] = NewName_{sub}^{sub}ext
```

```
712 \newcommandx{\cmdmthmat}[2][2=]
                                                   713 {\usrmth{#1}{Mat}{mat}[#2]}
  \cmdmthargmat ... to do!
                                                          • \cmdmthargmat{cmdName};
                                                                \cmdNameMat[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                           • \cmdmthargmat{cmdName}[NewName];
                                                                \c NewName Mat[sub][sub][ext1]{arg}[ext2] = NewName Subsect Management (arg)ext2
                                                   714 \newcommandx{\cmdmthargmat}[2][2=]
                                                   715 {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                                                           \cmdmthoargmat{cmdName};
                                                                \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                          • \cmdmthoargmat{cmdName}[NewName];
                                                                \cmbox{\cmdNameMat[sub][sub][arg]} = \mathbf{NewName}^{sub}_{sub}(arg)
                                                    716 \newcommandx{\cmdmthoargmat}[2][2=]
                                                   717 {\usrmth{#1}{Mat}{oargmat}[#2]}
  \cmdmthparmat ... to do!
                                                          • \cmdmthparmat{cmdName};
                                                                \colone{line} 
                                                           • \cmdmthparmat{cmdName}[NewName];
                                                                \cmdNameMat[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                   718 \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 = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                                                    720 \newcommandx{\cmdmthoparmat}[2][2=]
                                                   721 {\usrmth{#1}{Mat}{oparmat}[#2]}
     \mthvec, ... to do!
                                                          • \mthvec{Name} [sub] [sup] [Ext] = Name_{sub}^{sup} Ext
                                                          • \mthargvec{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                           • \mthargvec*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                           • \mthparvec{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 \Big[Par^{Ex^{Ex}}Bxt2] = Name_{sub}^{sup} Ext2 \Big[Par^{Ex^{Ex}}Bxt2] = Name_{sub}^{su
                                                           • \mthparvec*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                    722 %% Style for Vectors
                                                   723 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
            \aVec, ... to do!
                                                 a,\,b,\,c,\,d,\,e,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                                                 A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                 \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                 A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                                                   724 \sqoflet{Vec}{mthvec}
            \cmdmthvec ... to do!
                                                          • \cmdmthvec{cmdName};
                                                                \verb|\cmdNameVec[sub][sub][ext]| = cmdName_{sub}^{sub}ext|
                                                           • \cmdmthvec{cmdName}[NewName];
                                                                \verb|\cmdNameVec[sub][sub][ext]| = NewName^{sub}_{sub}ext
```

```
725 \newcommandx{\cmdmthvec}[2][2=]
                                       {\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
                                727 \newcommandx{\cmdmthargvec}[2][2=]
                                728 {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                    • \cmdmthoargvec{cmdName};
                                        \colon = cmdName \col
                                     • \cmdmthoargvec{cmdName}[NewName];
                                        \colon = NewName^{sub}(arg) = NewName^{sub}(arg)
                                729 \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
                                731 \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]
                                733 \newcommandx{\cmdmthoparvec}[2][2=]
                                       {\usrmth{#1}{Vec}{oparvec}[#2]}
                                735 \fi
                                740 \ \text{iftext0}
                                • \adhoc = ad\ hoc
               \adhoc
                                742 \cmdtxtabr{adhoc}[ad hoc]
                                    • \arrange a fortiori
       \afortiori
                                743 \cmdtxtabr{afortiori}[a fortiori]
           \apriori
                                     • \apriori = a priori
                                744 \cmdtxtabr{apriori}[a priori]
   \aposteriori
                                     • \aposteriori = a posteriori
                                745 \cmdtxtabr{aposteriori}[a posteriori]
                                    • \backslash cf = cf.
                     \cf
                                746 \cmdtxtabr{cf}[cf.]
```

```
\dedicto
                        • \del{dedicto} = de \ dicto
                     747 \cmdtxtabr{dedicto}[de dicto]
         \defacto
                        \bullet \ \ \texttt{\ } defacto = \textit{de facto}
                     748 \cmdtxtabr{defacto}[de facto]
            \dere
                        • \forall dere = de re
                     749 \cmdtxtabr{dere}[de re]
                        • \divideetimpera = divide et impera
\divideetimpera
                     750 \cmdtxtabr{divideetimpera}[divide et impera]
              \eg
                        • \backslash eg = e.g.
                     751 \cmdtxtabr{eg}[e.g.]
                        • \ensuremath{\backslash} \text{ergo} = ergo
            \ergo
                     752 \cmdtxtabr{ergo}
                        • \errata = errata
          \errata
                     753 \cmdtxtabr{errata}
                        • \erratum = erratum
         \erratum
                     754 \cmdtxtabr{erratum}
            \etal
                        • \ensuremath{\backslash} \mathtt{etal} = et \ al.
                     755 \cmdtxtabr{etal}[et al.]
             \etc
                        • \ensuremath{\backslash} \mathsf{etc} = etc.
                     756 \cmdtxtabr{etc}[etc.]
                        • \forallie = i.e.
              \ie
                     757 \cmdtxtabr{ie}[i.e.]
                        \bullet \mutatismutandis = mutatis mutandis
\mutatismutandis
                     758 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
                        • \percontra = per contra
      \percontra
                     759 \cmdtxtabr{percontra}[per contra]
     \primafacie
                        • \propty primafacie = prima\ facie
                     760 \cmdtxtabr{primafacie}[prima facie]
      \viceversa
                        • \forall viceversa = vice versa
                     761 \cmdtxtabr{viceversa}[vice versa]
                        • \vert vs = vs.
              \vs
                     762 \cmdtxtabr{vs}[vs.]
                        • \viz = viz.
             \viz
                     763 \cmdtxtabr{viz}[viz.]
                     \Afortiori
                        • \land Afortiori = A \ fortiori
                     765 \cmdtxtabr{Afortiori}[A fortiori]
        \Apriori
                        • \Apriori = A priori
                     766 \cmdtxtabr{Apriori}[A priori]
```

```
\Aposteriori
                • \Aposteriori = A posteriori
              767 \cmdtxtabr{Aposteriori}[A posteriori]
      \Dedicto
                768 \cmdtxtabr{Dedicto} [De dicto]
      \Defacto
                • \ensuremath{\texttt{Defacto}} = De\ facto
              769 \cmdtxtabr{Defacto} [De facto]
                • \Dere = De re
        \Dere
              770 \cmdtxtabr{Dere}[De re]
\Divideetimpera
                • \Divideetimpera = Divide \ et \ impera
              771 \cmdtxtabr{Divideetimpera}[Divide et impera]
                • \backslash Eg = E.g.
          \Eg
              772 \cmdtxtabr{Eg}[E.g.]
      \Errata
                • \Errata = Errata
              773 \cmdtxtabr{Errata}
                • \Erratum = Erratum
      \Erratum
              774 \cmdtxtabr{Erratum}
\Mutatismutandis
                • \Mutatismutandis = Mutatis mutandis
              775 \cmdtxtabr{Mutatismutandis} [Mutatis mutandis]
    \Percontra
                • \ensuremath{\mbox{\sc Percontra}} = Per\ contra
              776 \cmdtxtabr{Percontra}[Per contra]
   \Primafacie
                \bullet \Primafacie = Prima\ facie
              777 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
                • \Viceversa = Vice versa
              778 \cmdtxtabr{Viceversa}[Vice versa]
              • \n aif = naif
        \n
              782 \cmdtxtabr{naif}[na\"{i}f]
       \naive
                • \ne naive = naive
              783 \cmdtxtabr{naive}[na\"{i}ve]
                • \role = r\hat{o}le
        \role
              784 \cmdtxtabr{role}[r\^{o}le]
              \Role
                786 \mbox{cmdtxtabr{Role}[R\^{o}le]}
```

```
\aka
            788 \cmdtxtabr{aka}[a.k.a.]
     \contd
            • \contd = contd.
          789 \cmdtxtabr{contd}[contd.]
      \iff
            • \iff = iff
          790 \cmdtxtabr{iff}
      \iht
            • \iht = i.h.t.
          791 \cmdtxtabr{iht}[i.h.t.]
            • \ \ \ \ stx = s.t.
      \stx
          792 \cmdtxtabr{stx}[s.t.]
            • \resp = resp.
     \resp
          793 \cmdtxtabr{resp}[resp.]
            • \wrt = w.r.t.
      \wrt
          794 \cmdtxtabr{wrt}[w.r.t.]
            • \wdots w.l.o.g.
     \wlogx
          795 \cmdtxtabr{wlogx}[w.l.o.g.]
          • \Contd = Contd.
     \Contd
          797 \cmdtxtabr{Contd}[Contd.]
            • \W log x = W.l.o.g.
     \Wlogx
          798 \cmdtxtabr{Wlogx}[W.l.o.g.]
          799 \fi
          804 \ifmath@
          \defeq, \seteq ...
          806 \DeclareRobustCommand{\defeq}
             {\@ifstar%
          807
               {\bf \{\text{\textup{def}}\}{=}}}%
          808
               {\mthlbop{\triangleq}}}
          810 \DeclareRobustCommand{\seteq}
             {\@ifstar{\mthlbop{::=}}}
          \implies, ... ...
          813 \DeclareRobustCommand{\implies}
             {\mthlrel{\Rightarrow}}
          815 \DeclareRobustCommand{\notimplies}
          816 {\mthlrel{\not\Rightarrow}}
\implied, ... ...
          817 \DeclareRobustCommand{\implied}
          818 {\mthlrel{\Leftarrow}}
          819 \DeclareRobustCommand{\notimplied}
          820 {\mthlrel{\not\Leftarrow}}
```

```
\coimplies, ... ...
                821 \verb|\DeclareRobustCommand{\coimplies}|
                822 {\mthlrel{\Leftrightarrow}}
                823 \DeclareRobustCommand{\notcoimplies}
                824 {\bf \{not}!\Leftrightarrow}
                \cmodels, ... ...
                826 \DeclareRobustCommand{\cmodels}
                   {\mthlrel{\models}}
                828 \DeclareRobustCommand{\notcmodels}
                829 {\mthlrel{\not\models}}
    \cequiv, ... ...
                830 \DeclareRobustCommand{\cequiv}
                    {\mthlrel{\equiv}}
                832 \DeclareRobustCommand{\notcequiv}
                833 {\mthlrel{\not\equiv}}
                \denot ...
                835 \DeclareRobustCommand{\denot}
                836 {\@ifstar{\@denot}{\@denot[\left][\right]}}
                837 \DeclareRobustCommandx{\@denot}[3][1=, 2=]
                    {\mth{\argmid{#1\llbracket}{#3}{#2\rrbracket}}}
                \dual, \adj, ... ...
                840 \DeclareRobustCommand{\dual}[1]
                841 {\mth{\overline{#1}}}
                842 \DeclareRobustCommand{\adj}[1]
                843 {\mth{\mathring{#1}}}
                844 \DeclareRobustCommand{\der}[1]
                   {\mth{\widehat{#1}}}
                846 \DeclareRobustCommand{\trn}[1]
                847 {\mth{\widetilde{#1}}}
          \vec ...
                848 \DeclareRobustCommand{\vec}
                849 {\@ifstar{\@svec}{\@vec}}
                850 \DeclareRobustCommand{\@vec}[1]
                   {\mth{\mathaccent"017E{#1}}}
                852 \DeclareRobustCommand{\@svec}[1]
                   {\mth{\overline{#1}}}
                \enumeration, ... ...
                856 \varcmd{enumerationx}{\mth}{}{}{}
  \sequence, ... ...
                857 \varcmd{sequence}{\mth}{\left[}{,}{\right]}{}
                858 \varcmd{sequencel}{\mth}{\left[}{,}{\right.}{}
                859 \varcmd{sequencer}{\mth}{\left.}{,}{\right]}{}
                860 \varcmd{sequencex}{\mth}{\left[}{;}{\right]}{}
                861 \varcmd{sequencexl}{\mth}{\left\{\left[\right\}\left\{;\right\}\left\{\left.\right\}\left\{\right\}\right\}}
                862 \varcmd{sequencexr}{\mth}{\left.}{;}{\right]}{}
```

```
\tuple, ... ...
                                                                       863 \c {tuple}{\bf {left}langle}{,}{\c {tuple}{}}
                                                                       864 \c \{tuplel}{\bf \{\{left\langle\}\{,\}\{left.\}\{\}\}\}
                                                                       865 \operatorname{tupler}{\operatorname{th}}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}{1}\right)}{\left(\frac{1}\right)}{\left(\frac{1}\right)}{\left(\frac{1}1\right)}{\left(\frac{1}1\right)}{\left(\frac{1}1\right)}{\left(\frac{1}1\right)}{\left(\frac{1}1\right)}{\left(\frac{1}1\right)}{\left(\frac{1}1\right)}{\left(
                                                                       866 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                                                                       867 \c {tuplexl}{\bf {left}langle}{;}{\bf {left}langle}{;}{\bf {left}langle}{;}{\bf {left}langle}{;}{\bf {left}langle}{;}{\bf {left}langle}{;}{\bf {left}langle}{}{\bf {left}langle}{\bf {left}langle}{}{\bf {left
                                                                       868 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
                                                                       \set, ... ...
                                                                       870 \DeclareRobustCommand{\set}
                                                                                        {\@ifstar{\@set}{\@set[\left][\middle][\right]}}
                                                                       872 \DeclareRobustCommandx{\@set}[5][1=, 2=, 3=]
                                                                       873 {\bf 4}^{1}\ {\mth{\argmid{#1\lbrace}{\argsep{#4}{\,#2\vert\,}{#5}}{#3\rbrace}}}
                                                                      874 \DeclareRobustCommand{\set1}
                                                                      875 {\@ifstar{\@setl}{\@setl[\left][\right]}}
                                                                      876 \DeclareRobustCommandx{\@set1}[3][1=, 2=]
                                                                       877 {\mth{\argmid{#1\lbrace}{#3}{\,#2\vert\!}}}
                                                                       878 \DeclareRobustCommand{\setr}
                                                                       879 {\@ifstar{\@setr}{\@setr[\left.][\right]}}
                                                                       880 \DeclareRobustCommandx{\@setr}[3][1=, 2=]
                                                                       881 {\mth{\argmid{#1}{#3}{#2\rbrace}}}
                                        \card ...
                                                                      882 \DeclareRobustCommand{\card}
                                                                       883 {\@ifstar{\@card}{\@card[\left][\right]}}
                                                                       884 \DeclareRobustCommandx{\@card}[3][1=, 2=]
                                                                       885 {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
                                            \pow ...
                                                                      886 \DeclareRobustCommand{\pow}[1]
                                                                       \emptyrel ...
                                                                       889 \DeclareRobustCommand{\emptyrel}
                                                                       890 {\mth{\varnothing}}
                                                                       \dom, \cod, ... ...
                                                                      892 \usrmth{dom}{}{argfun}
                                                                       893 \usrmth{cod}{}{argfun}
                                                                       894 \usrmth{rng}{}{argfun}
                                                                       895 \usrmth{img}{}{argfun}
                                                                       \prj ...
                                                                      897 \DeclareRobustCommand{\prj}
                                                                      898 {\mthargfun{prj}}
                                            \rst ...
                                                                        899 \DeclareRobustCommand{\rst}
                                                                       900 {\mthlbop{\upharpoonright}}
                                            \cmp ...
                                                                      901 \DeclareRobustCommand{\cmp}
                                                                                      {\mthlbop{\circ}}
```

```
\emptyfun ...
               904 \DeclareRobustCommand{\emptyfun}
               905 {\mth{\varnothing}}
               \pto, \pmapsto
               907 \DeclareMathOperator{\pto}
                   {\ensuremath{\rightharpoonup}}
               909 \DeclareMathOperator{\pmapsto}
                   {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
                     \kern-1.5ex\rightharpoonup}}}
               \fix, \ifp, ... ...
               913 \usrmth{fix}{}{fun}
               914 \mbox{ }\mbox{usrmth{ifp}{fun}}
               915 \mbox{ \normalfp}{fun}
               916 \mbox{ \normalfont} \{gfp\}{}\{fun\}
               \Aomega, \AOmega
               918 \usrmth{Aomega}{}{argset}[\omega]
               919 \usrmth{AOmega}{}{argset}[\Omega]
\Atheta, \ATheta ...
               920 \usrmth{Atheta}{}{argset}[\theta]
               921 \usrmth{ATheta}{}{argset}[\Theta]
 \Aomicron, ... ...
               922 \usrmth{Aomicron}{}{argset}[\omicron]
               923 \usrmth{AOmicron}{}{argset}[\Omicron]
               \SetB ...
               925 \DeclareRobustCommand{\SetB}
               926 {\mthset[mathbb]{B}}
         \SetF ...
               927 \DeclareRobustCommand{\SetF}
               928 {\mthset[mathbb]{F}}
    \SetN, ... ...
               929 \DeclareRobustCommand{\SetN}
               930 {\mthset[mathbb]{N}}
               931 \DeclareRobustCommand{\SetNI}[1][]
               932 {\SetN[\infty #1]}
    \SetZ, ... ...
               933 \DeclareRobustCommand{\SetZ}
               934 {\mthset[mathbb]{Z}}
               935 \DeclareRobustCommand{\SetZI}[1][]
               936 {\SetZ[\pm\infty #1]}
               937 \DeclareRobustCommand{\SetZPI}[1][]
               938 {\SetZ[+\infty #1]}
               939 \DeclareRobustCommand{\SetZNI}[1][]
               940 {\SetZ[-\infty #1]}
```

```
\SetQ, ... ...
                               941 \DeclareRobustCommand{\SetQ}
                               942 {\mthset[mathbb]{Q}}
                               943 \DeclareRobustCommand{\SetQI}[1][]
                               944 {\SetQ[\pm\infty #1]}
                               945 \ensuremath{\tt Perlor}[1][]
                               946 {\SetQ[+\infty #1]}
                               947 \DeclareRobustCommand{\SetQNI}[1][]
                               948 {\SetQ[-\infty #1]}
      \SetR, ... ...
                               949 \DeclareRobustCommand{\SetR}
                               950 {\mthset[mathbb]{R}}
                               951 \DeclareRobustCommand{\SetRI}[1][]
                               952 {\SetR[\pm\infty #1]}
                               953 \DeclareRobustCommand{\SetRPI}[1][]
                                       {\SetR[+\infty #1]}
                               955 \DeclareRobustCommand{\SetRNI}[1][]
                               956 {\SetR[-\infty #1]}
      \SetC, ... ...
                               957 \DeclareRobustCommand{\SetC}
                               958 {\mthset[mathbb]{C}}
                               959 \DeclareRobustCommand{\SetCI}[1][]
                               960 {\SetC[\infty #1]}
                               \num, ... ...
                               962 \DeclareRobustCommand{\num}[1]
                               963 {\mth{[#1]}}
                               964 \DeclareRobustCommand{\numcc}[2]
                               965 {\mth{[\argsep{#1}{,}{#2}]}}
                               966 \DeclareRobustCommand(\numco)[2]
                               967 {\mth{[\argsep{#1}{,}{#2})}}
                               968 \DeclareRobustCommand{\numoc}[2]
                               969 {\mth{(\argsep{#1}{,}{#2}]}}
                               970 \DeclareRobustCommand{\numoo}[2]
                                       {\mth{(\argsep{#1}{,}{#2})}}
                               \abs ...
                               973 \DeclareRobustCommand{\abs}
                               974 {\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_
                               975 \DeclareRobustCommandx{\@abs}[3][1=, 2=]
                                      {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
\floor, \ceil ...
                               977 \DeclareRobustCommand{\floor}
                               978 {\@ifstar{\@floor}{\@floor[\left][\right]}}
                               979 \DeclareRobustCommandx{\@floor}[3][1=, 2=]
                                       {\mth{\argmid{#1\lfloor}{#3}{#2\rfloor}}}
                               981 \DeclareRobustCommand{\ceil}
                               982 {\@ifstar{\@ceil}{\@ceil[\left][\right]}}
                               983 \DeclareRobustCommandx{\@ceil}[3][1=, 2=]
                                      {\mth{\argmid{#1\lceil}{#3}{#2\rceil}}}
                               \arg ...
                               986 \usrmth{arg}{}{fun}
```

```
\evn, \odd ...
              987 \usrmth{evn}{}{fun}
              988 \usrmth{odd}{}{fun}
     \bst, ... ...
              989 \usrmth{bst}{}{fun}
              990 \usrmth{argbst}{}{fun}[arg\,bst]
\min, \max, ... ...
              991 \usrmth{min}{}{fun}
              992 \usrmth{max}{}{fun}
              993 \usrmth{argmin}{}{fun}[arg\,min]
              994 \usrmth{argmax}{}{fun}[arg\,max]
    \inf, \sup
              995 \usrmth{inf}{}{fun}
              996 \usrmth{sup}{}{fun}
              \emptyseq
              998 \DeclareRobustCommand{\emptyseq}
                  {\mth{\varepsilon}}
         \len ...
              1000 \DeclareRobustCommand{\len}
                  {\@ifstar{\@len}{\@len[\left][\right]}}
              1002 \DeclareRobustCommandx{\@len}[3][1=, 2=]
              1003 {\bf 4}\ {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
    \fst, \lst ...
              1004 \usrmth{fst}{}{argfun}
              1005 \usrmth{lst}{}{argfun}
              1006 \fi
              1011 \ifcom@
    \defcomcls ... to do!
                • \defcomcls{CompClass};
                  \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                • \defcomcls{CompClass}[NewClass];
                  \compClass[sub][sup][arg] = NewClass_{SUB}^{SUP}(ARG)
              1012 \newcommandx{\defcomcls}[2][2=]
              1013 {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
 \defcomclsgrp ... to do!
                • \defcomclsgrp{CompClass};
                  \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                  \verb|\CoCompClass[sub][sup][arg]| = CoCompClass_{SUB}^{SUP}(ARG)
                  \verb|\CompClassE[sub][sup][arg]| = CompClass-Easy_{SUB}^{SUP}(ARG)
                  \verb|\CoCompClassE[sub][sup][arg]| = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                  \CompClassH[sub][sup][arg] = COMPCLASS-HARD_{SUB}^{SUP}(ARG)
                  \CoCompClassH[sub][sup][arg] = CoCompClass-Hard_{SUB}^{SUP}(ARG)
```

```
\CompClassC[sub][sup][arg] = COMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \CoCompClassC[sub][sup][arg] = CoCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \NCompClass[sub][sup][arg] = NComPCLASS_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConCompClass_{SUB}^{SUP}(ARG)
  \NCompClassE[sub][sup][arg] = NCompClass-Easy_{SUB}^{SUP}(ARG)
  \verb|\ConCompClassE[sub][sup][arg]| = ConCompClass-easy_{sub}^{SUP}(arg)
  \NCompClassH[sub][sup][arg] = NComPCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\CoNCompClassH[sub][sup][arg]| = CoNCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\NCompClassC[sub][sup][arg]| = NCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \verb|\ConCompClassC[sub][sup][arg]| = ConCompClass-Complete_{SUB}^{SUP}(ARG)
  \UCompClass[sub][sup][arg] = UCompCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoUCompClass[sub][sup][arg]| = CoUCompClass_{SUB}^{SUP}(ARG)
  \label{eq:UCompClassEsub} $$ [\sup] [arg] = UCOMPCLASS-EASY_{SUB}^{SUP}(ARG) $$
  \CoulompClassE[sub][sup][arg] = CoUCOMPCLASS-EASY_{SUB}^{SUP}(ARG)
  \UCompClassH[sub][sup][arg] = UCompClass-Hard_{SUB}^{SUP}(ARG)
  \CoulompClassH[sub][sup][arg] = CoUCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \UCompClassC[sub][sup][arg] = UCompClass-Complete_{SUB}^{SUP}(ARG)
  \Coulomb Class C[sub][sup][arg] = Coulomb Class-Complete E_{Sub}^{SUP}(ARG)
  \verb|\ACompClass[sub][sup][arg]| = ACOMPCLASS_{SUB}^{SUP}(ARG)
  \CoACompClass[sub][sup][arg] = CoACompClass_{SUB}^{SUP}(ARG)
  \triangle CompClassE[sub][sup][arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)
  \verb|\CoACompClassE[sub][sup][arg]| = CoACompClass-Easy_{SUB}^{SUP}(ARG)
  \label{eq:acompClassHard} $$ \Delta CompClassHard_{SUB}^{SUP}(ARG) = ACompClass-Hard_{SUB}^{SUP}(ARG) $$
  \CoACompClassH[sub][sup][arg] = CoACompClass-Hard_{SUB}^{SUP}(ARG)
  \label{eq:acompClassC} $$\Lambda CompClassC[sub][sup][arg] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)$
  \CoACompClassC[sub][sup][arg] = CoACompClass-Complete_{SUB}^{SUP}(ARG)
\defcomclsgrp{CompClass}[NewClass];
  \CompClass[sub][sup][arg] = NEWCLASS_{SUB}^{SUP}(ARG)
  \CoCompClass[sub][sup][arg] = CoNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CompClassE[sub][sup][arg]| = NewClass-easy_{SUB}^{SUP}(ARG)
  \CoCompClassE[sub][sup][arg] = CoNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CompClassH[sub][sup][arg] = NewClass-Hard_{SUB}^{SUP}(Arg)
  \verb|\CoCompClassH[sub][sup][arg]| = CoNewClass-Hard_{SUB}^{SUP}(ARG)
  \verb|\CompClassC[sub][sup][arg]| = NewClass-complete_{SUB}^{SUP}(ARG)
  \CoCompClassC[sub][sup][arg] = CoNewClass-CompLete_{SUB}^{SUP}(ARG)
  \verb|\NCompClass[sub][sup][arg]| = NNEWCLASS_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConNewClass_{SUB}^{SUP}(ARG)
  \NCompClassE[sub][sup][arg] = NNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \verb|\ConCompClassE[sub][sup][arg]| = ConNewClass-easy_{Sub}^{SUP}(ARG)
  \verb|\NCompClassH[sub][sup][arg]| = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{SUB}^{SUP}(Arg)
  \NCompClassC[sub][sup][arg] = NNEWCLASS-COMPLETE_SUB(ARG)
  \verb|\ConCompClassC[sub][sup][arg]| = ConNewClass-Complete_{SUB}^{SUP}(ARG)
  \UCompClass[sub][sup][arg] = UNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoUCompClass[sub][sup][arg]| = CoUNEWCLASS_{SUB}^{SUP}(ARG)
  \label{eq:UCompClassE[sub][sup][arg]} $$ = UNEWCLASS-EASY_{SUB}^{SUP}(ARG)$
  \verb|\CoUCompClassE[sub][sup][arg]| = CoUNewClass-easy_{sub}^{SUP}(ARG)
  \UCompClassH[sub][sup][arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\CoUCompClassH[sub][sup][arg]| = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \label{eq:union_union_union} $$ \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG) $$
  \Coulomb Class C[sub][sup][arg] = Council Co
  \label{eq:accompclass} $$ \arg] = ANEWCLASS_{SUB}^{SUP}(ARG) $$
  \CoACompClass[sub][sup][arg] = CoANEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\ACompClassE[sub][sup][arg]| = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CoACompClassE[sub][sup][arg] = CoANEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \verb|\ACompClassH[sub][sup][arg]| = ANEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \CoACompClassH[sub][sup][arg] = CoANewClass-Hard_{SUB}^{SUP}(ARG)
```

```
\verb|\ACompClassC[sub][sup][arg]| = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                       \verb|\CoACompClassC[sub][sup][arg]| = CoANewClass-complete_{Sub}^{SUP}(ARG)
                  1014 \newcommandx{\defcomclsgrp}[2][2=]
                  1015
                       {\defcomclsgrpsem{#1}{\defval{#2}{#1}}}%
                  1016
                        1017 \newcommandx{\defcomclsgrpsem}[3][3=]
                       {\defcomclsgrpred{#3#1}{#2}[#3]%
                       \defcomclsgrpred{#3N#1}{#2}[#3N]%
                  1020 \defcomclsgrpred{#3U#1}{#2}[#3U]%
                  1021
                       \defcomclsgrpred{#3A#1}{#2}[#3A]}
                  1022 \newcommandx{\defcomclsgrpred}[3][3=]
                  1023 {\defcomclsgrpcmd{#1}{#2}[#3]%
                       1024
                       \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                  1025
                  1026
                        \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                  1027 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                        {\csdef{#1}{\txtoargcom{#3#2#4}}}
      \defcomhrc ... to do!
                     • \defcomhrc{CompHierarchy};
                       CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                     • \defcomhrc{CompHierarchy} [NewHierarchy];
                       CompHierarchy[sub][sup][par] = NEWHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                  1029 \newcommandx{\defcomhrc}[2][2=]
                       {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
                  \Easy, \Hard, ...
                  1032 \cmdtxtcom{Easy}
                  1033 \cmdtxtcom{Hard}
                  1034 \cmdtxtcom{Complete}
                  \FPT
                     • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
                  1036 \defcomcls{FPT}
                  • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
      \Time, ...
                       TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
                       TimeH[sub][sup][arg] = TIME-HARD_{SUB}^{SUP}(ARG)
                       TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
                     \bullet \ \ \texttt{NTime[sub][sup][arg]} = NTIME^{SUP}_{SUB}(ARG)
                       \TimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
                       \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                       \NTimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                     \UTimeE[sub][sup][arg] = UTIME-EASY_{SUB}^{SUP}(ARG)
                       \UTimeH[sub][sup][arg] = UTIME-HARD_{SUB}^{SUP}(ARG)
                       \verb|\UTimeC[sub][sup][arg]| = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
                     • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
                       \texttt{\ATimeE[sub][sup][arg]} = \text{ATIME-EASY}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                       \Delta TimeH[sub][sup][arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
                       \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                  1038 \defcomclsgrp{Time}
```

```
• Space[sub][sup][arg] = SPACE_{SUB}^{SUP}(ARG)
   \Space, ...
                         \verb|\SpaceE[sub][sup][arg]| = SPACE-EASY_{SUB}^{SUP}(ARG)
                          \SpaceH[sub][sup][arg] = SPACE-HARD_{SUB}^{SUP}(ARG)
                          \SpaceC[sub][sup][arg] = SPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \NSpace[sub][sup][arg] = NSPACE_{SUB}^{SUP}(ARG)
                          \verb|\NSpaceE[sub][sup][arg]| = NSPACE-EASY_{SUB}^{SUP}(ARG)
                          \NSpaceH[sub][sup][arg] = NSPACE-HARD_{SUB}^{SUP}(ARG)
                          \NSpaceC[sub][sup][arg] = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
                          \USpaceE[sub][sup][arg] = USPACE-EASY_{SUB}^{SUP}(ARG)
                          \USpaceH[sub][sup][arg] = USPACE-HARD_{SUB}^{SUP}(ARG)
                          \USpaceC[sub][sup][arg] = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                          ASpaceE[sub][sup][arg] = ASPACE-EASY_{SUB}^{SUP}(ARG)
                          ASpaceH[sub][sup][arg] = ASPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|ASpaceC[sub][sup][arg]| = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1039 \defcomclsgrp{Space}
                       • \lfloor LogTime[sub][sup][arg] = LogTime_{SUB}^{SUP}(ARG)
 \LogTime, ...
                         \texttt{\logTimeE[sub][sup][arg]} = \text{LogTime-EASY}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                         \LogTimeH[sub][sup][arg] = LogTime-HARD_{SUB}^{SUP}(ARG)
                         \LogTimeC[sub][sup][arg] = LogTime-Complete_{SUB}^{SUP}(ARG)
                       • \NLogTime[sub][sup][arg] = NLogTime_{SUB}^{SUP}(ARG)
                         \NLogTimeE[sub][sup][arg] = NLogTime-EASY_{SUB}^{SUP}(ARG)
                          \verb|\NLogTimeH[sub][sup][arg]| = NLOGTIME-HARD_{SUB}^{SUP}(ARG)
                          \NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)
                       • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                         \label{eq:ULogTimeEsub} $$ \ULogTimeE[sub] [sup] [arg] = ULogTime-EASY_{SUB}^{SUP}(ARG) $$
                         \verb|\ULogTimeH[sub][sup][arg]| = ULogTime-Hard_{SUB}^{SUP}(ARG)
                         \ULogTimeC[sub][sup][arg] = ULogTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                          ALogTimeE[sub][sup][arg] = ALogTime-EASY_{SUB}^{SUP}(ARG)
                          \ALogTimeH[sub][sup][arg] = ALogTime-Hard_{SUB}^{SUP}(ARG)
                         \ALogTimeC[sub][sup][arg] = ALogTime-COMPLETE_{SUB}^{SUP}(ARG)
                   1040 \defcomclsgrp{LogTime}
                       • LogSpace[sub][sup][arg] = LogSpace_{SUB}^{SUP}(ARG)
\LogSpace, ...
                          LogSpaceE[sub][sup][arg] = LogSpace-Easy_{SUB}^{SUP}(ARG)
                          \LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(Arg)
                          \lceil LogSpaceC[sub][sup][arg] = LogSpace-Complete_{SUB}^{SUP}(ARG)
                       • \NLogSpace[sub][sup][arg] = NLogSpace_{SUB}^{SUP}(ARG)
                         \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                          \NLogSpaceH[sub][sup][arg] = NLogSpace-Hard_{SUB}^{SUP}(Arg)
                         \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(ARG)
                       • \ULogSpace[sub][sup][arg] = ULogSpace[sub](ARG)
                         \ULogSpaceE[sub][sup][arg] = ULogSpace-Easy_{SUB}^{SUP}(ARG)
                         \ULogSpaceH[sub][sup][arg] = ULogSpace-HardSup(Arg)
                         \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(Arg)
                       \bullet \ \ \texttt{ALogSpace[sub][sup][arg]} = ALogSpace^{SUP}_{SUB}(ARG)
                          \ALogSpaceE[sub][sup][arg] = ALogSpace-Easy_{SUB}^{SUP}(ARG)
                          \ALogSpaceH[sub][sup][arg] = ALogSpace-Hard_{SUB}^{SUP}(Arg)
                          ALogSpaceC[sub][sup][arg] = ALogSpace-Complete_{SUB}^{SUP}(ARG)
                   1041 \defcomclsgrp{LogSpace}
                       \PTime, ...
                         \P [sub] [sup] [arg] = PTIME-EASY^{SUP}_{SUB}(ARG)
                         \label{eq:ptimeH} $$ \Pr[\sup] [\arg] = \Pr[\operatorname{HARD}^{SUP}_{SUB}(ARG)] $$
                         \label{eq:ptimeC} $$\operatorname{Csub}[\sup][\arg] = \operatorname{PTIME-COMPLETE}^{SUP}_{SUB}(ARG)$
```

```
• \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                           \verb|\NPTimeE[sub][sup][arg]| = NPTIME-EASY_{SUB}^{SUP}(ARG)
                           \NPTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG)
                           \verb|\NPTimeC[sub][sup][arg]| = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • \UPTime[sub][sup][arg] = UPTIME_{SUB}^{SUP}(ARG)
                           \verb|\UPTimeE[sub][sup][arg]| = UPTIME\text{-}EASY^{SUP}_{SUB}(ARG)
                           \verb|\UPTimeH[sub][sup][arg]| = UPTIME-HARD_{SUB}^{SUP}(ARG)
                           \label{eq:uptimeC} $$\operatorname{UPTimeC[sub][sup][arg]} = \operatorname{UPTIME-COMPLETE}^{SUP}_{SUB}(ARG)$
                         • APTime[sub][sup][arg] = APTIME_{SUB}^{SUP}(ARG)
                           \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(\operatorname{ARG})
                           \Delta PTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                           \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                    1042 \defcomclsgrp{PTime}
 \PSpace, ...
                         \verb|\PSpaceE[sub][sup][arg]| = PSPACE-EASY_{SUB}^{SUP}(ARG)
                           \verb|\PSpaceH[sub][sup][arg]| = PSpace-Hard_{SUB}^{SUP}(ARG)
                           \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                           \label{eq:npspace} $$\PSPACE-EASY_{SUB}^{SUP}(ARG) = NPSPACE-EASY_{SUB}^{SUP}(ARG)$
                           \NPSpaceH[sub][sup][arg] = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                           \label{eq:npspaceC} $$ \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                         • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                           \label{eq:upspace} $$ \UPSPACE-EASY_{SUB}^{SUP}(ARG) = UPSPACE-EASY_{SUB}^{SUP}(ARG) $$
                           \label{eq:upspace} $$ \UPSpaceH[sub] [sup] [arg] = UPSpace-Hard_{SUB}^{SUP}(ARG) $$
                           \UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • APSpace[sub][sup][arg] = APSPACE_{SUB}^{SUP}(ARG)
                           \verb|\APSpaceE[sub][sup][arg]| = APSPACE-EASY_{SUB}^{SUP}(ARG)
                           \label{eq:apsign} $$ \APSpaceH[sub] [sup] [arg] = APSpace-HARD_{SUB}^{SUP}(ARG) $$
                           \triangle PSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                    1043 \defcomclsgrp{PSpace}
                          \qquad \qquad \bullet \ \ \texttt{QPTime[sub][sup][arg]} = \mathrm{QPTIME}^{SUP}_{SUB}(\mathrm{ARG}) 
 \QPTime, ...
                           \label{eq:QPTimeEsub} $$ \operatorname{[sup]}[arg] = \operatorname{QPTIME-EASY}^{\operatorname{SUP}}_{\operatorname{SUB}}(\operatorname{ARG}) $$
                           \QPTimeH[sub][sup][arg] = QPTIME-HARD_{SUB}^{SUP}(ARG)
                           \verb|\QPTimeC[sub][sup][arg]| = \mathrm{QPTIME\text{-}COMPLETE}^{SUP}_{SUB}(ARG)
                         • \NQPTime[sub][sup][arg] = NQPTIME_{SUB}^{SUP}(ARG)
                           \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                           \NQPTimeH[sub][sup][arg] = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                           \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • \UQPTime[sub][sup][arg] = UQPTIME_{SUB}^{SUP}(ARG)
                           \verb|VQPTimeE[sub][sup][arg]| = UQPTIME-EASY_{SUB}^{SUP}(ARG)
                           \verb|VQPTimeH[sub][sup][arg]| = UQPTIME-HARD_{SUB}^{SUP}(ARG)
                           \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                           \triangle QPTimeE[sub][sup][arg] = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                           \AQPTimeH[sub][sup][arg] = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                           \triangle AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                    1044 \ensuremath{ \mbox{ \mbox{\mbox{$\sim$}}} \{QPTime\}
                         \QPSpace, ...
                           \label{eq:QPSpaceEsub} $$ \QPSpaceE[sub] [sup] [arg] = QPSpace-EASY_{SUB}^{SUP}(ARG) $$
                           \verb|\QPSpaceH[sub][sup][arg]| = QPSPACE-HARD_{SUB}^{SUP}(ARG)
                           \label{eq:QPSpaceCsub} $$ \qrup{QPSpace-COMPLETE}_{SUB}^{SUP}(ARG) $$
                         \bullet \ \ \texttt{NQPSpace[sub][sup][arg]} = \mathrm{NQPSpace}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{Arg})
                           \NQPSpaceE[sub][sup][arg] = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                           \verb|NQPSpaceH[sub][sup][arg]| = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                           \NQPSpaceC[sub][sup][arg] = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\verb|VQPSpaceE[sub][sup][arg]| = UQPSPACE-EASY_{SUB}^{SUP}(ARG)
                                         \verb|VQPSpaceH[sub][sup][arg]| = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                                         \label{eq:uqpspaceC} $$ \UQPSpaceC[sub][sup][arg] = UQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
                                     • AQPSpace[sub][sup][arg] = AQPSPACE_{SUB}^{SUP}(ARG)
                                         \verb|\AQPSpaceE[sub][sup][arg]| = \mathrm{AQPSPACE\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                                         \verb|\AQPSpaceH[sub][sup][arg]| = \mathrm{AQPSPACE}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                                         \label{eq:approx} $$ AQPSpaceC[sub][sup][arg] = AQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
                               1045 \defcomclsgrp{QPSpace}
 \ExpTime, ...
                                     • \ensuremath{\mathsf{ExpTime}}[\ensuremath{\mathsf{sup}}][\ensuremath{\mathsf{arg}}] = \ensuremath{\mathsf{EXPTIME}}_{\ensuremath{\mathsf{SUB}}}^{\ensuremath{\mathsf{SUP}}}(\ensuremath{\mathsf{ARG}})
                                         \verb|\ExpTimeE[sub][sup][arg]| = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                                         \texttt{\colored}[sub][sup][arg] = \text{EXPTIME-HARD}^{SUP}_{SUB}(ARG)
                                         \ExpTimeC[sub][sup][arg] = EXPTIME-COMPLETE_{SUP}^{SUP}(ARG)
                                     • \NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                                         \verb|\NExpTimeE[sub][sup][arg]| = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                         \verb|\NExpTimeH[sub][sup][arg]| = NEXPTIME-HARD_{SUB}^{SUP}(ARG)
                                         \NExpTimeC[sub][sup][arg] = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                                     • \UExpTime[sub][sup][arg] = UEXPTIME_{SUB}^{SUP}(ARG)
                                         \label{eq:uexpTimeE} $$ \UEXPTIME-EASY_{SUB}^{SUP}(ARG) = UEXPTIME-EASY_{SUB}^{SUP}(ARG) $$
                                         \label{eq:uexpTimeH} $$ \UEXPTIME-HARD_{SUB}^{SUP}(ARG) = UEXPTIME-HARD_{SUB}^{SUP}(ARG) $$
                                         \UExpTimeC[sub][sup][arg] = UEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                                     • \Delta ExpTime[sub][sup][arg] = AEXPTIME_{SUB}^{SUP}(ARG)
                                         \label{eq:action} $$ \Delta ExpTimeE[sub][sup][arg] = AEXPTIME-EASY_{SUB}^{SUP}(ARG) $$
                                         \verb|\AExpTimeH[sub][sup][arg]| = AEXPTIME-HARD_{SUB}^{SUP}(ARG)
                                         \Delta ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                               1046 \defcomclsgrp{ExpTime}
                                     • \ExpSpace[sub][sup][arg] = ExpSpace<sub>Sub</sub>(ARG)
\ExpSpace, ...
                                         \ExpSpaceE[sub][sup][arg] = ExpSpace-Easy_{SUB}^{SUP}(ARG)
                                         \ExpSpaceH[sub][sup][arg] = EXPSPACE-HARD_{SUB}^{SUP}(ARG)
                                         \ensuremath{\mathsf{ExpSpaceC[sub]}}\xspace[sup]\xspace[sup] = \ensuremath{\mathsf{ExpSpace-complete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace(\ensuremath{\mathsf{ExpSpaceComplete}}\xspace))
                                     • \NExpSpace[sub][sup][arg] = NEXPSPACE_{SUB}^{SUP}(ARG)
                                         \verb|NExpSpaceE[sub][sup][arg]| = NEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                                         \NExpSpaceH[sub][sup][arg] = NEXpSpace-HARD_{SUB}^{SUP}(ARG)
                                         \label{eq:new_new_power} $$ \NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                                     • \UExpSpace[sub][sup][arg] = UExpSpace_Sup(ARG)
                                         \UExpSpaceE[sub][sup][arg] = UExpSpace-Easy_{SUB}^{SUP}(ARG)
                                         \UExpSpaceH[sub][sup][arg] = UExpSpace-Hard_{SUB}^{SUP}(ARG)
                                         \label{eq:uexpspace} $$ \UExpSpaceC[sub][sup][arg] = UExpSpace-Complete_{SUB}^{SUP}(ARG) $$
                                     • \Delta ExpSpace[sub][sup][arg] = AExpSpace_{SUB}^{SUP}(ARG)
                                         \verb|\AExpSpaceE[sub][sup][arg]| = AExpSpace-Easy_{SUB}^{SUP}(ARG)
                                         \Delta ExpSpaceH[sub][sup][arg] = AExpSpace-Hard_{Sub}^{SUP}(Arg)
                                         \Delta ExpSpaceC[sub][sup][arg] = AEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                               1047 \defcomclsgrp{ExpSpace}
                               \PH
                                     • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
                               1049 \defcomhrc{PH}
                     \WH
                                     • \WH[sub][sup][par] = W_{SUB}^{SUP}[PAR]
                               1050 \defcomhrc{WH}[W]
                     \AH
                                     \bullet \AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
                               1051 \defcomhrc{AH}[A]
                                     ullet \DLH[sub] [sup] [par] =\Delta_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
       \DLH, \DBH
```

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

```
ullet \DBH[sub][sup][par] = oldsymbol{\Delta}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
               1052 \defcomhrc{DLH}[{\mth{\Delta}}]
               1053 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
                  ullet \ELH[sub][sup][par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
     \ELH, \EBH
                  ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
               1054 \defcomhrc{ELH}[{\mth{\Sigma}}]
               1055 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
     \ULH, \UBH
                  ullet \ULH[sub][sup][par] = \Pi^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
                  ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUR}}[	ext{PAR}]
               1056 \defcomhrc{ULH}[{\mth{\Pi}}]
               1057 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
               1058 \fi
               1063 \ifgam@
               \SATG, ...
               1065 %% Satisfiability Games
               1066 \cmdtxtoparname{SATG}[Sat]
               1068 %% Validity Games
               1069 \cmdtxtoparname{VALG}[Val]
               1070
               1071 %% Evaluation Games
               1072 \cmdtxtoparname{EVLG}[Ev1]
               1073
               1074 %% Synthesis Games
               1075 \cmdtxtoparname{SYNG}[Syn]
               1077 %% Model-Checking Games
               1078 \cmdtxtoparname{MCG} [MC]
               1079
               1080 %% Ehrenfeucht-Fraisse Games
               1081 \cmdtxtoparname{EFG}[EF]
               \PlrSym, \OppSym
               1083 \newcommand{\plrsym}{E}
               1084 \cmdmthsym{Plr}[\plrsym]
               1085 \newcommand{\operatorname{Oppsym}}{A}
               1086 \cmdmthsym{Opp}[\oppsym]
\ArenaName, ... ...
               1087 \newcommand{\arenaname}{A}
               1088 \usrmthlatupp{Arena}{Name}{name}[\arenaname]
   \PosSet, ...
               1089 \newcommand{\possym}{v}
               1090 \newcommand{\posset}{Ps}
               1091 \cmdmthsetext{Pos}[\posset][\possym]
               1092 \cmdmthsymelm{ipos}[\possym_{I}]
               1093 \cmdmthsymelm{fpos}[\possym_{F}]
               1094 \cmdmthset{PPos}[\posset_{\PlrSym}]
               1095 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
               1096 \cmdmthset{OPos}[\posset_{\OppSym}]
               1097 \cmdmthsymelm{opos}[\possym_{\OppSym}]
```

```
\PlrFun ...
                   1098 \mbox{ \newcommand{\plrfun}{pl}}
                   1099 \cmdmthfun{plr}[\plrfun]
         \MovRel
                   1100 \newcommand{\movrel}{Mv}
                   1101 \cmdmthrel{Mov}[\movrel]
   \GameName, ...
                   1102 \newcommand{\gamename}{\Game}
                   1103 \usrmthlatupp{Game}{Name}{name}[\gamename]
         \WinSet
                   1104 \mbox{ \newcommand{\winset}{Wn}}
                   1105 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun
                   1106 \newcommand{\obsset}{Ob}
                   1107 \cmdmthset{Obs}[\obsset]
                   1108 \cmdmthfun{obs}
                   \PthSet, \pthFun
                   1110 \newcommand{\pthsym}{\pi}
                   1111 \newcommand{\pthset}{Pth}
                   1112 \cmdmthsetext{Pth} [\pthset] [\pthsym]
                   1113 \cmdmthfun{pth}
    \HstSet, ... ...
                  1114 \newcommand{\hstsym}{\rho}
                   1115 \newcommand{\hstset}{Hst}
                   1116 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1117 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1118 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1119 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1120 \cmdmthsymelm{ohst}[\hstsym_{\cmlose}]
                   1121 \cmdmthfun{hst}
\PlaySet,\playFun
                   1122 \newcommand{\playsym}{\pi}
                   1123 \newcommand{\playset}{Play}
                   {\tt 1124 \cmdmthsetext{Play}[\playset][\playsym]}
                   1125 \cmdmthfun{play}
    \StrSet, ... ...
                   1126 \newcommand{\strsym}{\sigma}
                   1127 \newcommand{\strset}{Str}
                   1128 \cmdmthsetext{Str}[\strset][\strsym]
                   1129 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1130 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1131 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1132 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
\PrfSet, \prfFun
                   1133 \newcommand{\prfsym}{\xi}
                   1134 \mbox{newcommand{\prfset}{Prf}}
                   1135 \cmdmthsetext{Prf}[\prfset][\prfsym]
\preFun, \sucFun
                   1136 \newcommand{\prefun}{pre}
                   1137 \cmdmthoargfun{pre}[\prefun]
                   1138 \newcommand{\sucfun}{suc}
                   1139 \cmdmthoargfun{suc}[\sucfun]
```

```
\entFun, \escFun ...
               1140 \newcommand{\entfun}{ent}
               1141 \cmdmthoargfun{ent}[\entfun]
               1142 \mbox{newcommand{\escfun}{esc}}
               1143 \cmdmthoargfun{esc}[\escfun]
\intFun, \outFun ...
               1144 \newcommand{\intfun}{int}
               1145 \cmdmthoargfun{int}[\intfun]
               1146 \newcommand{\outfun}{out}
               1147 \cmdmthoargfun{out}[\outfun]
\atrFun, \rchFun ...
               1148 \newcommand{\atrfun}{atr}
               1149 \cmdmthoargfun{atr}[\atrfun]
               1150 \mbox{ } \mbox{newcommand{\rchfun}{rch}}
               1151 \cmdmthoargfun{rch}[\rchfun]
       \liftFun ...
               1152 \newcommand{\liftfun}{lift}
               1153 \cmdmthoargfun{lift}[\liftfun]
       \solFun ...
               1154 \newcommand{\solfun}{sol}
               1155 \cmdmthoargfun{sol}[\solfun]
               \BG, ... ...
               1157 %% Buchi Games
               1158 \cmdtxtoparname{BG}
               1160 %% Co-Buchi Games
               1161 \cmdtxtoparname{CG}
               1163 %% Parity Games
               1164 \cmdtxtoparname{PG}
               1165
               1166 %% Rabin Games
               1167 \cmdtxtoparname{RG}
               1169 %% Streett Games
               1170 \cmdtxtoparname{SG}
               1171
               1172 %% Muller Games
               1173 \cmdtxtoparname{MG}
               \EvnSym, \OddSym
               1175 \newcommand{\evnsym}{0}
               1176 \cmdmthsym{Evn}[\evnsym]
               1177 \newcommand{\oddsym}{1}
               1178 \cmdmthsym{Odd}[\oddsym]
\PrtSet, \prtFun ...
               1179 \neq \{p\}
               1180 \newcommand{\prtset}{Pr}
               1181 \cmdmthsetext{Prt}[\prtset][\prtsym]
               1182 \mbox{ } \mbox{cmdmthfun{prt}[pr]}
```

```
\EG, ... ...
          1185 %% Energy Games
          1186 \cmdtxtoparname{EG}
          1188 %% Mean-Payoff Games
          1189 \cmdtxtoparname{MPG}
          1190
          1191 %% Discounted-Payoff Games
          1192 \cmdtxtoparname{DPG}
          \MaxSym, \MinSym
          1194 \newcommand{\maxsym}{\oplus}
          1195 \cmdmthsym{Max}[\maxsym]
          1196 \newcommand{\minsym}{\boxminus}
          1197 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun
          1198 \newcommand{\wghsym}{w}
          1199 \newcommand{\wghset}{Wg}
          1200 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
          1201 \cmdmthfun{wgh}[wg]
          1203 \fi
          1208 \iflog@
          \BF, \QBF, ...
          1210 % Boolean Formulae
          1211 \cmdtxtoparname{BF}
          1213 % Quantified Boolean Formulae
          1214 \DeclareRobustCommand{\QBF}
              {{\txtname{Q}}\BF}
          1216 \DeclareRobustCommand{\EBF}
              {\ensuremath{\exists}\BF}
          1217
          1218 \DeclareRobustCommand{\UBF}
             {\ensuremath{\forall}\BF}
          \LogSig, ... ...
          1221 \newcommand{\logsig}{L}
          1222 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
    \Tt, \Ff ...
          1223 \mbox{ \newcommand{\ttsym}{\top}}
          1224 \usrmth{Tt}{}{sym}[\ttsym]
          1225 \mbox{ \newcommand{\ffsym}{\bot}}
          1226 \operatorname{Vsrmth}{Ff}{sym}[\operatorname{ffsym}]
```

```
\LNeg, \LNot ...
                   1227 \newcommand{\lnegsym}{\neg}
                   1228 \verb|\usrmth{LNeg}{{}} [\logsym]
                   1229 \mbox{ } {\mbox{lnotsym}}{\mbox{sim}}
                   1230 \t McTh{LNot}{}{luop}[\t motsym]
    \LCon, \LDis ...
                   1231 \newcommand{\lconsym}{\land}
                   1232 \usrmth{LCon}{}{lbop}[\lconsym]
                   1233 \newcommand{\ldissym}{\lor}
                   1234 \usrmth{LDis}{}{lbop}[\ldissym]
    \LImp, \LCoi ...
                   1235 \newcommand{\limpsym}{\rightarrow}
                   1236 \usrmth{LImp}{}{lbop}[\limpsym]
                   1237 \newcommand{\lcoisym}{\leftrightarrow}
                   1238 \usrmth{LCoi}{}{lbop}[\lcoisym]
    \LExs, \LAll ...
                   1239 \newcommand{\lexssym}{\exists}
                   1240 \usrmth{LExs}{}{luop}[\lexssym]
                   1241 \newcommand{\lallsym}{\forall}
                   1242 \usrmth{LAll}{}{luop}[\lallsym]
     \APSet, ... ...
                   1243 \mbox{ newcommand{\apsym}{p}}
                   1244 \newcommand{\apset}{AP}
                   1245 \cmdmthsetext{AP}[\apset][\apsym]
                   1246 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
            \sub ...
                   1247 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
                   1248 \usrmth{Cnt}{}{sym}[C]
                   1249 \verb|\usrmth{Qnt}{{\S}m}[Q]
                   1250 \verb|\usrmth{Sym}{{}}| [\odot]
      \QAE, \QEA ...
                   1251 \usrmth{QAE}{}{sym}[\forall\exists]
                   1252 \usrmth{QEA}{}{sym}[\exists\forall]
    \QntSet, ... ...
                   1253 \newcommand{\qntsym}{\wp}
                   1254 \mbox{ } \mbox{qntset}{Qn}
                   1255 \cmdmthsetext{Qnt}[\qntset][\qntsym]
   \free, \bound ...
                   1256 \t free}{}{argfun}
                   1257 \operatorname{sym}{h\{bound}{\{\}\{argfun\}}
      \dep, \alt ...
                   1258 \usrmth{dep}{}{argfun}
                   1259 \usrmth{alt}{}{argfun}
 \cnf, \dnf, ... ...
                   1260 \cmdtxtabr{cnf}
                   1261 \cmdtxtabr{dnf}
                   1262 \cmdtxtabr{pnf}
                   1263 \cmdtxtabr{nnf}
```

```
\LogStr, ... ...
                               1265 \newcommand{\logstr}{L}
                              1266 \verb|\usrmth|| a tupp{Log}{Str}{str}[\logstr]
\ValSet, ... ...
                              1267 \newcommand{\valsym}{\xi}
                              1268 \newcommand{\valset}{Val}
                              1269 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet, ... ...
                              1270 \newcommand{\asgsym}{\chi}
                              1271 \newcommand{\asgset}{Asg}
                              1272 \cmdmthsetext{Asg}[\asgset][\asgsym]
                               \FOL, ... ...
                              1274 % First-Order Logic
                              1275 \cmdtxtoparname{FOL}[Fol]
                              1276 \cmdtxtoparname{F0}[F0]
                              1278 % Monadic First-Order Logic
                              1279 \DeclareRobustCommand{\MFOL}
                                         {{\txtname{M}}\FOL}
                               1281 \DeclareRobustCommand{\MFO}
                                         {\{\text{txtname}\{M\}}\F0\}
                              \VarSig, ... ...
                              1284 \newcommand{\varsig}{V}
                              1285 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                              1286 \newcommand{\varsym}{x}
                              1287 \newcommand{\varset}{Vr}
                               1288 \cmdmthsetext{Var}[\varset][\varsym]
                               1289 \usrmth{var}{}{argfun}[vr]
                               1290 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
\ConSig, ... ...
                              1291 \newcommand{\consig}{C}
                              1292 \verb|\usrmth|| atupp{Con}{Sig}{sig}[\consig]
                              1293 \newcommand{\consym}{c}
                               1294 \mbox{ } \mbox{conset}{Cn}
                               1295 \cmdmthsetext{Con}[\conset][\consym]
                               1296 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
                              1297 \newcommand{\funsig}{F}
                              1298 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                               1299 \mbox{ } \mbox{newcommand{\hrunsym}{f}}
                               1300 \mbox{ } \mbox
                               1301 \cmdmthsetext{Fun}[\funset][\funsym]
                               1302 \usrmth{fun}{}{argfun}[fn]
                              1303 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
                              1304 \newcommand{\tersig}{T}
                               1305 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
                               1306 \newcommand{\tersym}{t}
                               1307 \mbox{ \newcommand{\terset}{Tr}}
                               1308 \cmdmthsetext{Ter}[\terset][\tersym]
                               1309 \operatorname{ter}{{argfun}}
```

```
\RelSig, ... ...
                                   1310 \mbox{ } \mbox{relsig}{R}
                                   1311 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                                   1312 \neq \{r\}
                                   1313 \newcommand{\relset}{Rl}
                                   1314 \cmdmthsetext{Rel}[\relset][\relsym]
                                   1315 \usrmth{rel}{}{argfun}[rl]
                      \skm ...
                                   1316 \usrmth{skm}{}{argfun}
                                   \ConStr, ... ...
                                   1318 \newcommand{\constr}{C}
                                   1319 \usrmthlatupp{Con}{Str}{str}[\constr]
    \FunStr, ... ...
                                   1320 \mbox{ } \mbox{newcommand} \mbox{ } \mbox{funstr}{F}
                                   1321 \verb|\usrmth|| atupp{Fun}{Str}{str}[\funstr]
    \TerStr, ... ...
                                   1322 \mbox{ } \mbox
                                   1323 \usrmthlatupp{Ter}{Str}{str}[\terstr]
    \RelStr, ... ...
                                   1324 \mbox{ } \mbox{relstr}{R}
                                   1325 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                                   \DF, \IF, ... ...
                                   1327 % Dependence-Friendly Logic
                                   1328 \cmdtxtoparname{DF}
                                   1329
                                   1330 % Independence-Friendly Logic
                                   1331 \cmdtxtoparname{IF}
                                   1333 % Dependence/Independence-Friendly Logic
                                   1334 \cmdtxtoparname{DIF}
                                   1335
                                   1336 % Dependence Logic
                                   1337 \cmdtxtoparname{DL}
                                   1339 % Team Logic
                                   1340 \cmdtxtoparname{TL}
                                   1342\,\% Alternating Dependence-Friendly Logic
                                   1343 \cmdtxtoparname{ADF}
                                   1344
                                   1345 % Alternating Independence-Friendly Logic
                                   1346 \cmdtxtoparname{AIF}
                                   1348 % Alternating Dependence/Independence-Friendly Logic
                                   1349 \cmdtxtoparname{ADIF}
                                   \LEExs, \LAA11
                                   1351 \newcommand{\leexssym}{\Sigma}
                                   1352 \usrmth{LEExs}{}{luop}[\leexssym]
                                   1353 \newcommand{\laallsym}{\Pi}
                                   1354 \usrmth{LAA11}{}{luop}[\laallsym]
```

```
\SOL, ... ...
           1357 % Second-Order Logic
           1358 \cmdtxtoparname{SOL}[Sol]
           1359 \cmdtxtoparname{SO}
           1360
           1361 % Weak Second-Order Logic
           1362 \DeclareRobustCommand{\WSOL}
               {{\txtname{W}}\SOL}
           1364 \DeclareRobustCommand{\WSO}
           1365 {{\txtname{W}}\SO}
           1367 % coWeak Second-Order Logic
           1368 \DeclareRobustCommand{\coWSOL}
               {{\txtname{coW}}\SOL}
           1370 \DeclareRobustCommand{\coWSO}
               {{\txtname{coW}}\SO}
           1371
           1372
           1373 % Monadic Second-Order Logic
           1374 \DeclareRobustCommand{\MSOL}
               {{\txtname{M}}\SOL}
           1376 \DeclareRobustCommand{\MSO}
               {\{\text{Xtname}\{M\}\}\S0\}}
           1377
           1378
           1379 % Weak Monadic Second-Order Logic
           1380 \DeclareRobustCommand{\WMSOL}
           1381 {{\txtname{W}}\MSOL}
           1382 \DeclareRobustCommand{\WMSO}
           1383
               {{\txtname{W}}\MSO}
           1385 % coWeak Monadic Second-Order Logic
           1386 \DeclareRobustCommand{\coWMSOL}
               {{\txtname{coW}}\MSOL}
           1388 \verb|\DeclareRobustCommand{\coWMSO}|
               {{\txtname{coW}}\MSO}
           \FVarSet, ... ...
           1391 \newcommand{\fvarsym}{x}
           1392 \newcommand{\fvarset}{FVr}
           1393 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
           1394 \newcommand{\svarsym}{X}
           1395 \newcommand{\svarset}{SVr}
           1396 \cmdmthsetext{SVar}[\svarset][\svarsym]
           \TL, \PL, ... ...
           1399 % Tree Logic
           1400 \cmdtxtoparname{TL}
           1401
           1402 % Weak Tree Logic
           1403 \DeclareRobustCommand{\WTL}
           1404 \{\{\text{txtname}\{W\}\}\}\}
```

```
1406 % coWeak Tree Logic
              1407 \DeclareRobustCommand{\coWTL}
              1408
                   {{\txtname{coW}}\TL}
              1409
              1410 % Monadic Tree Logic
              1411 \DeclareRobustCommand{\MTL}
                   {\{\text{txtname}\{M\}}\}\TL}
              1412
              1413
              1414 % Weak Monadic Tree Logic
              1415 \DeclareRobustCommand{\WMTL}
                   {{\txtname{W}}\MTL}
              1417
              1418 % coWeak Monadic Tree Logic
              1419 \verb|\DeclareRobustCommand{\coWMTL}|
                   {{\txtname{coW}}\MTL}
              1421
              1422 % Path Logic
              1423 \cmdtxtoparname{PL}
              1425 % Weak Path Logic
              1426 \DeclareRobustCommand{\WPL}
              1427
                   {\{\text{Xtname}(W)}\PL\}
              1428
              1429 % coWeak Path Logic
              1430 \DeclareRobustCommand{\coWPL}
                   {{\txtname{coW}}\PL}
              1431
              1433 % Monadic Path Logic
              1434 \DeclareRobustCommand{\MPL}
                   {\{\text{N}}\
              1435
              1437 % Weak Monadic Path Logic
              1438 \DeclareRobustCommand{\WMPL}
                   {{\txtname{W}}\MPL}
              1439
              1440
              1441 % coWeak Monadic Path Logic
              1442 \DeclareRobustCommand{\coWMPL}
                   {{\txtname{coW}}\MPL}
              \ML, \GML, ...
              1447 % Modal Logic
              1448 \cmdtxtoparname{ML}
              1450 % Graded Modal Logic
              1451 \DeclareRobustCommand{\GML}
              1452
                   {\{\text{txtname}\{G\}\}\setminus ML\}}
              1453
              1454 % Quantified Modal Logic
              1455 \DeclareRobustCommand{\QML}
                   {\{\text{txtname}\{Q\}\}\setminus ML\}}
              1457 \DeclareRobustCommand{\EML}
                   {\ensuremath{\exists}\ML}
              1459 \DeclareRobustCommand{\UML}
                   {\ensuremath{\forall}\ML}
```

1405

```
\Opr ...
                1462 \usrmth{Opr}{}{sym}[Op]
   \DMod, \BMod ...
                1463 \verb|\usrmth{DMod}{{}} sym{[\Diamond]}
                1464 \usrmth{BMod}{}{sym}[\Box]
     \Exs, \All ...
                1465 \DeclareRobustCommand{\Exs}[1]
                1466 \quad {\bf \{\defval{\argmid{\langle}}{\langle}}{\defval}}
                1467 \DeclareRobustCommand{All}[1]
                1468 {\bf \{\hat \{\hat \}}_{1}_{\infty}}
                \KrpStr, ... ...
                1470 \mbox{ } \mbox{wrpstr}{K}
                1471 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
   \WrlSet, ... ...
                1472 \newcommand{\wrlsym}{w}
                1473 \newcommand{\wrlset}{W}
                1474 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
                1475 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel ...
                1476 \mbox{ } \mbox{newcommand{\accsym}{R}}
                1477 \cmdmthrel{Acc} [\accsym]
                1478 \cmdmthrel{Trn}[\accsym]
        \labFun
                1479 \mbox{labsym}{\lambda}
                1480 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun
                1481 \providecommand{\phi}{\phi}
                1482 \providecommand{\pthset}{Pth}
                1483 \cmdmthsetext{Pth}[\pthset][\pthsym]
                1484 \cmdmthfun{pth}
                \MC, \GMC, ... ...
                1486 % Mu Calculus
                1487 \cmdtxtoparname{MC} [\ensuremath{\mu}-Calculus]
                1488
                1489 % Graded Mu Calculus
                1490 \DeclareRobustCommand{\GMC}
                     {\{\text{txtname}\{G\}\}\setminus MC\}}
                1493 % Quantified Mu Calculus
                1494 \DeclareRobustCommand{\QMC}
                    {\{\text{txtname}\{Q\}\}\setminus MC\}}
                1496 \DeclareRobustCommand{\EMC}
                    {\ensuremath{\exists}\MC}
                1498 \DeclareRobustCommand{\UMC}
                1499
                     {\ensuremath{\forall}\MC}
                1501 % Alternation-Free Mu Calculus
                1502 \DeclareRobustCommand{\AFMC}
                1503 \{\{\text{txtname}\{AF\}\}\}\
```

```
1504
             1505 % Alternation-Free Graded Mu Calculus
             1506 \verb|\DeclareRobustCommand{\AFGMC}|
                  {{\txtname{AF}}\GMC}
             1508
             1509 % Quantified Alternation-Free Mu Calculus
             1510 \DeclareRobustCommand{\QAFMC}
                 {\{\text{txtname}\{Q\}\}\setminus AFMC\}}
             1512 \DeclareRobustCommand{\EAFMC}
             1513 {\ensuremath{\exists}\AFMC}
             1514 \DeclareRobustCommand{\UAFMC}
                  {\ensuremath{\forall}\AFMC}
             1516
             \PTL, \LTL, ...
             1520 % Propositional Temporal Logic
             1521 \cmdtxtoparname{PTL}
             1522
             1523 % Quantified Propositional Temporal Logic
             1524 \DeclareRobustCommand{\QPTL}
             1525 \{\{\text{txtname}\{Q\}\}\}\}
             1526 \DeclareRobustCommand{\EPTL}
             1527 {\ensuremath{\exists}\PTL}
             1528 \DeclareRobustCommand{\UPTL}
                  {\ensuremath{\forall}\PTL}
             1531 % Linear Temporal Logic
             1532 \verb|\cmdtxtoparname{LTL}|
             1534 % Quantified Linear Temporal Logic
             1535 \DeclareRobustCommand{\QLTL}
                  {{\txtname{Q}}\LTL}
             1537 \DeclareRobustCommand{\ELTL}
                  {\ensuremath{\exists}\LTL}
             1539 \DeclareRobustCommand{\ULTL}
                 {\ensuremath{\forall}\LTL}
             1542 \usrmth{X}{}{sym}[X\,]
             1543 \usrmth{F}{}{sym}[F\,]
             1544 \operatorname{G}{{\rm G}},
             1545 \usrmth{U}{}{sym}[\,U\,]
             1546 \usrmth{R}{}{sym}[\,R\,]
      \Y, ... ...
             1547 \usrmth{Y}{}{sym}[G\,]
             1548 \operatorname{P}{{\rm p}}{{\rm p},]\left( {\rm SavePilcrow} \right)
             1549 \operatorname{H}{H}{sym}[H\,]\left( \operatorname{SaveDoubleAcute}H \right)
             1550 \mbox{usrmth{S}{}{sym}[\,S\,]\left(\script{SaveSectionSymbol}\S)}
             1551 \usrmth{B}{}{sym}[\,B\,]
```

```
\PDL, \CTL, ... ...
               1555 % Propositional Dynamic Logic
               1556 \cmdtxtoparname{PDL}
               1557
               1558 % Computation Tree Logic
               1559 \cmdtxtoparname{CTL}
               1560
               1561 % Weak Computation Tree Logic
               1562 \verb|\DeclareRobustCommand{\WCTL}|
                    {\{\text{txtname}\{W\}}\CTL\}
               1565\;\% Quantified Computation Tree Logic
               1566 \verb|\DeclareRobustCommand{\QCTL}|
               1567 {\{\text{txtname}\{Q\}\}\}
               1568 \DeclareRobustCommand{\ECTL}
               1569 {\ensuremath{\exists}\CTL}
               1570 \DeclareRobustCommand{\UCTL}
                    {\ensuremath{\forall}\CTL}
               1573 % Improved Computation Tree Logic
               1574 \cmdtxtoparname{CTLP}[CTL$^{+}$]
               1576 % Weak Improved Computation Tree Logic
               1577 \verb|\DeclareRobustCommand{\WCTLP}|
                    {{\txtname{W}}\CTLP}
               1578
               1579
               1580 % Quantified Improved Computation Tree Logic
               1581 \DeclareRobustCommand{\QCTLP}
                    {\{\text{txtname}\{Q\}\}\}\
               1583 \DeclareRobustCommand{\ECTLP}
                    {\ensuremath{\exists}\CTLP}
               1585 \DeclareRobustCommand{\UCTLP}
               1586
                    {\ensuremath{\forall}\CTLP}
               1587
               1588 % Full Computation Tree Logic
               1589 \cmdtxtoparname{CTLS}[CTL*]
               1591 % Weak Full Computation Tree Logic
               1592 \DeclareRobustCommand{\WCTLS}
                    {{\txtname{W}}\CTLS}
               1593
               1595 % Quantified Full Computation Tree Logic
               1596 \DeclareRobustCommand{\QCTLS}
                    {\{\text{txtname}\{Q\}\}\CTLS}
               1598 \DeclareRobustCommand{\ECTLS}
               1599 {\ensuremath{\exists}\CTLS}
               1600 \DeclareRobustCommand{\UCTLS}
                   {\ensuremath{\forall}\CTLS}
               \E, \A ...
               1603 \usrmth{E}{}{sym}
               1604 \mbox{ \normalfootnote{A}}{sym}
               \ATL, ... ...
               1607 % Alternating Temporal Logic
```

1608 \cmdtxtoparname{ATL}

```
1610 % Weak Alternating Tree Logic
             1611 \DeclareRobustCommand{\WATL}
             1612
                   {\{\text{txtname}\{W\}}\ATL\}
             1613
             1614 % Quantified Alternating Temporal Logic
             1615 \DeclareRobustCommand{\QATL}
             1616 \{\{\text{txtname}\{Q\}\}\} ATL\}
             1617 \DeclareRobustCommand{\EATL}
             1618 {\ensuremath{\exists}\ATL}
             1619 \DeclareRobustCommand{\UATL}
                   {\ensuremath{\forall}\ATL}
             1621
             1622 % Improved Alternating Temporal Logic
             1623 \cmdtxtoparname{ATLP}[ATL$^{+}$]
             1625 % Weak Improved Alternating Tree Logic
             1626 \DeclareRobustCommand{\WATLP}
                   {{\txtname{W}}\ATLP}
             1627
             1629 % Quantified Improved Alternating Temporal Logic
             1630 \DeclareRobustCommand{\QATLP}
             1631
                   {\{\text{txtname}\{Q\}\}\setminus ATLP\}}
             1632 \DeclareRobustCommand{\EATLP}
                  {\ensuremath{\exists}\ATLP}
             1634 \DeclareRobustCommand{\UATLP}
                   {\ensuremath{\forall}\ATLP}
             1635
             1636
             1637 % Full Alternating Temporal Logic
             1638 \cmdtxtoparname{ATLS}[ATL*]
             1640 % Weak Full Alternating Tree Logic
             1641 \DeclareRobustCommand{\WATLS}
                   {{\txtname{W}}\ATLS}
             1642
             1643
             1644 % Quantified Full Alternating Temporal Logic
             1645 \DeclareRobustCommand{\QATLS}
                  {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
             1647 \DeclareRobustCommand{\EATLS}
                   {\ensuremath{\exists}\ATLS}
             1649 \DeclareRobustCommand{\UATLS}
                   {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
             1652 \DeclareRobustCommand{\EExs}[1]
                   {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
             1654 \DeclareRobustCommand{\AAll}[1]
                   {\mth{\argmid{\left[\left[\}{\defval{#1}{\emptyset}}{\right]\right]}}}
             \CGS ...
             1657 \cmdtxtname{CGS}
\CGSStr, ... ...
             1658 \mbox{ \newcommand{\cgsstr}{G}}
             1659 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1660 \mbox{ } \mbox{newcommand{\agnsym}{a}}
             1661 \newcommand{\agnset}{Ag}
             1662 \cmdmthsetext{Agn} [\agnset] [\agnsym]
```

1609

```
\PosSet, ... ...
                                         1663 \providecommand{\possym}{v}
                                         1664 \providecommand{posset}{Ps}
                                         1665 \cmdmthsetext{Pos}[\posset][\possym]
                                         1666 \verb|\cmdmthsymelm{ipos}[\possym_{I}]|
                                         1667 \cmdmthsymelm{fpos}[\possym_{F}]
                                         1668 \cmdmthset{PPos}[\posset_{\PlrSym}]
                                          1669 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                                          1670 \cmdmthset{OPos}[\posset_{\OppSym}]
                                         1671 \cmdmthsymelm{opos}[\possym_{\OppSym}]
          \SttSet, ... ...
                                         1672 \mbox{ } \mbox
                                         1673 \mbox{ } \mbox{newcommand{\sttset}{St}}
                                         1674 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                         1675 \cmdmthset{IStt}[\sttset_{I}]
                                         1676 \cmdmthsymelm{istt}[\sttsym_{I}]
                                         1677 \cmdmthset{FStt}[\sttset_{F}]
                                         1678 \verb|\cmdmthsymelm{fstt}| [\verb|\sttsym_{F}|]
          \ActSet, ... ...
                                         1679 \newcommand{\actsym}{c}
                                         1680 \newcommand{\actset}{Ac}
                                         1681 \verb|\cmdmthsetext{Act}| [\verb|\actset|] [\verb|\actsym|]
          \DecSet, ... ...
                                         1682 \mbox{ \newcommand{\decsym}{d}}
                                         1683 \newcommand{\decset}{Dc}
                                         1684 \cmdmthsetext{Dec}[\decset][\decsym]
                     \movFun ...\tau
                                         1685 \newcommand{\movsym}{\tau}
                                         1686 \cmdmthfun{mov}[\movsym]
          \HstSet, ... ...
                                         1687 \providecommand{\hstsym}{\rho}
                                         1688 \providecommand{\hstset}{Hst}
                                         1689 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                         1690 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                         1691 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                          1692 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                         1693 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                                         1694 \cmdmthfun{hst}
\PlaySet,\playFun
                                          1695 \providecommand{\playsym}{\pi}
                                         1696 \providecommand{\playset}{Play}
                                         1697 \cmdmthsetext{Play}[\playset][\playsym]
                                         1698 \cmdmthfun{play}
          \StrSet, ... ...
                                         1699 \providecommand{\strsym}{\sigma}
                                         1700 \providecommand{\strset}{Str}
                                         1701 \cmdmthsetext{Str}[\strset][\strsym]
                                         1702 \cmdmthset{PStr}[\strset_{\PlrSym}]
                                          1703 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                                          1704 \cmdmthset{OStr}[\strset_{\OppSym}]
                                         1705 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet, \prfFun
                                          1706 \providecommand{\prfsym}{\xi}
                                          1707 \providecommand{\prfset}{Prf}
                                          1708 \cmdmthsetext{Prf}[\prfset][\prfsym]
```

```
\SL, ... ...
         1710 % Strategy Logic
         1711 \cmdtxtoparname{SL}
         1712
         1713 \DeclareRobustCommand{\ESL}
               {\ensuremath{\exists}\SL}
         1714
          1715 \DeclareRobustCommand{\USL}
               {\ensuremath{\forall}\SL}
          1717
          1718 \DeclareRobustCommand{\FSL}
               {\{\text{txtname}\{F\}\}\SL\}}
          1719
          1720
          1721 \DeclareRobustCommand{\EFSL}
               {\ensuremath{\exists}\FSL}
          1723 \DeclareRobustCommand{\UFSL}
               {\ensuremath{\forall}\FSL}
          1724
          1725
          1726 % One-Goal Strategy Logic
          1727 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
               {\SL[#1][#2][1g\arglef{,}{#3}]}
         1729
          1730 \DeclareRobustCommand{\EOGSL}
               {\ensuremath{\exists}\OGSL}
          1732 \DeclareRobustCommand{\UOGSL}
          1733
               {\ensuremath{\forall}\OGSL}
         1734
          1735 \DeclareRobustCommand{\FOGSL}
               {{\txtname{F}}\OGSL}
         1736
          1738 \DeclareRobustCommand{\EFOGSL}
               {\ensuremath{\exists}\FOGSL}
          1740 \DeclareRobustCommand{\UFOGSL}
               {\ensuremath{\forall}\FOGSL}
          1741
          1743\ \% Conjunctive-Goal Strategy Logic
          1744 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
               {\SL[#1][#2][cg\arglef{,}{#3}]}
          1745
          1746
          1747 \DeclareRobustCommand{\ECGSL}
               {\ensuremath{\exists}\CGSL}
          1749 \DeclareRobustCommand{\UCGSL}
               {\ensuremath{\forall}\CGSL}
          1751
          1752 \DeclareRobustCommand{\FCGSL}
         1753
               {\{\text{xtname}\{F\}\}\times GSL\}}
          1754
          1755 \DeclareRobustCommand{\EFCGSL}
              {\ensuremath{\exists}\FCGSL}
          1757 \DeclareRobustCommand{\UFCGSL}
               {\ensuremath{\forall}\FCGSL}
          1760 % Disjunctive-Goal Strategy Logic
          1761 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
               {\SL[#1][#2][dg\arglef{,}{#3}]}
          1762
          1763
          1764 \DeclareRobustCommand{\EDGSL}
               {\ensuremath{\exists}\DGSL}
          1765
          1766 \DeclareRobustCommand{\UDGSL}
          1767
               {\ensuremath{\forall}\DGSL}
          1768
          1769 \DeclareRobustCommand{\FDGSL}
```

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

```
1771
1772 \DeclareRobustCommand{\EFDGSL}
            {\ensuremath{\exists}\FDGSL}
1774 \DeclareRobustCommand{\UFDGSL}
1775
             {\ensuremath{\forall}\FDGSL}
1777 % Alternating-Goal Strategy Logic
1778 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
              {\SL[#1][#2][ag\arglef{,}{#3}]}
1781 \DeclareRobustCommand{\EAGSL}
              {\ensuremath{\exists}\AGSL}
1783 \DeclareRobustCommand{\UAGSL}
             {\ensuremath{\forall}\AGSL}
1785
1786 \DeclareRobustCommand{\FAGSL}
              {\{\text{xtname}\{F\}\}\xgsl}
1787
1788
1789 \DeclareRobustCommand{\EFAGSL}
              {\ensuremath{\exists}\FAGSL}
1791 \DeclareRobustCommand{\UFAGSL}
             {\ensuremath{\forall}\FAGSL}
1793
1794 % Extended-Goal Strategy Logic
1795 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
             {\SL[#1][#2][eg\arglef{,}{#3}]}
1796
1797
1798 \DeclareRobustCommand{\EEGSL}
             {\ensuremath{\exists}\EGSL}
1800 \DeclareRobustCommand{\UEGSL}
              {\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\ensuremath}\en
1801
1803 \DeclareRobustCommand{\FEGSL}
             {\{ \text{xtname}\{F\} \} \times GSL \}}
1804
1805
1806 \DeclareRobustCommand{\EFEGSL}
             {\ensuremath{\exists}\FEGSL}
1808 \DeclareRobustCommand{\UFEGSL}
              {\ensuremath{\forall}\FEGSL}
1809
1810
1811 % Boolean-Goal Strategy Logic
1812 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
              {\SL[#1][#2][bg\arglef{,}{#3}]}
1815 \DeclareRobustCommand{\EBGSL}
            {\ensuremath{\exists}\BGSL}
1816
1817 \DeclareRobustCommand{\UBGSL}
             {\ensuremath{\forall}\BGSL}
1818
1819
1820 \DeclareRobustCommand{\FBGSL}
             {\{ \text{xtname}\{F\} \} \times GSL \}}
1821
1822
1823 \DeclareRobustCommand{\EFBGSL}
              {\ensuremath{\exists}\FBGSL}
1825 \DeclareRobustCommand{\UFBGSL}
1826
             {\ensuremath{\forall}\FBGSL}
1827
1828\ \%\ {\tt Nested-Goal\ Strategy\ Logic}
1829 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
             {\SL[#1][#2][ng\arglef{,}{#3}]}
1830
1831
1832 \DeclareRobustCommand{\ENGSL}
             {\ensuremath{\exists}\NGSL}
```

```
1834 \DeclareRobustCommand{\UNGSL}
                                                                                                  {\ensuremath{\forall}\NGSL}
                                                                      1835
                                                                      1836
                                                                      1837 \DeclareRobustCommand{\FNGSL}
                                                                      1838
                                                                                                 {\{\text{txtname}\{F\}\}\setminus xGSL\}}
                                                                     1839
                                                                      1840 \DeclareRobustCommand{\EFNGSL}
                                                                                              {\ensuremath{\exists}\FNGSL}
                                                                      1842 \DeclareRobustCommand{\UFNGSL}
                                                                                                  {\ensuremath{\forall}\FNGSL}
                                                                      1844
                                                                      1845 % Undefined-Goal Strategy Logic
                                                                      1846 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
                                                                                                   {\SL[#1][#2][xg\arglef{,}{#3}]}
                                                                      1848
                                                                      1849 \DeclareRobustCommand{\EXGSL}
                                                                                                 {\ensuremath{\exists}\XGSL}
                                                                      1851 \DeclareRobustCommand{\UXGSL}
                                                                                                   {\ensuremath{\forall}\XGSL}
                                                                      1852
                                                                      1853
                                                                      1854 \DeclareRobustCommand{\FXGSL}
                                                                                                 {\{\text{txtname}\{F\}\}\setminus xGSL\}}
                                                                      1856
                                                                      1857 \DeclareRobustCommand{\EFXGSL}
                                                                                              {\ensuremath{\exists}\FXGSL}
                                                                      1858
                                                                      1859 \DeclareRobustCommand{\UFXGSL}
                                                                                              {\ensuremath{\forall}\FXGSL}
                                                                      \BndSet, ...
                                                                     1862 \newcommand{\bndsym}{\flat}
                                                                      1863 \newcommand{\bndset}{Bn}
                                                                      1864 \cmdmthsetext{Bnd}[\bndset][\bndsym]
                                                                     1865 \usrmth{bnd}{}{argfun}
                                       \psn ...
                                                                      1866 \usrmth{psn}{}{argfun}
                                                                      \nxtFun
                                                                      1868 \newcommand{\nxtfun}{nxt}
                                                                     1869 \cmdmthfun{nxt} [\nxtfun]
                                                                      1875 \ifaut@
                                                                     \DFA, ...
                                                                     1877 \verb|\cmdtxtoparname{DFA}\cmdtxtoparname{WFA}\cmdtxtoparname{WFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{AFA}\cmdtxtoparname{A
                                                                      1878
                                                                      1879 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{WMA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{MWA}\cmdtxtoparname{M
                                                                      1880
                                                                      1881 \verb|\cmdtxtoparname{DFW}\cmdtxtoparname{AFW}| cmdtxtoparname{AFW}| 
                                                                      1882 \verb|\cmdtxtoparname{DBW}\cmdtxtoparname{MBW}\cmdtxtoparname{ABW}|
                                                                      1883 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{UCW}\cmdtxtoparname{ACW}|
                                                                      1884 \cmdtxtoparname{DPW}\cmdtxtoparname{APW}
                                                                      1885 \verb|\cmdtxtoparname{NRW}| cmdtxtoparname{URW}| cmdtxtoparname{ARW}| cmdtxtoparname{ARW}|
                                                                      1886 \verb|\cmdtxtoparname{NSW}| cmdtxtoparname{USW}| cmdtxtoparname{ASW}| cmdtxtoparname{ASW}|
                                                                      1887 \cmdtxtoparname{DMW}\cmdtxtoparname{NMW}\cmdtxtoparname{UMW}\cmdtxtoparname{AMW}
```

```
\GFG, \PD, ... ...
                                            1888 \cmdtxtoparname{GFG}
                                            1890 \cmdtxtoparname{PD}
                                            1891
                                            1892 %% ...
                                             \AutName, ... ...
                                            1894 \newcommand{\autname}{A}
                                             1895 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                             1896 \newcommand{\autset}{Aut}
                                             1897 \cmdmthset{Aut}[\autset]
                 \WAutSet ...
                                             1898 \newcommand{\wautset}{WAut}
                                             1899 \cmdmthset{WAut}[\wautset]
     \SttSet, ... ...
                                            1900 \ensuremath{ \def\sttsym} \{q\}
                                            1901 \def\sttset{Q}
                                             1902 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                             1903 \cmdmthset{IStt}[\sttset_{I}]
                                             1904 \cmdmthsymelm{istt}[\sttsym_{I}]
                                             1905 \cmdmthset{FStt}[\sttset_{F}]
                                             1906 \cmdmthsymelm{fstt}[\sttsym_{F}]
     \SymSet, ... ...
                                             1907 \newcommand{\symsym}{\sigma}
                                             1908 \newcommand{\symset}{\Sigma}
                                             1909 \cmdmthsetext{Sym}[\symset][\symsym]
                   \trnFun ...
                                             1910 \mbox{newcommand{\trnsym}{\delta}}
                                             1911 \cmdmthfun{trn}[\trnsym]
                                             \LangFun
                                             1913 \newcommand{\langfun}{L}
                                             1914 \cmdmthfun{Lang}[\langfun]
     \WrdSet, ... ...
                                            1915 \newcommand{\wrdsym}{w}
                                             1916 \newcommand{\wrdset}{Wr}
                                             1917 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                                             \DTA, ... ...
                                            1919 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| \\
                                            1921 \verb|\cmdtxtoparname{UFT}\cmdtxtoparname{AFT}| \\
                                             1922 \verb|\cmdtxtoparname{UBT}\cmdtxtoparname{ABT}| \\
                                             1923 \verb|\cmdtxtoparname{UCT}\cmdtxtoparname{ACT}|
                                             1924 \verb|\cmdtxtoparname{DPT}\cmdtxtoparname{MPT}| cmdtxtoparname{APT}| 
                                             1925 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{ART}| \\
                                             1926 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| \\
                                             1927 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}| Cmdtxtoparname{MMT}| Cmdtxtoparname{MMT}|
```

```
\TAutSet ...
       1929 \mbox{newcommand{\hat{TAut}}}
       1930 \cmdmthset{TAut}[\tautset]
\DirSet, ...
      1931 \newcommand{\dirsym}{d}
      1932 \newcommand{\dirset}{\Lambda}
       1933 \cmdmthsetext{Dir}[\dirset][\dirsym]
       \TreeSet, ... ...
      1935 \newcommand{\treesym}{T}
      1936 \newcommand{\treeset}{Tr}
       1937 \cmdmthsetext{Tree} [\treeset] [\treesym]
  \wotFun ...
       1938 \newcommand{\wotfun}{wot}
       1939 \cmdmthfun{wot}[\wotfun]
       1940 \fi
      1945 \iffrm@
      1946 %%...
      1947 \fi
       1952 \iffig@
       1953 \RequirePackage{tikz}
       1954 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}
       1955 \tikzstyle{every node} =
       1956 [draw = none, fill = none, black, thin]
       1957 \tikzstyle{every edge} +=
       1958 [black, thick]
       1959 \tikzstyle{noall} =
       1960 [draw = none, fill = none]
       1961 \tikzstyle{nodraw} =
       1962 [draw = none, fill = white]
       1963 \tikzstyle{nofill} =
       1964 [draw = black, fill = none]
       1965 \ifwrpfig@
       1966 % Wrapfig Package
       1967 \RequirePackage{wrapfig}
       1968 \fi
       1969 \fi
       1974 \iftab@
```

1975 %%...

```
1976 \fi
          1981 \ifalg@
          1982 \RequirePackage[ruled,vlined]{algorithm2e}
          1983 \setlength{\algomargin}{1.25em}
          1984 \DontPrintSemicolon
          1985 \SetInd{0.25em}{0.5em}
  \Signature ...
          1986 \SetKw{Signature}{signature}
 \Macro, ... ...
          1987 \SetKwFor{Macro}{macro}{}}
          1988 \SetKwFor{Function}{function}{}}
          1989 \SetKwFor{Procedure}{procedure}{}}
      \Let ...
          1990 \SetKwFor{Let}{let}{in}{}
\True, \False ...
          1991 \SetKw{True}{true}
          1992 \SetKw{False}{false}
  \From, ... ...
          1993 \SetKw{From}{from}
          1994 \SetKw{To}{to}
          1995 \SetKw{DownTo}{downto}
  \GoTo, ... ...
          1996 \SetKw{GoTo}{goto}
          1997 \SetKw{Break}{break}
          1998 \SetKw{Continue}{continue}
  \MIf, ... ...
          1999 \texttt{\MElseIf}{\texttt{MElse}{\wif}{\welse \wif}{\welse}{\welse} $$ \
      \nlr ...
          2000 \DeclareRobustCommand{\nlr}[1]
              {\addtocounter{AlgoLine}{1}%
              \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
          2002
          2005 \endinput
          2006 (/package)
```

2 Change History

v0.0	v0.3
General: First public release 1	General: Few problems solved 1
v0.1	v0.4
General: Algorithm tricks 1	General: Refactoring, corrections, and
v0.10	extensions
General: Small refinements 1	v0.5
v0.11	General: Figure tricks
General: Few additions and corrections 1	v0.6
v0.12	General: Small refinements $\dots \dots \dots$
General: New starred variants 1	v0.7
v0.13	General: Refinements, corrections, and
General: Further starred variants 1	extensions
v0.14	v0.8
General: Few additions and corrections 1	General: Few refinements and corrections 1
v0.2	v0.9
General: Changes in auxiliary tricks 1	General: Small addition to 'Algorithm tricks' 1

3 Index

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

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	\\ 0 snewmthopar 388, 391	\aMat,
\" 782, 783 \# 1999	\Qsnewmthpar	•
	\\\0 \\0 \\0 \\0 \\0 \\0 \\0 \\0 \\0 \\	\amsdef@true 16 \amsthm@false 21
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Newtxtopar	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\PlaySet,\playFun . <u>1122</u> , <u>1695</u> \playsym 1122, 1124, 1695, 1697 \PlrFun <u>1098</u> \plrfun 1098, 1099 \PlrSym	\rangle
\textra{\tertra{\textra{\tertr	$\begin{array}{llllllllllllllllllllllllllllllllllll$	\PlaySet,\playFun . <u>1122</u> , <u>1695</u> \playsym 1122, 1124, 1695, 1697 \PlrFun	\rangle
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Newtxtsty 294, 316, 329	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\PlaySet,\playFun . <u>1122</u> , <u>1695</u> \playsym 1122, 1124, 1695, 1697 \PlrFun	\rangle
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\normalfont	$\begin{array}{llllllllllllllllllllllllllllllllllll$	\PlaySet,\playFun . \frac{1122}{1695} \ \playsym \frac{1122}{1124}, \frac{1695}{1697} \ \PlrFun \frac{1098}{1098} \ \plrFun \frac{1098}{1099} \ \PlrSym \frac{1098}{1099} \ \PlrSym \frac{1094}{1095}, \frac{1117}{1118}, \frac{1129}{1130}, \frac{1668}{1669}, \frac{1690}{1690}, \frac{1691}{1691}, \frac{1702}{1703} \ \plrsym \frac{1083}{1083} \ \pm \frac{936}{944}, \frac{952}{952} \ \posset \frac{1090}{1091}, \frac{1094}{1094}, \frac{1096}{1663} \ \possym \frac{1089}{1089}, \frac{1663}{1692}, \frac{1089}{1091}, \frac{1092}{1093}, \frac{1093}{1093}, \frac{1091}{1092}, \frac{1093}{1092}, \fr	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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	\newmthoparsty 393, 411, 428 \newmthpar 375, 384, 386, 390, 392 \newmthparsty 381, 409, 425 \newmthsty 349, 403, 416 \newtxt 292, 295, 297, 305 \newtxtarg 296, 299, 301 \newtxtargsty 298, 318, 331 \newtxtoarg 300, 303 \newtxtoargsty 302, 320, 333 \newtxtopar 308, 311 \newtxtoparsty 310, 324, 337 \newtxtparsty 306, 322, 335 \newtxtsty 294, 316, 329 \NGSL 1829, 1833, 1835 \nlr 2000 \nlset 2002 \noexpand 258, 262 \normalfont 463, 488, 500 \not 816, 820, 824, 829, 833 \notcequiv 832 \notcomodels 828 \notcomplies 828 \notimplied 819 \notimplies 815 \num 962 \num 964 \num 966	\PlaySet,\playFun . 1122, 1695 \playsym 1122, 1124, 1695, 1697 \PlrFun 1098 \plrfun 1098, 1099 \PlrSym	\raisebox

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