fmocdmac — FM's OCD LATEX Macro*

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Abstract

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

1 Implementation & Usage

 $1 \langle *package \rangle$

Required external packages:

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

Package options:

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

^{*}This document describes version v0.19 of the fmocdmac package, last revised 2023/06/09.

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

```
98 %% Format-related tricks
          99 \newif\iffrm@ \frm@false
          100 \DeclareOption{frm}{\frm@true}
          101 \DeclareOption{nofrm}{\frm@false}
          102
          103
          104 %% Figure-related tricks
          105 \newif\iffig@ \fig@false
          106 \DeclareOption{fig}{\fig@true}
          107 \DeclareOption{nofig}{\fig@false}
          108
          109 %% Wrapfig package
          110 \newif\ifwrpfig@ \wrpfig@true
          111 \DeclareOption{nowrpfig}{\wrpfig@false}
          112
          113
          114 %% Table-related tricks
          115 \newif\iftab@ \tab@false
          116 \DeclareOption{tab}{\tab@true}
          117 \DeclareOption{notab}{\tab@false}
          118
          119
          120 %% Algorithm-related tricks
          121 \newif\ifalg@ \alg@false
          122 \DeclareOption{alg}{\alg@true}
          123 \DeclareOption{noalg}{\alg@false}
          124
         Option-processing code:
          126 \DeclareOption*{\PackageWarning{fmocdmac}{Unknown~'\CurrentOption'}}%
          128 \ExecuteOptions{aux,txtgen,mthgen,txt,mth,com,gam,log,aut}%
          130 \ProcessOptions\relax%
          132 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
         Package main body:
          \omicron Auxiliary Greek lowercase letter: ... to do!
          138 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
          139 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
          140 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
          141 \csdef{varKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{O}
          142 \end{P} \csdef{Rho}{P} \csdef{Tau}{T} \csdef{Chi}{X}
          \empths Emptiness check: \empchk{\langle A\rangle} {\langle B\rangle} evaluates to the empty string, if Argument \langle A \rangle is empty,
         and to Argument \langle B \rangle, otherwise.
            • \empchk{}{B} = ""
            • \empchk{A}{B} = "B"
```

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

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

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

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

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

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

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

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

406 \newcommand{\newmth}

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

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

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

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

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

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

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

```
\usrmthlet ... to do!
                                522 \newcommandx{\usrmthlet}[4][4=]
                                523 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
                                528 \iftxtgen@
   \txtdef, ... to do!
                                     ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                     ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                      \qquad \qquad \texttt{(Sub) [sup] [Ext1] \{Par\} [Ext2]} = Name_{sub}^{sup} Ext1[Par] Ext2 
                                 529 %% Style for Definitions
                                \cmdtxtdef ... to do!
                                     • \cmdtxtdef{cmdName};
                                        \colon colon col
                                     • \cmdtxtdef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
                                 531 \newcommandx{\cmdtxtdef}[2][2=]
                                532 {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                                     • \cmdtxtargdef{cmdName};
                                        \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                     • \cmdtxtargdef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                                533 \newcommandx{\cmdtxtargdef}[2][2=]
                                534 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                     \cmdtxtoargdef{cmdName};
                                        \colon = cmdName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                     • \cmdtxtoargdef{cmdName}[newName];
                                        \colon = [sub][sub][arg] = newName_{sub}^{sub}(arg)
                                 535 \newcommandx{\cmdtxtoargdef}[2][2=]
                                536 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                                     • \cmdtxtpardef{cmdName};
                                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                     \cmdtxtpardef{cmdName}[newName];
                                        \verb|\cmdName[sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1[par]ext2
                                 537 \newcommandx{\cmdtxtpardef}[2][2=]
                                        {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                     \cmdtxtopardef{cmdName};
                                        \cmdName[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                     \cmdtxtopardef{cmdName}[newName];
                                        \colon = newName[sub][sub][par] = newName_{sub}^{sub}[par]
                                539 \newcommandx{\cmdtxtopardef}[2][2=]
                                540 {\usrtxt{#1}{}{opardef}[#2]}
   \txtabr, ... to do!
```

```
ullet \txtabr{Name} [sub] [sup] [Ext] = Name_{
m sub}^{
m sup} Ext
                                         • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{\mathrm{sub}}^{\mathrm{sup}} Ext1(Arg) Ext2
                                         • \txtparabr{Name}[sub][sup][Ext1]\{Par\}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                    541 %% Style for Abbreviations
                                    542 \mbox{ \cmdtxtall{abr}\newcommand{\txtstyabr}{\cm}}
        \cmdtxtabr ... to do!
                                         • \cmdtxtabr{cmdName};
                                             \colon colon col
                                         \cmdtxtabr{cmdName} [newName];
                                             \verb|\cmdName[sub][sub][ext]| = newName_{\rm sub}^{\rm sub}ext
                                    543 \newcommandx{\cmdtxtabr}[2][2=]
                                    544 {\usrtxt{#1}{}{abr}[#2]}
  \cmdtxtargabr ... to do!
                                         • \cmdtxtargabr{cmdName};
                                             \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                         • \cmdtxtargabr{cmdName}[newName];
                                             \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{\text{sub}}^{\text{sub}}ext1(arg)ext2
                                    545 \mbox{\cmdtxtargabr}[2][2=]
                                   546 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                                         • \cmdtxtoargabr{cmdName};
                                             \colon dName[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                                         \cmdtxtoargabr{cmdName} [newName];
                                             \cmdName[sub][sub] [arg] = newName_{sub}^{sub}(arg)
                                    547 \newcommandx{\cmdtxtoargabr}[2][2=]
                                   548 {\usrtxt{#1}{}{oargabr}[#2]}
  \cmdtxtparabr ... to do!
                                         \cmdtxtparabr{cmdName};
                                             \cmdName[sub][sub][ext1][par][ext2] = cmdName[sub]ext1[par]ext2
                                         • \cmdtxtparabr{cmdName}[newName];
                                             \colon dName[sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1/par/ext2
                                    549 \newcommandx{\cmdtxtparabr}[2][2=]
                                    550 {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                                         • \cmdtxtoparabr{cmdName};
                                             \cmdName[sub][sub][par] = cmdName_{sub}^{sub}/par
                                         • \cmdtxtoparabr{cmdName}[newName];
                                             \cmdName[sub][sub][par] = newName_{sub}^{sub}/par
                                    551 \newcommandx{\cmdtxtoparabr}[2][2=]
                                    552 {\usrtxt{#1}{}{oparabr}[#2]}
                                   \txtname, ... to do!
                                         • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}^{\text{SUP}}_{\text{SUB}}Ext
                                         • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{SUB}^{SUP}Ext1(Arg)Ext2
                                          \qquad \qquad \text{$$ \text{txtparname}[Sub][sub][Ext1]$ [Par][Ext2] = NAME_{SUB}^{SUP}EXT1[PAR]EXT2$ } 
                                    554 %% Style for Names
                                    555 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
      \cmdtxtname ... to do!
```

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

```
\cmdtxtargcom{cmdName} [newName];
                                            \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1](ARG)EXT2|
                                   570 \newcommandx{\cmdtxtargcom}[2][2=]
                                            {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                        \cmdtxtoargcom{cmdName};
                                            \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                                        • \cmdtxtoargcom{cmdName}[newName];
                                            \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                   572 \newcommandx{\cmdtxtoargcom}[2][2=]
                                            {\usrtxt{#1}{}{oargcom}[#2]}
  \cmdtxtparcom ... to do!
                                        \cmdtxtparcom{cmdName};
                                            \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                                        \cmdtxtparcom{cmdName} [newName];
                                            \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\newName[sub][sub][ext1]{par}[ext2]
                                   574 \newcommandx{\cmdtxtparcom}[2][2=]
                                   575 {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                        \cmdtxtoparcom{cmdName};
                                            \colon = CMDNAME_{SUB}^{SUB}[PAR]
                                        \cmdtxtoparcom{cmdName}[newName];
                                            \colon = NEWNAME_{SUB}^{SUB}[PAR]
                                   576 \newcommandx{\cmdtxtoparcom}[2][2=]
                                           {\usrtxt{#1}{}{oparcom}[#2]}
                                   578 \fi
                                   583 \ifmthgen@
  \mthname, ... to do!
                                        ullet \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                                        • \mthargname*{NAME}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                         \bullet \ \texttt{\normalfont{MME}[sub][sub][Ext1][Par^{Ex^{*}}]} \ [\texttt{Ext2}] \ = \ \mathcal{NAME}^{sup}_{sub} Ext1 \ \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_{sub} Ext2 \\ = \ \mathcal{NAME}^{sub}_
                                        584 %% Style for Names
                                   585 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
      \AName, ...
                                 \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                   586 \seqoflatupp{Name}{mthname}
      \cmdmthname ... to do!
                                        • \cmdmthname{CMDNAME};
                                            \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                        • \cmdmthname{cmdName}[NEWNAME];
                                            \cmdNameName[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                   587 \newcommandx{\cmdmthname}[2][2=]
                                   588 {\usrmth{#1}{Name}{name}[#2]}
```

```
\cmdmthargname ... to do!
                                             • \cmdmthargname{CMDNAME};
                                                 \CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                                            • \cmdmthargname{cmdName}[NEWNAME];
                                                 \cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                       589 \newcommandx{\cmdmthargname}[2][2=]
                                                {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                                            • \cmdmthoargname{CMDNAME};
                                                \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                             • \cmdmthoargname{cmdName}[NEWNAME];
                                                \cmdNameName[sub][sub][arg] = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                       591 \newcommandx{\cmdmthoargname}[2][2=]
                                                {\usrmth{#1}{Name}{oargname}[#2]}
  \cmdmthparname ... to do!
                                             \cmdmthparname{CMDNAME};
                                                \verb|\CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                             • \cmdmthparname{cmdName}[NEWNAME];
                                                 \verb|\cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                                       593 \newcommandx{\cmdmthparname}[2][2=]
                                                {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname
                                   ... to do!
                                            • \cmdmthoparname{CMDNAME};
                                                \CMDNAMEName[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                             • \cmdmthoparname{cmdName}[NEWNAME];
                                                \cmdNameName[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                       595 \mbox{ } \mbox{cmdmthoparname} \mbox{ } \m
                                                {\usrmth{#1}{Name}{oparname}[#2]}
      \mthfam, ... to do!
                                            • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N}\mathcal{AME}^{sup}_{sub}Ext
                                            • \mthargfam{NAME} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2
                                             • \mthparfam{NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}^{sup}_{sub}Ext1 \Big[Par^{Ex^{Ex}}\Big]Ext2
                                             597 %% Style for Families
                                       598 \cmdmthall{fam}\newcommand{\mthstyfam}{\mathscr}
                                     \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}
                                       599 \seqoflatupp{Fam}{mthfam}
           \cmdmthfam ... to do!
                                             \cmdmthfam{CMDNAME};
                                                 \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub]
                                             • \cmdmthfam{cmdName}[NEWNAME]:
                                                 \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                       600 \newcommandx{\cmdmthfam}[2][2=]
                                                {\usrmth{#1}{Fam}{fam}[#2]}
    \cmdmthargfam ... to do!
```

```
\cmdmthargfam{CMDNAME};
                        • \cmdmthargfam{cmdName}[NEWNAME];
                        \label{lem:cmdNameFam} $$ \operatorname{[sub][sub][ext1]} = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg)ext2 $$
                   602 \newcommandx{\cmdmthargfam}[2][2=]
                   603 {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                      \cmdmthoargfam{CMDNAME};
                        • \cmdmthoargfam{cmdFam}[NEWNAME];
                        \verb|\cmdFamFam[sub][sub][arg]| = \mathscr{NEWNAME}^{sub}_{sub}(arg)
                   604 \newcommandx{\cmdmthoargfam}[2][2=]
                   605 {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                      • \cmdmthparfam{CMDNAME};
                        \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEF}am[sub][sub][ext1][par]ext2
                      • \cmdmthparfam{cmdName}[NEWNAME];
                        \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNMME}^{sub}_{sub}ext1[par]ext2
                   606 \newcommandx{\cmdmthparfam}[2][2=]
                        {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                      • \cmdmthoparfam{CMDNAME};
                        \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                      • \cmdmthoparfam{cmdFam}[NEWNAME];
                        \verb|\cmdFamFam[sub][sub][par]| = \mathcal{NEWNAME}_{sub}^{sub}[par]|
                   608 \newcommandx{\cmdmthoparfam}[2][2=]
                        {\usrmth{#1}{Fam}{oparfam}[#2]}
  \mthcls, ... to do!
                      • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                      • \mthargcls{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                      • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      • \mthparcls*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                   610 %% Style for Classes
                   611 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}
    \ACls, ... to do!
                  \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                   612 \seqoflatupp{Cls}{mthcls}
    \cmdmthcls ... to do!
                      \cmdmthcls{CMDNAME};
                        \CMDNAMECls[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                      • \cmdmthcls{cmdName}[NEWNAME];
                        \verb|\cmdNameCls[sub][sub][ext]| = NEWNAME_{sub}^{sub}ext
                   613 \newcommandx{\cmdmthcls}[2][2=]
                   614 {\usrmth{#1}{Cls}{cls}[#2]}
 \cmdmthargcls ... to do!
                      \cmdmthargcls{CMDNAME};
                        \verb|\CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1(arg)ext2
```

```
• \cmdmthargcls{cmdName}[NEWNAME];
                                                                                       \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = NEWNAME_{sub}^{sub}ext1(arg)ext2
                                                                     615 \newcommandx{\cmdmthargcls}[2][2=]
                                                                                    {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                                                               \cmdmthoargcls{CMDNAME};
                                                                                       \CMDNAMECls[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                                               \cmdmthoargcls{cmdCls}[NEWNAME];
                                                                                      \cmdClsCls[sub][sub] [arg] = NEWNAME_{sub}^{sub}(arg)
                                                                     617 \newcommandx{\cmdmthoargcls}[2][2=]
                                                                     618 {\usrmth{#1}{Cls}{oargcls}[#2]}
   \cmdmthparcls ... to do!
                                                                               • \cmdmthparcls{CMDNAME};
                                                                                      \CMDNAMECls[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                                                               • \cmdmthparcls{cmdName}[NEWNAME];
                                                                                      \cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2
                                                                      619 \newcommandx{\cmdmthparcls}[2][2=]
                                                                     620 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                               • \cmdmthoparcls{CMDNAME};
                                                                                      \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                               • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                                      \cmdClsCls[sub] [sub] [par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                                                     621 \newcommandx{\cmdmthoparcls}[2][2=]
                                                                    622 {\usrmth{#1}{Cls}{oparcls}[#2]}
       \mthsig, ... to do!
                                                                               • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}ame_{sub}^{sup}Ext
                                                                               • \mthargsig{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                               • \mthargsig*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = \Re e^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                               \bullet \  \  \, \texttt{ \mthparsig}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \\ = \mathcal{N} ame_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] \\ = \mathcal{N} ame_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big
                                                                               \bullet \  \  \, \texttt{\bare} = \texttt{\bare} =
                                                                      623 %% Style for Signatures
                                                                     624 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
                \aSig, ... to do!
                                                                  a,\; b,\; c,\; d,\; e,\; f,\; g,\; h,\; i,\; j,\; k,\; l,\; m,\; n,\; o,\; p,\; q,\; r,\; s,\; t,\; u,\; v,\; w,\; \chi,\; y,\; z
                                                                  \mathcal{A},~\mathcal{B},~\mathcal{C},~\mathcal{D},~\mathcal{E},~\mathcal{F},~\mathcal{G},~\mathcal{H},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~\mathcal{Q},~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~\mathcal{X},~\mathcal{Y},~\mathcal{Z}
                                                                  \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                     625 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
                \cmdmthsig ... to do!
                                                                               • \cmdmthsig{cmdName};
                                                                                      \colon dNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                               • \cmdmthsig{cmdName}[NewName];
                                                                                      \verb|\cmdNameSig[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                                                     626 \newcommandx{\cmdmthsig}[2][2=]
                                                                    627 {\usrmth{#1}{Sig}{sig}[#2]}
   \cmdmthargsig ... to do!
                                                                               • \cmdmthargsig{cmdName};
                                                                                      \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargsig{cmdName}[NewName];
                                                                               \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{NewName}_{sub}^{sub}ext1(arg)ext2
                                                               628 \newcommandx{\cmdmthargsig}[2][2=]
                                                                               {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                         \cmdmthoargsig{cmdName};
                                                                               \colon = cmdNameSig[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                         • \cmdmthoargsig{cmdSig}[NewName];
                                                                               \colored SigSig[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                               630 \newcommandx{\cmdmthoargsig}[2][2=]
                                                                              {\usrmth{#1}{Sig}{oargsig}[#2]}
   \cmdmthparsig ... to do!
                                                                        • \cmdmthparsig{cmdName};
                                                                               \label{lem:cmdNameSig} $$ \operatorname{[sub][sub][ext1][par][ext2]} = cmd \operatorname{Name}_{sub}^{sub} ext1[par] ext2 $$
                                                                         • \cmdmthparsig{cmdName}[NewName];
                                                                               \cmdNameSig[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                632 \newcommandx{\cmdmthparsig}[2][2=]
                                                               633 {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                        • \cmdmthoparsig{cmdName};
                                                                               \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                         • \cmdmthoparsig{cmdSig}[NewName];
                                                                               \colored{cmdSigSig[sub][sub][par]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}[par]
                                                               634 \newcommandx{\cmdmthoparsig}[2][2=]
                                                               635 {\usrmth{#1}{Sig}{oparsig}[#2]}
       \mthstr, ... to do!
                                                                        • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup}Ext
                                                                        • \mthargstr{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2
                                                                         • \mthargstr*{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                        \bullet \  \  \, \texttt{ \mthparstr{Name}[sub][sup][Ext1]{Par^{Ex^{}}}} [Ext2] = \mathfrak{Name}^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \mathfrak{Name}^{sup}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{sub}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{sub} Ext2 \\ = \mathfrak{Name}^{sub}_{s
                                                                        \bullet \  \  \, \texttt{\bare}[sub][sup][Ext1] \{ Par^{Ex^{-}}[Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2 = \mathfrak{Name}_{sub}^{sup} Ext2[Par^{Ex^{Ex}}] Ext
                                                                636 %% Style for Structures
                                                               637 \cmdmthall{str}\newcommand{\mthstystr}{\mathfrak}
               \aStr, ... to do!
                                                            a, b, c, d, e, f, g, h, i, j, f, l, m, n, o, p, q, r, s, f, u, v, w, r, h, g
                                                            \mathfrak{A},\,\mathfrak{B},\,\mathfrak{C},\,\mathfrak{D},\,\mathfrak{E},\,\mathfrak{F},\,\mathfrak{G},\,\mathfrak{H},\,\mathfrak{I},\,\mathfrak{I},\,\mathfrak{K},\,\mathfrak{L},\,\mathfrak{M},\,\mathfrak{N},\,\mathfrak{D},\,\mathfrak{P},\,\mathfrak{Q},\,\mathfrak{R},\,\mathfrak{S},\,\mathfrak{T},\,\mathfrak{U},\,\mathfrak{V},\,\mathfrak{W},\,\mathfrak{X},\,\mathfrak{Y},\,\mathfrak{J}
                                                            \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                               638 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
               \cmdmthstr ... to do!
                                                                        • \cmdmthstr{cmdName};
                                                                               \cmdNameStr[sub][sub][ext] = cmdMamesubext
                                                                         • \cmdmthstr{cmdName}[NewName];
                                                                               \colon d NameStr[sub][sub][ext] = \mathfrak{NewName}_{sub}^{sub}ext
                                                               639 \newcommandx{\cmdmthstr}[2][2=]
                                                              640 {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                                        • \cmdmthargstr{cmdName};
                                                                               \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdMames|^{sub}_{sub}ext1(arg)ext2
```

```
• \cmdmthargstr{cmdName} [NewName];
                                                                                                               \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                                                         641 \newcommandx{\cmdmthargstr}[2][2=]
                                                                                                               {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                                                     • \cmdmthoargstr{cmdName};
                                                                                                               \verb|\cmdNameStr[sub][sub][arg]| = cmd \mathfrak{Name}_{sub}^{sub}(arg)
                                                                                                     • \cmdmthoargstr{cmdStr}[NewName];
                                                                                                               \colored{cmdStrStr[sub][sub][arg]} = \mathfrak{NewName}^{sub}_{sub}(arg)
                                                                                         643 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                                         644 {\usrmth{#1}{Str}{oargstr}[#2]}
     \cmdmthparstr ... to do!
                                                                                                     • \cmdmthparstr{cmdName};
                                                                                                               \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                                                      • \cmdmthparstr{cmdName} [NewName];
                                                                                                               \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                                                         645 \newcommandx{\cmdmthparstr}[2][2=]
                                                                                         646 {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                                                     • \cmdmthoparstr{cmdName};
                                                                                                               \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                                                                                                      • \cmdmthoparstr{cmdStr}[NewName];
                                                                                                               \color{local} 
                                                                                         647 \newcommandx{\cmdmthoparstr}[2][2=]
                                                                                                              {\usrmth{#1}{Str}{oparstr}[#2]}
          \mthset, ... to do!
                                                                                                     • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                                     • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                      \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt
                                                                                                     \bullet \  \, \texttt{\name} \  \, \texttt{\name
                                                                                                      \bullet \  \  \, \texttt{ Name } \texttt{[sub] [sup] [Ext1] } \{\texttt{Par^{Ex^{Ex}}}\} \texttt{[Ext2]} = \texttt{Name}^{sup}_{sub} Ext1 [Par^{Ex^{Ex}}] Ext2
                                                                                         649 %% Style for Sets
                                                                                        650 \cmdmthall{set}\newcommand{\mthstyset}{\mathrm}
                     \aSet, ... to do!
                                                                                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                                    A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                                        651 \seqoflet{Set}{mthset}
                     \cmdmthset ... to do!
                                                                                                      \cmdmthset{cmdName};
                                                                                                               \colon cond Name Set [sub] [sub] [ext] = cmd Name <math>_{sub}^{sub} ext
                                                                                                      • \cmdmthset{cmdName}[NewName];
                                                                                                               \cmdNameSet[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                                         652 \newcommandx{\cmdmthset}[2][2=]
                                                                                        653 {\usrmth{#1}{Set}{set}[#2]}
     \cmdmthargset ... to do!
                                                                                                      \cmdmthargset{cmdName};
                                                                                                               \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargset{cmdName}[NewName];
                                               \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                     654 \newcommandx{\cmdmthargset}[2][2=]
                                               {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                                           \cmdmthoargset{cmdName};
                                               \verb|\cmdNameSet[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargset{cmdSet}[NewName];
                                               \colon = NewName_{sub}^{sub}(arg)
                                     656 \newcommandx{\cmdmthoargset}[2][2=]
                                               {\usrmth{#1}{Set}{oargset}[#2]}
  \cmdmthparset ... to do!
                                           \cmdmthparset{cmdName};
                                               \label{lem:lemma:emdName} $$\operatorname{sub}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2$
                                           • \cmdmthparset{cmdName}[NewName];
                                               \colored Name Set [sub] [sub] [ext1] {par} [ext2] = New Name _{sub}^{sub} ext1 [par] ext2
                                      658 \newcommandx{\cmdmthparset}[2][2=]
                                              {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                                           • \cmdmthoparset{cmdName};
                                               \colon dNameSet[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                           • \cmdmthoparset{cmdSet}[NewName];
                                               \verb|\cmdSetSet[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                      660 \newcommandx{\cmdmthoparset}[2][2=]
                                             {\usrmth{#1}{Set}{oparset}[#2]}
  \cmdmthsetext ... to do!
                                     662 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                     663 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                              \usrmthlet{\thestring}{Sym}{sym}
                                                      [\defval{#3}{\defval{\empchk{#2}}{\lowercase{\#2}}}{\thestring}}]\%
                                      665
                                     666
                                                \usrmthlet{\thestring}{Elm}{elm}
                                     667
                                                      [\defval{#3}{\defval{\empchk{#2}}{\lowercase{#2}}}{\thestring}}]
    \mthrel, ... to do!
                                           • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                           • \mthargrel{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                           • \mthargrel*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                           • \mthparrel{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                           \bullet \  \  \, \texttt{\bare} = Name_{sub}^{sup}[\texttt{Ext1}] \\ \{\texttt{Par}^{\texttt{\ex}}(\texttt{Ex})\}\}[\texttt{Ext2}] \\ = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{E
                                      668 %% Style for Relations
                                     669 \mbox{ \cmdmthall{rel}\newcommand{\mbox{\mbox{\cmthstyrel}}{\mbox{\cmdmthit}}}
        \aRel, ... to do!
                                   a,\ b,\ c,\ d,\ e,\ f,\ g,\ h,\ i,\ j,\ k,\ l,\ m,\ n,\ o,\ p,\ q,\ r,\ s,\ t,\ u,\ v,\ w,\ x,\ y,\ z
                                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                   \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                   A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                     670 \seqoflet{Rel}{mthrel}
        \cmdmthrel ... to do!
                                           • \cmdmthrel{cmdName};
                                               \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
```

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• \cmdmthrel{cmdName}[NewName];
                                                                                          \colon dNameRel[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                        671 \newcommandx{\cmdmthrel}[2][2=]
                                                                                        {\usrmth{#1}{Rel}{rel}[#2]}
    \cmdmthargrel ... to do!
                                                                                  • \cmdmthargrel{cmdName};
                                                                                         \cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                  • \cmdmthargrel{cmdName}[NewName];
                                                                                         \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                        673 \newcommandx{\cmdmthargrel}[2][2=]
                                                                        674 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                                                                  • \cmdmthoargrel{cmdName};
                                                                                         \cmdNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                   • \cmdmthoargrel{cmdRel}[NewName];
                                                                                         \colone{local} [sub] [sub] [arg] = NewName^{sub}_{sub} (arg)
                                                                        675 \newcommandx{\cmdmthoargrel}[2][2=]
                                                                        676 {\usrmth{#1}{Rel}{oargrel}[#2]}
    \cmdmthparrel ... to do!
                                                                                  • \cmdmthparrel{cmdName};
                                                                                         \cmdNameRel[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                   • \cmdmthparrel{cmdName}[NewName];
                                                                                         \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                                                        677 \newcommandx{\cmdmthparrel}[2][2=]
                                                                                         {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                                                                  • \cmdmthoparrel{cmdName};
                                                                                         \cmdNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                   • \cmdmthoparrel{cmdRel}[NewName];
                                                                                         \colone{local} \col
                                                                        679 \newcommandx{\cmdmthoparrel}[2][2=]
                                                                                         {\usrmth{#1}{Rel}{oparrel}[#2]}
        \mthfun, ... to do!
                                                                                  • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                                                                   • \mthargfun{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                   • \mthargfun*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                  \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}
                                                                                   • \mthparfun*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                        681 %% Style for Functions
                                                                       682 \mbox{ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\box{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbo
                 \aFun, ... to do!
                                                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                   A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                        683 \seqoflet{Fun}{mthfun}
                 \cmdmthfun ... to do!
                                                                                   \cmdmthfun{cmdName};
                                                                                         \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
```

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• \cmdmthfun{cmdName} [NewName];
                         \cmdNameFun[sub][sub][ext] = NewName_{sub}^{sub}ext
                    684 \newcommandx{\cmdmthfun}[2][2=]
                         {\usrmth{#1}{Fun}{fun}[#2]}
 \cmdmthargfun ... to do!
                       • \cmdmthargfun{cmdName};
                         \cmdNameFun[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                       • \cmdmthargfun{cmdName}[NewName];
                         \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                    686 \newcommandx{\cmdmthargfun}[2][2=]
                         {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                       • \cmdmthoargfun{cmdName};
                         \colon = cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                       • \cmdmthoargfun{cmdFun}[NewName];
                         \verb|\cmdFunFun[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                    688 \newcommandx{\cmdmthoargfun}[2][2=]
                         {\usrmth{#1}{Fun}{oargfun}[#2]}
 \cmdmthparfun ... to do!
                       • \cmdmthparfun{cmdName};
                         \cmdNameFun[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                       • \cmdmthparfun{cmdName}[NewName];
                         690 \newcommandx{\cmdmthparfun}[2][2=]
                         {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                       • \cmdmthoparfun{cmdName};
                         \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                       • \cmdmthoparfun{cmdFun}[NewName];
                         \cmb{cmdFunFun[sub][sub][par]} = NewName_{sub}^{sub}[par]
                    692 \newcommandx{\cmdmthoparfun}[2][2=]
                         {\usrmth{#1}{Fun}{oparfun}[#2]}
  \mthsym, ... to do!
                       • \mathbb{E}_{sub}[Sub][Sup][Ext] = \mathbb{E}_{sub}Ext
                       • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                       \bullet \  \, \texttt{\bar{Ext1}[Ext1]} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\}\\ \texttt{\bar{Ext2}} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\\ \texttt{\bar{Ext2}} = \mathtt{\bar{Ext2}}
                       • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                    694 %% Style for Symbols
                    695 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}
    \asym, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                   \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                   A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                    696 \seqoflet{Sym}{mthsym}
    \cmdmthsym ... to do!
                       \cmdmthsym{cmdName};
                         \cmdNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
```

```
• \cmdmthsym{cmdName}[NewName];
                                                                                           \colon colon col
                                                                         697 \newcommandx{\cmdmthsym}[2][2=]
                                                                                           {\usrmth{#1}{Sym}{sym}[#2]}
    \cmdmthargsym ... to do!
                                                                                   • \cmdmthargsym{cmdName};
                                                                                           \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                                   • \cmdmthargsym{cmdName}[NewName];
                                                                                           \c MameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                         699 \newcommandx{\cmdmthargsym}[2][2=]
                                                                                           {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                                   • \cmdmthoargsym{cmdName};
                                                                                           \colon = cmdNameSym[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                                                                    • \cmdmthoargsym{cmdSym}[NewName];
                                                                                           \colon 
                                                                         701 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                                         {\usrmth{#1}{Sym}{oargsym}[#2]}
    \cmdmthparsym ... to do!
                                                                                   \cmdmthparsym{cmdName};
                                                                                           \cmdNameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                    • \cmdmthparsym{cmdName}[NewName];
                                                                                           \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                                         703 \newcommandx{\cmdmthparsym}[2][2=]
                                                                                           {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                                   • \cmdmthoparsym{cmdName};
                                                                                           • \cmdmthoparsym{cmdSym}[NewName];
                                                                                           \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                         705 \newcommandx{\cmdmthoparsym}[2][2=]
                                                                                           {\usrmth{#1}{Sym}{oparsym}[#2]}
        \mthelm, ... to do!
                                                                                   • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                    • \mthargelm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                                                    • \mthargelm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{-}Ex})Ext2
                                                                                   \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]} \  \, [\texttt{Ext2}] = Name_{sub}^{sup} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext1 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub}^{sub} Ext2 \  \, [\texttt{Ext2}] = Name_{sub}^{sub} Ext2 \  \, [\texttt{Ex
                                                                                    • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                         707 %% Style for Elements
                                                                         708 \cmdmthall{elm}\newcommand{\mthstyelm}{\mathnormal}
                 \aElm, ... to do!
                                                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                     \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                     A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                                                         709 \seqoflet{Elm}{mthelm}
                 \cmdmthelm ... to do!
                                                                                    • \cmdmthelm{cmdName};
                                                                                           \verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
```

```
• \cmdmthelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext]| = NewName^{sub}_{sub}ext
                     710 \newcommandx{\cmdmthelm}[2][2=]
                          {\usrmth{#1}{Elm}{elm}[#2]}
   \cmdmthargelm ... to do!
                        \cmdmthargelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     712 \newcommandx{\cmdmthargelm}[2][2=]
                          {\usrmth{#1}{Elm}{argelm}[#2]}
  \cmdmthoargelm ... to do!
                        \cmdmthoargelm{cmdName};
                          \colon = cmdNameElm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargelm{cmdElm}[NewName];
                           \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                      714 \newcommandx{\cmdmthoargelm}[2][2=]
                     715 {\usrmth{#1}{Elm}{oargelm}[#2]}
   \cmdmthparelm ... to do!
                        • \cmdmthparelm{cmdName};
                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                        • \cmdmthparelm{cmdName}[NewName];
                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                     716 \newcommandx{\cmdmthparelm}[2][2=]
                          {\usrmth{#1}{Elm}{parelm}[#2]}
  \cmdmthoparelm ... to do!
                        • \cmdmthoparelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                        • \cmdmthoparelm{cmdElm}[NewName];
                           \cmdElmElm[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                      718 \newcommandx{\cmdmthoparelm}[2][2=]
                          {\usrmth{#1}{Elm}{oparelm}[#2]}
   \cmdmthsymelm ... to do!
                        • \cmdmthsymelm{cmdName};
                           \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                           \cmdNameElm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthsymelm{cmdName}[NewName];
                           \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub}ext|
                           \colonerge{cmdNameElm[sub][sub][ext]} = NewName^{sub}_{sub}ext
                      721 \newcommandx{\cmdmthsymelm}[2][2=]
                            {\cmdmthsym{#1}[#2]%
                     723
                           \cmdmthelm{#1}[#2]}
\cmdmthargsymelm ... to do!
                        • \cmdmthargsymelm{cmdName};
                           \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg) ext2
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargsymelm{cmdName}[NewName];
                           \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
```

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

```
\mthlrel ... to do!
                                                                     • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                            744 %% Style for \LaTex Relations
                                                            745 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
           \cmdmthlrel ... to do!
                                                                     • \cmdmthlrel{cmdName};
                                                                            \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                     • \cmdmthlrel{cmdName}[\preceq];
                                                                            \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                                                             746 \newcommandx{\cmdmthlrel}[2][2=]
                                                             747 {\usrmth{#1}{Rel}{lrel}[#2]}
                                                             \mthsnt, ... to do!
                                                                     • \mthsnt{Name} [sub] [sup] [Ext] = Name_{sub}^{sup} Ext
                                                                     \bullet \  \  \, \texttt{Name}[sub][sup][Ext1] \{ \texttt{Arg} \  \  \, \texttt{Ex} \} \} [Ext2] = \mathsf{Name}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \Big) = \mathsf{Name}^{sup}_{sub} Ext2 \Big( Arg^{Ex^{Ex}} \Big) \Big( Arg^{Ex} \Big) \Big( Arg^{E
                                                                      • \mthargsnt*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                     \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{Ex}}]} \  \, [\texttt{Ext2}] = \  \, \texttt{\bar{Name}} \  \, Ext1 \  \, \Big[ Par^{Ex^{Ex}} \Big] \  \, Ext2 \
                                                                      • \mthparsnt*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Par^{Ex^{Ex}}
                                                             749 %% Style for Sentences
                                                             750 \mbox{\mbox{\mbox{$\sim$}}}\mbox{\mbox{\mbox{$\sim$}}}\
              \aSnt, ... to do!
                                                         a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                          A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                          \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                         \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\Delta,\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\Sigma,\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                                             751 \seqoflet{Snt}{mthsnt}
              \cmdmthsnt ... to do!
                                                                      \cmdmthsnt{cmdName};
                                                                            \cmdNameSnt[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                     • \cmdmthsnt{cmdName}[NewName];
                                                                            \colon = NewNameSnt[sub][sub][ext] = NewNameSnt[sub][sub][ext]
                                                             752 \newcommandx{\cmdmthsnt}[2][2=]
                                                             753 {\usrmth{#1}{Snt}{snt}[#2]}
   \cmdmthargsnt ... to do!
                                                                      \cmdmthargsnt{cmdName};
                                                                            \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                     • \cmdmthargsnt{cmdName}[NewName];
                                                                            \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                             754 \newcommandx{\cmdmthargsnt}[2][2=]
                                                             755 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                                                                      \cmdmthoargsnt{cmdName};
                                                                            \colon = cmdNameSnt[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                                                      • \cmdmthoargsnt{cmdName}[NewName];
                                                                            \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                             756 \mbox{newcommandx{\cmdmthoargsnt}[2][2=]}
                                                             757 {\usrmth{#1}{Snt}{oargsnt}[#2]}
   \cmdmthparsnt ... to do!
```

```
\cmdmthparsnt{cmdName};
                                              \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                           • \cmdmthparsnt{cmdName}[NewName];
                                              \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\NewName|^{sub}_{sub}ext1[par]ext2|
                                     758 \newcommandx{\cmdmthparsnt}[2][2=]
                                              {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                          • \cmdmthoparsnt{cmdName};
                                              \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdNameSnt[sub][par]|
                                           • \cmdmthoparsnt{cmdName}[NewName];
                                               \colon = NewNameSub[par] = NewName_{sub}^{sub}[par]
                                     760 \newcommandx{\cmdmthoparsnt}[2][2=]
                                              {\usrmth{#1}{Snt}{oparsnt}[#2]}
    \mthfrm, ... to do!
                                          \bullet \ \  \  \, \texttt{Name} \texttt{[sub][sup][Ext]} = Name_{sub}^{sup}Ext
                                           • \mthargfrm{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                           \bullet \  \, \texttt{\normalfrm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}{Ex}}}} \  \, [\texttt{Ext2}] = Name_{sub}^{sup} Ext1(Arg^{Ex^{-Ex}}) Ext2 = Name_{sub}^{sub} Ext1(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) E
                                           • \mthparfrm{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                           \bullet \  \  \, \texttt{\bare}[sub][sub][sup][Ext1][Par^{Ex^*}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                     762 %% Style for Formulae
                                     763 \cmdmthall{frm}\newcommand{\mthstyfrm}{\mathit}
        \aFrm, ... to do!
                                   a,\;b,\;c,\;d,\;e,\;f,\;g,\;h,\;i,\;j,\;k,\;l,\;m,\;n,\;o,\;p,\;q,\;r,\;s,\;t,\;u,\;v,\;w,\;x,\;y,\;z
                                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                   \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                   A,~B,~\Gamma,~\Delta,~E,~E,~Z,~H,~\Theta,~\Theta,~I,~K,~K,~\Lambda,~M,~N,~\Xi,~O,~\Pi,~\Pi,~P,~P,~\Sigma,~\Sigma,~T,~\Upsilon,~\Phi,~\Phi,~X,~\Psi,~\Omega
                                     764 \seqoflet{Frm}{mthfrm}
        \cmdmthfrm ... to do!
                                          • \cmdmthfrm{cmdName};
                                              \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                           • \cmdmthfrm{cmdName}[NewName];
                                              \verb|\cmdNameFrm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                     765 \newcommandx{\cmdmthfrm}[2][2=]
                                              {\usrmth{#1}{Frm}{frm}[#2]}
  \cmdmthargfrm ... to do!
                                          • \cmdmthargfrm{cmdName};
                                              \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                           • \cmdmthargfrm{cmdName}[NewName];
                                              \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                     767 \newcommandx{\cmdmthargfrm}[2][2=]
                                             {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                                          • \cmdmthoargfrm{cmdName};
                                              \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargfrm{cmdName}[NewName];
                                              \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                     769 \newcommandx{\cmdmthoargfrm}[2][2=]
                                     770 {\usrmth{#1}{Frm}{oargfrm}[#2]}
  \cmdmthparfrm ... to do!
```

```
\cmdmthparfrm{cmdName};
                        \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                      • \cmdmthparfrm{cmdName}[NewName];
                        771 \newcommandx{\cmdmthparfrm}[2][2=]
                   772 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                      • \cmdmthoparfrm{cmdName};
                        \verb|\cmdNameFrm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                      • \cmdmthoparfrm{cmdName}[NewName];
                        \colon dNameFrm[sub][sub][par] = NewName^{sub}_{sub}[par]
                   773 \newcommandx{\cmdmthoparfrm}[2][2=]
                       {\usrmth{#1}{Frm}{oparfrm}[#2]}
                   \mthmat, ... to do!
                      • \mthmat{Name}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                      • \mthargmat{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                      • \mthparmat{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      • \mthparmat*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                   776 %% Style for Matrices
                   777 \mbox{mthall{mat}\newcommand{\mathbf \{mthstymat}[1]{\boldsymbol{\mathbf \{\#1\}}}}
    \aMat, ... to do!
                  a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                  A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                  \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                  A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                   778 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                      • \cmdmthmat{cmdName};
                        \cmdNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                      • \cmdmthmat{cmdName}[NewName];
                        \cmbox{\cmdNameMat[sub][sub][ext]} = \mathbf{NewName}^{sub}_{sub}ext
                   779 \newcommandx{\cmdmthmat}[2][2=]
                        {\usrmth{#1}{Mat}{mat}[#2]}
 \cmdmthargmat ... to do!
                      • \cmdmthargmat{cmdName};
                        \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1(arg)ext2
                      • \cmdmthargmat{cmdName}[NewName];
                        \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                   781 \newcommandx{\cmdmthargmat}[2][2=]
                   782 {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                      • \cmdmthoargmat{cmdName};
                        \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      • \cmdmthoargmat{cmdName}[NewName];
                        \c New Name Mat[sub][sub][arg] = New Name <math>_{sub}^{sub}(arg)
                   783 \newcommandx{\cmdmthoargmat}[2][2=]
                   784 {\usrmth{#1}{Mat}{oargmat}[#2]}
```

```
\cmdmthparmat ... to do!
                                                               • \cmdmthparmat{cmdName};
                                                                     \cmdNameMat[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                               • \cmdmthparmat{cmdName}[NewName];
                                                                    \c NewName Sub [sub] [sub] [ext1] [par] [ext2] = NewName Sub ext1[par] ext2
                                                       785 \newcommandx{\cmdmthparmat}[2][2=]
                                                                    {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                                               • \cmdmthoparmat{cmdName};
                                                                    \cmdNameMat[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                               • \cmdmthoparmat{cmdName}[NewName];
                                                                    \verb|\cmdNameMat[sub][sub][par]| = \verb|NewName| sub| [par]|
                                                       787 \newcommandx{\cmdmthoparmat}[2][2=]
                                                                   {\usrmth{#1}{Mat}{oparmat}[#2]}
      \mthvec, ... to do!
                                                               ullet \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                               • \mthargvec{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               • \mthargvec*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               • \mthparvec{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                               \bullet \  \, \texttt{\colored}[sub][sub][Ext1] \{ Par^{\{Ex^{\{Ex\}}\}} [Ext2] = Name^{\sup}_{\sup} Ext1 [Par^{Ex^{Ex}}] Ext2 \} = Name^{\sup}_{\sup} Ext1 [Par^{Ex^{Ex}}] Ext2 \} = Name^{\sup}_{\sup} Ext1 [Par^{Ex^{Ex}}] Ext2 = Name^{\sup}_{\sup} Ext2 = 
                                                       789 %% Style for Vectors
                                                       790 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
             \aVec, ... to do!
                                                    a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                    \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                    A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                       791 \seqoflet{Vec}{mthvec}
             \cmdmthvec ... to do!
                                                               • \cmdmthvec{cmdName};
                                                                    \colon colon col
                                                               • \cmdmthvec{cmdName} [NewName];
                                                                    \verb|\cmdNameVec[sub][sub][ext]| = NewName^{sub}_{sub}ext
                                                       792 \newcommandx{\cmdmthvec}[2][2=]
                                                       793 {\usrmth{#1}{Vec}{vec}[#2]}
   \cmdmthargvec ... to do!
                                                               \cmdmthargvec{cmdName};
                                                                    \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2|
                                                               • \cmdmthargvec{cmdName}[NewName];
                                                                    \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewName^{sub}_{sub}ext1(arg)ext2
                                                       794 \newcommandx{\cmdmthargvec}[2][2=]
                                                       795 {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                                               • \cmdmthoargvec{cmdName};
                                                                    \verb|\cmdNameVec[sub][sub][arg]| = cmdName^{sub}_{sub}(arg)
                                                               • \cmdmthoargvec{cmdName}[NewName];
                                                                    \colon = NewName_{sub}^{sub}[arg] = NewName_{sub}^{sub}(arg)
                                                       796 \newcommandx{\cmdmthoargvec}[2][2=]
                                                       797 {\usrmth{#1}{Vec}{oargvec}[#2]}
```

```
\cmdmthparvec ... to do!
                • \cmdmthparvec{cmdName};
                  \cmdNameVec[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                • \cmdmthparvec{cmdName}[NewName];
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = NewName^{sub}_{sub}ext1[par]ext2
              798 \newcommandx{\cmdmthparvec}[2][2=]
                 {\usrmth{#1}{Vec}{parvec}[#2]}
\c to do!
                \cmdmthoparvec{cmdName};
                  \verb|\cmdNameVec[sub][par]| = cmdName^{sub}_{sub}[par]|
                • \cmdmthoparvec{cmdName}[NewName];
                  \cmdNameVec[sub][sub][par] = NewName_{sub}^{sub}[par]
              800 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
              802\fi
              807 \iftxt@
              \adhoc
                • \adhoc = ad\ hoc
              809 \cmdtxtabr{adhoc}[ad hoc]
                • \arrange a fortiori
    \afortiori
              810 \cmdtxtabr{afortiori}[a fortiori]
                • \apriori = a priori
     \apriori
              811 \cmdtxtabr{apriori}[a priori]
  \aposteriori
                • \aposteriori = a posteriori
              812 \cmdtxtabr{aposteriori}[a posteriori]
                • \backslash cf = cf.
         \cf
              813 \cmdtxtabr{cf}[cf.]
                • \dedicto = de dicto
     \dedicto
              814 \cmdtxtabr{dedicto}[de dicto]
                • \defacto = de\ facto
     \defacto
              815 \cmdtxtabr{defacto}[de facto]
                • \forall ere = de re
        \dere
              816 \cmdtxtabr{dere}[de re]
\divideetimpera
                ullet \divideetimpera = divide\ et\ impera
              817 \cmdtxtabr{divideetimpera} [divide et impera]
                • \backslash eg = e.g.
         \eg
              818 \cmdtxtabr{eg}[e.g.]
                • \ergo = ergo
        \ergo
              819 \cmdtxtabr{ergo}
                • \errata = errata
      \errata
              820 \cmdtxtabr{errata}
```

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

```
\Erratum
                • \Erratum = Erratum
              841 \cmdtxtabr{Erratum}
                ullet \Mutatismutandis = Mutatis\ mutandis
\Mutatismutandis
              842 \cmdtxtabr{Mutatismutandis} [Mutatis mutandis]
    \Percontra
                • \ensuremath{\mbox{\sc Percontra}} = Per\ contra
              843 \cmdtxtabr{Percontra} [Per contra]
    \Primafacie
                • \Primafacie = Prima facie
              844 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
                • \forall iceversa = Vice \ versa
              845 \cmdtxtabr{Viceversa}[Vice versa]
              \naif
                • \n naif = naif
              849 \cmdtxtabr{naif}[na\"{i}f]
       \naive
                • \ne naive = naive
              850 \cmdtxtabr{naive}[na\"{i}ve]
                • \role = r\hat{o}le
        \role
              851 \cmdtxtabr{role}[r\^{o}le]
              \Role
                • \label{Role} \operatorname{Role} = R \hat{o} l e
              853 \cmdtxtabr{Role}[R\^{o}le]
              • \arrowvert aka = a.k.a.
         \aka
              855 \cmdtxtabr{aka}[a.k.a.]
       \contd
                • \contd = contd.
              856 \cmdtxtabr{contd}[contd.]
         \iff
                • \iff = iff
              857 \cmdtxtabr{iff}
         \iht
                • \ iht = i.h.t.
              858 \cmdtxtabr{iht}[i.h.t.]
         \stx
                • \ stx = s.t.
              859 \cmdtxtabr{stx}[s.t.]
                • \resp = resp.
        \resp
              860 \cmdtxtabr{resp}[resp.]
                \wrt
              861 \cmdtxtabr{wrt}[w.r.t.]
```

```
\wlogx
                                  • \wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\wordsymbol{\w
                              862 \cmdtxtabr{wlogx}[w.l.o.g.]
                              \Contd
                                  • \c Contd = Contd.
                              864 \cmdtxtabr{Contd}[Contd.]
                                  • \W log x = W.l.o.g.
               \Wlogx
                              865 \cmdtxtabr{Wlogx}[W.l.o.g.]
                              871 \ifmth@
                              \defeq, \seteq ...
                             873 \DeclareRobustCommand{\defeq}
                             874 {\@ifstar%
                                         {\mthlbop{\stackrel{\text{\textup{def}}}}{=}}}%
                                          {\mthlbop{\triangleq}}}
                              877 \DeclareRobustCommand{\seteq}
                                     {\@ifstar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
                              \implies, ... ...
                             880 \DeclareRobustCommand{\implies}
                             881 {\mthlrel{\Rightarrow}}
                             882 \DeclareRobustCommand{\notimplies}
                             883 {\mthlrel{\not\Rightarrow}}
   \implied, ... ...
                             884 \DeclareRobustCommand{\implied}
                             885 {\mthlrel{\Leftarrow}}
                             886 \DeclareRobustCommand{\notimplied}
                             887 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
                             888 \DeclareRobustCommand{\coimplies}
                             889 {\mthlrel{\Leftrightarrow}}
                              890 \DeclareRobustCommand{\notcoimplies}
                              891 {\mthlrel{\not\!\Leftrightarrow}}
                              \cmodels, ... ...
                             893 \DeclareRobustCommand{\cmodels}
                             894 {\mthlrel{\models}}
                             895 \DeclareRobustCommand{\notcmodels}
                             896 {\mthlrel{\not\models}}
     \cequiv, ... ...
                             897 \DeclareRobustCommand{\cequiv}
                             898 {\mthlrel{\equiv}}
                              899 \DeclareRobustCommand{\notcequiv}
                              900 {\bf \{not\equiv\}}
```

```
\denot ...
                902 \DeclareRobustCommand{\denot}
                903 {\@ifstar{\@sdenot}{\@denot}}
                904 \DeclareRobustCommand{\@denot}[1]
                906 \DeclareRobustCommand{\@sdenot}[1]
                    {\mth*{\argmid{\llbracket}{#1}{\rrbracket}}}
                \dual, \adj, ... ...
                909 \DeclareRobustCommand{\dual}[1]
                910 {\mth{\overline{#1}}}
                911 \DeclareRobustCommand{\adj}[1]
                912 {\mth{\mathring{#1}}}
                913 \DeclareRobustCommand{\der}[1]
                914 {\bf \{\bf \{\bf \{\bf \{a,b\}\}\}\}}
                915 \DeclareRobustCommand{\trn}[1]
                916 {\mth{\widetilde{#1}}}
          \vec ...
                917 \DeclareRobustCommand{\vec}
                918 {\@ifstar{\@svec}{\@vec}}
                919 \DeclareRobustCommand{\@vec}[1]
                920 {\mth{\mathaccent"017E{#1}}}
                921 \DeclareRobustCommand{\@svec}[1]
                    {\mth{\overline{#1}}}
                \enumeration, ...
                924 \operatorname{mth*}{}{,}{}{}
                925 \varcmd{enumerationx}{mth*}{}{;}{}}
  \sequence, ... ...
                926 \DeclareRobustCommand{\sequence}
                927 {\@ifstar{\@ssequence}{\@sequence}}
                928 \ \end{@sequence}{\bf [}{,}{\dot }{}
                929 \varcmd{@ssequence}{\mth*}{[]}{,}{]}{}
                930 \DeclareRobustCommand{\sequencel}
                    {\@ifstar{\@ssequencel}{\@sequencel}}
                933 \varcmd{@ssequencel}{\mth*}{[}{,}{}}
                934 \DeclareRobustCommand{\sequencer}
                     {\@ifstar{\@ssequencer}{\@sequencer}}
                 936 \varcmd{@sequencer}{\mth}{\left.}{,}{\right]}{}
                 937 \varcmd{@ssequencer}{\mth*}{}{,}{]}{}
                938 \DeclareRobustCommand{\sequencex}
                     {\@ifstar{\@ssequencex}{\@sequencex}}
                940 \ \end{@sequencex}{\bf [}{\f[}{;}{\right]}{}
                941 \varcmd{@ssequencex}{\mth*}{[]{;}{]}{}
                942 \DeclareRobustCommand{\sequencex1}
                    {\@ifstar{\@ssequencexl}{\@sequencexl}}
                945 \operatorname{(0ssequencex1){\{\mth*\}{[]}{;}}{}}
                946 \DeclareRobustCommand{\sequencexr}
                    {\@ifstar{\@ssequencexr}{\@sequencexr}}
                948 \varcmd{@sequencexr}{\mth}{\left.}{;}{\right]}{}
                949 \cmod{@ssequencexr}{\mth*}{}{;}{]}{}
     \tuple, ... ...
                950 \DeclareRobustCommand{\tuple}
                    {\@ifstar{\@stuple}{\@tuple}}
```

```
952 \varcmd{@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
          953 \varcmd{@stuple}{\mth*}{\langle}{,}{\rangle}{}
          954 \DeclareRobustCommand{\tuplel}
          955 {\@ifstar{\@stuplel}{\@tuplel}}
          957 \varcmd{@stuplel}{\mth*}{\langle}{,}{}}
          958 \DeclareRobustCommand{\tupler}
          959 {\@ifstar{\@stupler}{\@tupler}}
          960 \varcmd{@tupler}{\mth}{\left.}{,}{\right\rangle}{}
          961 \varcmd{@stupler}{\mth*}{}{,}{\rangle}{}
          962 \DeclareRobustCommand{\tuplex}
          963 {\@ifstar{\@stuplex}{\@tuplex}}
          964 \varcmd{@tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
          965 \varcmd{@stuplex}{\mth*}{\langle}{;}{\rangle}{}
          966 \DeclareRobustCommand{\tuplex1}
             {\@ifstar{\@stuplexl}{\@tuplexl}}
          968 \varcmd{@tuplexl}{\mth}{\left\langle}{;}{\right.}{}
          969 \varcmd{@stuplex1}{\mth*}{\langle}{;}{}{}
          970 \DeclareRobustCommand{\tuplexr}
              {\@ifstar{\@stuplexr}{\@tuplexr}}
          972 \varcmd{@tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
          973 \varcmd{@stuplexr}{\mth*}{}{;}{\rangle}{}
          \set, ...
          975 \DeclareRobustCommand{\set}
          976 {\@ifstar{\@sset{\vert}}}{\@set{\vert}}}
          977 \DeclareRobustCommand{\setx}
          978 {\@ifstar{\@sset{:}}{\@set{.\!:}}}
          979 \DeclareRobustCommand{\@set}[3]
          980 {\bf \{\hat \{}\
          981 \DeclareRobustCommand{\@sset}[3]
          982 {\mathbf {\frac{\lambda {\ f}^{\ }}{\ rbrace}}}
          983 \DeclareRobustCommand{\set1}
             {\@ifstar{\@ssetl{\vert}}{\@setl{\vert}}}
          985 \DeclareRobustCommand{\setlx}
              {\@ifstar{\@ssetl{:}}{\@setl{.\!\!\!:}}}
          987 \DeclareRobustCommand{\@set1}[2]
              {\mth{\argmid{\left\lbrace}{#2}{\,\right#1\!}}}
          989 \DeclareRobustCommand{\@sset1}[2]
          990 {\mth*{\argmid{\lbrace}{#2}{\,#1\!}}}
          991 \DeclareRobustCommand{\setr}
          992 {\@ifstar{\@ssetr}{\@setr}}
          993 \DeclareRobustCommand{\setrx}
          994 {\@ifstar{\@ssetr}{\@setr}}
          995 \DeclareRobustCommand{\@setr}[1]
          996 {\mth{\argmid{\left.}{#1}{\right\rbrace}}}
          997 \DeclareRobustCommand{\@ssetr}[1]
             {\mth*{\argmid{}{#1}{\rbrace}}}
   \card ...
          999 \DeclareRobustCommand{\card}
         1000 {\c}^{\c}
         1001 \DeclareRobustCommand{\@card}[1]
         1002 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
         1003 \DeclareRobustCommand{\@scard}[1]
         \pow ...
         1005 \DeclareRobustCommand{\pow}[1]
         1006 \quad \{\mth{2^{\defval{\#1}{\cdot}}}\}
```

```
\emptyrel ...
                                 1008 \DeclareRobustCommand{\emptyrel}
                                          {\mth{\varnothing}}
                                 \dom, \cod, ... ...
                                 1011 \usrmth{dom}{}{argfun}
                                1012 \usrmth{cod}{}{argfun}
                                 1013 \usrmth{rng}{}{argfun}
                                 1014 \usrmth{img}{}{argfun}
                                 \prj ...
                                 1016 \DeclareRobustCommand{\prj}
                                1017 {\mthlbop{\downarrow}}
                     \rst ...
                                 1018 \DeclareRobustCommand{\rst}
                                          {\mthlbop{\upharpoonright}}
                     \cmp ...
                                 1020 \DeclareRobustCommand{\cmp}
                                          {\mthlbop{\circ}}
                                 \emptyfun ...
                                 1023 \DeclareRobustCommand{\emptyfun}
                                         {\mth{\varnothing}}
                                 \pto, \pmapsto
                                1026 \DeclareMathOperator{\pto}
                                           {\ensuremath{\rightharpoonup}}
                                 1028 \DeclareMathOperator{\pmapsto}
                                 1029
                                           1030
                                               \kern-1.5ex\rightharpoonup}}}
                                 \fix, \ifp, ... ...
                                 1032 \mbox{ } \mbox
                                 1033 \mbox{ \normalfifp}{fun}
                                 1034 \mbox{ }\mbox{lfp}{}{fun}
                                 1035 \sl {gfp}{fun}
                                 \Aomega, \AOmega
                                 1037 \usrmth{Aomega}{}{argset}[\omega]
                                 1038 \usrmth{AOmega}{}{argset}[\Omega]
\Atheta, \ATheta
                                 1039 \usrmth{Atheta}{}{argset}[\theta]
                                 1040 \usrmth{ATheta}{}{argset}[\Theta]
   \Aomicron, ... ...
                                 1041 \usrmth{Aomicron}{}{argset}[\omicron]
                                 1042 \usrmth{AOmicron}{}{argset}[\Omicron]
```

```
\SetB ...
           1044 \DeclareRobustCommand{\SetB}
           1045 {\mthset[mathbb]{B}}
    \SetF ...
           1046 \verb|\DeclareRobustCommand{\SetF}|
           1047 \quad \{\text{mthset[mathbb]}\{F\}\}
\SetN, ... ...
           1048 \DeclareRobustCommand{\SetN}
           1049 {\mthset[mathbb]{N}}
           1050 \DeclareRobustCommand{\SetNI}[1][]
           1051 {\SetN[\infty #1]}
\SetZ, ... ...
           1052 \DeclareRobustCommand{\SetZ}
           1053 {\mthset[mathbb]{Z}}
           1054 \DeclareRobustCommand{\SetZI}[1][]
           1055 {\SetZ[\pm\infty #1]}
           1056 \DeclareRobustCommand{\SetZPI}[1][]
               {\SetZ[+\infty #1]}
           1058 \DeclareRobustCommand{\SetZNI}[1][]
           1059 {\SetZ[-\infty #1]}
\SetQ, ...
           1060 \DeclareRobustCommand{\SetQ}
           1061 {\mthset[mathbb]{Q}}
           1062 \DeclareRobustCommand{\SetQI}[1][]
           1063 {\SetQ[\pm\infty #1]}
           1064 \DeclareRobustCommand{\SetQPI}[1][]
                {\SetQ[+\infty #1]}
           1066 \DeclareRobustCommand{\SetQNI}[1][]
           1067 {\SetQ[-\infty #1]}
\SetR, ... ...
           1068 \DeclareRobustCommand{\SetR}
           1069 {\mthset[mathbb]{R}}
           1070 \DeclareRobustCommand{\SetRI}[1][]
                {\SetR[\pm\infty #1]}
           1072 \DeclareRobustCommand{\SetRPI}[1][]
           1073 {\SetR[+\infty #1]}
           1074 \DeclareRobustCommand{\SetRNI}[1][]
           1075 {\SetR[-\infty #1]}
\SetC, ... ...
           1076 \DeclareRobustCommand{\SetC}
           1077 {\mthset[mathbb]{C}}
           1078 \DeclareRobustCommand{\SetCI}[1][]
           1079 {\SetC[\infty #1]}
           \num, ...
           1081 \DeclareRobustCommand{\num}[1]
           1082 {\mth{[#1]}}
           1083 \DeclareRobustCommand{\numcc}[2]
           1085 \DeclareRobustCommand{\numco}[2]
                {\mth{[\argsep{#1}{,}{#2})}}
           1087 \DeclareRobustCommand{\numoc}[2]
                {\mth{(\argsep{#1}{,}{#2}]}}
           1089 \DeclareRobustCommand{\numoo}[2]
           1090 {\mth{(\argsep{#1}{,}{#2})}}
```

```
\abs, \norm
               1092 \DeclareRobustCommand{\abs}
                    {\@ifstar{\@sabs}{\@abs}}
               1094 \DeclareRobustCommand{\@abs}[1]
                    {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
               1096 \DeclareRobustCommand{\@sabs}[1]
                    {\mth*{\argmid{\lvert}{#1}{\rvert}}}
               1098 \DeclareRobustCommand{\norm}
               1099 {\@ifstar{\@snorm}{\@norm}}
               1100 \DeclareRobustCommand{\@norm}[1]
               1101 {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
               1102 \DeclareRobustCommand{\@snorm}[1]
                   {\mth*{\argmid{\lVert}{#1}{\rVert}}}
 \floor, \ceil ...
               1104 \DeclareRobustCommand{\floor}
               1105 {\@ifstar{\@sfloor}{\@floor}}
               1106 \DeclareRobustCommand{\@floor}[1]
               1107 {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
               1108 \DeclareRobustCommand{\@sfloor}[1]
                   {\mth*{\argmid{\lfloor}{#1}{\rfloor}}}
               1110 \DeclareRobustCommand{\ceil}
                    {\@ifstar{\@sceil}{\@ceil}}
               1112 \DeclareRobustCommand{\@ceil}[1]
               1113 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
               {\tt 1114} \verb|\DeclareRobustCommand{\tt \Csceil}[1]
               1115 {\mth*{\argmid{\lceil}{#1}{\rceil}}}
               \arg ...
               1117 \usrmth{arg}{}{fun}
    \evn, \odd ...
               1118 \usrmth{evn}{}{fun}
               1119 \operatorname{lusrmth} \{ odd \} \{ \} \{ fun \}
     \bst, ... ...
               1120 \usrmth{bst}{}{fun}
               1121 \usrmth{argbst}{}{fun}[arg\,bst]
\min, \max, ... ...
               1122 \usrmth{min}{}{fun}
               1123 \operatorname{max}{{fun}}
               1124 \usrmth{argmin}{}{fun}[arg\,min]
               1125 \usrmth{argmax}{}{fun}[arg\,max]
    \inf, \sup
               1126 \usrmth{inf}{}{fun}
               1127 \operatorname{sup}{\{}fun\}
               \emptyseq
               1129 \DeclareRobustCommand{\emptyseq}
               1130 {\mth{\varepsilon}}
               1131 \DeclareRobustCommand{\len}
               1132 {\@ifstar{\@slen}{\@len}}
               1133 \DeclareRobustCommandx{\@len}[3][1=, 2=]
```

```
1135 \DeclareRobustCommand{\@len}[1]
              1136 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
              1137 \DeclareRobustCommand{\@slen}[1]
                   {\mth*{\argmid{\lvert}{#1}{\rvert}}}
   \fst, \lst ...
              1139 \usrmth{fst}{}{argfun}
              1140 \operatorname{lst}{{argfun}}
              1141 \fi
              1146 \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)
              1147 \newcommandx{\defcomcls}[2][2=]
                    {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
                  • \defcomclsgrp{CompClass};
                   \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                   \verb|\CoCompClass[sub][sup][arg]| = CoCompClass[sup](ARG)
                   \CompClassE[sub][sup][arg] = COMPCLASS-EASY_{SUB}^{SUP}(ARG)
                   \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)
                   \DCompClass[sub][sup][arg] = DCompCLASS_{SUB}^{SUP}(ARG)
                   \CoDCompClass[sub][sup][arg] = CoDCompCLASS_{SUB}^{SUP}(ARG)
                   \verb|\DCompClassE[sub][sup][arg]| = DCompClass-Easy_{SUB}^{SUP}(ARG)
                   \CoDCompClassE[sub][sup][arg] = CoDCompClass-EASY_{SUB}^{SUP}(ARG)
                   \label{eq:decompClassHard} $$\D{\compClassHard}_{SuB}[sub][sup] = DCOMPCLASS-HARD_{SUB}^{SUP}(ARG)$
                   \CodCompClassH[sub][sup][arg] = CodCompClass-Hard_{SUB}^{SUP}(Arg)
                   \label{eq:decompClassC} $$\D{\compClassC[sub][sup][arg]} = DCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                   \CoDCompClassC[sub][sup][arg] = CoDCompClass-Complete_{SUB}^{SUP}(ARG)
                   \verb|\NCompClass[sub][sup][arg]| = NCOMPCLASS_{SUB}^{SUP}(ARG)
                   \verb|\CoNCompClass[sub][sup][arg]| = CoNCompClass_{SUB}^{SUP}(ARG)
                   \verb|\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)
                   \ConCompClassH[sub][sup][arg] = ConCompClass-Hard_{SUB}^{SUP}(ARG)
                   \NCompClassC[sub][sup][arg] = NCompClass-CompLete_{SUB}^{SUP}(ARG)
                   \verb|\ConCompClassC[sub][sup][arg]| = ConCompClass-Complete_{SUB}^{SUP}(ARG)
                   \UCompClass[sub][sup][arg] = UCompClass[sub](ARG)
                   \CoUCompClass[sub][sup][arg] = CoUCompClass_{SUB}^{SUP}(ARG)
                   \UCompClassE[sub][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)
      \verb|\CoUCompClassH[sub][sup][arg]| = CoUCompClass-Hard_{SUB}^{SUP}(ARG)
      \UCompClassC[sub][sup][arg] = UCompClass-CompLete_{Sub}^{SUP}(ARG)
      \texttt{CoUCompClassC[sub][sup][arg]} = \texttt{CoUCompClass-complete}_{\texttt{SUB}}^{\texttt{SUP}}(\texttt{ARG})
     \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
     \verb|\CoACompClass[sub][sup][arg]| = CoACompClass[sub](arg)
     \label{eq:accompClassEsub} $$ [\sup] [arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG) $$
     \verb|\CoACompClassE[sub][sup][arg]| = CoACompClass-Easy_{SUB}^{SUP}(ARG)
      \verb|\ACompClassH[sub][sup][arg]| = ACOMPCLASS-HARD_{SUB}^{SUP}(ARG)
      \verb|\CoACompClassH[sub][sup][arg]| = CoACompClass-Hard_{SUB}^{SUP}(ARG)
      \verb|\ACompClassC[sub][sup][arg]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \CoACompClassC[sub][sup][arg] = CoACompClass-CompLete_{Sub}^{SUP}(ARG)
    \defcomclsgrp{CompClass}[NewClass];
      \verb|\CompClass[sub][sup][arg]| = NewClass_{SUB}^{SUP}(ARG)
     \verb|\CoCompClass[sub][sup][arg]| = \mathrm{CoNewClass}^{SUP}_{SUB}(\mathrm{Arg})
      \verb|\CompClassE[sub][sup][arg]| = NewClass-easy_{SUB}^{SUP}(ARG)
      \verb|\CoCompClassE[sub][sup][arg]| = CoNewClass-easy_{Sub}^{SUP}(ARG)
      \verb|\CompClassH[sub][sup][arg]| = NewClass-Hard_{Sub}^{SUP}(ARG)
      \verb|\CoCompClassH[sub][sup][arg]| = CoNewClass-Hard_{Sub}^{SUP}(ARG)
      \CompClassC[sub][sup][arg] = NewClass-Complete_{SUB}^{SUP}(ARG)
      \verb|\CoCompClassC[sub][sup][arg]| = CoNewClass-complete_{SUB}^{SUP}(ARG)
     \DCompClass[sub][sup][arg] = DNEWCLASS_{SUB}^{SUP}(ARG)
      \CoDCompClass[sub][sup][arg] = CoDNEWCLASS_{SUB}^{SUP}(ARG)
     \label{eq:decompClassEsub} $$ [\sup] [arg] = DNEWCLASS-EASY_{SUB}^{SUP}(ARG) $$
     \CoDCompClassE[sub][sup][arg] = CoDNewClass-Easy_{SUB}^{SUP}(ARG)
     \DCompClassH[sub][sup][arg] = DNEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{SUB}^{SUP}(ARG)
      \label{eq:decompClassC} $$\D{\compClassC[sub][sup][arg]} = DNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \verb|\CoDCompClassC[sub][sup][arg]| = CoDNewClass-Complete_{SUB}^{SUP}(ARG)
     \verb|\NCompClass[sub][sup][arg]| = NNEWCLASS^{SUP}_{SUB}(ARG)
      \ConCompClass[sub][sup][arg] = ConNewClass_{SUB}^{SUP}(ARG)
      \label{eq:ncompClassE} $$\NEWCLASS-EASY_{SUB}^{SUP}(ARG)$$
      \verb|\CoNCompClassE[sub][sup][arg]| = CoNNewClass-Easy_{SUB}^{SUP}(ARG)
      \verb|\NCompClassH[sub][sup][arg]| = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{Sup}^{SUP}(Arg)
      \NCompClassC[sub][sup][arg] = NNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \ConCompClassC[sub][sup][arg] = ConNewClass-Complete_{Sub}^{SUP}(Arg)
     \verb|\UCompClass[sub][sup][arg]| = UNEWCLASS^{SUP}_{SUB}(ARG)
      \CoUCompClass[sub][sup][arg] = CoUNEWCLASS_{SUB}^{SUP}(ARG)
     \label{eq:UCompClassEsub} $$ [\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)
      \verb|\UCompClassC[sub][sup][arg]| = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
     \verb|\CoUCompClassC[sub][sup][arg]| = CoUNewClass-complete_{SUB}^{SUP}(ARG)
     \texttt{\ACompClass[sub][sup][arg]} = ANEWCLASS_{SUB}^{SUP}(ARG)
      \verb|\CoACompClass[sub][sup][arg]| = CoANewClass_{SUB}^{SUP}(ARG)
      \triangle CompClassE[sub][sup][arg] = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
      \CoACompClassE[sub][sup][arg] = CoANewClass-Easy_{SUB}^{SUP}(ARG)
      \verb|\ACompClassH[sub][sup][arg]| = ANEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \verb|\CoACompClassH[sub][sup][arg]| = CoANewClass-Hard_{SUB}^{SUP}(ARG)
      \Lambda CompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \CoACompClassC[sub][sup][arg] = CoANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
1149 \newcommandx{\defcomclsgrp}[2][2=]
      \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
{\defcomclsgrpred{#3#1}{#2}[#3]%
```

```
\defcomclsgrpred{#3D#1}{#2}[#3D]%
                    1155
                           \defcomclsgrpred{#3N#1}{#2}[#3N]%
                    1156
                          \defcomclsgrpred{#3U#1}{#2}[#3U]%
                    1157
                          \defcomclsgrpred{#3A#1}{#2}[#3A]}
                    1158 \newcommandx{\defcomclsgrpred}[3][3=]
                          {\defcomclsgrpcmd{#1}{#2}[#3]%
                    1159
                          \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                    1160
                          \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                    1161
                          \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                    1162
                    1163 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                          {\csdef{#1}{\txtoargcom{#3#2#4}}}
       \defcomhrc ... to do!
                        • \defcomhrc{CompHierarchy};
                          CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                        • \defcomhrc{CompHierarchy} [NewHierarchy];
                          {\tt CompHierarchy[sub][sup][par]} = {\tt NewHierarchy_{SUB}^{SUP}[PAR]}
                    1165 \newcommandx{\defcomhrc}[2][2=]
                          {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
                    \Easy, \Hard, ...
                    1168 \cmdtxtcom{Easy}
                    1169 \cmdtxtcom{Hard}
                    1170 \cmdtxtcom{Complete}
                    \FPT
                        • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
                    1172 \defcomcls{FPT}
                    \Time, ...
                        • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
                          TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
                          \texttt{TimeH[sub][sup][arg]} = 	ext{TIME-HARD}^{	ext{SUP}}_{	ext{SUB}}(	ext{ARG})
                          \verb|\TimeC[sub][sup][arg]| = Time-Complete_{SUB}^{SUP}(ARG)
                        • \DTime[sub][sup][arg] = DTIME_{SUB}^{SUP}(ARG)
                          \texttt{\DTimeE[sub][sup][arg]} = \mathrm{DTime\text{-}EASY}^{SUP}_{SUB}(ARG)
                          \verb|\DTimeH[sub][sup][arg]| = DTIME-HARD_{SUB}^{SUP}(ARG)
                          \label{eq:def:DTimeC[sub]} $$ \operatorname{DTIME-COMPLETE}^{SUP}_{SUB}(ARG) $$
                        • \NTime[sub][sup][arg] = NTIME_{SUB}^{SUP}(ARG)
                          \NTimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
                          \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                         \NTimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
                          \UTimeE[sub][sup][arg] = UTIME-EASY_{SUB}^{SUP}(ARG)
                          \UTimeH[sub][sup][arg] = UTIME-HARD_{SUB}^{SUP}(ARG)
                          \UTimeC[sub][sup][arg] = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
                          \texttt{\ATimeE[sub][sup][arg]} = \text{ATIME-EASY}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                          \verb|\ATimeH[sub][sup][arg]| = ATIME-HARD_{SUB}^{SUP}(ARG)
                          \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                    1174 \defcomclsgrp{Time}
                        • Space[sub][sup][arg] = Space[Sub](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)
```

```
\verb|\DSpaceE[sub][sup][arg]| = DSPACE-EASY_{SUB}^{SUP}(ARG)
                          \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
                          \DSpaceC[sub][sup][arg] = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       \bullet \ \ \texttt{NSpace[sub][sup][arg]} = NSPACE^{SUP}_{SUB}(ARG)
                          \NSpaceE[sub][sup][arg] = NSPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|\NSpaceH[sub][sup][arg]| = NSPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|NSpaceC[sub][sup][arg]| = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \USpace[sub][sup][arg] = USPACE_SUB(ARG)
                          \USpaceE[sub][sup][arg] = USPACE-EASY_{SUB}^{SUP}(ARG)
                          \USpaceH[sub][sup][arg] = USPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|\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)
                          \texttt{ASpaceH[sub][sup][arg]} = ASPACE-HARD_{SUB}^{SUP}(ARG)
                          ASpaceC[sub][sup][arg] = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1175 \defcomclsgrp{Space}
                       • \lfloor LogTime[sub][sup][arg] = LogTime_{SUB}^{SUP}(ARG)
 \LogTime, ...
                          \lceil LogTimeE[sub][sup][arg] = LogTime-Easy_{Sub}^{SUP}(ARG)
                          LogTimeH[sub][sup][arg] = LogTime-Hard_{Sub}^{SUP}(Arg)
                          \lceil LogTimeC[sub][sup][arg] = LogTime-Complete_{SUB}^{SUP}(ARG)
                       • \DLogTime[sub][sup][arg] = DLogTime_{SUB}^{SUP}(ARG)
                          \DLogTimeE[sub][sup][arg] = DLogTime-EASY_{SUB}^{SUP}(ARG)
                          \DLogTimeH[sub][sup][arg] = DLogTime-HARD_{SUB}^{SUP}(ARG)
                          \DLogTimeC[sub][sup][arg] = DLogTime-COMPLETE_{SUB}^{SUP}(ARG)
                       • \NLogTime[sub][sup][arg] = NLogTime_{SUB}^{SUP}(ARG)
                          \NLogTimeE[sub][sup][arg] = NLogTime-EASY_{SUB}^{SUP}(ARG)
                          \NLogTimeH[sub][sup][arg] = NLogTime-Hard_{SUB}^{SUP}(ARG)
                          \NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)
                       • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                          \ULogTimeE[sub][sup][arg] = ULogTime-EASY_{SUB}^{SUP}(ARG)
                          \ULogTimeH[sub][sup][arg] = ULogTime-HARD_{SUB}^{SUP}(ARG)
                          \label{eq:ulogTimeC} $$\ULogTimeC[sub][sup][arg] = ULogTime-COMPLETE_{SUB}^{SUP}(ARG)$
                       • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                          \verb|\ALogTimeE[sub][sup][arg]| = ALogTime-EASY_{SUB}^{SUP}(ARG)
                          \ALogTimeH[sub][sup][arg] = ALogTime-HARD_{SUB}^{SUP}(ARG)
                          ALogTimeC[sub][sup][arg] = ALogTime-Complete_{SUB}^{SUP}(ARG)
                   1176 \defcomclsgrp{LogTime}
                       • LogSpace[sub][sup][arg] = LogSpace_{SUB}^{SUP}(ARG)
\LogSpace, ...
                          LogSpaceE[sub][sup][arg] = LogSpace-Easy_{SUB}^{SUP}(ARG)
                          \verb|\LogSpaceH[sub][sup][arg]| = \operatorname{LogSpace-Hard}_{SUB}^{SUP}(ARG)
                          LogSpaceC[sub][sup][arg] = LogSpace-Complete_{Sub}^{SUP}(ARG)
                       • \DLogSpace[sub][sup][arg] = DLogSpace[sub](ARG)
                          \DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)
                          \DLogSpaceH[sub][sup][arg] = DLogSpace-Hard_{SUB}^{SUP}(Arg)
                          \DLogSpaceC[sub][sup][arg] = DLogSpace-Complete_{Sub}^{SUP}(Arg)
                       • \NLogSpace[sub][sup][arg] = NLogSpace_{SUB}^{SUP}(ARG)
                         \label{eq:nlogSpaceEsub} $$\NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)$
                          \label{eq:nlogSpaceH} $$\NLogSpaceH[sub][sup][arg] = NLogSpace-Hard_{SUB}^{SUP}(ARG)$
                          \verb|\NLogSpaceC[sub][sup][arg]| = NLogSpace-complete_{Sub}^{SUP}(ARG)
                       • \ULogSpace[sub][sup][arg] = ULogSpace[sub](ARG)
                          \verb|\ULogSpaceE[sub][sup][arg]| = ULogSpace-easy_{SUB}^{SUP}(ARG)
                          \verb| ULogSpaceH[sub][sup][arg] = ULogSpace-hard_{SUB}^{SUP}(ARG)
                          \ULogSpaceC[sub][sup][arg] = ULogSpace-CompleteSup(Arg)
                       \bullet \ \ \texttt{ALogSpace[sub][sup][arg]} = ALogSpace[sub](ARG)
                         \label{eq:alogSpace} $$\ALogSpaceE[sub][sup] [arg] = ALogSpace-Easy_{SUB}^{SUP}(ARG)$
                          ALogSpaceH[sub][sup][arg] = ALogSpace-Hard_{SUB}^{SUP}(ARG)
                         \Lambda LogSpaceC[sub][sup][arg] = ALogSpace-Complete_{SUB}^{SUP}(ARG)
                   1177 \defcomclsgrp{LogSpace}
```

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

```
\PTime, ...
                        • \P [sub] [sup] [arg] = \Pr [MESUB (ARG)
                           \verb|\PTimeE[sub][sup][arg]| = PTIME-EASY_{SUB}^{SUP}(ARG)
                           \P [sub] [sup] [arg] = PTIME-HARD_{SUB}^{SUP}(ARG)
                           \PTimeC[sub][sup][arg] = PTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        \bullet \ \ \texttt{\baseline}[\mathtt{sub}][\mathtt{sup}][\mathtt{arg}] = \mathrm{DPTIME}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{ARG})
                           \verb|\DPTimeE[sub][sup][arg]| = \mathrm{DPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                           \label{eq:def:DPTimeH} $$ \operatorname{DPTIME-HARD}^{SUP}_{SUB}(ARG) $$
                           \label{eq:def:DPTimeC} $$ \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                        • \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                           \NPTimeE[sub][sup][arg] = NPTIME-EASY_{SUB}^{SUP}(ARG)
                           \label{eq:nptimeH} $$ \DTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG) $$
                           \NPTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • \UPTime[sub][sup][arg] = UPTIME_{SUB}^{SUP}(ARG)
                           \label{eq:uptimeEsub} $$ \operatorname{UPTIME-EASY}^{SUP}_{SUB}(ARG) = \operatorname{UPTIME-EASY}^{SUP}_{SUB}(ARG) $$
                           \verb|\UPTimeH[sub][sup][arg]| = UPTIME-HARD_{SUB}^{SUP}(ARG)
                           \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        \bullet \ \ \texttt{\ APTime[sub][sup][arg]} = \mathrm{APTIME}^{SUP}_{SUB}(\mathrm{ARG})
                           \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(\operatorname{ARG})
                           \verb| APTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                           \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                    1178 \defcomclsgrp{PTime}
                        • \PSpace[sub][sup][arg] = PSPACE_{SUB}^{SUP}(ARG)
\PSpace, ...
                           \PSpaceE[sub][sup][arg] = PSPACE-EASY_{SUB}^{SUP}(ARG)
                           \label{eq:pspaceh} $$ \PSpaceH[sub][sup][arg] = PSpace-HARD_{SUB}^{SUP}(ARG) 
                           \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
                           \label{eq:decomposition} $$ \DPSpaceE[sub][sup][arg] = DPSpace-Easy_{SUB}^{SUP}(ARG) $$
                           \label{eq:def:DPSpaceH} $$ \DPSpaceH[sub] [sup] [arg] = DPSpace-HARD_{SUB}^{SUP}(ARG) $$
                           \DPSpaceC[sub][sup][arg] = DPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                           \verb|\NPSpaceE[sub][sup][arg]| = NPSPACE-EASY_{SUB}^{SUP}(ARG)
                           \verb|\NPSpaceH[sub][sup][arg]| = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                           \label{eq:npspace} $$\NPSpaceC[sub][sup][arg] = NPSpace-Complete_{SUB}^{SUP}(ARG)$
                        • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                           \UPSpaceE[sub][sup][arg] = UPSPACE-EASY_{SUB}^{SUP}(ARG)
                           \verb|\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)
                           APSpaceE[sub][sup][arg] = APSPACE-EASY_{SUB}^{SUP}(ARG)
                           APSpaceH[sub][sup][arg] = APSPACE-HARD_{SUB}^{SUP}(ARG)
                           APSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                    1179 \defcomclsgrp{PSpace}
                        • \QPTime[sub][sup][arg] = QPTIME_{SUB}^{SUP}(ARG)
\QPTime, ...
                           \label{eq:QPTimeEsub} $$ \operatorname{[sup][arg]} = \operatorname{QPTIME-EASY}^{\operatorname{SUP}}_{\operatorname{SUB}}(\operatorname{ARG}) $$
                           \verb|\QPTimeH[sub][sup][arg]| = \mathrm{QPTIME-HARD}^{SUP}_{SUB}(ARG)
                           \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                           \verb|\DQPTimeE[sub][sup][arg]| = DQPTIME-EASY_{SUB}^{SUP}(ARG)
                           \texttt{DQPTimeH[sub][sup][arg]} = \mathrm{DQPTIME}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                           \label{eq:def-DQPTimeC} $$ \DQPTimeC[sub] [sup] [arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                        • \NQPTime[sub][sup][arg] = NQPTIME_{SUB}^{SUP}(ARG)
                           \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                           \NQPTimeH[sub][sup][arg] = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                           \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)
                           \UQPTimeH[sub][sup][arg] = UQPTIME-HARD_{SUB}^{SUP}(ARG)
                           \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\verb| AQPTimeE[sub][sup][arg] = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                                                 \texttt{AQPTimeH[sub][sup][arg]} = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                                                \label{eq:approx} $$ AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                                     1180 \defcomclsgrp{QPTime}
                                             \bullet \ \texttt{\QPSpace[sub][sup][arg]} = \mathrm{QPSpace}^{SUP}_{SUB}(ARG) 
  \QPSpace, ...
                                                \verb|\QPSpaceE[sub][sup][arg]| = QPSpace-easy_{Sub}^{SUP}(ARG)
                                                 \label{eq:QPSpaceH} $$ \QPSpaceH[sub] [sup] [arg] = QPSpace-HARD_{SUB}^{SUP}(ARG) $$
                                                \QPSpaceC[sub][sup][arg] = QPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                            • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                                                \texttt{DQPSpaceE[sub][sup][arg]} = DQPSPACE-EASY_{SUB}^{SUP}(ARG)
                                                \texttt{DQPSpaceH[sub][sup][arg]} = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                                                \DQPSpaceC[sub][sup][arg] = DQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                            • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                                                 \verb|NQPSpaceE[sub][sup][arg]| = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                                                \verb|NQPSpaceH[sub][sup][arg]| = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                                                 \NQPSpaceC[sub][sup][arg] = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                            • \UQPSpace[sub][sup][arg] = UQPSPACE_{SUB}^{SUP}(ARG)
                                                \verb|VQPSpaceE[sub][sup][arg]| = UQPSPACE-EASY_{SUB}^{SUP}(ARG)
                                                \verb|VQPSpaceH[sub][sup][arg]| = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                                                 \verb|VQPSpaceC[sub][sup][arg]| = UQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                            • AQPSpace[sub][sup][arg] = AQPSPACE_{SUB}^{SUP}(ARG)
                                                \texttt{AQPSpaceE[sub][sup][arg]} = AQPSPACE-EASY_{SUB}^{SUP}(ARG)
                                                \verb|\AQPSpaceH[sub][sup][arg]| = \mathrm{AQPSPACE}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                                                \label{eq:approx} $$ AQPSpaceC[sub][sup][arg] = AQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
                                     1181 \defcomclsgrp{QPSpace}
                                            • \ExpTime[sub][sup][arg] = EXPTIME_SUB(ARG)
  \ExpTime, ...
                                                \ExpTimeE[sub][sup][arg] = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                                                \ExpTimeH[sub][sup][arg] = EXPTIME-HARD_{SUB}^{SUP}(ARG)
                                                \texttt{\complete}[sub][sup][arg] = EXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                                            \verb|\DExpTimeE[sub][sup][arg]| = DEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                                \DExpTimeH[sub][sup][arg] = DExpTIME-HARD_{SUB}^{SUP}(ARG)
                                                 \texttt{\DExpTimeC[sub][sup][arg]} = DEXPTIME-COMPLETE_{SUB}^{SUB}(ARG)
                                            • NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                                                 \NExpTimeE[sub][sup][arg] = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                                 \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)
                                                \UExpTimeE[sub][sup][arg] = UEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                                 \UExpTimeH[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)
                                                \Delta ExpTimeE[sub][sup][arg] = AEXPTIME-EASY_{SUR}^{SUP}(ARG)
                                                \Delta ExpTimeH[sub][sup][arg] = AEXpTIME-HARD_{SUR}^{SUP}(ARG)
                                                \Delta ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                                     1182 \defcomclsgrp{ExpTime}
                                            \bullet \ \texttt{\ \ } \texttt{[sup][arg]} = \texttt{ExpSpace[sub][sup]}[\texttt{arg]} = \texttt{ExpSpace[sub]}(\texttt{Arg})
\ExpSpace, ...
                                                \ExpSpaceE[sub][sup][arg] = EXPSPACE-EASY_{SUB}^{SUP}(ARG)
                                                \verb|\ExpSpaceH[sub][sup][arg]| = EXPSPACE-HARD_{SUB}^{SUP}(ARG)
                                                \texttt{\tt \baselineser} \texttt{\tt \baselineser} \texttt{\tt \baselineserr} \texttt{\tt \baseline
                                            \label{eq:decomposition} $$ \DExpSpaceE[sub][sup][arg] = DExpSpace-Easy_{SUB}^{SUP}(ARG) $$
                                                 \verb|\DExpSpaceH[sub][sup][arg]| = DEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                                                \verb|\DExpSpaceC[sub][sup][arg]| = DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

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

```
• \NExpSpace[sub][sup][arg] = NExpSpace[sub](ARG)
                 \verb|NExpSpaceE[sub][sup][arg]| = NEXPSPACE-EASY_{SUB}^{SÚP}(ARG)
                 \NExpSpaceH[sub][sup][arg] = NEXpSpace-HARD_{SUB}^{SUP}(ARG)
                 \verb|NExpSpaceC[sub][sup][arg]| = NEXPSPACE-COMPLETE^{SUP}_{SUB}(ARG)
               • \UExpSpace[sub][sup][arg] = UExpSpace[sub](ARG)
                 \verb|\UExpSpaceE[sub][sup][arg]| = UEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                 \verb|\UExpSpaceH[sub][sup][arg]| = UEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                 \label{eq:uexpspaceC} $$ \UExpSpaceC[sub][sup] [arg] = UExpSpace-Complete_{SUB}^{SUP}(ARG) $$
               • \Delta ExpSpace[sub][sup][arg] = AEXPSPACE_{SUB}^{SUP}(ARG)
                 \verb|\AExpSpaceE[sub][sup][arg]| = AEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                 \texttt{AExpSpaceH[sub][sup][arg]} = \text{AExpSpace-HARD}^{SUP}_{SUB}(ARG)
                 \AExpSpaceC[sub][sup][arg] = AExpSpace-Complete_{SUB}^{SUP}(ARG)
            1183 \defcomclsgrp{ExpSpace}
            \PH
               • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
            1185 \defcomhrc{PH}
       \WH
               • WH[sub][sup][par] = W_{SUB}^{SUP}[PAR]
            1186 \defcomhrc{WH}[W]
               • AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
       \AH
            1187 \defcomhrc{AH}[A]
               ullet \DLH[sub][sup][par] =\Delta_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
\DLH, \DBH
               ullet \DBH[sub][sup][par] = oldsymbol{\Delta}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
            1188 \defcomhrc{DLH}[{\mth{\Delta}}]
            1189 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
\ELH, \EBH
               • \ELH[sub][sup][par] = \Sigma_{\text{SUB}}^{\text{SUP}}[\text{PAR}]
               ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
            1190 \defcomhrc{ELH}[{\mth{\Sigma}}]
            1191 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
\ULH, \UBH
               • \ULH[sub][sup][par] = \Pi_{SUB}^{SUP}[PAR]
               ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
            1193 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
            1194\fi
            1198 %%*****
            1199 \ifgam@
           \SATG, ...
           1201 %% Satisfiability Games
            1202 \cmdtxtoparname{SATG}[Sat]
            1203
            1204 %% Validity Games
            1205 \cmdtxtoparname{VALG}[Val]
            1206
            1207 %% Evaluation Games
            1208 \cmdtxtoparname{EVLG}[Ev1]
            1210 %% Synthesis Games
            1211 \cmdtxtoparname{SYNG}[Syn]
```

```
1212
                 1213 %% Model-Checking Games
                 1214 \cmdtxtoparname{MCG} [MC]
                 1216 %% Ehrenfeucht-Fraisse Games
                 1217 \cmdtxtoparname{EFG}[EF]
                 \PlrSym, \OppSym
                 1219 \newcommand{\plrsym}{E}
                 1220 \cmdmthsym{Plr}[\plrsym]
                 1221 \newcommand{\oppsym}{A}
                 1222 \verb|\cmdmthsym{Opp}| [\verb|\oppsym|]|
\ArenaName, ...
                 1223 \newcommand{\arenaname}{A}
                 1224 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
   \PosSet, ... ...
                 1225 \mbox{ \newcommand{\possym}{v}}
                 1226 \newcommand{\posset}{Ps}
                 1227 \cmdmthsetext{Pos}[\posset][\possym]
                 1228 \verb|\cmdmthsymelm{ipos}[\possym_{I}]|
                 1229 \verb|\cmdmthsymelm{fpos}[\possym_{F}]|
                 1230 \verb|\cmdmthset{PPos}[\posset_{\prop}]
                 1231 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                 1232 \cmdmthset{OPos}[\posset_{\OppSym}]
                 1233 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \PlrFun ...
                 1234 \neq \{plrfun}{pl}
                 1235 \cmdmthfun{plr}[\plrfun]
        \MovRel ...
                 1236 \newcommand{\movrel}{Mv}
                 1237 \cmdmthrel{Mov}[\movrel]
  \GameName, ... ...
                 1238 \newcommand{\gamename}{\Game}
                 1239 \usrmthlatupp{Game}{Name}{name}[\gamename]
        \WinSet ...
                 1240 \mbox{ } \mbox{newcommand{\winset}{Wn}}
                 1241 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun
                 1242 \mbox{ newcommand{\obsset}{0b}}
                 1243 \cmdmthset{Obs}[\obsset]
                 1244 \cmdmthfun{obs}
                 \PthSet, \pthFun
                 1246 \mbox{ \newcommand{\pthsym}{\pi}}
                 1247 \newcommand{\pthset}{Pth}
                 1248 \cmdmthsetext{Pth} [\pthset] [\pthsym]
                 1249 \cmdmthfun{pth}
   \HstSet, ... ...
                 1250 \newcommand{\hstsym}{\rho}
                 1251 \newcommand{\hstset}{Hst}
                 1252 \cmdmthsetext{Hst}[\hstset][\hstsym]
```

```
1253 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                            1254 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                            1255 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                            1256 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                                            1257 \cmdmthfun{hst}
\PlaySet,\playFun
                                            1258 \newcommand{\playsym}{\pi}
                                            1259 \newcommand{\playset}{Play}
                                            1260 \verb|\cmdmthsetext{Play}| [\playsym]|
                                            1261 \cmdmthfun{play}
           \StrSet, ... ...
                                            1262 \newcommand{\strsym}{\sigma}
                                            1263 \newcommand{\strset}{Str}
                                            1264 \cmdmthsetext{Str}[\strset][\strsym]
                                            1265 \cmdmthset{PStr}[\strset_{\PlrSym}]
                                            1266 \verb|\cmdmthsymelm{pstr}[\strsym_{\protect\cite{thm:linear}}]
                                            1267 \cmdmthset{OStr}[\strset_{\OppSym}]
                                            1268 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet, \prfFun
                                            1269 \newcommand{\prfsym}{\xi}
                                            1270 \newcommand{\prfset}{Prf}
                                            1271 \cmdmthsetext{Prf}[\prfset][\prfsym]
  \preFun, \sucFun
                                            1272 \newcommand{\prefun}{pre}
                                            1273 \cmdmthoargfun{pre}[\prefun]
                                            1274 \newcommand{\sucfun}{suc}
                                            1275 \cmdmthoargfun{suc}[\sucfun]
 \entFun, \escFun
                                            1276 \mbox{ } \mbox{newcommand{\entfun}{ent}}
                                            1277 \cmdmthoargfun{ent}[\entfun]
                                            1278 \mbox{ \newcommand{\escfun}{esc}}
                                            1279 \cmdmthoargfun{esc}[\escfun]
 \intFun, \outFun ...
                                            1281 \cmdmthoargfun{int}[\intfun]
                                            1282 \newcommand{\outfun}{out}
                                            1283 \cmdmthoargfun{out}[\outfun]
  \atrFun, \rchFun ...
                                            1284 \mbox{ } \mbox{newcommand{\atrfun}{atr}}
                                            1285 \cmdmthoargfun{atr}[\atrfun]
                                            1286 \mbox{ } \mbox
                                            1287 \cmdmthoargfun{rch}[\cmdmthoargfun]
                    \liftFun
                                            1288 \newcommand{\liftfun}{lift}
                                           1289 \cmdmthoargfun{lift}[\liftfun]
                       \solFun
                                            1290 \newcommand{\solfun}{sol}
                                            1291 \cmdmthoargfun{sol}[\solfun]
```

```
\BG, ... ...
             1293 %% Buchi Games
             1294 \cmdtxtoparname{BG}
             1296 %% Co-Buchi Games
             1297 \cmdtxtoparname{CG}
             1298
             1299 %% Parity Games
             1300 \cmdtxtoparname{PG}
             1301
             1302 %% Rabin Games
             1303 \cmdtxtoparname{RG}
             1305 %% Streett Games
             1306 \cmdtxtoparname{SG}
             1307
             1308 %% Muller Games
             1309 \cmdtxtoparname{MG}
             \EvnSym, \OddSym
             1311 \newcommand{\evnsym}{0}
             1312 \cmdmthsym{Evn} [\evnsym]
             1313 \neq 1313 
             1314 \cmdmthsym{Odd}[\oddsym]
\PrtSet, \prtFun ...
             1315 \newcommand{\prtsym}{p}
             1316 \newcommand{\prtset}{Pr}
             1317 \cmdmthsetext{Prt} [\prtset] [\prtsym]
             1318 \cmdmthfun{prt}[pr]
             \EG, ... ...
             1321 %% Energy Games
             1322 \cmdtxtoparname{EG}
             1324 %% Mean-Payoff Games
             1325 \cmdtxtoparname{MPG}
             1326
             1327 %% Discounted-Payoff Games
             1328 \cmdtxtoparname{DPG}
             \MaxSym, \MinSym
             1330 \newcommand{\maxsym}{\oplus}
             1331 \cmdmthsym{Max}[\maxsym]
             1332 \newcommand{\minsym}{\boxminus}
             1333 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun
             1334 \newcommand{\wghsym}{w}
             1335 \newcommand{\wghset}{Wg}
             1336 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
             1337 \cmdmthfun{wgh} [wg]
```

```
1339 \fi
            1344 \iflog@
            \BF, \QBF, ... ...
            1346 % Boolean Formulae
            1347 \cmdtxtoparname{BF}
            1348
            1349 % Quantified Boolean Formulae
            1350 \DeclareRobustCommand{\QBF}
                {\{\text{txtname}\{Q\}\}\setminus BF\}}
            1352 \DeclareRobustCommand{\EBF}
            1353 {\ensuremath{\exists}\BF}
            1354 \DeclareRobustCommand{\UBF}
            1355 {\ensuremath{\forall}\BF}
            \LogSig, ... ...
            1357 \newcommand{\lceil \log sig \rceil}{L}
            1358 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
    \Tt, \Ff ...
            1359 \mbox{ \newcommand{\ttsym}{\top}}
            1360 \usrmth{Tt}{}{sym}[\ttsym]
            1361 \mbox{ \newcommand{\ffsym}{\bot}}
            1362 \verb|\usrmth{Ff}{{sym}[\ffsym]}|
 \LNeg, \LNot ...
            1363 \newcommand{\lnegsym}{\neg}
            1364 \usrmth{LNeg}{}{luop}[\lnegsym]
            1365 \newcommand{\lnotsym}{\sim}
            1366 \usrmth{LNot}{}{luop}[\lnotsym]
 \LCon, \LDis ...
            1367 \mbox{\command{\lconsym}{\land}}
            1368 \usrmth{LCon}{}{lbop}[\lconsym]
            1369 \newcommand{\ldissym}{\lor}
            1370 \usrmth{LDis}{}{lbop}[\ldissym]
 \LImp, \LCoi ...
            1371 \mbox{\limpsym}{\mbox{\limpsym}}
            1372 \usrmth{LImp}{}{lbop}[\limpsym]
            1373 \newcommand{\lcoisym}{\leftrightarrow}
            1374 \usrmth{LCoi}{}{lbop}[\lcoisym]
 \LExs, \LAll ...
            1375 \newcommand{\lexssym}{\exists}
            1376 \usrmth{LExs}{}{luop}[\lexssym]
            1377 \newcommand{\lallsym}{\forall}
            1378 \usrmth{LAll}{}{luop}[\lallsym]
  \APSet, ... ...
            1379 \newcommand{\apsym}{p}
            1380 \newcommand{\apset}{AP}
            1381 \cmdmthsetext{AP}[\apset][\apsym]
```

1382 \cmdmthfun{ap}\usrmth{ap}{}{argfun}

```
\sub ...
               1383 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
               1384 \usrmth{Cnt}{}{sym}[C]
               1385 \usrmth{Qnt}{}{sym}[Q]
               1386 \usrmth{Sym}{}{sym}[\odot]
     \QAE, \QEA ...
               1387 \usrmth{QAE}{}{sym}[\forall\exists]
               1388 \usrmth{QEA}{}{sym}[\exists\forall]
   \QntSet, ... ...
               1389 \newcommand{\qntsym}{\wp}
               1390 \newcommand{\qntset}{Qn}
               1391 \cmdmthsetext{Qnt}[\qntset][\qntsym]
  \free, \bound
               1392 \usrmth{free}{}{argfun}
               1393 \usrmth{bound}{}{argfun}
     \dep, \alt ...
               1394 \usrmth{dep}{\argfun}
               1395 \usrmth{alt}{}{argfun}
\cnf, \dnf, ... ...
               1396 \cmdtxtabr{cnf}
               1397 \cmdtxtabr{dnf}
               1398 \cmdtxtabr{pnf}
               1399 \cmdtxtabr{nnf}
               \LogStr, ... ...
               1401 \newcommand{\logstr}{L}
               1402 \usrmthlatupp{Log}{Str}{str}[\logstr]
   \ValSet, ... ...
               1403 \newcommand{\valsym}{\xi}
               1404 \newcommand{\valset}{Val}
               1405 \cmdmthsetext{Val}[\valset][\valsym]
   \AsgSet, ... ...
               1406 \mbox{ \newcommand{\asgsym}{\chi}}
               1407 \newcommand{\asgset}{Asg}
               1408 \cmdmthsetext{Asg}[\asgset][\asgsym]
               \FOL, ... ...
               1410 % First-Order Logic
               1411 \cmdtxtoparname{FOL}[Fol]
               1412 \cmdtxtoparname{F0}[F0]
               1413
               1414 % Monadic First-Order Logic
               1415 \DeclareRobustCommand{\MFOL}
                   {{\txtname{M}}\FOL}
               1417 \DeclareRobustCommand{\MFO}
                    \{\{\text{txtname}\{M\}\}\F0\}
```

```
\VarSig, ... ...
                                                                                  1420 \newcommand{\varsig}{V}
                                                                                   1421 \verb|\usrmth|| a tupp{Var}{Sig}{sig}[\varsig]
                                                                                  1422 \mbox{ } \mbox
                                                                                   1423 \newcommand{\varset}{Vr}
                                                                                   1424 \cmdmthsetext{Var}[\varset][\varsym]
                                                                                   1425 \usrmth{var}{}{argfun}[vr]
                                                                                   1426 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
\ConSig, ... ...
                                                                                  1427 \rightarrow \{1427 \}
                                                                                  1428 \usrmthlatupp{Con}{Sig}{sig}[\consig]
                                                                                   1429 \rightarrow \{c\}
                                                                                   1430 \mbox{ } \mbox{conset}{Cn}
                                                                                    1431 \cmdmthsetext{Con}[\conset][\consym]
                                                                                   1432 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
                                                                                  1433 \newcommand{\funsig}{F}
                                                                                  1434 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                                                                                   1435 \mbox{ } \mbox{newcommand{\hrunsym}{f}}
                                                                                    1436 \mbox{ } \mbox{newcommand{\funset}{Fn}}
                                                                                    1437 \cmdmthsetext{Fun}[\funset][\funsym]
                                                                                    1438 \usrmth{fun}{}{argfun}[fn]
                                                                                    1439 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
                                                                                  1440 \mbox{ } \mbox
                                                                                   1441 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
                                                                                   1442 \mbox{ newcommand{\tersym}{t}}
                                                                                    1443 \newcommand{\terset}{Tr}
                                                                                    1444 \verb|\cmdmthsetext{Ter}| [\verb|\terset|]| [\verb|\tersym|]|
                                                                                   1445 \usrmth{ter}{}{argfun}
\RelSig, ... ...
                                                                                  1446 \newcommand{\relsig}{R}
                                                                                   1447 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                                                                                   1448 \mbox{ } \mbox{newcommand{\relsym}{r}}
                                                                                    1449 \mbox{ } \mbox{newcommand{\relset}{R1}}
                                                                                    1450 \cmdmthsetext{Rel}[\relset][\relsym]
                                                                                    1451 \usrmth{rel}{}{argfun}[rl]
                                                \skm ...
                                                                                    1452 \mbox{ } \{skm}{} {argfun}
                                                                                   \ConStr, ... ...
                                                                                   1454 \mbox{ } \mbox{constr}{C}
                                                                                   1455 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr, ... ...
                                                                                  1456 \mbox{ } \mbox
                                                                                  1457 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr, ... ...
                                                                                  1458 \mbox{ } \mbox
                                                                                   1459 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
                                                                                    1460 \mbox{ } \mbox{newcommand{\relstr}{R}}
                                                                                    1461 \usrmthlatupp{Rel}{Str}{str}[\relstr]
```

```
\DF, \IF, ... ...
             1463 % Dependence-Friendly Logic
             1464 \cmdtxtoparname{DF}
             1465
             1466 % Independence-Friendly Logic
             1467 \cmdtxtoparname{IF}
             1469 % Dependence/Independence-Friendly Logic
             1470 \cmdtxtoparname{DIF}
             1472 % Dependence Logic
             1473 \cmdtxtoparname{DL}
             1475 % Team Logic
             1476 \cmdtxtoparname{TL}
             1478 % Alternating Dependence-Friendly Logic
             1479 \verb|\cmdtxtoparname{ADF}|
             1481\ \% Alternating Independence-Friendly Logic
             1482 \verb|\cmdtxtoparname{AIF}|
             1484 % Alternating Dependence/Independence-Friendly Logic
             1485 \cmdtxtoparname{ADIF}
             \LEExs, \LAA11
             1487 \mbox{ \newcommand{\leexssym}{\Sigma}}
             1488 \usrmth{LEExs}{}{luop}[\leexssym]
             1489 \newcommand{\laallsym}{\Pi}
             1490 \usrmth{LAA11}{}{luop}[\laallsym]
             \SOL, ...
             1493 % Second-Order Logic
             1494 \cmdtxtoparname{SOL}[Sol]
             1495 \cmdtxtoparname{SO}
             1496
             1497 % Weak Second-Order Logic
             1498 \DeclareRobustCommand{\WSOL}
                  {{\txtname{W}}\SOL}
             1500 \DeclareRobustCommand{\WSO}
             1501
                 {{\txtname{W}}\SO}
             1502
             1503 % coWeak Second-Order Logic
             1504 \DeclareRobustCommand{\coWSOL}
                 {{\txtname{coW}}\SOL}
             1506 \DeclareRobustCommand{\coWSO}
                 {{\txtname{coW}}\SO}
             1507
             1509 % Monadic Second-Order Logic
             1510 \DeclareRobustCommand{\MSOL}
                 {{\txtname{M}}\SOL}
             1512 \DeclareRobustCommand{\MSO}
             1513 {{\txtname{M}}\SO}
```

```
1515 % Weak Monadic Second-Order Logic
             1516 \DeclareRobustCommand{\WMSOL}
             1517 {{\txtname{W}}\MSOL}
             1518 \DeclareRobustCommand{\WMSO}
                  {{\txtname{W}}\MSO}
             1519
             1520
             1521 % coWeak Monadic Second-Order Logic
             1522 \DeclareRobustCommand{\coWMSOL}
                 {{\txtname{coW}}\MSOL}
             1524 \DeclareRobustCommand{\coWMSO}
                 {{\txtname{coW}}\MSO}
             \FVarSet, ... ...
             1527 \newcommand{\fvarsym}{x}
             1528 \newcommand{\fvarset}{FVr}
             1529 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
             1530 \newcommand{\svarsym}{X}
             1531 \newcommand{\svarset}{SVr}
             1532 \cmdmthsetext{SVar}[\svarset][\svarsym]
             \TL, \PL, ...
             1535 % Tree Logic
             1536 \cmdtxtoparname{TL}
             1538 % Weak Tree Logic
             1539 \DeclareRobustCommand{\WTL}
             1540
                  {\{\text{txtname}\{W\}}\TL\}
             1541
             1542 % coWeak Tree Logic
             1543 \DeclareRobustCommand{\coWTL}
             1544
                  {{\txtname{coW}}\TL}
             1546 % Monadic Tree Logic
             1547 \DeclareRobustCommand{\MTL}
                  {\{\text{txtname}\{M\}}\
             1548
             1549
             1550 \% Weak Monadic Tree Logic
             1551 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1552
             1553
             1554 % coWeak Monadic Tree Logic
             1555 \DeclareRobustCommand{\coWMTL}
                  {{\txtname{coW}}\MTL}
             1557
             1558 % Path Logic
             1559 \cmdtxtoparname{PL}
             1560
             1561 % Weak Path Logic
             1562 \DeclareRobustCommand{\WPL}
             1563
                  {\{\text{txtname}\{W\}}\PL\}
             1565 % coWeak Path Logic
             1566 \DeclareRobustCommand{\coWPL}
             1567 \{\{\text{txtname}\{\text{coW}\}\}\}
```

```
1568
                                1569 % Monadic Path Logic
                                1570 \DeclareRobustCommand{\MPL}
                                           {\{\text{Ntxtname}\{M\}}\PL\}
                                1572
                                1573 % Weak Monadic Path Logic
                                1574 \DeclareRobustCommand{\WMPL}
                                            {{\txtname{W}}\MPL}
                                1576
                                1577 % coWeak Monadic Path Logic
                                1578 \DeclareRobustCommand{\coWMPL}
                                           {\{\text{txtname}\{\text{coW}\}\}\}}
                                \ML, \GML, ... ...
                                1583 % Modal Logic
                                1584 \cmdtxtoparname{ML}
                                1586 % Graded Modal Logic
                                1587 \DeclareRobustCommand{\GML}
                                           {\{\text{txtname}\{G\}\}\setminus ML\}}
                                1590 % Quantified Modal Logic
                                1591 \DeclareRobustCommand{\QML}
                                1592 \quad \{\{\text{txtname}\{Q\}\}\}\}
                                1593 \verb|\DeclareRobustCommand{\EML}|
                                1594 {\ensuremath{\exists}\ML}
                                1595 \DeclareRobustCommand{\UML}
                                1596 {\ensuremath{\forall}\ML}
                                \Opr ...
                                1598 \usrmth{Opr}{}{sym}[Op]
    \DMod, \BMod ...
                                1599 \usrmth{DMod}{}{sym}[\Diamond]
                                1600 \usrmth{BMod}{}{sym}[\Box]
        \Exs, \All ...
                                1601 \DeclareRobustCommand{\Exs}
                                1602 {\@ifstar{\@sexs}{\@exs}}
                                1603 \DeclareRobustCommand{\@sexs}[1]
                                           {\mth{\DMod}[#1]}
                                1605 \DeclareRobustCommand{\@exs}[1]
                                           {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}{\DMod}}}
                                1607 \verb|\DeclareRobustCommand{\All}|
                                           {\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}^{\c}_{\c}
                                1609 \DeclareRobustCommand{\@sall}[1]
                                1610 {\mth{\BMod}[#1]}
                                1611 \verb|\DeclareRobustCommand{@all}[1]
                                1612 \quad {\bf \{\defval{\argmid{\left[}{\#1}{\left[}{\#1}}{\BMod}}\}}
                                \KrpStr, ... ...
                                1614 \newcommand{\krpstr}{K}
                                1615 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
```

```
\WrlSet, ... ...
               1616 \newcommand{\wrlsym}{w}
               1617 \newcommand{\wrlset}{W}
               1618 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
               1619 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel
               1620 \mbox{ } \mbox{newcommand{\accsym}{R}}
               1621 \cmdmthrel{Acc}[\accsym]
               1622 \cmdmthrel{Trn}[\accsym]
       \labFun
               1623 \newcommand{\labsym}{\lambda}
               1624 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun
               1625 \providecommand{\phithsym}{\phii}
               1626 \providecommand{\phithset}{Pth}
               1627 \cmdmthsetext{Pth} [\pthset] [\pthsym]
               1628 \cmdmthfun{pth}
               \MC, \GMC, ...
               1630 % Mu Calculus
               1631 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
               1633 % Graded Mu Calculus
               1634 \DeclareRobustCommand{\GMC}
               1635
                    {{\txtname{G}}\MC}
               1636
               1637 % Quantified Mu Calculus
               1638 \DeclareRobustCommand{\QMC}
                   {\{\text{txtname}\{Q\}\}\setminus MC\}}
               1640 \DeclareRobustCommand{\EMC}
                   {\ensuremath{\exists}\MC}
               1642 \DeclareRobustCommand{\UMC}
                   {\ensuremath{\forall}\MC}
               1643
               1644
               1645 % Alternation-Free Mu Calculus
               1646 \DeclareRobustCommand{\AFMC}
               1647
                    {{\txtname{AF}}\MC}
               1648
               1649 % Alternation-Free Graded Mu Calculus
               1650 \DeclareRobustCommand{\AFGMC}
               1651
                    {{\txtname{AF}}\GMC}
               1652
               1653 % Quantified Alternation-Free Mu Calculus
               1654 \DeclareRobustCommand{\QAFMC}
                    {{\txtname{Q}}\AFMC}
               1656 \DeclareRobustCommand{\EAFMC}
                    {\ensuremath{\exists}\AFMC}
               1658 \DeclareRobustCommand{\UAFMC}
                    {\ensuremath{\forall}\AFMC}
               1659
               1660
```

```
\PTL, \LTL, ... ...
                                   1664 % Propositional Temporal Logic
                                   1665 \cmdtxtoparname{PTL}
                                   1667 % Quantified Propositional Temporal Logic
                                   1668 \verb|\DeclareRobustCommand{QPTL}|
                                             {\{\text{txtname}\{Q\}}\
                                   1670 \DeclareRobustCommand{\EPTL}
                                              {\ensuremath{\exists}\PTL}
                                   1672 \DeclareRobustCommand{\UPTL}
                                               {\ensuremath{\forall}\PTL}
                                   1675 % Linear Temporal Logic
                                   1676 \cmdtxtoparname{LTL}
                                   1678\ \% Quantified Linear Temporal Logic
                                   1679 \DeclareRobustCommand{\QLTL}
                                   1680 \{\{\text{txtname}\{Q\}\}\}\
                                   1681 \DeclareRobustCommand{\ELTL}
                                   1682 {\ensuremath{\exists}\LTL}
                                   1683 \DeclareRobustCommand{\ULTL}
                                   1684 {\ensuremath{\forall}\LTL}
                                   \X, ... ...
                                   1686 \usrmth{X}{}{sym}[X\,]
                                   1687 \usrmth{F}{}{sym}[F\,]
                                   1688 \usrmth{G}{}{sym}[G\,]
                                   1689 \usrmth{U}{sym}[\,U\,]
                                   1690 \usrmth{R}{}{sym}[\,R\,]
                \Y, ... ...
                                   1691 \usrmth{Y}{}{sym}[G\,]
                                   1692 \t P}{sym}[P\,]\t SavePilcrowP
                                   1693 \verb|\usrmth{H}{{}}| flh,] \le \DoubleAcute\H
                                    1694 \t \{S}{\{sym}[\,S\,]\t Save Section Symbol \ Save Section Symbol \ Save Section Symbol \ Save Section \ Save Section \ Save \ Sav
                                   1695 \usrmth{B}{}{sym}[\,B\,]
                                   \PDL, \CTL, ... ...
                                   1699 % Propositional Dynamic Logic
                                   1700 \cmdtxtoparname{PDL}
                                   1702 % Computation Tree Logic
                                   1703 \cmdtxtoparname{CTL}
                                   1705 % Weak Computation Tree Logic
                                   1706 \DeclareRobustCommand{\WCTL}
                                              {\{\text{Xtname}(W)\}\CTL}
                                   1707
                                   1709 % Quantified Computation Tree Logic
                                   1710 \DeclareRobustCommand{\QCTL}
                                               {{\txtname{Q}}\CTL}
                                   1711
                                   1712 \DeclareRobustCommand{\ECTL}
                                   1713 {\ensuremath{\exists}\CTL}
                                   1714 \DeclareRobustCommand{\UCTL}
                                   1715 {\ensuremath{\forall}\CTL}
```

```
1717 % Improved Computation Tree Logic
          1718 \cmdtxtoparname{CTLP}[CTL$^{+}$]
          1720 % Weak Improved Computation Tree Logic
         1721 \DeclareRobustCommand{\WCTLP}
          1722 \{\{\text{txtname}\{W\}\}\}\
         1724 % Quantified Improved Computation Tree Logic
         1725 \DeclareRobustCommand{\QCTLP}
              {\{\text{txtname}\{Q\}\}\CTLP\}}
          1727 \DeclareRobustCommand{\ECTLP}
               {\ensuremath{\exists}\CTLP}
          1729 \DeclareRobustCommand{\UCTLP}
              {\ensuremath{\forall}\CTLP}
          1730
          1732 % Full Computation Tree Logic
          1733 \cmdtxtoparname{CTLS}[CTL*]
          1734
          1735 % Weak Full Computation Tree Logic
          1736 \DeclareRobustCommand{\WCTLS}
               {{\txtname{W}}\CTLS}
          1738
         1739 % Quantified Full Computation Tree Logic
         1740 \DeclareRobustCommand{\QCTLS}
              {{\txtname{Q}}\CTLS}
         1742 \DeclareRobustCommand{\ECTLS}
         1743 {\ensuremath{\exists}\CTLS}
          1744 \DeclareRobustCommand{\UCTLS}
              {\ensuremath{\forall}\CTLS}
          \E, \A ...
          1747 \operatorname{LSYm}
          1748 \usrmth{A}{}{sym}
          \ATL, ...
         1751 % Alternating Temporal Logic
         1752 \cmdtxtoparname{ATL}
         1753
         1754\,\% Weak Alternating Tree Logic
         1755 \DeclareRobustCommand{\WATL}
         1756
               {{\txtname{W}}\ATL}
         1757
          1758 % Quantified Alternating Temporal Logic
          1759 \DeclareRobustCommand{\QATL}
               {\{\text{txtname}\{Q\}\}\setminus ATL\}}
          1761 \DeclareRobustCommand{\EATL}
              {\ensuremath{\exists}\ATL}
          1763 \DeclareRobustCommand{\UATL}
               {\ensuremath{\forall}\ATL}
          1764
          1765
          1766 % Improved Alternating Temporal Logic
          1767 \cmdtxtoparname{ATLP}[ATL$^{+}$]
          1769 % Weak Improved Alternating Tree Logic
          1770 \DeclareRobustCommand{\WATLP}
              {\{\text{txtname}\{W\}}\ATLP\}
```

```
1773 % Quantified Improved Alternating Temporal Logic
             1774 \DeclareRobustCommand{\QATLP}
             1775 \{\{\text{txtname}\{Q\}\}\setminus ATLP\}
             1776 \DeclareRobustCommand{\EATLP}
             1777 {\ensuremath{\exists}\ATLP}
             1778 \DeclareRobustCommand{\UATLP}
                  {\ensuremath{\forall}\ATLP}
             1780
             1781 % Full Alternating Temporal Logic
             1782 \cmdtxtoparname{ATLS}[ATL*]
             1784 % Weak Full Alternating Tree Logic
             1785 \DeclareRobustCommand{\WATLS}
             1786
                  {{\txtname{W}}\ATLS}
             1788 % Quantified Full Alternating Temporal Logic
             1789 \DeclareRobustCommand{\QATLS}
                  {{\txtname{Q}}\ATLS}
             1791 \DeclareRobustCommand{\EATLS}
             1792 {\ensuremath{\exists}\ATLS}
             1793 \DeclareRobustCommand{\UATLS}
             1794 {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
             1796 \DeclareRobustCommand{\EExs}[1]
             1797 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}{\rangle\!\rangle}}}
             1798 \DeclareRobustCommand{\AAll}[1]
                  {\mth{\argmid{\left[\left[}{\defval{#1}{\emptyset}}{\right]\right]}}}
             \CGS ...
             1801 \cmdtxtname{CGS}
\CGSStr, ...
             1802 \mbox{ \newcommand{\cgsstr}{G}}
             1803 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1804 \newcommand{\agnsym}{a}
             1805 \newcommand{\agnset}{Ag}
             1806 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
             1807 \providecommand{\possym}{v}
             1808 \providecommand{\posset}{Ps}
             1809 \cmdmthsetext{Pos}[\posset][\possym]
             1810 \cmdmthsymelm{ipos}[\possym_{I}]
             1811 \cmdmthsymelm{fpos}[\possym_{F}]
             1812 \cmdmthset{PPos} [\posset_{\PlrSym}]
             1813 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
             1814 \cmdmthset{OPos} [\posset_{\OppSym}]
             1815 \cmdmthsymelm{opos}[\possym_{\OppSym}]
\SttSet, ...
             1816 \newcommand{\sttsym}{s}
             1817 \newcommand{\sttset}{St}
             1818 \cmdmthsetext{Stt}[\sttset][\sttsym]
             1819 \cmdmthset{IStt}[\sttset_{I}]
             1820 \cmdmthsymelm{istt}[\sttsym_{I}]
             1821 \cmdmthset{FStt}[\sttset_{F}]
             1822 \cmdmthsymelm{fstt}[\sttsym_{F}]
```

```
\ActSet, ... ...
                  1823 \neq \{c\}
                  1824 \mbox{ }\mbox{\command{\actset}{Ac}}
                  1825 \cmdmthsetext{Act}[\actset][\actsym]
    \DecSet, ... ...
                  1826 \mbox{ \newcommand{\decsym}{d}}
                  1827 \mbox{ \newcommand{\decset}{Dc}}
                  1828 \cmdmthsetext{Dec}[\decset][\decsym]
         \mbox{movFun}
                   1829 \newcommand{\movsym}{\tau}
                  1830 \cmdmthfun{mov}[\movsym]
    \HstSet, ...
                  1831 \providecommand{\hstsym}{\rho}
                   1832 \providecommand{\hstset}{Hst}
                   1833 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1834 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1835 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1836 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1837 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                   1838 \cmdmthfun{hst}
\PlaySet,\playFun
                   1839 \displaystyle \frac{\pi}{\pi}{\pi}
                   1840 \providecommand{\playset}{Play}
                   1841 \cmdmthsetext{Play}[\playset][\playsym]
                   1842 \mbox{cmdmthfun{play}}
    \StrSet, ...
                  1843 \providecommand{\strsym}{\sigma}
                   1844 \providecommand{\strset}{Str}
                   1845 \cmdmthsetext{Str}[\strset][\strsym]
                   1846 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1847 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1848 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1849 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
\PrfSet, \prfFun
                   1850 \providecommand{\prfsym}{\xi}
                   1851 \providecommand{\prfset}{Prf}
                   1852 \cmdmthsetext{Prf}[\prfset][\prfsym]
                   \SL, ... ...
                  1854 % Strategy Logic
                  1855 \cmdtxtoparname{SL}
                   1856
                   1857 \DeclareRobustCommand{\ESL}
                        {\ensuremath{\exists}\SL}
                   1859 \DeclareRobustCommand{\USL}
                   1860
                        {\ensuremath{\forall}\SL}
                   1861
                   1862 \DeclareRobustCommand{\FSL}
                        {\{\text{txtname}\{F\}\}\SL\}}
                   1863
                   1864
                   1865 \DeclareRobustCommand{\EFSL}
                        {\ensuremath{\exists}\FSL}
                   1867 \DeclareRobustCommand{\UFSL}
                        {\ensuremath{\forall}\FSL}
                   1869
```

```
1870 % One-Goal Strategy Logic
1871 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][1g\arglef{,}{#3}]}
1873
1874 \DeclareRobustCommand{\EOGSL}
      {\ensuremath{\exists}\OGSL}
1875
1876 \DeclareRobustCommand{\UOGSL}
      {\ensuremath{\forall}\OGSL}
1877
1878
1879 \DeclareRobustCommand{\FOGSL}
      {{\txtname{F}}\OGSL}
1882 \DeclareRobustCommand{\EFOGSL}
      {\ensuremath{\exists}\FOGSL}
1884 \DeclareRobustCommand{\UFOGSL}
      {\ensuremath{\forall}\FOGSL}
1885
1886
1887 % Conjunctive-Goal Strategy Logic
1888 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][cg\arglef{,}{#3}]}
1890
1891 \DeclareRobustCommand{\ECGSL}
      {\ensuremath{\exists}\CGSL}
1893 \DeclareRobustCommand{\UCGSL}
      {\ensuremath{\forall}\CGSL}
1894
1895
1896 \DeclareRobustCommand{\FCGSL}
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1897
1898
1899 \DeclareRobustCommand{\EFCGSL}
      {\ensuremath{\exists}\FCGSL}
1901 \DeclareRobustCommand{\UFCGSL}
1902
      {\ensuremath{\forall}\FCGSL}
1904\ \% Disjunctive-Goal Strategy Logic
1905 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
1906
1907
1908 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
1910 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
1913 \DeclareRobustCommand{\FDGSL}
1914
     {\{\text{txtname}\{F\}\}\setminus xGSL\}}
1915
1916 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
1918 \DeclareRobustCommand{\UFDGSL}
      {\ensuremath{\forall}\FDGSL}
1919
1921 % Alternating-Goal Strategy Logic
1922 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1924
1925 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
1927 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
1928
1929
1930 \DeclareRobustCommand{\FAGSL}
      {\{\text{xtname}\{F\}\}\xgsl}
1931
1932
```

```
1933 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
1935 \DeclareRobustCommand{\UFAGSL}
1936
     {\ensuremath{\forall}\FAGSL}
1937
1938 % Extended-Goal Strategy Logic
1939 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1941
1942 \DeclareRobustCommand{\EEGSL}
      {\ensuremath{\exists}\EGSL}
1944 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
1946
1947 \DeclareRobustCommand{\FEGSL}
      {\{\text{xtname}\{F\}\}\}\}
1948
1949
1950 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
1952 \DeclareRobustCommand{\UFEGSL}
      {\ensuremath{\forall}\FEGSL}
1955 % Boolean-Goal Strategy Logic
1956 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][bg\arglef{,}{#3}]}
1957
1958
1959 \DeclareRobustCommand{\EBGSL}
      {\ensuremath{\exists}\BGSL}
1960
1961 \DeclareRobustCommand{\UBGSL}
      {\ensuremath{\forall}\BGSL}
1963
1964 \DeclareRobustCommand{\FBGSL}
1965
      {\{\text{xtname}\{F\}\}\times GSL\}}
1966
1967 \verb|\DeclareRobustCommand{\EFBGSL}|
      {\ensuremath{\exists}\FBGSL}
1969 \DeclareRobustCommand{\UFBGSL}
     {\ensuremath{\forall}\FBGSL}
1970
1971
1972 % Nested-Goal Strategy Logic
1973 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ng\arglef{,}{#3}]}
1976 \DeclareRobustCommand{\ENGSL}
     {\ensuremath{\exists}\NGSL}
1978 \DeclareRobustCommand{\UNGSL}
1979
      {\ensuremath{\forall}\NGSL}
1980
1981 \DeclareRobustCommand{\FNGSL}
     {\{\text{txtname}\{F\}\}\setminus xGSL\}}
1982
1983
1984 \DeclareRobustCommand{\EFNGSL}
      {\ensuremath{\exists}\FNGSL}
1986 \DeclareRobustCommand{\UFNGSL}
1987
      {\ensuremath{\forall}\FNGSL}
1988
1989 % Undefined-Goal Strategy Logic
1990 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][xg\arglef{,}{#3}]}
1991
1992
1993 \DeclareRobustCommand{\EXGSL}
     {\ensuremath{\exists}\XGSL}
1995 \DeclareRobustCommand{\UXGSL}
```

```
{\ensuremath{\forall}\XGSL}
                                                                            1996
                                                                            1997
                                                                           1998 \DeclareRobustCommand{\FXGSL}
                                                                           1999
                                                                                                       {\{\text{xtname}\{F\}\}\times GSL\}}
                                                                          2000
                                                                          2001 \DeclareRobustCommand{\EFXGSL}
                                                                           2002 {\ensuremath{\exists}\FXGSL}
                                                                           2003 \DeclareRobustCommand{\UFXGSL}
                                                                                                     {\ensuremath{\forall}\FXGSL}
                                                                          \BndSet, ...
                                                                          2006 \newcommand{\bndsym}{\flat}
                                                                           2007 \mbox{ \newcommand{\bndset}{Bn}}
                                                                          2008 \cmdmthsetext{Bnd}[\bndset][\bndsym]
                                                                          2009 \usrmth{bnd}{}{argfun}
                                            \psn ...
                                                                          2010 \usrmth{psn}{}{argfun}
                                                                           \nxtFun ...
                                                                           2012 \newcommand{\nxtfun}{nxt}
                                                                           2013 \cmdmthfun{nxt} [\nxtfun]
                                                                           2014 \fi
                                                                           2019 \ifaut@
                                                                           \DFA, ... ...
                                                                           2021 \verb|\cmdtxtoparname{DFA}\cmdtxtoparname{UFA}\cmdtxtoparname{AFA}|
                                                                           2023 \cmdtxtoparname{DWA}\cmdtxtoparname{AWA}
                                                                           2025 \verb|\cmdtxtoparname{DFW}| cmdtxtoparname{UFW}| cmdtxtoparname{AFW}| cmdtxtoparname{AFW}|
                                                                           2026 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}
                                                                           2027 \verb|\cmdtxtoparname{NBW}\cmdtxtoparname{WBW}\cmdtxtoparname{ABW}| $$
                                                                           2028 \verb|\cmdtxtoparname{NCW}| cmdtxtoparname{UCW}| cmdtxtoparname{ACW}| cmdtxtoparname{ACW}|
                                                                           {\tt 2029 \cmdtxtoparname\{DPW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{APW\}\cmdtxtoparname\{
                                                                           2030 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{MRW}| cmdtxtoparname{ARW}| 
                                                                           2031 \cmdtxtoparname{DSW}\cmdtxtoparname{ASW}
                                                                          2032 \verb|\cmdtxtoparname{NMW}| cmdtxtoparname{UMW}| cmdtxtoparname{AMW}| cmdtxtoparname{AMW}|
                    \GFG, ... ...
                                                                          2033 \cmdtxtoparname{GFG}
                                                                          2035 \cmdtxtoparname{PD}
                                                                           2036 \cmdtxtoparname{PN}
                                                                           2038 \cmdtxtoparname{LD}
                                                                           2039 \cmdtxtoparname{LN}
                                                                          \AutName, ... ...
                                                                           2041 \newcommand{\autname}{A}
                                                                           2042 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                                           2043 \newcommand{\autset}{Aut}
                                                                           2044 \cmdmthset{Aut}[\autset]
```

```
\WAutSet ...
                                                                           2045 \newcommand{\wautset}{WAut}
                                                                           2046 \verb|\cmdmthset{WAut}[\wautset]|
    \SttSet, ...
                                                                           2047 \def\sttsym{q}
                                                                           2048 \def\sttset{Q}
                                                                           2049 \mbox{ cmdmthsetext{Stt}[\sttset][\sttsym]}
                                                                            2050 \mbox{cmdmthset{IStt}[\sttset_{I}]}
                                                                            2051 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                                            2052 \cmdmthset{FStt}[\sttset_{F}]
                                                                            2053 \mbox{ \cmdmthsymelm{fstt}[\sttsym_{F}]}
    \SymSet, ... ...
                                                                           2054 \mbox{ \newcommand{\symsym}{\sigma}}
                                                                            2055 \mbox{ \newcommand{\symset}{\Sigma}}
                                                                            2056 \cmdmthsetext{Sym}[\symset][\symsym]
                             \trnFun ...
                                                                            2057 \newcommand{\trnsym}{\delta}
                                                                            2058 \cmdmthfun{trn}[\trnsym]
                                                                            \LangFun ...
                                                                            2060 \mbox{newcommand{\langfun}{L}}
                                                                            2061 \cmdmthfun{Lang}[\langfun]
    \WrdSet, ... ...
                                                                           2062 \newcommand{\wrdsym}{w}
                                                                           2063 \mbox{newcommand{\wrdset}{Wr}}
                                                                            2064 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                                                                           \DTA, ... ...
                                                                           {\tt 2066 \cmdtxtoparname\{DTA\}\backslash cmdtxtoparname\{ATA\}\backslash cmdtxtoparname\{ATA\}
                                                                            2068 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                                                                            2069 \verb|\cmdtxtoparname{DWT}\cmdtxtoparname{AWT}| cmdtxtoparname{AWT}| 
                                                                            2070 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                                                                           2071 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                                                                           2072 \verb|\cmdtxtoparname{UPT}\cmdtxtoparname{MPT}| \\
                                                                            2073 \verb|\cmdtxtoparname{LRT}| cmdtxtoparname{LRT}| cmdtxtoparname{LRT}|
                                                                            2074 \verb|\cmdtxtoparname{UST}\cmdtxtoparname{AST}| and the constraints of the constraints
                                                                            2075 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}\cmdtxtoparname{MMT}|
                                                                            \TAutSet ...
                                                                           2077 \newcommand{\tautset}{TAut}
                                                                           2078 \cmdmthset{TAut}[\tautset]
    \DirSet, ... ...
                                                                           2079 \mbox{ \newcommand{\dirsym}{d}}
                                                                            2080 \newcommand{\dirset}{\Lambda}
                                                                            2081 \cmdmthsetext{Dir}[\dirset][\dirsym]
                                                                            \TreeSet, ... ...
                                                                           2083 \newcommand{\treesym}{T}
                                                                            2084 \mbox{ }\mbox{"lewcommand{\treeset}{Tr}}
                                                                            2085 \cmdmthsetext{Tree}[\treeset][\treesym]
```

```
\wotFun ...
    2086 \mbox{ } \mbox{wotfun} \mbox{wot}
    2087 \cmdmthfun{wot} [\wotfun]
    2088 \fi
    2093 \iffrm@
    2094 %%...
    2095 \fi
    2100 \iffig@
    2101 \RequirePackage{tikz}
    2102 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}
    2103 \tikzstyle{every node} =
    2104 [draw = none, fill = none, black, thin]
    2105 \tikzstyle{every edge} +=
    2106 [black, thick]
    2107 \tikzstyle{noall} =
    2108 [draw = none, fill = none]
    2109 \tikzstyle{nodraw} =
    2110 [draw = none, fill = white]
    2111 \tikzstyle{nofill} =
    2112 [draw = black, fill = none]
    2113 \ifwrpfig@
    2114 % Wrapfig Package
    2115 \quad \verb|\RequirePackage{wrapfig}|
    2116 \fi
    2117 \fi
    2122 \iftab@
  2123 %...
    2129 \ifalg@
    2130 \RequirePackage[ruled,vlined]{algorithm2e}
    2131 \DontPrintSemicolon
    2132 \text{ } \text{SetInd} \{0.25em\} \{0.5em\}
    2133 \setlength{\algomargin}{1.25em}
\Signature
    2134 \SetKw{Signature}{signature}
```

```
\Macro, ... ...
               2135 \SetKwFor{Macro}{macro}{}}
               2136 \texttt{\SetKwFor{Function}{function}{}}{}
               2137 \verb|\SetKwFor{Procedure}{procedure}{}{} 
         \Let ...
               2138 \For{Let}{in}{}
\True, \False ...
               2139 \SetKw{True}{true}
               2140 \SetKw{False}{false}
  \From, ... ...
               2141 \SetKw{From}{from}
               2142 \text{To}{to}
               2143 \SetKw{DownTo}{downto}
   \GoTo, ... ...
               2144 \SetKw{GoTo}{goto}
               2145 \SetKw{Break}{break}
               2146 \SetKw{Continue}{continue}
   \MIf, ... ...
               2147 \texttt{MIf}{\texttt{MElseIf}{\texttt{MElse}{\texttt{wif}{\texttt{melse}{\texttt{wif}}{\texttt{welse}{\texttt{wif}}{\texttt{welse}}{\texttt{melse}}}}}
         \nlr ...
               2148 \DeclareRobustCommand{\nlr}[1]
               2149 {\addtocounter{AlgoLine}{1}%
                2150 \quad \verb|\arabic{AlgoLine}-\addtocounter{AlgoLine}{\#1}\arabic{AlgoLine}| } 
               2153 \endinput
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2 Change History

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

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\svarset 1531, 1532 \SVarSet, 1530 \svarsym 1530, 1532 \symset 2055, 2056 \SymSet, 2054	1575, 1579, 1588, 1592, 1635, 1639, 1647, 1651, 1655, 1669, 1680, 1707, 1711, 1722, 1726, 1737, 1741, 1756, 1760, 1771,	644, 646, 648, 653, 655, 657, 659, 661, 672, 674, 676, 678, 680, 685, 687, 689, 691, 693, 698, 700, 702, 704, 706, 711, 713,
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