# fmocdmac — FM's OCD LATEX Macro\*

# Fabio Mogavero fm@fabiomogavero.com

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#### Abstract

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

# 1 Implementation & Usage

 $1 \langle *package \rangle$ 

# Required external packages:

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

## Package options:

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

<sup>\*</sup>This document describes version v0.28 of the fmocdmac package, last revised 2024/01/10.

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

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

98 \newif\ifaut@ \aut@false

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

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

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

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

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

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

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

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

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

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

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

412 \DeclareRobustCommand{\newmth}

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

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

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

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

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

```
436 \DeclareRobustCommand{\newmthoarg} 

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

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

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

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

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

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

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

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

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

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

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

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

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

### \newmthparsty ... to do!

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

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

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

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

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

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

\usrmth ... to do!

```
\usrmthlet ... to do!
                              528 \DeclareRobustCommandx{\usrmthlet}[4][4=]
                              529 \{ \text{wsrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqoflet \{ \#1 \#2 \} \{ mth \#3 \} \}
                              534 \iftxtgen@
             \txtdef ... to do!
                                   ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                   ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                    \qquad \qquad \texttt{`txtpardef\{Name\}[sub][sup][Ext1]\{Par\}[Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2] 
                               535 %% Style for Definitions
                              536 \verb|\cmdtxtall{def}\\| \text{\cmand{\txtstydef}}| \text{\cmalfont\bfseries}| 
       \cmdtxtdef ... to do!
                                   • \cmdtxtdef{cmdName};
                                      \colon colon col
                                   • \cmdtxtdef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
                               537 \DeclareRobustCommandx{\cmdtxtdef}[2][2=]
                              538 {\usrtxt{#1}{}{def}[#2]}
 \verb|\cmdtxtargdef| \dots to do!
                                   • \cmdtxtargdef{cmdName};
                                      \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                   • \cmdtxtargdef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                              539 \DeclareRobustCommandx{\cmdtxtargdef}[2][2=]
                              540 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                   • \cmdtxtoargdef{cmdName};
                                      \colon = cmdName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                   \cmdtxtoargdef{cmdName}[newName];
                                      \colon = [sub][sub][arg] = newName_{sub}^{sub}(arg)
                              541 \DeclareRobustCommandx{\cmdtxtoargdef}[2][2=]
                              542 \quad \{\texttt{\usrtxt} \#1\} \{\texttt{\pargdef} \#2] \}
 \cmdtxtpardef ... to do!
                                   \cmdtxtpardef{cmdName};
                                      \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                   \cmdtxtpardef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2
                               543 \DeclareRobustCommandx{\cmdtxtpardef}[2][2=]
                                      {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                   \cmdtxtopardef{cmdName};
                                      \cmdName[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                   \cmdtxtopardef{cmdName}[newName];
                                      \verb|\cmdName[sub][sub][par]| = newName_{sub}^{sub}[par]|
                              545 \DeclareRobustCommandx{\cmdtxtopardef}[2][2=]
                              546 {\usrtxt{#1}{}{opardef}[#2]}
             \txtabr ... to do!
                     . . .
```

```
ullet \txtabr{Name} [sub] [sup] [Ext] = Name_{
m sub}^{
m sup} Ext
                                        • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{\mathrm{sub}}^{\mathrm{sup}} Ext1(Arg) Ext2
                                       • \txtparabr{Name}[sub][sup][Ext1]\{Par\}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                  547 %% Style for Abbreviations
                                  548 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
        \cmdtxtabr ... to do!
                                       • \cmdtxtabr{cmdName};
                                           \colon colon col
                                        \cmdtxtabr{cmdName} [newName];
                                           \verb|\cmdName[sub][sub][ext]| = newName_{\rm sub}^{\rm sub}ext
                                  549 \DeclareRobustCommandx{\cmdtxtabr}[2][2=]
                                          {\usrtxt{#1}{}{abr}[#2]}
  \cmdtxtargabr ... to do!
                                       • \cmdtxtargabr{cmdName};
                                           \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                        \cmdtxtargabr{cmdName} [newName];
                                           \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                                  551 \DeclareRobustCommandx{\cmdtxtargabr}[2][2=]
                                  552 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                                       • \cmdtxtoargabr{cmdName};
                                           \verb|\cmdName[sub][sub][arg]| = cmdName_{\rm sub}^{\rm sub}(arg)
                                        \cmdtxtoargabr{cmdName} [newName];
                                           \colon = newName[sub][sub][arg] = newName[sub](arg)
                                  553 \DeclareRobustCommandx{\cmdtxtoargabr}[2][2=]
                                  554 {\usrtxt{#1}{}{oargabr}[#2]}
  \cmdtxtparabr ... to do!
                                       • \cmdtxtparabr{cmdName};
                                           \cmdName[sub][sub][ext1][par][ext2] = cmdName[sub]ext1[par]ext2
                                       • \cmdtxtparabr{cmdName} [newName];
                                           \colon = [sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1[par]ext2]
                                  555 \DeclareRobustCommandx{\cmdtxtparabr}[2][2=]
                                  556 {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                                       • \cmdtxtoparabr{cmdName};
                                           \cmdName[sub][sub][par] = cmdName_{\text{sub}}^{\text{sub}}/par
                                        \cmdtxtoparabr{cmdName}[newName];
                                           \verb|\cmdName[sub][sub][par]| = newName_{\rm sub}^{\rm sub}/par|
                                  557 \DeclareRobustCommandx{\cmdtxtoparabr}[2][2=]
                                          {\usrtxt{#1}{}{oparabr}[#2]}
                                  \txtname ... to do!
                                       • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}^{\text{SUP}}_{\text{SUB}}Ext
                                       • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{SUB}^{SUP}Ext1(Arg)Ext2
                                        \bullet \ \texttt{\txtparname}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}\}[\texttt{Ext2}] = NAME^{SUP}_{SUB}EXT1[PAR]EXT2 
                                  560 %% Style for Names
                                  561 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
      \cmdtxtname ... to do!
```

```
\cmdtxtname{cmdName};
                                                                 \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                                            • \cmdtxtname{cmdName}[newName];
                                                                 562 \DeclareRobustCommandx{\cmdtxtname}[2][2=]
                                                    563 {\usrtxt{#1}{}{name}[#2]}
   \cmdtxtargname ... to do!
                                                            \cmdtxtargname{cmdName};
                                                                 \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                                            • \cmdtxtargname{cmdName}[newName];
                                                                 564 \verb|\DeclareRobustCommandx{\cmdtxtargname}[2][2=]
                                                                {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                            • \cmdtxtoargname{cmdName};
                                                                 \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                                            • \cmdtxtoargname{cmdName}[newName];
                                                                 \colon 
                                                    566 \DeclareRobustCommandx{\cmdtxtoargname}[2][2=]
                                                                 {\usrtxt{#1}{}{oargname}[#2]}
   \cmdtxtparname ... to do!
                                                            \cmdtxtparname{cmdName};
                                                                 \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                                                            • \cmdtxtparname{cmdName}[newName];
                                                                 \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\newName[sub][ext1][PAR] = NEWNAME[sub][ext1][PAR] = NEWNAME[sub][ext1][PAR] = NEWNAME[sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                                    568 \DeclareRobustCommandx{\cmdtxtparname}[2][2=]
                                                                 {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                                            \cmdtxtoparname{cmdName};
                                                                 \label{eq:cmdName} $$ \operatorname{[sub][par]} = \operatorname{CMDNAME}^{\operatorname{SUB}}_{\operatorname{SUB}}[\operatorname{PAR}] $$
                                                            • \cmdtxtoparname{cmdName}[newName];
                                                                 \cmdName[sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                                    570 \DeclareRobustCommandx{\cmdtxtoparname}[2][2=]
                                                    571 {\usrtxt{#1}{}{oparname}[#2]}
                         \txtcom ... to do!
                                                            • \t Name [sub] [sup] [Ext] = Name_{Sub}^{SUP} Ext
                                                            • \txtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                                            • \text{txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{Name}_{SUB}^{SUP} \text{Ext1}[Par] \text{Ext2}
                                                    572 %% Style for Complexities
                                                    573 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
               \cmdtxtcom ... to do!
                                                            \cmdtxtcom{cmdName};
                                                                 \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                                            • \cmdtxtcom{cmdName}[newName];
                                                                 574 \DeclareRobustCommandx{\cmdtxtcom}[2][2=]
                                                    575 {\usrtxt{#1}{}{com}[#2]}
      \cmdtxtargcom ... to do!
                                                            \cmdtxtargcom{cmdName};
                                                                 \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
```

```
\cmdtxtargcom{cmdName}[newName];
                                                                                 \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\newName|_{SUB}^{SUB} EXT1(ARG) EXT2
                                                                576 \DeclareRobustCommandx{\cmdtxtargcom}[2][2=]
                                                                                 {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                                                          • \cmdtxtoargcom{cmdName};
                                                                                 \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                                                          • \cmdtxtoargcom{cmdName}[newName];
                                                                                 \verb|\cmdName[sub][sub][arg]| = NEWNAME^{SUB}_{SUB}(ARG)
                                                                 578 \DeclareRobustCommandx{\cmdtxtoargcom}[2][2=]
                                                                                 {\usrtxt{#1}{}{oargcom}[#2]}
   \cmdtxtparcom ... to do!
                                                                          • \cmdtxtparcom{cmdName};
                                                                                 \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                                                                           • \cmdtxtparcom{cmdName} [newName];
                                                                                 \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\newName[sub][sub][ext1]{par}[ext2]
                                                                 580 \DeclareRobustCommandx{\cmdtxtparcom}[2][2=]
                                                                581 {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                                                          • \cmdtxtoparcom{cmdName};
                                                                                 \colon = CMDNAME_{SUB}^{SUB}[PAR]
                                                                           \cmdtxtoparcom{cmdName}[newName];
                                                                                 \cmdName[sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                                                 582 \DeclareRobustCommandx{\cmdtxtoparcom}[2][2=]
                                                                                {\usrtxt{#1}{}{oparcom}[#2]}
                                                                584 \fi
                                                                589 \ifmthgen@
                        \mthname ... to do!
                                                                          ullet \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                                                                           \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt
                                                                            \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ 
                                                                           590 %% Style for Names
                                                                591 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
                                             \dots \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                                                592 \seqoflatupp{Name}{mthname}
            \cmdmthname ... to do!
                                                                          • \cmdmthname{CMDNAME};
                                                                                 \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                                                           • \cmdmthname{cmdName}[NEWNAME];
                                                                                 \verb|\cmdNameName[sub][sub][ext]| = \mathcal{NEWNAME}^{sub}_{sub}ext
                                                                 593 \DeclareRobustCommandx{\cmdmthname}[2][2=]
                                                                594 {\usrmth{#1}{Name}{name}[#2]}
```

```
\cmdmthargname ... to do!
                                                    • \cmdmthargname{CMDNAME};
                                                         \CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                                                    • \cmdmthargname{cmdName}[NEWNAME];
                                                         \cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                              595 \DeclareRobustCommandx{\cmdmthargname}[2][2=]
                                                        {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                                                    • \cmdmthoargname{CMDNAME};
                                                        \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                    • \cmdmthoargname{cmdName}[NEWNAME];
                                                        \verb|\cmdNameName[sub][sub][arg]| = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                              597 \DeclareRobustCommandx{\cmdmthoargname}[2][2=]
                                                        {\usrmth{#1}{Name}{oargname}[#2]}
  \cmdmthparname ... to do!
                                                    \cmdmthparname{CMDNAME};
                                                        \verb|\CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                                    • \cmdmthparname{cmdName}[NEWNAME];
                                                        \verb|\cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                                              599 \DeclareRobustCommandx{\cmdmthparname}[2][2=]
                                                        {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                                                    • \cmdmthoparname{CMDNAME};
                                                        \CMDNAMEName[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                    • \cmdmthoparname{cmdName}[NEWNAME];
                                                        \cmdNameName[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                             601 \DeclareRobustCommandx{\cmdmthoparname}[2][2=]
                                                        {\usrmth{#1}{Name}{oparname}[#2]}
                      \mthfam ... to do!
                                                    • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N} \mathcal{A} \mathcal{M} \mathcal{E}_{sub}^{sup} Ext
                                                    • \mthargfam{NAME} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2
                                                    • \mthparfam{NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}^{sup}_{sub}Ext1 \Big[Par^{Ex^{Ex}}\Big]Ext2
                                                    603 %% Style for Families
                                             604 \mbox{ }\mbox{mthall{fam}\newcommand{\mbox{mthstyfam}}{\mbox{mathscr}}}
                           \AFam \dots to do!
                                 \ldots \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{F}, \mathscr{T}, \mathscr{V}, 
                                             605 \seqoflatupp{Fam}{mthfam}
             \cmdmthfam ... to do!
                                                    \cmdmthfam{CMDNAME};
                                                        \verb|\CMDNAMEFam[sub][sub][ext]| = \mathscr{CMDNAMEFam}[sub][sub][ext]| = \mathscr{CMDNAMEFam}[sub][sub][ext]|
                                                    • \cmdmthfam{cmdName}[NEWNAME]:
                                                        \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}^{sub}_{sub}ext
                                              606 \DeclareRobustCommandx{\cmdmthfam}[2][2=]
                                                       {\usrmth{#1}{Fam}{fam}[#2]}
     \cmdmthargfam ... to do!
```

```
\cmdmthargfam{CMDNAME};
                                                        • \cmdmthargfam{cmdName}[NEWNAME];
                                                        \label{lem:cmdNameFam} $$ \operatorname{Sub} [\operatorname{sub}] [\operatorname{sub}] [\operatorname{ext1}] = \mathcal{NEWNAME}_{sub}^{sub} ext1(arg) ext2 $$
                                            608 \DeclareRobustCommandx{\cmdmthargfam}[2][2=]
                                                      {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                                                   \cmdmthoargfam{CMDNAME};
                                                        \verb|\CMDNAMEFam[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][sub][arg]|
                                                   • \cmdmthoargfam{cmdFam}[NEWNAME];
                                                        \cmbox{cmdFamFam[sub] [sub] [arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                             610 \DeclareRobustCommandx{\cmdmthoargfam}[2][2=]
                                            611 {\usrmth{#1}{Fam}{oargfam}[#2]}
  \cmdmthparfam ... to do!
                                                   • \cmdmthparfam{CMDNAME};
                                                        \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAMEFam}[sub][sub][ext1][par]ext2
                                                   • \cmdmthparfam{cmdName}[NEWNAME];
                                                        \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNMME}^{sub}_{sub}ext1[par]ext2
                                            612 \DeclareRobustCommandx{\cmdmthparfam}[2][2=]
                                                        {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                                                   • \cmdmthoparfam{CMDNAME};
                                                        \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                                                   • \cmdmthoparfam{cmdFam}[NEWNAME];
                                                        \verb|\cmdFamFam[sub][sub][par]| = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                             614 \DeclareRobustCommandx{\cmdmthoparfam}[2][2=]
                                            615 {\usrmth{#1}{Fam}{oparfam}[#2]}
                    \mthcls ... to do!
                                                  • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                                   • \mthargcls{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = NAME_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                   \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \  }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ 
                                                   • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1\left[Par^{Ex^{Ex}}\right]Ext2
                                                   • \mthparcls*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = NAME^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                             616 %% Style for Classes
                                            617 \mbox{ \cmdmthall{cls}\newcommand{\mbox{\mbox{\cmthstycls}}{\mbox{\mbox{\cmatheus}}}}
                         \ACls ... to do!
                               \dots A, B, C, D, E, F, G, H, I, J, X, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                            618 \seqoflatupp{Cls}{mthcls}
           \cmdmthcls ... to do!
                                                   \cmdmthcls{CMDNAME};
                                                        \verb|\CMDNAMECls[sub][sub][ext]| = \verb|\CMDNAME| sub| ext|
                                                   • \cmdmthcls{cmdName}[NEWNAME];
                                                        \cmdNameCls[sub][sub][ext] = NEWNAME_{sub}^{sub}ext
                                            619 \DeclareRobustCommandx{\cmdmthcls}[2][2=]
                                            620 {\usrmth{#1}{Cls}{cls}[#2]}
  \cmdmthargcls ... to do!
                                                   \cmdmthargcls{CMDNAME};
                                                        \verb|\CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1(arg)ext2
```

```
\cmdmthargcls{cmdName}[NEWNAME];
                                                                                     \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = NEWNAME_{sub}^{sub}ext1(arg)ext2
                                                                  621 \DeclareRobustCommandx{\cmdmthargcls}[2][2=]
                                                                                   {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                                                             \cmdmthoargcls{CMDNAME};
                                                                                    \CMDNAMEC1s[sub][sub] [arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                                             \cmdmthoargcls{cmdCls}[NEWNAME];
                                                                                    \verb|\cmdClsCls[sub][sub][arg]| = NEWNAME_{sub}^{sub}(arg)
                                                                  623 \DeclareRobustCommandx{\cmdmthoargcls}[2][2=]
                                                                  624 {\usrmth{#1}{Cls}{oargcls}[#2]}
    \cmdmthparcls ... to do!
                                                                             \cmdmthparcls{CMDNAME};
                                                                                    \verb|\CMDNAMECls[sub][sub][ext1][par][ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1[par]ext2|
                                                                             • \cmdmthparcls{cmdName}[NEWNAME];
                                                                                    \cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2
                                                                   625 \DeclareRobustCommandx{\cmdmthparcls}[2][2=]
                                                                  626 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                             • \cmdmthoparcls{CMDNAME};
                                                                                    \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                             • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                                    \verb|\cmdClsCls[sub][sub][par]| = \verb|NEWNAME|_{sub}^{sub}[par]|
                                                                  627 \DeclareRobustCommandx{\cmdmthoparcls}[2][2=]
                                                                  628 {\usrmth{#1}{Cls}{oparcls}[#2]}
                              \mthsig ... to do!
                                                                             • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}ame_{sub}^{sup}Ext
                                                                             • \mthargsig{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 \left(Arg^{Ex^{Ex}}\right) Ext2
                                                                             • \mthargsig*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = \Re e^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                             \bullet \  \  \, \texttt{\bare}[Sub][Sub][Ext1] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex^{Ex}} \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex^{Ex}} \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex} \Big] = \mathcal{N} am
                                                                             \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{
                                                                   629 %% Style for Signatures
                                                                  630 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
                                     \aSig ... to do!
                                               ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, \chi, y, z
                                                               \mathcal{A},~\mathcal{B},~\mathcal{C},~\mathcal{D},~\mathcal{E},~\mathcal{F},~\mathcal{G},~\mathcal{H},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~\mathcal{Q},~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~\mathcal{X},~\mathcal{Y},~\mathcal{Z}
                                                               \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                  631 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
                \cmdmthsig ... to do!
                                                                             • \cmdmthsig{cmdName};
                                                                                    \colon dNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                             • \cmdmthsig{cmdName}[NewName];
                                                                                    \verb|\cmdNameSig[sub][sub][ext]| = \textit{NewName}^{sub}_{sub} ext|
                                                                   632 \DeclareRobustCommandx{\cmdmthsig}[2][2=]
                                                                  633 {\usrmth{#1}{Sig}{sig}[#2]}
    \cmdmthargsig ... to do!
                                                                             \cmdmthargsig{cmdName};
```

 $\verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub}ext1(arg)ext2$ 

```
• \cmdmthargsig{cmdName}[NewName];
                                                                                                        \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{NewName}^{sub}_{sub}ext1(arg)ext2
                                                                                  634 \DeclareRobustCommandx{\cmdmthargsig}[2][2=]
                                                                                                       {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                                               \cmdmthoargsig{cmdName};
                                                                                                       \verb|\cmdNameSig[sub][sub][arg]| = \textit{cmdName}_{sub}^{sub}(arg)
                                                                                               \cmdmthoargsig{cmdSig}[NewName];
                                                                                                       \verb|\cmdSigSig[sub][sub][arg]| = \textit{NewName}^{sub}_{sub}(arg)
                                                                                  636 \DeclareRobustCommandx{\cmdmthoargsig}[2][2=]
                                                                                                      {\usrmth{#1}{Sig}{oargsig}[#2]}
    \cmdmthparsig ... to do!
                                                                                               \cmdmthparsig{cmdName};
                                                                                                       \label{lem:cmdNameSig} $$ \operatorname{[sub][sub][ext1][par][ext2]} = cmd \operatorname{Name}_{sub}^{sub} ext1[par] ext2 $$
                                                                                               • \cmdmthparsig{cmdName}[NewName];
                                                                                                       \cmdNameSig[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                                   638 \DeclareRobustCommandx{\cmdmthparsig}[2][2=]
                                                                                                    {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                                              • \cmdmthoparsig{cmdName};
                                                                                                       \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                               • \cmdmthoparsig{cmdSig}[NewName];
                                                                                                       \verb|\cmdSigSig[sub][sub][par]| = \textit{NewName}^{sub}_{sub}[par]|
                                                                                  640 \DeclareRobustCommandx{\cmdmthoparsig}[2][2=]
                                                                                  641 {\usrmth{#1}{Sig}{oparsig}[#2]}
                                     \mthstr ... to do!
                                                                                              • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup}Ext
                                                                                              • \mthargstr{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2
                                                                                               • \mthargstr*{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                              \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \  }} \texttt{\ \  }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \  }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{
                                                                                              \bullet \  \  \, \texttt{\bare}[sub][sup][Ext1] \{ Par^{Ex^{-}}[Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2 = \mathfrak{Name}_{sub}^{sup} Ext2[Par^{Ex^{Ex}}] Ext
                                                                                   642 %% Style for Structures
                                                                                  643 \mbox{ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\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
                                               \aStr ... to do!
                                                          ... \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}, \mathfrak{g}
                                                                              \mathfrak{A},\,\mathfrak{B},\,\mathfrak{C},\,\mathfrak{D},\,\mathfrak{E},\,\mathfrak{F},\,\mathfrak{G},\,\mathfrak{H},\,\mathfrak{I},\,\mathfrak{I},\,\mathfrak{K},\,\mathfrak{L},\,\mathfrak{M},\,\mathfrak{N},\,\mathfrak{D},\,\mathfrak{P},\,\mathfrak{Q},\,\mathfrak{R},\,\mathfrak{S},\,\mathfrak{T},\,\mathfrak{U},\,\mathfrak{V},\,\mathfrak{W},\,\mathfrak{X},\,\mathfrak{Y},\,\mathfrak{J}
                                                                              \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                                  644 \sqoflatlet{Str}{mthstr}\sqofgrklow{Str}{mthstr}
                     \cmdmthstr ... to do!
                                                                                              • \cmdmthstr{cmdName};
                                                                                                       • \cmdmthstr{cmdName}[NewName];
                                                                                                       \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{NewName}_{sub}^{sub} ext
                                                                                  645 \DeclareRobustCommandx{\cmdmthstr}[2][2=]
                                                                                  646 {\usrmth{#1}{Str}{str}[#2]}
    \cmdmthargstr ... to do!
                                                                                               \cmdmthargstr{cmdName};
                                                                                                       \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdMame| sub ext1(arg)ext2|
```

```
• \cmdmthargstr{cmdName} [NewName];
                                                                            \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                           647 \DeclareRobustCommandx{\cmdmthargstr}[2][2=]
                                                                           {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                    • \cmdmthoargstr{cmdName};
                                                                           \verb|\cmdNameStr[sub][sub][arg]| = cmd \mathfrak{Name}_{sub}^{sub}(arg)
                                                                    • \cmdmthoargstr{cmdStr}[NewName];
                                                                           \verb|\cmdStrStr[sub][sub][arg]| = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                           649 \DeclareRobustCommandx{\cmdmthoargstr}[2][2=]
                                                                          {\usrmth{#1}{Str}{oargstr}[#2]}
   \cmdmthparstr ... to do!
                                                                    • \cmdmthparstr{cmdName};
                                                                           \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                     • \cmdmthparstr{cmdName} [NewName];
                                                                           \label{lem:cmdNameStr} $$ \operatorname{Sub}[\operatorname{sub}][\operatorname{ext1}] = \mathfrak{NewName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                                                           651 \DeclareRobustCommandx{\cmdmthparstr}[2][2=]
                                                                         {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                    • \cmdmthoparstr{cmdName};
                                                                           \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdName}_{sub}^{sub}[par]|
                                                                     • \cmdmthoparstr{cmdStr}[NewName];
                                                                           \colored \
                                                           653 \DeclareRobustCommandx{\cmdmthoparstr}[2][2=]
                                                                           {\usrmth{#1}{Str}{oparstr}[#2]}
                           \mthset ... to do!
                                                                    • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                    • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                     \bullet \ \texttt{\ Name} \ \texttt{[sub] [sup] [Ext1] \{Arg^{\{Ex^{\{Ex\}\}}\}} \ \texttt{[Ext2]} \ = \ \texttt{Name} \\ \text{$^{sub}_{sub}$} Ext1(Arg^{Ex^{Ex}}) Ext2 \\ \text{\ } = \ \texttt{\ } \\ \text{\ } \\ 
                                                                    \bullet \  \, \texttt{\t Name} \  \, \texttt{\t [Sub] [Sub] [Ext1] \{Par^{Ex^{\{Ex\}}\}} \  \, \texttt{\t Ext2]}} \  \, = \  \, \texttt{\t Name} \  \, \texttt{\t Ext1} \  \, \Big[ Par^{Ex^{Ex}} \Big] \  \, Ext2
                                                                     655 %% Style for Sets
                                                           656 \cmdmthall{set}\newcommand{\mthstyset}{\mathrm}
                                  \aSet ... to do!
                                          ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                         A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                        \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                        A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                           657 \seqoflet{Set}{mthset}
               \cmdmthset ... to do!
                                                                     \cmdmthset{cmdName};
                                                                           \verb|\cmdNameSet[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                    • \cmdmthset{cmdName}[NewName];
                                                                           \cmdNameSet[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                           658 \DeclareRobustCommandx{\cmdmthset}[2][2=]
                                                                         {\usrmth{#1}{Set}{set}[#2]}
   \cmdmthargset ... to do!
                                                                     \cmdmthargset{cmdName};
                                                                            \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
```

```
• \cmdmthargset{cmdName}[NewName];
                                                                           \verb|\cmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                           660 \DeclareRobustCommandx{\cmdmthargset}[2][2=]
                                                                           {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                                                                     \cmdmthoargset{cmdName};
                                                                           \verb|\cmdNameSet[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                                                     • \cmdmthoargset{cmdSet}[NewName];
                                                                           \verb|\cmdSetSet[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                                           662 \DeclareRobustCommandx{\cmdmthoargset}[2][2=]
                                                                        {\usrmth{#1}{Set}{oargset}[#2]}
   \cmdmthparset ... to do!
                                                                     \cmdmthparset{cmdName};
                                                                           \label{lem:lemma:emdName} $$\operatorname{sub}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2$
                                                                     • \cmdmthparset{cmdName}[NewName];
                                                                           \cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                            664 \DeclareRobustCommandx{\cmdmthparset}[2][2=]
                                                           665 {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                                                                    • \cmdmthoparset{cmdName};
                                                                           \colon dNameSet[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                     • \cmdmthoparset{cmdSet}[NewName];
                                                                           \verb|\cmdSetSet[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                           666 \DeclareRobustCommandx{\cmdmthoparset}[2][2=]
                                                           667 {\usrmth{#1}{Set}{oparset}[#2]}
   \cmdmthsetext ... to do!
                                                           668 \DeclareRobustCommandx{\cmdmthsetext}[3][2=, 3=]
                                                           669 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                                           670 \usrmthlet{\thestring}{Sym}{sym}
                                                                                       [\defval{#3}{\defval{\empchk{#2}}{\lowercase{#2}}}{\thestring}}]%
                                                           672 \usrmthlet{\thestring}{Elm}{elm}
                                                           673
                                                                                       [\defval{#3}{\defval{mpchk{#2}}{\defval{mpchk{#2}}}} \label{fig:pchk{#2}}]
                           \mthrel ... to do!
                                                                    • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                     • \mthargrel{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                     • \mthargrel*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                     \bullet \ \texttt{\normalfine}[sub][sup][Ext1] \\ \{ Par^{Ex^{f}} \} \} \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext1 \\ \Big[ Par^{Ex^{Ex}} \Big] \\ Ext2 \\ = Name_{sub}^{sup} Ext2 \\ = Name_{sub}^{sub} Ext2 \\ = Nam_{sub}^{sub} Ext2 \\ = Nam_{sub}^{sub} E
                                                                    \bullet \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ }} \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ }
                                                            674 %% Style for Relations
                                                           675 \mbox{ } \mbox{mthall{rel}\newcommand{\mbox{mthstyrel}{\mathbb{}}} \
                                  \arrowvertaRel ... to do!
                                          \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                        A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                                        \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                        A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                                           676 \seqoflet{Rel}{mthrel}
               \cmdmthrel ... to do!
                                                                    • \cmdmthrel{cmdName};
```

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

```
• \cmdmthrel{cmdName}[NewName];
                                                  \colon dNameRel[sub][sub][ext] = NewName_{sub}^{sub}ext
                                       677 \DeclareRobustCommandx{\cmdmthrel}[2][2=]
                                                 {\usrmth{#1}{Rel}{rel}[#2]}
  \cmdmthargrel ... to do!
                                             • \cmdmthargrel{cmdName};
                                                 \cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                             • \cmdmthargrel{cmdName}[NewName];
                                                  \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                       679 \DeclareRobustCommandx{\cmdmthargrel}[2][2=]
                                                {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                             • \cmdmthoargrel{cmdName};
                                                 \cmdNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                             • \cmdmthoargrel{cmdRel}[NewName];
                                                 \verb|\cmdRelRel[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                       681 \DeclareRobustCommandx{\cmdmthoargrel}[2][2=]
                                       682 {\usrmth{#1}{Rel}{oargrel}[#2]}
  \cmdmthparrel ... to do!
                                             • \cmdmthparrel{cmdName};
                                                 \cmdNameRel[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                             • \cmdmthparrel{cmdName}[NewName];
                                                 \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                       683 \DeclareRobustCommandx{\cmdmthparrel}[2][2=]
                                                  {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                             • \cmdmthoparrel{cmdName};
                                                 \cmdNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                             • \cmdmthoparrel{cmdRel}[NewName];
                                                  \cmdRelRel[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                                       685 \DeclareRobustCommandx{\cmdmthoparrel}[2][2=]
                                                {\usrmth{#1}{Rel}{oparrel}[#2]}
                 \mthfun ... to do!
                                             • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                             • \mthargfun{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                             • \mthargfun*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                             \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} = \  \, \texttt{\bar{Name}} \  \, \texttt{\ba
                                             687 %% Style for Functions
                                       688 \mbox{\mbox{\mbox{$\sim$}}{\mbox{\mbox{$\sim$}}}{\mbox{\mbox{$\sim$}}}{\mbox{\mbox{$\sim$}}}
                           ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                     \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                    A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                       689 \seqoflet{Fun}{mthfun}
         \cmdmthfun ... to do!
                                             \cmdmthfun{cmdName};
                                                  \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
```

```
• \cmdmthfun{cmdName} [NewName];
                                                         \cmdNameFun[sub][sub][ext] = NewName_{sub}^{sub}ext
                                            690 \DeclareRobustCommandx{\cmdmthfun}[2][2=]
                                                         {\usrmth{#1}{Fun}{fun}[#2]}
  \cmdmthargfun ... to do!
                                                   • \cmdmthargfun{cmdName};
                                                        \cmdNameFun[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                   • \cmdmthargfun{cmdName}[NewName];
                                                         \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                            692 \DeclareRobustCommandx{\cmdmthargfun}[2][2=]
                                                        {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                                   • \cmdmthoargfun{cmdName};
                                                        \colon = cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                    • \cmdmthoargfun{cmdFun}[NewName];
                                                        \verb|\cmdFunFun[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                             694 \DeclareRobustCommandx{\cmdmthoargfun}[2][2=]
                                                      {\usrmth{#1}{Fun}{oargfun}[#2]}
  \cmdmthparfun ... to do!
                                                   • \cmdmthparfun{cmdName};
                                                        \cmdNameFun[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                    • \cmdmthparfun{cmdName}[NewName];
                                                        696 \DeclareRobustCommandx{\cmdmthparfun}[2][2=]
                                                        {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                                                   • \cmdmthoparfun{cmdName};
                                                        \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                    • \cmdmthoparfun{cmdFun}[NewName];
                                                         \colon [sub] [sub] [par] = NewName_{sub}^{sub} [par]
                                             698 \DeclareRobustCommandx{\cmdmthoparfun}[2][2=]
                                                        {\usrmth{#1}{Fun}{oparfun}[#2]}
                    \mthsym ... to do!
                                                   • \mthsym{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                    • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                    \bullet \  \  \, \texttt{\bare}^{sup}[\texttt{Ext1}] \  \, \texttt{\bare}^{sup}[\texttt{Ext2}] \  \, = \  \  \, \texttt{\bare}^{sup}_{sub} Ext1 (Arg^{Ex^{Ex}}) Ext2 \  \, = \  \, \texttt{\bare}^{sup}_{sub} Ext1 (Arg^{Ex^{Ex}}) Ext2 \  \, = \  \, \texttt{\bare}^{sup}_{sub} Ext2 \  \, = \  \, \texttt{\bare}^{sub}_{sub} Ext
                                                   \bullet \  \, \texttt{\bar{Ext1}[Ext1]} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\}\\ + \mathtt{\bar{Ext2}} = \mathtt{\bar{Ext1}}\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathtt{\bar{Ext1}}\Big[Par^{Ex^{Ex}}\Big]Ext2\Big]
                                                    • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                             700 %% Style for Symbols
                                             701 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}
                         \asym ... to do!
                               ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                          A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                          \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                          A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                            702 \seqoflet{Sym}{mthsym}
           \cmdmthsym ... to do!
                                                    \cmdmthsym{cmdName};
                                                        \cmdNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
```

```
• \cmdmthsym{cmdName}[NewName];
                                                                                    \colon colon col
                                                                  703 \DeclareRobustCommandx{\cmdmthsym}[2][2=]
                                                                                   {\usrmth{#1}{Sym}{sym}[#2]}
    \cmdmthargsym ... to do!
                                                                            • \cmdmthargsym{cmdName};
                                                                                   \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                            • \cmdmthargsym{cmdName}[NewName];
                                                                                    \c MameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                  705 \DeclareRobustCommandx{\cmdmthargsym}[2][2=]
                                                                                  {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                            • \cmdmthoargsym{cmdName};
                                                                                   • \cmdmthoargsym{cmdSym}[NewName];
                                                                                   \verb|\cmdSymSym[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                                  707 \DeclareRobustCommandx{\cmdmthoargsym}[2][2=]
                                                                                  {\usrmth{#1}{Sym}{oargsym}[#2]}
    \cmdmthparsym ... to do!
                                                                            • \cmdmthparsym{cmdName};
                                                                                   \cmdNameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                            • \cmdmthparsym{cmdName}[NewName];
                                                                                   \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                                  709 \DeclareRobustCommandx{\cmdmthparsym}[2][2=]
                                                                                     {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                            • \cmdmthoparsym{cmdName};
                                                                                   • \cmdmthoparsym{cmdSym}[NewName];
                                                                                   \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                  711 \DeclareRobustCommandx{\cmdmthoparsym}[2][2=]
                                                                                  {\usrmth{#1}{Sym}{oparsym}[#2]}
                              \mbox{\mbox{$\mbox{$\mbox{$\mbox{$}}}} to do!
                                                                            • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                             \bullet \verb| \t Mame | [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} | [Ext2] = Name_{sub}^{sup} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 | (Arg^{Ex^{Ex}}) | [Ext2] | (Arg^{Ex^{Ex}}) | (Arg^{Ex}) | (Arg^{E
                                                                            • \mthargelm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{-}})Ext2
                                                                             \bullet \ \texttt{\normalfont{Name}[sub][sup][Ext1][Par^{Ex^{}}]} [Ext2] = Name_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = Name_{sub}^{sup} Ext2 \\ = Nam_{sub}^{sup} Ext2 \\ = Name_{sub}^{sup} E
                                                                            • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                  713 %% Style for Elements
                                                                  714 \mbox{ } \mbox{mthall{elm}\newcommand{\mbox{mthstyelm}{\mathbb{}}} \mbox{ } \mbox{mathnormal} \mbox{}
                                              \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                              A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                              \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                              A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                                                  715 \seqoflet{Elm}{mthelm}
                \cmdmthelm ... to do!
                                                                            \cmdmthelm{cmdName};
```

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

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

```
730 \DeclareRobustCommandx{\cmdmthargsymelm}[2][2=]
                                                                        {\cmdmthargsym{#1}[#2]%
                                                        732
                                                                        \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                                                \cmdmthoargsymelm{cmdName};
                                                                      \cmbox{\cmdNameSym[sub][sub][arg]} = cmdName_{sub}^{sub}(arg)
                                                                      \verb|\cmdNameElm[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                                                • \cmdmthoargsymelm{cmdName}[NewName];
                                                                     \colon = \
                                                                     \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                         733 \DeclareRobustCommandx{\cmdmthoargsymelm}[2][2=]
                                                                        {\cmdmthoargsym{#1}[#2]%
                                                                        \cmdmthoargelm{#1}[#2]}
  \cmdmthparsymelm ... to do!
                                                                \cmdmthparsymelm{cmdName};
                                                                      \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                      \colone{local} \col
                                                                • \cmdmthparsymelm{cmdName}[NewName];
                                                                      \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames|^{sub}_{sub}ext1[par]ext2
                                                                      \colonerge{cmdNameElm[sub][sub][ext1]{par}[ext2]} = NewName^{sub}_{sub}ext1[par]ext2
                                                         736 \DeclareRobustCommandx{\cmdmthparsymelm}[2][2=]
                                                                        {\cmdmthparsym{#1}[#2]%
                                                                        \cmdmthparelm{#1}[#2]}
                                                         738
\cmdmthoparsymelm ... to do!
                                                                \cmdmthoparsymelm{cmdName};
                                                                      \cmbox{\cmdNameSym[sub][sub][par]} = cmdName_{sub}^{sub}[par]
                                                                      \colonerge{cmdNameSub[par]} = cmdName_{sub}^{sub[par]}
                                                                • \cmdmthoparsymelm{cmdName}[NewName];
                                                                      \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                      \verb|\cmdNameElm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                        739 \DeclareRobustCommandx{\cmdmthoparsymelm}[2][2=]
                                                                        {\cmdmthoparsym{#1}[#2]%
                                                                        \cmdmthoparelm{#1}[#2]}
                                                        \mthluop ... to do!
                                                                \bullet \ \texttt{\bary [sub] [sup] [Ext]} = \oplus_{sub}^{sup} Ext ]
                                                                ullet \mthlbop{\oplus}[sub][sup][Ext] = \oplus_{sub}^{sup}Ext
                                                        743 %% Style for \LaTex Operators
                                                         744 \cmdmth{luop}\newcommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                                        745 \mbox{cmdmth{lbop}\newcommand{\mbstylbop}[1]{\textstyle}mathbin{#1}}
                 \cmdmthluop ... to do!
                                          . . .
                                                               • \cmdmthluop{cmdName};
                                                                     \verb|\cmdNameUOp[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                                                                • \cmdmthluop{cmdName}[\oplus];
                                                                      \colon = 0
                                                                \cmdmthlbop{cmdName};
                                                                     \colon dNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                • \cmdmthlbop{cmdName}[\oplus];
                                                                     \c Mame BOp[sub][sub][ext] = \bigoplus_{sub}^{sub} ext
                                                         746 \DeclareRobustCommandx{\cmdmthluop}[2][2=]
                                                                        {\usrmth{#1}{UOp}{luop}[#2]}
                                                         748 \DeclareRobustCommandx{\cmdmthlbop}[2][2=]
                                                                       {\usrmth{#1}{BOp}{lbop}[#2]}
```

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

```
\cmdmthparsnt{cmdName};
                                                             \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                        • \cmdmthparsnt{cmdName}[NewName];
                                                             \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\NewName|^{sub}_{sub}ext1[par]ext2|
                                                 764 \DeclareRobustCommandx{\cmdmthparsnt}[2][2=]
                                                           {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                                       • \cmdmthoparsnt{cmdName};
                                                             \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdNameSnt[sub][par]|
                                                        • \cmdmthoparsnt{cmdName}[NewName];
                                                             \colon = NewNameSub[par] = NewName_{sub}^{sub}[par]
                                                 766 \DeclareRobustCommandx{\cmdmthoparsnt}[2][2=]
                                                           {\usrmth{#1}{Snt}{oparsnt}[#2]}
                      \mthfrm ... to do!
                                                       \bullet \ \  \  \, \texttt{Name} \texttt{[sub][sup][Ext]} = Name_{sub}^{sup}Ext
                                                        • \mthargfrm{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                        \bullet \  \, \texttt{\normalfrm*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}} \  \, [\texttt{Ext2}] = Name_{sub}^{sup} Ext1(Arg^{Ex^{-Ex}}) Ext2 = Name_{sub}^{sub} Ext1(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) Ext2(Arg^{Ex^{-Ex}}) E
                                                        • \mthparfrm{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                                        \bullet \  \  \, \texttt{\bare}[sub][sub][sup][Ext1][Par^{Ex^*}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                 768 %% Style for Formulae
                                                 769 \mbox{\cmdmthall{frm}\newcommand{\mbstyfrm}{\mbox{\cmthit}}}
                           \arrange Trm ... to do!
                                  \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                              A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                              \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                             770 \seqoflet{Frm}{mthfrm}
            \cmdmthfrm ... to do!
                                                       • \cmdmthfrm{cmdName};
                                                             \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                        • \cmdmthfrm{cmdName}[NewName];
                                                             \colon 
                                                 771 \DeclareRobustCommandx{\cmdmthfrm}[2][2=]
                                                772 {\usrmth{#1}{Frm}{frm}[#2]}
  \cmdmthargfrm ... to do!
                                                       • \cmdmthargfrm{cmdName};
                                                             \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                        • \cmdmthargfrm{cmdName}[NewName];
                                                             \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                 773 \DeclareRobustCommandx{\cmdmthargfrm}[2][2=]
                                                 774 {\usrmth{#1}{Frm}{argfrm}[#2]}
\c to do!
                                                       • \cmdmthoargfrm{cmdName};
                                                             \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                        • \cmdmthoargfrm{cmdName}[NewName];
                                                             \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                775 \DeclareRobustCommandx{\cmdmthoargfrm}[2][2=]
                                                776 {\usrmth{#1}{Frm}{oargfrm}[#2]}
  \cmdmthparfrm ... to do!
```

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

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

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

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

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

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

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

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

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

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

```
1087 \DeclareRobustCommand{\SetRPI}[1][]
          {\SetR[+\infty #1]}
      1089 \DeclareRobustCommand{\SetRNI}[1][]
      1090 {\SetR[-\infty #1]}
\SetC ...
  ··· 1091 \DeclareRobustCommand{\SetC}
          {\mthset[mathbb]{C}}
      1093 \DeclareRobustCommand{\SetCI}[1][]
      1094 {\SetC[\infty #1]}
      \num ...
  \cdots \ 1096 \label{loss_loss_command_num} \ [1]
          {\mth{[#1]}}
      1098 \DeclareRobustCommand{\numcc}[2]
          {\mth{[\argsep{#1}{,}{#2}]}}
      1100 \DeclareRobustCommand{\numco}[2]
          {\mth{[\argsep{#1}{,}{#2})}}
     1102 \DeclareRobustCommand{\numoc}[2]
     1103 {\mth{(\argsep{#1}{,}{#2}]}}
      1104 \DeclareRobustCommand{\numoo}[2]
          {\mth{(\argsep{#1}{,}{#2})}}
      \abs ...
\verb|\norm||_{1107} \verb|\DeclareRobustCommand{\abs}|
     1108 {\@ifstar{\@sabs}{\@abs}}
      1109 \DeclareRobustCommand{\@abs}[1]
     1110 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
     1111 \DeclareRobustCommand{\@sabs}[1]
     1112 {\mth*{\argmid{\lvert}{#1}{\rvert}}}
      1113 \DeclareRobustCommand{\norm}
          {\@ifstar{\@snorm}{\@norm}}
      1115 \DeclareRobustCommand{\@norm}[1]
      1116 {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
      1117 \DeclareRobustCommand{\@snorm}[1]
          {\mth*{\argmid{\lVert}{#1}{\rVert}}}
\floor ...
\cite{Command{floor}}
          {\@ifstar{\@sfloor}{\@floor}}
      1121 \DeclareRobustCommand{\@floor}[1]
      1122 {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
      1123 \DeclareRobustCommand{\@sfloor}[1]
          {\mth*{\argmid{\lfloor}{#1}{\rfloor}}}
      1125 \DeclareRobustCommand{\ceil}
      1126 {\c}^{\c} 
      1127 \DeclareRobustCommand{\@ceil}[1]
     1128 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
      1129 \DeclareRobustCommand{\@sceil}[1]
          {\mth*{\argmid{\lceil}{#1}{\rceil}}}
      \arg ...
     1132 \usrmth{arg}{}{fun}
 \evn ...
 \odd _{1133} \usrmth{evn}{}{fun}
     1134 \usrmth{odd}{}{fun}
```

```
\bst ...
              \cdots 1135 \usrmth{bst}{}{fun}
                   1136 \usrmth{argbst}{}{fun}[arg\,bst]
            \min ...
            \label{local_state} $\max_{1137} \operatorname{local_min}{{\rm sin}}{{\rm sin}} = {\rm sin}{{\rm sin}} = {\rm sin}
              ... 1138 \usrmth{max}{}{fun}
                   1139 \usrmth{argmin}{}{fun}[arg\,min]
                   1140 \usrmth{argmax}{}{fun}[arg\,max]
            \inf ...
            \sup_{1141} \operatorname{linf}{fun}
                   1142 \usrmth{sup}{}{fun}
            \gcd ...
            \label{lower} $\lim_{1143 \in \mathbb{R}^{3}} \left( \frac{1}{gcd} \right) = 0.
                   1144 \usrmth{lcm}{}{fun}
                   \emptyseq ...
                   1146 \DeclareRobustCommand{\emptyseq}
                   1147 {\mth{\varepsilon}}
            \len ...
                   1148 \DeclareRobustCommand{\len}
                   1149 {\c}^{\c} 
                   1150 \DeclareRobustCommand{\@len}[1]
                   1151 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
                   1152 \DeclareRobustCommand{\@slen}[1]
                   1153 {\mth*{\argmid{\lvert}{#1}{\rvert}}}
            \fst ...
            \lst _{1154} \usrmth{fst}{}{argfun}
                   1155 \usrmth{lst}{}{argfun}
                   1156 \fi
                   1161 \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)
                   1162 \newcommandx{\defcomcls}[2][2=]
                   1163 {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\verb|\defcomclsgrp| \dots \ to \ do!
                        \defcomclsgrp{CompClass};
                          \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                          \CoCompClass[sub][sup][arg] = CoCompCLASS_{SUB}^{SUP}(ARG)
                          \verb|\CompClassE[sub][sup][arg]| = CompClass-Easy_{SUB}^{SUB}(ARG)
                          \CoCompClassE[sub][sup][arg] = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                          \label{loss-hard-sub} $$ \operatorname{CompClassH[sub][sup][arg]} = \operatorname{CompClass-hard-Sup}_{SUB}(\operatorname{ARG}) $$
```

```
\CoCompClassH[sub][sup][arg] = CoCompClass-Hard_{SUB}^{SUP}(ARG)
   \label{lossC} $$ \operatorname{CompClassC[sub][sup][arg]} = \operatorname{COMPCLASS-COMPLETE}^{SUP}_{SUB}(ARG) 
   \CoCompClassC[sub][sup][arg] = CoCompClass-Complete_{SUB}^{SUP}(ARG)
  \verb|\DCompClass[sub][sup][arg]| = DCompClass[sup](arg)
  \CoDCompClass[sub][sup][arg] = CoDCompCLASS_{SUB}^{SUP}(ARG)
  \verb|\DCompClassE[sub][sup][arg]| = DCompClass-easy_{SUB}^{SUP}(ARG)
  \verb|\CodCompClassE[sub][sup][arg]| = CodCompClass-easy^{SUP}_{SUB}(ARG)
  \label{eq:decompClassH} $$\D{\compClassHard}_{SuB}[sub][sup] = DCOMPCLASS-HARD_{SUB}^{SUP}(ARG)$
   \verb|\CoDCompClassH[sub][sup][arg]| = CoDCompClass-Hard_{SUB}^{SUP}(ARG)
   \verb|\DCompClassC[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)
  \N{\c CompClassH[sub][sup][arg]} = N{\c CompClass-Hard}_{SUB}^{SUP}(ARG)
  \ConCompClassH[sub][sup][arg] = ConCompClass-Hard_{SUB}^{SUP}(Arg)
  \NCompClassC[sub][sup][arg] = NCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \ConCompClassC[sub][sup][arg] = ConCompClass-CompLete_{SUB}^{SUP}(ARG)
  \UCompClass[sub][sup][arg] = UCompCLass_{SUB}^{SUP}(ARG)
  \Coulomb Class[sub][sup][arg] = Coulomb Class_{SUB}^{SUP}(ARG)
  \UCompClassE[sub][sup][arg] = UCompClass-Easy_{SUB}^{SUP}(ARG)
  \verb|\CoUCompClassE[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)
  \Coultberry Coultberry Coultber
  \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoACompClass[sub][sup][arg]| = CoACompClass_{SUB}^{SUP}(ARG)
  \verb|\ACompClassE[sub][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)
   \CoACompClassH[sub][sup][arg] = CoACompClass-Hard_{SUB}^{SUP}(ARG)
   \triangle CompClassC[sub][sup][arg] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
   \verb|\CoACompClassC[sub][sup][arg]| = CoACompClass-complete_{SUB}^{SUP}(ARG)
\defcomclsgrp{CompClass}[NewClass];
   \CompClass[sub][sup][arg] = NEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoCompClass[sub][sup][arg]| = CoNewClass_{SUB}^{SUP}(ARG)
   \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)
   \CoCompClassH[sub][sup][arg] = CoNewClass-Hard_{SUB}^{SUP}(Arg)
   \label{lossC} $$ \operatorname{CompClassC[sub][sup][arg]} = \operatorname{NewClass-CompLete}_{\operatorname{SUB}}^{\operatorname{SUP}}(\operatorname{ARG}) $$
  \verb|\CoCompClassC[sub][sup][arg]| = \operatorname{CoNewClass-complete}_{SUB}^{SUP}(ARG)
  \DCompClass[sub][sup][arg] = DNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoDCompClass[sub][sup][arg]| = CoDNewClass_{SUB}^{SUP}(ARG)
  \DCompClassE[sub][sup][arg] = DNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CodCompClassE[sub][sup][arg] = CodNewClass-Easy_{SUB}^{SUP}(ARG)
   \label{eq:decompClassH} $$\DCompClassH[sub][sup][arg] = DNEWCLASS-HARD_{SUB}^{SUP}(ARG)$
   \verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{SUB}^{SUP}(ARG)
  \label{eq:decompClassC} $$\D{\compClassC[sub][sup][arg]} = DNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \CodCompClassC[sub][sup][arg] = CodNewClass-Complete_{SUB}^{SUP}(ARG)
  \verb|\NCompClass[sub][sup][arg]| = NNEWCLASS_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConNewClass_{SUB}^{SUP}(ARG)
   \verb|\NCompClassE[sub][sup][arg]| = NNEWCLASS-EASY_{SUB}^{SUP}(ARG)
   \verb|\CoNCompClassE[sub][sup][arg]| = CoNNewClass-EASY_{SUB}^{SUP}(ARG)
   \NCompClassH[sub][sup][arg] = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)
```

```
\ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{SUB}^{SUP}(Arg)
                              \verb|\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)
                             \texttt{CoUCompClass[sub][sup][arg]} = CoUNEWCLASS_{SUB}^{SUP}(ARG)
                             \label{eq:UCompClassE[sub] sup of the complex of 
                             \verb|\CoUCompClassE[sub][sup][arg]| = CoUNewClass-easy_{SUB}^{SUP}(ARG)
                             \label{eq:UCompClassH} $$ \UCompClassH[sub] [sup] [arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
                              \verb|\CoUCompClassH[sub][sup][arg]| = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \label{eq:union_loss} $$ \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG) $$
                              \CoUCompClassC[sub][sup][arg] = CoUNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                             \verb|\ACompClass[sub][sup][arg]| = ANEWCLASS_{SUB}^{SUP}(ARG)
                              \CoACompClass[sub][sup][arg] = CoANEWCLASS_{SUB}^{SUP}(ARG)
                             \label{eq:accompClassE} $$ \Delta CompClassE[sub][sup][arg] = ANEWCLASS-EASY_{SUB}^{SUP}(ARG) $$
                             \CoACompClassE[sub][sup][arg] = CoANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                             \Lambda CompClassH[sub][sup][arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                             \CoACompClassH[sub][sup][arg] = CoANewClass-Hard_{SUB}^{SUP}(Arg)
                              \ACompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                             \CoACompClassC[sub][sup][arg] = CoANewClass-CompLete_{SUB}^{SUP}(ARG)
                    1164 \newcommandx{\defcomclsgrp}[2][2=]
                    1165
                                {\displaystyle \{ \cdot \}_{i=1}^{t} }
                                \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
                    1166
                    1167 \newcommandx{\defcomclsgrpsem}[3][3=]
                    1168
                               {\defcomclsgrpred{#3#1}{#2}[#3]%
                    1169
                               \defcomclsgrpred{#3D#1}{#2}[#3D]%
                    1170
                               1171
                                \defcomclsgrpred{#3U#1}{#2}[#3U]%
                    1172
                               \defcomclsgrpred{#3A#1}{#2}[#3A]}
                    1173 \newcommandx{\defcomclsgrpred}[3][3=]
                    1174
                               {\defcomclsgrpcmd{#1}{#2}[#3]%
                    1175
                               \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                    1176
                               \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                               \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                    1178 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                               {\csdef{#1}{\txtoargcom{#3#2#4}}}
\defcomhrc ... to do!
                          • \defcomhrc{CompHierarchy};
                              CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                          \defcomhrc{CompHierarchy} [NewHierarchy];
                              CompHierarchy[sub] [sup] [par] = NEWHIERARCHY_{SUB}^{SUP}[PAR]
                    1180 \newcommandx{\defcomhrc}[2][2=]
                               {\csdef{#1}{\txtoparcom{\defval{#2}{\#1}}}}
                    \Easy
        \Hard 1183 \cmdtxtcom{Easy}
             ... 1184 \cmdtxtcom{Hard}
                    1185 \cmdtxtcom{Complete}
                    • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
           \FPT
                          • \FPLin[sub][sup][arg] = FPL_{SUB}^{SUP}(ARG)
                          • \FPQdr[sub][sup][arg] = FPQ_{SUB}^{SUP}(ARG)
```

```
• \FPCub[sub][sup] [arg] = FPC_{SUB}^{SUP}(ARG)
           1187 \defcomcls{FPT}
           1188 \defcomcls{FPLin}[FPL]
           1189 \defcomcls{FPQdr}[FPQ]
           1190 \ensuremath{ \mbox{\mbox{defcomcls{FPCub}}[FPC]} }
           • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
    \Time
                  TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
      . . .
                  TimeH[sub][sup][arg] = TIME-HARD_{SUB}^{SUP}(ARG)
                  TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \DTime[sub][sup][arg] = DTIME_{SUB}^{SUP}(ARG)
                  \DTimeE[sub][sup][arg] = DTIME-EASY_{SUB}^{SUP}(ARG)
                  \DTimeH[sub][sup][arg] = DTIME-HARD_{SUB}^{SUP}(ARG)
                  \texttt{DTimeC[sub][sup][arg]} = DTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \NTime[sub][sup][arg] = NTIME_{SUB}^{SUP}(ARG)
                  \TimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
                  \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                  \TimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
                  \verb|\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)
                \bullet \ \ \texttt{\ATime[sub][sup][arg]} = \mathrm{ATime}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{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)
           1192 \defcomclsgrp{Time}
                • Space[sub][sup][arg] = Space[sub](ARG)
  \Space
                  \SpaceE[sub][sup][arg] = SPACE-EASY_{SUB}^{SUP}(ARG)
                  \SpaceH[sub][sup][arg] = SPACE-HARD_{SUB}^{SUP}(ARG)
                  \SpaceC[sub][sup][arg] = SPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • DSpace[sub][sup][arg] = DSPACE_{SUB}^{SUP}(ARG)
                  \verb|\DSpaceE[sub][sup][arg]| = \mathrm{DSPACE\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                  \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
                  \texttt{DSpaceC[sub][sup][arg]} = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • \NSpace[sub][sup][arg] = NSPACE_{SUB}^{SUP}(ARG)
                  \verb|\NSpaceE[sub][sup][arg]| = NSPACE-EASY_{SUB}^{SUP}(ARG)
                  \NSpaceH[sub][sup][arg] = NSPACE-HARD_{SUB}^{SUP}(ARG)
                  \verb|\NSpaceC[sub][sup][arg]| = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
                  \verb|VSpaceE[sub][sup][arg]| = USPACE-EASY_{SUB}^{SUP}(ARG)
                  \verb|\USpaceH[sub][sup][arg]| = USPACE-HARD_{SUB}^{SUP}(ARG)
                  \verb|VSpaceC[sub][sup][arg]| = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                  ASpaceE[sub][sup][arg] = ASPACE-EASY_{SUB}^{SUP}(ARG)
                  ASpaceH[sub][sup][arg] = ASPACE-HARD_{SUB}^{SUP}(ARG)
                  ASpaceC[sub][sup][arg] = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
           1193 \defcomclsgrp{Space}
\LogTime
                 \bullet \ \texttt{\logTime[sub][sup][arg]} = \mathrm{LogTime}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{Arg}) 
                  \verb|\LogTimeE[sub][sup][arg]| = \operatorname{LOGTIME-EASY}^{SUP}_{SUB}(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)
                  \label{eq:decomposition} $$\DLogTimeE[sub][sup][arg] = DLogTime-EASY_{SUB}^{SUP}(ARG)$
                  \texttt{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)
                  \verb|\NLogTimeE[sub][sup][arg]| = NLogTime-EASY_{SUB}^{SUP}(ARG)
                  \verb|\NLogTimeH[sub][sup][arg]| = NLogTime-Hard_{SUB}^{SUP}(ARG)
                  \NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)
                • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                  \label{eq:ULogTimeEsub} $$ \ULogTimeE[sub] [sup] [arg] = ULogTime-EASY_{SUB}^{SUP}(ARG) $$
                  \verb|\ULogTimeH[sub][sup][arg]| = ULogTime-HARD_{SUB}^{SUP}(ARG)
                  \ULogTimeC[sub][sup][arg] = ULogTime-COMPLETE_{SUB}^{SUP}(ARG)
                • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                  \verb|\ALogTimeE[sub][sup][arg]| = ALogTime-EASY_{SUB}^{SUP}(ARG)
                  \ALogTimeH[sub][sup][arg] = ALogTime-Hard_{SUB}^{SUP}(ARG)
                  \Delta LogTimeC[sub][sup][arg] = ALogTime-Complete_{SUB}^{SUP}(ARG)
            1194 \defcomclsgrp{LogTime}
                • \lfloor 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)
                  \label{eq:decomposition} $$\DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)$
                  \label{eq:decomposition} $$\DLogSpaceH[sub][sup][arg] = DLogSpace-Hard_{SUB}^{SUP}(ARG)$
                  \DLogSpaceC[sub][sup][arg] = DLogSpace-Complete_{SUB}^{SUP}(ARG)
                • \NLogSpace[sub][sup][arg] = NLogSpace_{SUB}^{SUP}(ARG)
                  \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                  \verb|\NLogSpaceH[sub][sup][arg]| = NLogSpace-Hard_{SUB}^{SUP}(ARG)
                  \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(Arg)
                • \ULogSpace[sub][sup][arg] = ULogSpace[Sub](ARG)
                  \label{eq:ULogSpaceEsub} $$ \ULogSpaceE[sub][sup] = ULogSpace-Easy_{SUB}^{SUP}(ARG) $$
                  \verb|\ULogSpaceH[sub][sup][arg]| = ULogSpace-Hard_{SUB}^{SUP}(ARG)
                  \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(ARG)
                • ALogSpace[sub][sup][arg] = ALogSpace_{SUB}^{SUP}(ARG)
                  ALogSpaceE[sub][sup][arg] = ALogSpace-Easy_{SUB}^{SUP}(ARG)
                  \ALogSpaceH[sub][sup][arg] = ALogSpace-Hard_{SUB}^{SUP}(Arg)
                  \verb|\ALogSpaceC[sub][sup][arg]| = ALogSpace-Complete_{Sub}^{SUP}(ARG)
            1195 \defcomclsgrp{LogSpace}
                • \P [sub] [sup] [arg] = \Pr [MESUP (ARG)
   \PTime
                  \P \PTimeE[sub] [sup] [arg] = PTIME-EASY<sup>SUP</sup><sub>SUB</sub>(ARG)
                  \P \PTimeH[sub] [sup] [arg] = PTIME-HARD_SUB (ARG)
                  \P \PTimeC[sub] [sup] [arg] = PTIME-COMPLETE_SUB(ARG)
                \verb|\DPTimeE[sub][sup][arg]| = \mathrm{DPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                  \DPTimeH[sub][sup][arg] = DPTIME-HARD_{SUB}^{SUP}(ARG)
                  \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                  \NPTimeE[sub][sup][arg] = NPTIME-EASY_{SUB}^{SUP}(ARG)
                  \NPTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG)
                  \NPTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                \verb|VPTimeE[sub][sup][arg]| = \mathrm{UPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                  \UPTimeH[sub][sup][arg] = UPTIME-HARD_{SUB}^{SUP}(ARG)
                  \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • APTime[sub][sup][arg] = APTIME_{SUB}^{SUP}(ARG)
                  \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(\operatorname{ARG})
                  \texttt{\APTimeH[sub][sup][arg]} = APTIME-HARD_{SUB}^{SUP}(ARG)
                  \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
            1196 \defcomclsgrp{PTime}
```

```
\PSpace
                 • \PSpace[sub][sup][arg] = PSPACE_{SUB}^{SUP}(ARG)
                   \label{eq:pspace} $$ \PSpace[sub][sup][arg] = PSpace-Easy_{SUB}^{SUP}(ARG) 
       . . .
                   \label{eq:pspaceH} $$ \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} $$ \DPSpaceH[sub][sup][arg] = DPSpace-HARD_{SUB}^{SUP}(ARG) $$
                   \label{eq:def:DPSpaceC[sub] sup of the definition} \begin{center} [\tt Sup] [\tt arg] = DPSPACE-COMPLETE^{SUP}_{SUB}(ARG) \end{center}
                 • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                   \NPSpaceE[sub][sup][arg] = NPSPACE-EASY_{SUB}^{SUP}(ARG)
                   \NPSpaceH[sub][sup][arg] = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                   \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                   \UPSpaceE[sub][sup][arg] = UPSPACE-EASY_{SUB}^{SUP}(ARG)
                   \label{eq:upspace} $$ \UPSPACE-HARD_{SUB}^{SUP}(ARG) = UPSPACE-HARD_{SUB}^{SUP}(ARG) $$
                   \UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                 \bullet \ \ \texttt{APSpace[sub][sup][arg]} = \mathrm{APSpace}^{SUP}_{SUB}(ARG)
                   \verb|\APSpaceE[sub][sup][arg]| = APSPACE-EASY_{SUB}^{SUP}(ARG)
                   \verb|\APSpaceH[sub][sup][arg]| = APSPACE-HARD_{SUB}^{SUP}(ARG)
                   \label{eq:apsign} $$ APSpaceC[sub][sup][arg] = APSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
            1197 \defcomclsgrp{PSpace}
                 • \QPTime[sub][sup][arg] = QPTIME_{SUB}^{SUP}(ARG)
 \QPTime
                   \label{eq:QPTimeEsub} $$ \PTIME-EASY_{SUB}^{SUP}(ARG) = QPTIME-EASY_{SUB}^{SUP}(ARG) $$
       . . .
                   \verb|\QPTimeH[sub][sup][arg]| = \mathrm{QPTIME}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                   \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                 • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                   \verb|\DQPTimeE[sub][sup][arg]| = \mathrm{DQPTIME-EASY}^{SUP}_{SUB}(\mathrm{ARG})
                   \verb|\DQPTimeH[sub][sup][arg]| = DQPTIME-HARD_{SUB}^{SUP}(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)
                   \verb|\NQPTimeH[sub][sup][arg]| = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                   \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                 \verb|VQPTimeE[sub][sup][arg]| = UQPTIME-EASY_{SUB}^{SUP}(ARG)
                   \verb|VQPTimeH[sub][sup][arg]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                   \label{eq:uqptimeC} $$ \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                 • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                   \verb|\AQPTimeE[sub][sup][arg]| = \mathrm{AQPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                   \texttt{AQPTimeH[sub][sup][arg]} = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                   \AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
            1198 \defcomclsgrp{QPTime}
                 • \QPSpace[sub][sup][arg] = QPSPACE_{SUB}^{SUP}(ARG)
\QPSpace
                   \verb|\QPSpaceE[sub][sup][arg]| = \mathrm{QPSpace-Easy}^{SUP}_{SUB}(ARG)
                   \label{eq:QPSpaceH} $$ \QPSpaceH[sub] [sup] [arg] = QPSpace-HARD_{SUB}^{SUP}(ARG) $$
                   \label{eq:QPSpaceCsub} $$ \PPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                 • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                   \verb|\DQPSpaceE[sub][sup][arg]| = \mathrm{DQPSPACE\text{-}EASY}^{SUP}_{SUB}(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)
                   \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)
                   \UQPSpaceH[sub][sup][arg] = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                   \UQPSpaceC[sub][sup][arg] = UQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

```
• AQPSpace[sub][sup][arg] = AQPSPACE_{SUB}^{SUP}(ARG)
                  \verb|\AQPSpaceE[sub][sup][arg]| = \mathrm{AQPSPACE\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                  \verb|\AQPSpaceH[sub][sup][arg]| = AQPSpace-Hard_{SUB}^{SUP}(ARG)
                  \label{eq:approx} $$ AQPSpaceC[sub][sup][arg] = AQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
            1199 \defcomclsgrp{QPSpace}
\ExpTime
                \bullet \ \texttt{\baseline{targ}[sub][sup][arg]} = \mathrm{ExpTime}^{SUP}_{SUB}(ARG)
                  \verb|\ExpTimeE[sub][sup][arg]| = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \texttt{\colored}[sub][sup][arg] = EXPTIME-HARD_{SUB}^{SUP}(ARG)
                  \texttt{ExpTimeC[sub][sup][arg]} = \texttt{ExpTime-complete}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{ARG})
                • \DExpTime[sub][sup][arg] = DEXPTIME_{SUB}^{SUP}(ARG)
                  \texttt{DExpTimeE[sub][sup][arg]} = DEXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \DExpTimeH[sub][sup][arg] = DEXpTIME-HARD_{SUB}^{SUP}(ARG)
                  \DExpTimeC[sub][sup][arg] = DEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                • \NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                  \NExpTimeE[sub][sup][arg] = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \verb|\NExpTimeH[sub][sup][arg]| = NEXPTIME-HARD_{SUB}^{SUP}(ARG)
                  \NExpTimeC[sub][sup][arg] = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                \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)
                \bullet \ \texttt{\ \ } \texttt{LargTime[sub][sup][arg]} = AEXPTIME^{SUP}_{SUB}(ARG)
                  \verb|\AExpTimeE[sub][sup][arg]| = AEXPTIME-EASY_{SUB}^{SUP}(ARG)
                  \Delta ExpTimeH[sub][sup][arg] = AEXPTIME-HARD_{SUB}^{SUP}(ARG)
                  \Delta ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
            1200 \defcomclsgrp{ExpTime}
                \bullet \ \texttt{\colored}[sup][arg] = {\rm EXPSPACE}^{SUP}_{SUB}(ARG)
\ExpSpace
                  \ExpSpaceE[sub][sup][arg] = ExpSpace-Easy_{SUB}^{SUP}(ARG)
       . . .
                  \ExpSpaceH[sub][sup][arg] = ExpSpace-Hard_{SUB}^{SUP}(ARG)
                  \ExpSpaceC[sub][sup][arg] = ExpSpace-Complete_{SUB}^{SUP}(ARG)
                \bullet \ \ \texttt{\ \ } \texttt{[sup][arg]} = DExpSpace[\texttt{Sup}(Arg)]
                  \verb|\DExpSpaceE[sub][sup][arg]| = DEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \verb|\DExpSpaceH[sub][sup][arg]| = DEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                  \label{eq:decomplete_sup} $$ \DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                \bullet \ \ \texttt{NExpSpace[sub][sup][arg]} = \ \ \texttt{NExpSpace}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{Arg})
                  \NExpSpaceE[sub][sup][arg] = NEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \NExpSpaceH[sub][sup][arg] = NEXpSpace-Hard_{SUB}^{SUP}(ARG)
                  \NExpSpaceC[sub][sup][arg] = NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • \UExpSpace[sub][sup][arg] = UExpSpace_{SUB}^{SUP}(ARG)
                  \UExpSpaceE[sub][sup][arg] = UExpSpace-Easy_{SUB}^{SUP}(ARG)
                  \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)
                  \Delta ExpSpaceE[sub][sup][arg] = AEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                  \Delta ExpSpaceH[sub][sup][arg] = AExpSpace-Hard_{SUB}^{SUP}(ARG)
                  \AExpSpaceC[sub][sup][arg] = AExpSpace-Complete_{Sub}^{SUP}(Arg)
            1201 \defcomclsgrp{ExpSpace}
            \PH
                • \PH[sub][sup][par] = PH<sup>SUP</sup><sub>SUB</sub>[PAR]
            1203 \defcomhrc{PH}
                \WH
            1204 \defcomhrc{WH}[W]
       \AH
                \bullet \AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
```

1205 \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}]
      1206 \defcomhrc{DLH}[{\mth{\Delta}}]
      1207 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
        ullet \ELH[sub][sup][par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
  \ELH
  \EBH
        ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
      1208 \defcomhrc{ELH}[{\mth{\Sigma}}]
      1209 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
        ullet \ULH[sub][sup][par] = \Pi^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
  \ULH
  \UBH
        ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
      1210 \defcomhrc{ULH}[{\mth{\Pi}}]
      1211 \defcomhrc{UBH}[{\bf [mathbf]{Pi}}]
      1212 \fi
      1217 \ifgrp@
      \GrpName ...
   · · · 1219 \newcommand{\grpname}{G}
      1220 \usrmthlatupp{Grp}{Name}{name}[\grpname]
\VerSet ...
   ··· 1221 \newcommand{\versym}{v}
      1222 \newcommand{\verset}{V}
      1223 \cmdmthsetext{Ver}[\verset][\versym]
      1224 \cmdmthsymelm{iver}[\versym_{I}]
      1225 \cmdmthsymelm{fver}[\versym_{F}]
\EdgRel ...
      1226 \newcommand{\edgrel}{E}
      1227 \cmdmthrel{Edg}[\edgrel]
      \PthSet ...
\pthFun _{1229} \newcommand{\pthsym}{\pi}
      1230 \mbox{ } \mbox{pthset}{Pth}
      1231 \cmdmthsetext{Pth} [\pthset] [\pthsym]
      1232 \usrmth{path}{}{argfun}
  \pre ...
   \suc _{1233} \usrmth{pre}{}{oargfun}
      1234 \usrmth{suc}{}{oargfun}
      1235 \fi
      1238 %%** Macros for Games *************************
      1240 \ifgam@
```

```
\SATG ...
                                     · · · 1242 %% Satisfiability Games
                                                         1243 \cmdtxtoparname{SATG}[Sat]
                                                         1245 %% Validity Games
                                                         1246 \cmdtxtoparname{VALG}[Val]
                                                         1248 % Evaluation Games
                                                         1249 \cmdtxtoparname{EVLG}[Evl]
                                                         1251 %% Synthesis Games
                                                         1252 \cmdtxtoparname{SYNG}[Syn]
                                                         1254 %% Model-Checking Games
                                                         1255 \verb|\cmdtxtoparname{MCG}| [MC]|
                                                         1257 %% Ehrenfeucht-Fraisse Games
                                                         1258 \cmdtxtoparname{EFG}[EF]
                                                         \PlrSym ...
              \position 1260 \pos
                                                         1261 \cmdmthsym{Plr}[\plrsym]
                                                         1262 \mbox{ newcommand{\oppsym}{A}}
                                                         1263 \cmdmthsym{Opp}[\oppsym]
\ArenaName ...
                                     \cdots 1264 \newcommand{\arenaname}{A}
                                                         1265 \usrmthlatupp{Arena}{Name}[name]
               \PosSet ...
                                    \cdots 1266 \newcommand{\possym}{v}
                                                         1267 \newcommand{\posset}{Ps}
                                                         1268 \mbox{ \cmdmthsetext{Pos}[\posset] [\possym]}
                                                         1269 \cmdmthsymelm{ipos}[\possym_{I}]
                                                         1270 \cmdmthsymelm{fpos}[\possym_{F}]
                                                         1271 \verb|\cmdmthset{PPos}[\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\possest_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\posset_{\po
                                                         1272 \mbox{ \cmdmthsymelm{ppos}[\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\poss
                                                         1273 \cmdmthset{OPos}[\posset_{\OppSym}]
                                                         1274 \mbox{ } [\possym_{\norm{0ppSym}}]
              \PlrFun ...
                                                         1275 \newcommand{\plrfun}{pl}
                                                         1276 \cmdmthfun{plr}[\plrfun]
               \MovRel ...
                                                         1277 \newcommand{\movrel}{Mv}
                                                         1278 \cmdmthrel{Mov}[\mbox{movrel}]
     \GameName ...
                                     · · · 1279 \newcommand{\gamename}{\Game}
                                                          1280 \usrmthlatupp{Game}{Name}{name}[\gamename]
               \WinSet ...
                                                          1281 \neq \{ \text{Winset} \}
                                                         1282 \cmdmthset{Win}[\winset]
                \ObsSet ...
                \obsFun _{1283} \newcommand{\obsset}{0b}
                                                         1284 \cmdmthset{Obs}[\obsset]
                                                         1285 \cmdmthfun{obs}
```

```
\HstSet ...
     · · · 1287 \newcommand{\hstsym}{\varpi}
        1288 \newcommand{\hstset}{Hst}
        1289 \cmdmthsetext{Hst}[\hstset][\hstsym]
        1290 \cmdmthset{PHst}[\hstset_{\PlrSym}]
        1291 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
        1292 \cmdmthset{OHst}[\hstset_{\OppSym}]
        1293 \cmdmthsymelm{ohst}[\hstsym_{\cmdm}]
        1294 \ \mbox{usrmth{play}{}} \ \
\PlaySet ...
\verb|\playFun $_{1295} \le \mbox{\playsym}{\pi} 
        1296 \mbox{ }\mbox{playset}{Play}
        1297 \cmdmthsetext{Play}[\playset][\playsym]
        1298 \usrmth{hst}{}{argfun}
\StrSet ...
     \cdots 1299 \verb|\newcommand{\strsym}{\sigma}|
        1300 \newcommand{\strset}{Str}
        1301 \cmdmthsetext{Str}[\strset][\strsym]
        1302 \cmdmthset{PStr}[\strset_{\PlrSym}]
        1303 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
        1304 \cmdmthset{OStr}[\strset_{\OppSym}]
        1305 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet ...
 \prfFun _{1306} \newcommand{\prfsym}{\xi}
        1307 \newcommand{\prfset}{Prf}
        1308 \cmdmthsetext{Prf}[\prfset][\prfsym]
   \ent ...
   \esc 1309 \usrmth{ent}{}{oargfun}
        1310 \usrmth{esc}{}{oargfun}
   \int ...
   \out 1311 \usrmth{int}{}{oargfun}
        1312 \usrmth{out}{}{oargfun}
   \atr ...
   \rch 1313 \usrmth{atr}{}{oargfun}
        1314 \usrmth{rch}{}{oargfun}
  \lift ...
        1315 \usrmth{lift}{}{oargfun}
   \sol ...
        1316 \usrmth{sol}{}{oargfun}
        \BG ...
     · · · 1318 %% Buchi Games
        1319 \cmdtxtoparname{BG}
        1320
        1321 %% Co-Buchi Games
        1322 \cmdtxtoparname{CG}
        1323
        1324 %% Parity Games
        1325 \cmdtxtoparname{PG}
        1327 %% Rabin Games
```

```
1328 \cmdtxtoparname{RG}
    1329
    1330 %% Streett Games
    1331 \verb|\cmdtxtoparname{SG}|
    1332
    1333 %% Muller Games
    1334 \cmdtxtoparname{MG}
    \EvnSym ...
\verb|\dSym|_{1336} \verb|\newcommand{\evnsym}{0}|
    1337 \cmdmthsym{Evn} [\evnsym]
    1338 \newcommand{\oddsym}{1}
    1339 \cmdmthsym{Odd} [\oddsym]
\PrtSet ...
\label{lem:local_prtsym} $$ \prod_{1340 \neq 0} \sum_{p} {prtFun_{1340} \neq 0} $$
    1341 \newcommand{\prtset}{Pr}
    1342 \cmdmthsetext{Prt}[\prtset][\prtsym]
    1343 \cmdmthfun{prt}[pr]
    \EG ...
  · · · 1346 %% Energy Games
    1347 \cmdtxtoparname{EG}
    1349 %% Mean-Payoff Games
    1350 \cmdtxtoparname{MPG}
    1351
    1352 %% Discounted-Payoff Games
    1353 \cmdtxtoparname{DPG}
    \MaxSym ...
\verb|\MinSym|_{1355} \verb|\newcommand{\maxsym}{\cline{Conditions}} 
    1356 \cmdmthsym{Max}[\maxsym]
    1357 \newcommand{\minsym}{\boxminus}
    1358 \cmdmthsym{Min}[\minsym]
\WghSet ...
\label{local_sym} $$ \mathbf{1}_{359} \rightarrow {\mathbb Z}_{wghsym}_{w} $$
    1360 \newcommand{\wghset}{Wg}
    1361 \cmdmthsetext{Wgh}[\wghset][\wghsym]
    1362 \cmdmthfun{wgh}[wg]
    1364 \fi
    1369 \iflog@
```

```
\BF ...
   \QBF _{1371} % Boolean Formulae
    · · · 1372 \cmdtxtoparname{BF}
        1374\,\% Quantified Boolean Formulae
        1375 \DeclareRobustCommand{\QBF}
        1376 \{\{\text{txtname}\{Q\}\}\}\}
        1377 \DeclareRobustCommand{\EBF}
              {\ensuremath{\exists}\BF}
        1379 \DeclareRobustCommand{\UBF}
              {\ensuremath{\forall}\BF}
        \LogSig ...
    · · · 1382 \newcommand{\logsig}{L}
        1383 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
    \Tt ...
    \Ff _{1384} \neq \{tsym}{\top}
        1385 \usrmth{Tt}{}{sym}[\ttsym]
        1386 \newcommand{\ffsym}{\bot}
        1387 \usrmth{Ff}{}{sym}[\ffsym]
  \LNeg ...
  \LNot _{1388} \rightarrow {\logsym}_{\neg}
        1389 \usrmth{LNeg}{}{luop}[\lnegsym]
        1390 \newcommand{\lnotsym}{\sim}
        1391 \usrmth{LNot}{}{luop}[\lnotsym]
  \LCon ...
  \LDis _{1392} \rightarrow \{1consym\}{\land}
        1393 \usrmth{LCon}{}{lbop}[\lconsym]
        1394 \newcommand{\ldissym}{\lor}
        1395 \verb|\usrmth{LDis}{{lbop}[\ldissym]}
  \LImp ...
  \verb|\LCoi|_{1396} \verb|\newcommand{\limpsym}_{\norm{limpsym}} \
        1397 \usrmth{LImp}{}{lbop}[\limpsym]
        1398 \newcommand{\lcoisym}{\leftrightarrow}
        1399 \usrmth{LCoi}{}{lbop}[\lcoisym]
  \LExs ...
  \LAll _{1400} \rightarrow {1400} = 1400
        1401 \usrmth{LExs}{}{luop}[\lexssym]
        1402 \mbox{ } {\mbox{ lallsym}{\mbox{forall}}
        1403 \usrmth{LAll}{}{luop}[\lallsym]
 \APSet ...
    \cdots 1404 \newcommand{\apsym}{p}
        1405 \mbox{ } \mbox{newcommand{\apset}{AP}}
        1406 \cmdmthsetext{AP}[\apset][\apsym]
        1407 \usrmth{ap}{}{argfun}
   \sub ...
        1408 \ \mbox{usrmth} \sub}{\argfun}
   \Cnt ...
   \label{lem:continuous} $$ \sum_{1410 \in \mathbb{Q}} 1_{410} \left( \frac{Qnt}{sym} \right) = 0.
        1411 \usrmth{Sym}{}{sym}[\odot]
```

```
\QAE ...
       \label{eq:QEA} $$ \QEA _{1412} \left( \CAE \right) {\sym} [\forall\exists] $$
                  1413 \verb|\armth{QEA}{{}} sym{[\exists\forall]}
\QntSet ...
         · · · 1414 \newcommand{\qntsym}{\wp}
                  1415 \newcommand{\qntset}{Qn}
                  1416 \cmdmthsetext{Qnt}[\qntset][\qntsym]
    \free ...
  \bound _{1417} \usrmth{free}{}{argfun}
                  1418 \usrmth{bound}{}{argfun}
       \dep ...
       1420 \mbox{ }\mbox{alt}{{\mbox{argfun}}}
       \cnf ...
       \dnf _{1421} \cmdtxtabr{cnf}
         ... 1422 \cmdtxtabr{dnf}
                  1423 \cmdtxtabr{pnf}
                  1424 \cmdtxtabr{nnf}
                  \LogStr ...
         \cdots 1426 \newcommand{\logstr}{L}
                  1427 \usrmthlatupp{Log}{Str}{str}[\logstr]
\ValSet ...
         · · · 1428 \newcommand{\valsym}{\xi}
                  1429 \newcommand{\valset}{Val}
                  1430 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet ...
         \cdots 1431 \newcommand{\asgsym}{\chi}
                  1432 \newcommand{\asgset}{Asg}
                  1433 \cmdmthsetext{Asg}[\asgset][\asgsym]
                  \FOL ...
         · · · 1435 % First-Order Logic
                  1436 \cmdtxtoparname{FOL}[Fol]
                  1437 \cmdtxtoparname{F0}[F0]
                  1439 % Monadic First-Order Logic
                  1440 \DeclareRobustCommand{\MFOL}
                             {{\txtname{M}}\FOL}
                  1441
                  1442 \DeclareRobustCommand{\MF0}
                  1443 {{\txtname{M}}\FO}
                  \VarSig ...
         ··· 1445 \newcommand{\varsig}{V}
                  1446 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                  1447 \newcommand{\varsym}{x}
                  1448 \mbox{ } \mbox
                  1449 \cmdmthsetext{Var}[\varset][\varsym]
                  1450 \usrmth{var}{}{argfun}[vr]
                  1451 \usrmth{dim}{}{argfun}[dm]
```

```
\ConSig ...
               \cdots 1452 \newcommand{\consig}{C}
                            1453 \verb|\usrmth|| a tupp{Con}{Sig}{sig}[\consig]
                            1454 \mbox{ }\mbox{consym}{c}
                            1455 \verb|\newcommand{\conset}{Cn}
                            1456 \cmdmthsetext{Con}[\conset][\consym]
                             1457 \usrmth{con}{}{argfun}[cn]
\FunSig ...
               \cdots 1458 \newcommand{\funsig}{F}
                             1459 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                             1460 \mbox{ \newcommand{\funsym}{f}}
                             1461 \mbox{ } \mbox
                             1462 \cmdmthsetext{Fun} [\funset] [\funsym]
                             1463 \usrmth{fun}{}{argfun}[fn]
                             1464 \usrmth{art}{}{argfun}[ar]
\TerSig ...
               \cdots 1465 \newcommand{\tersig}{T}
                             1466 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
                             1467 \mbox{ } \mbox{newcommand{\tersym}{t}}
                             1468 \newcommand{\terset}{Tr}
                             1469 \cmdmthsetext{Ter}[\terset][\tersym]
                             1470 \usrmth{ter}{}{argfun}
\RelSig ...
               · · · 1471 \newcommand{\relsig}{R}
                             1472 \mbox{ } \mbox
                             1473 \mbox{ } \mbox{newcommand{\relsym}{r}}
                             1474 \newcommand{\relset}{R1}
                             1475 \cmdmthsetext{Rel}[\relset][\relsym]
                             1476 \usrmth{rel}{}{argfun}[rl]
           \skm ...
                            1477 \usrmth{skm}{}{argfun}
                             \verb|\ConStr ...
               \cdots 1479 \newcommand{\constr}{C}
                             1480 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr ...
               \cdots 1481 \newcommand{\funstr}{F}
                             1482 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr ...
                ··· 1483 \newcommand{\terstr}{T}
                             1484 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr ...
               \cdots 1485 \newcommand{\relstr}{R}
                             1486 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                             \DF ...
               \IF 1488 % Dependence-Friendly Logic
               · · · 1489 \cmdtxtoparname{DF}
                             1491 % Independence-Friendly Logic
                             1492 \cmdtxtoparname{IF}
                             1493
```

```
1494 % Dependence/Independence-Friendly Logic
      1495 \cmdtxtoparname{DIF}
      1496
      1497 % Dependence Logic
      1498 \cmdtxtoparname{DL}
      1499
      1500 % Team Logic
      1501 \cmdtxtoparname{TL}
      1503 % Alternating Dependence-Friendly Logic
      1504 \cmdtxtoparname{ADF}
      1506\,\% Alternating Independence-Friendly Logic
      1507 \cmdtxtoparname{AIF}
      1508
      1509\;\text{\%} Alternating Dependence/Independence-Friendly Logic
      1510 \cmdtxtoparname{ADIF}
      \LEExs ...
\LAAll _{1512} \newcommand{\leexssym}{\Sigma}
      1513 \usrmth{LEExs}{}{luop}[\leexssym]
      1514 \newcommand{\laallsym}{\Pi}
      1515 \usrmth{LAA11}{}{luop}[\laallsym]
      \SOL ...
  · · · 1518 % Second-Order Logic
      1519 \cmdtxtoparname{SOL}[Sol]
      1520 \cmdtxtoparname{SO}
      1522 % Weak Second-Order Logic
      1523 \DeclareRobustCommand{\WSOL}
          {{\txtname{W}}\SOL}
      1525 \DeclareRobustCommand{\WSO}
      1526 {{\txtname{W}}\SO}
      1527
      1528 % coWeak Second-Order Logic
      1529 \DeclareRobustCommand{\coWSOL}
           {{\txtname{coW}}\SOL}
      1531 \DeclareRobustCommand{\coWSO}
      1532
           {{\txtname{coW}}\SO}
      1533
      1534 % Monadic Second-Order Logic
      1535 \DeclareRobustCommand{\MSOL}
          {{\txtname{M}}\SOL}
      1537 \DeclareRobustCommand{\MSO}
           {{\txtname{M}}\SO}
      1538
      1540 % Weak Monadic Second-Order Logic
      1541 \DeclareRobustCommand{\WMSOL}
           {{\txtname{W}}\MSOL}
      1543 \DeclareRobustCommand{\WMSO}
      1544
           {{\txtname{W}}\MSO}
      1546 % coWeak Monadic Second-Order Logic
      1547 \DeclareRobustCommand{\coWMSOL}
      1548 \{\{\text{txtname}\{\text{coW}\}\}\}
```

```
1549 \DeclareRobustCommand{\coWMSO}
            {{\txtname{coW}}\MSO}
        \FVarSet ...
    \cdots 1552 \newcommand{\fvarsym}{x}
        1553 \newcommand{\fvarset}{FVr}
        1554 \verb|\cmdmthsetext{FVar}| [\texttt{\fvarset}] [\texttt{\fvarsym}]
\SVarSet ...
    ··· 1555 \newcommand{\svarsym}{X}
        1556 \newcommand{\svarset}{SVr}
        1557 \cmdmthsetext{SVar}[\svarset][\svarsym]
        \TL ...
    \CL _{1560}\,\% Tree Logic
    \label{eq:pl_1561} $$ \PL = 1561 \ \cmdtxtoparname{TL}
    ... 1562
        1563 % Weak Tree Logic
        1564 \DeclareRobustCommand{\WTL}
             {\{\text{txtname}\{W\}}\}\TL}
        1565
        1566
        1567 % coWeak Tree Logic
        1568 \DeclareRobustCommand{\coWTL}
             {{\txtname{coW}}\TL}
        1570
        1571 % Monadic Tree Logic
        1572 \DeclareRobustCommand{\MTL}
            {\{\text{Ntxtname}\{M\}}\
        1573
        1574
        1575 % Weak Monadic Tree Logic
        1576 \DeclareRobustCommand{\WMTL}
             {{\txtname{W}}\MTL}
        1577
        1578
        1579 % coWeak Monadic Tree Logic
        1580 \DeclareRobustCommand{\coWMTL}
        1581
             {{\txtname{coW}}\MTL}
        1582
        1583 % Chain Logic
        1584 \cmdtxtoparname{CL}
        1586 % Weak Chain Logic
        1587 \DeclareRobustCommand{\WCL}
             {{\txtname{W}}\CL}
        1590 % coWeak Chain Logic
        1591 \DeclareRobustCommand{\coWCL}
             {{\txtname{coW}}\CL}
        1592
        1594 % Monadic Chain Logic
        1595 \DeclareRobustCommand{\MCL}
        1596
             {{\txtname{M}}\CL}
        1598 % Weak Monadic Chain Logic
        1599 \DeclareRobustCommand{\WMCL}
        1600
             {{\txtname{W}}\MCL}
        1602 % coWeak Monadic Chain Logic
```

```
1603 \DeclareRobustCommand{\coWMCL}
     1604
         {{\txtname{coW}}\MCL}
     1605
     1606 % Path Logic
     1607 \cmdtxtoparname{PL}
     1609 % Weak Path Logic
     1610 \DeclareRobustCommand{\WPL}
         {\{\text{txtname}\{W\}}\PL\}
     1613 % coWeak Path Logic
     1614 \verb|\DeclareRobustCommand{\coWPL}|
         {{\txtname{coW}}\PL}
     1617 % Monadic Path Logic
     1618 \verb|\DeclareRobustCommand{\MPL}|
         {\{\text{txtname}\{M\}}\PL\}
     1619
     1620
     1621 % Weak Monadic Path Logic
     1622 \DeclareRobustCommand{\WMPL}
         {{\txtname{W}}\MPL}
     1625 % coWeak Monadic Path Logic
     1626 \DeclareRobustCommand{\coWMPL}
         {\{\text{txtname}\{\text{coW}\}\}}\
     \ML ...
 \GML _{1631}\,\% Modal Logic
 · · · 1632 \cmdtxtoparname{ML}
     1634 % Graded Modal Logic
     1635 \DeclareRobustCommand{\GML}
          {{\txtname{G}}\ML}
     1636
     1637
     1638 % Quantified Modal Logic
     1639 \DeclareRobustCommand{\QML}
          {{\txtname{Q}}\ML}
     1641 \DeclareRobustCommand{\EML}
         {\ensuremath{\exists}\ML}
     1643 \DeclareRobustCommand{\UML}
     1644 {\ensuremath{\forall}\ML}
     \Opr ...
     1646 \usrmth{Opr}{}{sym}[Op]
\DMod ...
\label{local_bound_bound} $$\BMod_{1647} \operatorname{LSYM}[\Delta]$
     1648 \operatorname{Mod}{sym}[\Box]
\Exs ...
\All _{1649} \DeclareRobustCommand{\Exs}
     1650 {\@ifstar{\@sexs}{\@exs}}
     1651 \DeclareRobustCommand{\@sexs}[1]
     1652 {\mth{\DMod}[#1]}
```

```
1653 \DeclareRobustCommand{\@exs}[1]
             {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}}
        1655 \DeclareRobustCommand{\All}
        1656 {\@ifstar{\@sall}{\@all}}
        1657 \DeclareRobustCommand{\@sall}[1]
        1658 {\mth{\BMod}[#1]}
        1659 \DeclareRobustCommand{\@all}[1]
            {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
        \KrpStr ...
    · · · 1662 \newcommand{\krpstr}{K}
        1663 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
\WrlSet ...
    · · · 1664 \newcommand{\wrlsym}{w}
        1665 \mbox{ } \mbox{newcommand{\wrlset}{W}}
        1666 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
        1667 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel ...
\verb| TrnRel |_{1668} \verb| \newcommand{\accsym}{R}|
        1669 \cmdmthrel{Acc}[\accsym]
        1670 \cmdmthrel{Trn}[\accsym]
\labFun ...
        1671 \newcommand{\labsym}{\labsym}{\labsym}
        1672 \mbox{cmdmthfun{lab}[\absym]}
\PthSet ...
    · · · 1673 \providecommand{\pthsym}{\pi}
        1674 \providecommand{\pthset}{Pth}
        1675 \cmdmthsetext{Pth} [\pthset] [\pthsym]
        1676 \usrmth{path}{}{argfun}
        \MC ...
   \GMC _{1678}\,\% Mu Calculus
    · · · 1679 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
        1681 % Graded Mu Calculus
        1682 \DeclareRobustCommand{\GMC}
            {\{\text{txtname}\{G\}\}\setminus MC\}}
        1683
        1684
        1685 % Quantified Mu Calculus
        1686 \DeclareRobustCommand{\QMC}
        1687 {{\txtname{Q}}}\MC}
        1688 \DeclareRobustCommand{\EMC}
        1689 {\ensuremath{\exists}\MC}
        1690 \DeclareRobustCommand{\UMC}
        1691
             {\ensuremath{\forall}\MC}
        1692
        1693 % Alternation-Free Mu Calculus
        1694 \verb|\DeclareRobustCommand{\AFMC}|
             {{\txtname{AF}}\MC}
        1695
        1696
        1697 % Alternation-Free Graded Mu Calculus
        1698 \DeclareRobustCommand{\AFGMC}
             {{\txtname{AF}}\GMC}
        1699
        1700
        1701 % Quantified Alternation-Free Mu Calculus
        1702 \DeclareRobustCommand{\QAFMC}
```

```
1703 \{\{\text{txtname}\{Q\}\}\setminus AFMC\}
   1704 \DeclareRobustCommand{\EAFMC}
   1705 {\ensuremath{\exists}\AFMC}
   1706 \DeclareRobustCommand{\UAFMC}
   1707 {\ensuremath{\forall}\AFMC}
   1708
   \PTL ...
\LTL _{1712}\,\% Propositional Temporal Logic
· · · 1713 \cmdtxtoparname{PTL}
   1714
   1715 % Quantified Propositional Temporal Logic
   1716 \DeclareRobustCommand{\QPTL}
       {{\txtname{Q}}\PTL}
   1718 \DeclareRobustCommand{\EPTL}
        {\ensuremath{\exists}\PTL}
   1720 \DeclareRobustCommand{\UPTL}
       {\ensuremath{\forall}\PTL}
   1723 % Linear Temporal Logic
   1724 \cmdtxtoparname{LTL}
   1726 % Quantified Linear Temporal Logic
   1727 \DeclareRobustCommand{\QLTL}
   1728 \{\{\text{txtname}\{Q\}\}\}\LTL\}
   1729 \DeclareRobustCommand{\ELTL}
   1730 {\ensuremath{\exists}\LTL}
   1731 \DeclareRobustCommand{\ULTL}
   1732 {\ensuremath{\forall}\LTL}
   \X ...
· · · 1734 \usrmth{X}{}{sym}[X\,]
   1735 \usrmth{F}{}{sym}[F\,]
   1736 \usrmth{G}{}{sym}[G\,]
   1737 \usrmth{U}{sym}[\,U\,]
   1738 \usrmth{R}{}{sym}[\,R\,]
 \Y ...
· · · 1739 \usrmth{Y}{}{sym}[G\,]
   1740 \t P}{}{sym}[P\,]\t SavePilcrow\P
   1741 \operatorname{H}{}{sym}[H\,]\left( \operatorname{SaveDoubleAcute} H \right)
   1742 \mbox{usrmth}{S}{{\sym}[\,S\,]\leq\SaveSectionSymbol}S
   1743 \usrmth{B}{}{sym}[\,B\,]
   \PDL ...
\CTL 1746 % Propositional Dynamic Logic
... 1747 \cmdtxtoparname{PDL}
   1748
   1749 % Computation Tree Logic
   1750 \cmdtxtoparname{CTL}
```

```
1751
    1752 % Weak Computation Tree Logic
    1753 \DeclareRobustCommand{\WCTL}
         {{\txtname{W}}\CTL}
    1754
    1755
    1756 % Quantified Computation Tree Logic
    1757 \DeclareRobustCommand{\QCTL}
         {\{\text{txtname}\{Q\}\}\CTL\}}
    1759 \DeclareRobustCommand{\ECTL}
         {\ensuremath{\exists}\CTL}
    1761 \DeclareRobustCommand{\UCTL}
         {\ensuremath{\forall}\CTL}
    1763
    1764\;\mbox{\ensuremath{\%}} 
 Improved Computation Tree Logic
    1765 \cmdtxtoparname{CTLP}[CTL$^{+}$]
    1767 % Weak Improved Computation Tree Logic
    1768 \DeclareRobustCommand{\WCTLP}
          {{\txtname{W}}\CTLP}
    1769
    1771 % Quantified Improved Computation Tree Logic
    1772 \DeclareRobustCommand{\QCTLP}
         {\{\text{txtname}\{Q\}\}\CTLP\}}
    1774 \DeclareRobustCommand{\ECTLP}
         {\ensuremath{\exists}\CTLP}
    1776 \DeclareRobustCommand{\UCTLP}
         {\ensuremath{\forall}\CTLP}
    1777
    1779 % Full Computation Tree Logic
    1780 \cmdtxtoparname{CTLS}[CTL*]
    1782 % Weak Full Computation Tree Logic
    1783 \DeclareRobustCommand{\WCTLS}
         {{\txtname{W}}\CTLS}
    1785
    1786 % Quantified Full Computation Tree Logic
    1787 \DeclareRobustCommand{\QCTLS}
         {\{\text{txtname}\{Q\}\}\}\
    1789 \DeclareRobustCommand{\ECTLS}
         {\ensuremath{\exists}\CTLS}
    1791 \DeclareRobustCommand{\UCTLS}
         {\ensuremath{\forall}\CTLS}
    \E ...
 \A 1794 \usrmth{E}{sym}
    1795 \usrmth{A}{}{sym}
    \ATL ...
 \cdots 1798 % Alternating Temporal Logic
    1799 \cmdtxtoparname{ATL}
    1801 % Weak Alternating Tree Logic
    1802 \DeclareRobustCommand{\WATL}
    1803
         {{\txtname{W}}\ATL}
    1805 % Quantified Alternating Temporal Logic
    1806 \DeclareRobustCommand{\QATL}
         {\{\text{txtname}\{Q\}\}\setminus ATL\}}
```

```
1808 \DeclareRobustCommand{\EATL}
            {\ensuremath{\exists}\ATL}
       1810 \DeclareRobustCommand{\UATL}
            {\ensuremath{\forall}\ATL}
       1811
       1812
       1813 % Improved Alternating Temporal Logic
       1814 \cmdtxtoparname{ATLP}[ATL$^{+}$]
       1816 % Weak Improved Alternating Tree Logic
       1817 \DeclareRobustCommand{\WATLP}
            {{\txtname{W}}\ATLP}
       1820 % Quantified Improved Alternating Temporal Logic
       1821 \DeclareRobustCommand{\QATLP}
            {{\txtname{Q}}\ATLP}
       1823 \DeclareRobustCommand{\EATLP}
            {\ensuremath{\exists}\ATLP}
       1825 \DeclareRobustCommand{\UATLP}
            {\ensuremath{\forall}\ATLP}
       1826
       1828 % Full Alternating Temporal Logic
       1829 \cmdtxtoparname{ATLS}[ATL*]
       1830
       1831 % Weak Full Alternating Tree Logic
       1832 \DeclareRobustCommand{\WATLS}
            {{\txtname{W}}\ATLS}
       1834
       1835 % Quantified Full Alternating Temporal Logic
       1836 \DeclareRobustCommand{\QATLS}
            {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
       1838 \DeclareRobustCommand{\EATLS}
            {\ensuremath{\exists}\ATLS}
       1840 \DeclareRobustCommand{\UATLS}
            {\ensuremath{\forall}\ATLS}
       \EExs ...
 \verb|AAll | 1843 \verb| DeclareRobustCommand{\EExs}[1]|
            {\mth{\argmid{\langle}!}} {\mth{\argmid{\langle}!}} } 
       1845 \DeclareRobustCommand{\AAll}[1]
            {\mth{\argmid{\left[\left[\}{\defval{#1}}{\right]\right]\}}
       \CGS ...
       1848 \cmdtxtname{CGS}
\CGSStr ...
   · · · 1849 \newcommand{\cgsstr}{G}
       1850 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet ...
   \cdots 1851 \newcommand{\agnsym}{a}
       1852 \mbox{ newcommand{\agnset}{Ag}}
       1853 \cmdmthsetext{Agn}[\agnset][\agnsym]
\ActSet ...
   \cdots 1854 \newcommand{\actsym}{c}
       1855 \verb|\newcommand{\actset}{Ac}|
       1856 \cmdmthsetext{Act}[\actset][\actsym]
\PosSet ...
   ··· 1857 \providecommand{\possym}{v}
```

```
1858 \providecommand{\posset}{Ps}
          1859 \cmdmthsetext{Pos}[\posset][\possym]
          1860 \cmdmthsymelm{ipos}[\possym_{I}]
          1861 \cmdmthsymelm{fpos}[\possym_{F}]
          1862 \cmdmthset{PPos}[\posset_{\PlrSym}]
          1863 \verb|\cmdmthsymelm{ppos}[\possym_{\PlrSym}]|
          1864 \cmdmthset{OPos}[\posset_{\OppSym}]
          1865 \cmdmthsymelm{opos}[\possym_{\OppSym}]
 \SttSet ...
     \cdots 1866 \newcommand{\sttsym}{s}
          1867 \verb|\newcommand{\sttset}{St}|
          1868 \cmdmthsetext{Stt}[\sttset][\sttsym]
          1869 \cmdmthset{IStt}[\sttset_{I}]
          1870 \cmdmthsymelm{istt}[\sttsym_{I}]
          1871 \cmdmthset{FStt}[\sttset_{F}]
          1872 \cmdmthsymelm{fstt}[\sttsym_{F}]
 \DecSet ...
     \cdots 1873 \newcommand{\decsym}{d}
          1874 \mbox{ } \mbox{lewcommand{\decset}{Dc}}
          1875 \cmdmthsetext{Dec} [\decset] [\decsym]
 \movFun ...
 \verb|\movRel||_{1876} \verb|\newcommand{\movsym}{{\tt tau}}|
          1877 \cmdmthfun{mov}[\movsym]
          1878 \cmdmthrel{mov}[\movsym]
 \trnFun ...
 \verb|\trnRel|_{1879} \verb|\newcommand{\trnsym}{\delta}|
          1880 \cmdmthfun{trn}[\trnsym]
          1881 \cmdmthrel{trn}[\trnsym]
 \PrfSet ...
          1882 \providecommand{\prfsym}{\xi}
          1883 \providecommand{\prfset}{Prf}
          1884 \cmdmthsetext{Prf}[\prfset][\prfsym]
 \HstSet ...
     ··· 1885 \providecommand{\hstsym}{\varpi}
          1886 \providecommand{\hstset}{Hst}
          1887 \cmdmthsetext{Hst}[\hstset][\hstsym]
          1888 \cmdmthset{PHst}[\hstset_{\PlrSym}]
          1889 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
          1890 \cmdmthset{OHst}[\hstset_{\OppSym}]
          1891 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
          1892 \mbox{ } \mbox{argfun} 
\PlaySet ...
     ··· 1893 \providecommand{\playsym}{\pi}
          1894 \providecommand{\playset}{Play}
          1895 \cmdmthsetext{Play}[\playset][\playsym]
          1896 \usrmth{play}{}{argfun}
 \PlnSet ...
     · · · 1897 \providecommand{\plnsym}{\rho}
          1898 \providecommand{\plnset}{Pln}
          1899 \cmdmthsetext{Pln}[\plnset][\plnsym]
          1900 \cmdmthset{PPln}[\plnset_{\PlrSym}]
          1901 \cmdmthsymelm{pPln}[\plnsym_{\PlrSym}]
          1902 \cmdmthset{OPln}[\plnset_{\OppSym}]
          1903 \cmdmthsymelm{oPln}[\plnsym_{\OppSym}]
```

```
\StrSet ...
    ··· 1904 \providecommand{\strsym}{\sigma}
       1905 \providecommand{\strset}{Str}
       1906 \cmdmthsetext{Str}[\strset][\strsym]
       1907 \cmdmthset{PStr}[\strset_{\PlrSym}]
       1908 \verb|\cmdmthsymelm{pstr}[\strsym_{\prox m}]|
       1909 \cmdmthset{OStr}[\strset_{\OppSym}]
       1910 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
       \PL ...
    · · · 1912 % Plan Logic
       1913 \cmdtxtoparname{PL}
       1914
       1915 \DeclareRobustCommand{\EPL}
             {\ensuremath{\exists}\PL}
       1917 \DeclareRobustCommand{\UPL}
       1918
             {\ensuremath{\forall}\PL}
       1919
       1920 \DeclareRobustCommand{\FPL}
             {\{\text{txtname}\{F\}}\PL\}
       1921
       1922
       1923 \DeclareRobustCommand{\EFPL}
             {\ensuremath{\exists}\FPL}
       1925 \DeclareRobustCommand{\UFPL}
             {\ensuremath{\forall}\FPL}
       1926
       1927
       1928 % One-Goal Plan Logic
       1929 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
             {\PL[#1][#2][1g\arglef{,}{#3}]}
       1930
       1931
       1932 \DeclareRobustCommand{\EOGPL}
             {\ensuremath{\exists}\OGPL}
       1934 \DeclareRobustCommand{\UOGPL}
             {\ensuremath{\forall}\OGPL}
       1935
       1937 \DeclareRobustCommand{\FOGPL}
       1938
             {{\txtname{F}}\OGPL}
       1940 \DeclareRobustCommand{\EFOGPL}
             {\ensuremath{\exists}\FOGPL}
       1942 \DeclareRobustCommand{\UFOGPL}
             {\ensuremath{\forall}\FOGPL}
       1943
       1944
       1945 % Conjunctive-Goal Plan Logic
       1946 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
             {\PL[#1][#2][cg\arglef{,}{#3}]}
       1949 \DeclareRobustCommand{\ECGPL}
             {\ensuremath{\exists}\CGPL}
       1951 \DeclareRobustCommand{\UCGPL}
       1952
             {\ensuremath{\forall}\CGPL}
       1953
       1954 \DeclareRobustCommand{\FCGPL}
             {{\txtname{F}}\CGPL}
       1955
       1956
       1957 \DeclareRobustCommand{\EFCGPL}
             {\ensuremath{\exists}\FCGPL}
       1959 \DeclareRobustCommand{\UFCGPL}
        1960
             {\ensuremath{\forall}\FCGPL}
       1961
       1962 % Disjunctive-Goal Plan Logic
```

1963 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]

```
1964
      {\PL[#1][#2][dg\arglef{,}{#3}]}
1965
1966 \DeclareRobustCommand{\EDGPL}
1967
      {\ensuremath{\exists}\DGPL}
1968 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
1969
1970
1971 \DeclareRobustCommand{\FDGPL}
      {{\txtname{F}}\DGPL}
1974 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
1976 \DeclareRobustCommand{\UFDGPL}
      {\ensuremath{\forall}\FDGPL}
1977
1978
1979 % Alternating-Goal Plan Logic
1980 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][ag\arglef{,}{#3}]}
1981
1982
1983 \DeclareRobustCommand{\EAGPL}
      {\ensuremath{\exists}\AGPL}
1985 \DeclareRobustCommand{\UAGPL}
1986
      {\ensuremath{\forall}\AGPL}
1987
1988 \DeclareRobustCommand{\FAGPL}
      \{\{\texttt{T}}\} \setminus \texttt{AGPL}\}
1989
1990
1991 \DeclareRobustCommand{\EFAGPL}
      {\ensuremath{\exists}\FAGPL}
1993 \DeclareRobustCommand{\UFAGPL}
      {\ensuremath{\forall}\FAGPL}
1994
1996 % Extended-Goal Plan Logic
1997 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
1998
      {\PL[#1][#2][eg\arglef{,}{#3}]}
1999
2000 \DeclareRobustCommand{\EEGPL}
      {\ensuremath{\exists}\EGPL}
2002 \DeclareRobustCommand{\UEGPL}
      {\ensuremath{\forall}\EGPL}
2005 \DeclareRobustCommand{\FEGPL}
2006
      {\{\text{txtname}\{F\}\}\setminus EGPL\}}
2007
2008 \DeclareRobustCommand{\EFEGPL}
     {\ensuremath{\exists}\FEGPL}
2010 \DeclareRobustCommand{\UFEGPL}
     {\ensuremath{\forall}\FEGPL}
2011
2012
2013 % Boolean-Goal Plan Logic
2014 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][bg\arglef{,}{#3}]}
2017 \DeclareRobustCommand{\EBGPL}
      {\ensuremath{\exists}\BGPL}
2019 \DeclareRobustCommand{\UBGPL}
2020
      {\ensuremath{\forall}\BGPL}
2021
2022 \DeclareRobustCommand{\FBGPL}
      {{\txtname{F}}\BGPL}
2023
2024
2025 \DeclareRobustCommand{\EFBGPL}
      {\ensuremath{\exists}\FBGPL}
```

```
2027 \DeclareRobustCommand{\UFBGPL}
    2028
          {\ensuremath{\forall}\FBGPL}
    2029
    2030 \% Undefined-Goal Plan Logic
    2031 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
          {\PL[#1][#2][xg\arglef{,}{#3}]}
    2032
    2033
    2034 \DeclareRobustCommand{\EXGPL}
    2035 {\ensuremath{\exists}\XGPL}
    2036 \DeclareRobustCommand{\UXGPL}
          {\ensuremath{\forall}\XGPL}
    2038
    2039 \DeclareRobustCommand{\FXGPL}
          {\{\text{txtname}\{F\}\}\setminus XGPL\}}
    2040
    2041
    2042 \DeclareRobustCommand{\EFXGPL}
          {\ensuremath{\exists}\FXGPL}
    2044 \DeclareRobustCommand{\UFXGPL}
          {\ensuremath{\forall}\FXGPL}
\SL ...
\cdots 2046 % Strategy Logic
    2047 \cmdtxtoparname{SL}
    2048
    2049 \DeclareRobustCommand{\ESL}
          {\ensuremath{\exists}\SL}
    2050
    2051 \DeclareRobustCommand{\USL}
    2052
          {\ensuremath{\forall}\SL}
    2053
    2054 \DeclareRobustCommand{\FSL}
          {\{\text{txtname}\{F\}\}\SL\}}
    2056
    2057 \DeclareRobustCommand{\EFSL}
          {\ensuremath{\exists}\FSL}
    2059 \DeclareRobustCommand{\UFSL}
          {\ensuremath{\forall}\FSL}
    2060
    2061
    2062 % One-Goal Strategy Logic
    2063 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
          {\SL[#1][#2][1g\arglef{,}{#3}]}
    2065
    2066 \DeclareRobustCommand{\EOGSL}
          {\ensuremath{\exists}\OGSL}
    2068 \DeclareRobustCommand{\UOGSL}
          {\ensuremath{\forall}\OGSL}
    2069
    2070
    2071 \DeclareRobustCommand{\FOGSL}
         {\{\text{txtname}\{F\}\}\setminus GGSL}
    2072
    2073
    2074 \DeclareRobustCommand{\EFOGSL}
    2075 {\ensuremath{\exists}\FOGSL}
    2076 \DeclareRobustCommand{\UFOGSL}
    2077
          {\ensuremath{\forall}\FOGSL}
    2078
    2079\ \% Conjunctive-Goal Strategy Logic
    2080 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
          {\SL[#1][#2][cg\arglef{,}{#3}]}
    2081
    2082
    2083 \DeclareRobustCommand{\ECGSL}
          {\ensuremath{\exists}\CGSL}
    2085 \DeclareRobustCommand{\UCGSL}
          {\ensuremath{\forall}\CGSL}
    2088 \DeclareRobustCommand{\FCGSL}
```

```
2089
      {{\txtname{F}}\CGSL}
2090
2091 \DeclareRobustCommand{\EFCGSL}
2092
     {\ensuremath{\exists}\FCGSL}
2093 \DeclareRobustCommand{\UFCGSL}
     {\ensuremath{\forall}\FCGSL}
2094
2095
2096 % Disjunctive-Goal Strategy Logic
2097 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2099
2100 \DeclareRobustCommand{\EDGSL}
     {\ensuremath{\exists}\DGSL}
2102 \DeclareRobustCommand{\UDGSL}
     {\ensuremath{\forall}\DGSL}
2103
2104
2105 \DeclareRobustCommand{\FDGSL}
     {{\txtname{F}}\DGSL}
2106
2107
2108 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
2110 \DeclareRobustCommand{\UFDGSL}
2111
      {\ensuremath{\forall}\FDGSL}
2112
2113 % Alternating-Goal Strategy Logic
2114 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
2115
      {\SL[#1][#2][ag\arglef{,}{#3}]}
2116
2117 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
2119 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
2122 \DeclareRobustCommand{\FAGSL}
     {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2123
2124
2125 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
2127 \DeclareRobustCommand{\UFAGSL}
2128
      {\ensuremath{\forall}\FAGSL}
2130 % Extended-Goal Strategy Logic
2131 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][eg\arglef{,}{#3}]}
2133
2134 \DeclareRobustCommand{\EEGSL}
2135
     {\ensuremath{\exists}\EGSL}
2136 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
2137
2138
2139 \DeclareRobustCommand{\FEGSL}
     {{\txtname{F}}\EGSL}
2142 \DeclareRobustCommand{\EFEGSL}
     {\ensuremath{\exists}\FEGSL}
2144 \DeclareRobustCommand{\UFEGSL}
2145
      {\ensuremath{\forall}\FEGSL}
2146
2147 % Boolean-Goal Strategy Logic
2148 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
2149
      {\SL[#1][#2][bg\arglef{,}{#3}]}
2150
2151 \DeclareRobustCommand{\EBGSL}
```

```
{\ensuremath{\exists}\BGSL}
      2153 \DeclareRobustCommand{\UBGSL}
      2154
           {\ensuremath{\forall}\BGSL}
      2156 \DeclareRobustCommand{\FBGSL}
           {{\txtname{F}}\BGSL}
      2157
      2158
      2159 \DeclareRobustCommand{\EFBGSL}
      2160 {\ensuremath{\exists}\FBGSL}
      2161 \DeclareRobustCommand{\UFBGSL}
           {\ensuremath{\forall}\FBGSL}
      2164 % Nested-Goal Strategy Logic
      2165 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
           {\SL[#1][#2][ng\arglef{,}{#3}]}
      2167
      2168 \DeclareRobustCommand{\ENGSL}
           {\ensuremath{\exists}\NGSL}
      2169
      2170 \DeclareRobustCommand{\UNGSL}
           {\ensuremath{\forall}\NGSL}
      2173 \DeclareRobustCommand{\FNGSL}
      2174
           {{\txtname{F}}\NGSL}
      2175
      2176 \DeclareRobustCommand{\EFNGSL}
           {\ensuremath{\exists}\FNGSL}
      2177
      2178 \DeclareRobustCommand{\UFNGSL}
           {\ensuremath{\forall}\FNGSL}
      2180
      2181 % Undefined-Goal Strategy Logic
      2182 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
           {\SL[#1][#2][xg\arglef{,}{#3}]}
      2184
      2185 \DeclareRobustCommand{\EXGSL}
      2186 {\ensuremath{\exists}\XGSL}
      2187 \DeclareRobustCommand{\UXGSL}
           {\ensuremath{\forall}\XGSL}
      2188
      2189
      2190 \DeclareRobustCommand{\FXGSL}
      2191
           {{\txtname{F}}\XGSL}
      2192
      2193 \DeclareRobustCommand{\EFXGSL}
      2194 {\ensuremath{\exists}\FXGSL}
      2195 \DeclareRobustCommand{\UFXGSL}
           {\ensuremath{\forall}\FXGSL}
      \BndSet ...
   · · · 2198 \newcommand{\bndsym}{\flat}
      2199 \newcommand{\bndset}{Bn}
      2200 \cmdmthsetext{Bnd}[\bndset][\bndsym]
      2201 \cmdmthsymelm{idbnd}[\bndsym_{\text{id}}]
      2202 \usrmth{bnd}{}{argfun}
  \psn ...
      2203 \usrmth{psn}{}{argfun}
      \nxt ...
      2205 \mbox{ } \mbox{argfun}
```

```
2211 \ifaut@
                                      \DFA ...
                       \cdots 2213 \texttt{ Cmdtxtoparname{DFA}\backslash cmdtxtoparname{NFA}\backslash cmdtxtoparname{AFA}} \\
                                     2215 \texttt{\cmdtxtoparname{NWA}\cmdtxtoparname{WA}\cmdtxtoparname{AWA}}
                                     2217 \cmdtxtoparname{DFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}
                                     2218 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}\cmdtxtoparname{AWW}
                                     2219 \cmdtxtoparname{DBW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
                                     2220 \verb|\cmdtxtoparname{DCW}| cmdtxtoparname{UCW}| cmdtxtoparname{ACW}| cmdtxtoparname{ACW}|
                                     2221 \verb|\cmdtxtoparname{NPW}| cmdtxtoparname{MPW}| cmdtxtoparname{MPW}|
                                     2222 \verb|\cmdtxtoparname{NRW}| cmdtxtoparname{URW}| cmdtxtoparname{ARW}| cmdtxtoparname{ARW}|
                                      2223 \cmdtxtoparname{DSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}
                                     2224 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
                 \GFG ...
                      ··· 2225 \cmdtxtoparname{GFG}
                                     2227 \cmdtxtoparname{PD}
                                     2228 \cmdtxtoparname{PN}
                                     2220
                                     2230 \cmdtxtoparname{LD}
                                     2231 \verb|\cmdtxtoparname{LN}|
                                      \AutName ...
                      \cdots 2233 \newcommand{\autname}{A}
                                      2234 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                      2235 \newcommand{\autset}{Aut}
                                      2236 \cmdmthset{Aut}[\autset]
\WAutSet ...
                                      2237 \newcommand{\wautset}{WAut}
                                     2238 \cmdmthset{WAut}[\wautset]
    \SymSet ...
                     · · · 2239 \newcommand{\symsym}{\sigma}
                                      2240 \mbox{ \newcommand{\symset}{\Sigma}}
                                      2241 \cmdmthsetext{Sym}[\symset][\symsym]
    \SttSet ...
                      ··· 2242 \providecommand{\sttsym}{q}
                                      2243 \providecommand{\sttset}{Q}
                                      2244 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                      2245 \cmdmthset{IStt}[\sttset_{I}]
                                      2246 \cmdmthsymelm{istt}[\sttsym_{I}]
                                      2247 \cmdmthset{FStt}[\sttset_{F}]
                                      2248 \cmdmthsymelm{fstt}[\sttsym_{F}]
    \trnFun ...
    \trnRel 2249 \providecommand{\trnsym}{\delta}
                                      2250 \cmdmthfun{trn}[\trnsym]
                                      2251 \cmdmthrel{trn}[\trnsym]
```

```
\WrdSet ...
       \cdots 2253 \newcommand{\wrdsym}{w}
            2254 \mbox{ }\mbox{newcommand{\wrdset}{Wr}}
            2255 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
    \Lang ...
            2256 \usrmth{Lang}{}{argfun}[L]
            \DTA ...
        \cdots 2258 \texttt{Cmdtxtoparname{DTA}\backslash cmdtxtoparname{NTA}\backslash cmdtxtoparname{ATA}} \\
            2260 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
            2261 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}\cmdtxtoparname{UWT}\cmdtxtoparname{AWT}
            2262 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
            2263 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
            2264 \cmdtxtoparname{DPT}\cmdtxtoparname{UPT}\cmdtxtoparname{APT}
            2265 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{QRT}| \\
            2266 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| cmdtxtoparname{AST}| 
            2267 \verb|\cmdtxtoparname{NMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}| \\
            \TAutSet ...
            2269 \newcommand{\tautset}{TAut}
            2270 \cmdmthset{TAut}[\tautset]
 \DirSet ...
       ··· 2271 \newcommand{\dirsym}{d}
            2272 \newcommand{\dirset}{\Lambda}
            2273 \cmdmthsetext{Dir}[\dirset][\dirsym]
            \TreeSet ...
       ··· 2275 \newcommand{\treesym}{T}
             2276 \newcommand{\treeset}{Tr}
            2277 \cmdmthsetext{Tree} [\treeset] [\treesym]
     \wot. ...
            2278 \usrmth{wot}{}{argfun}
            2279 \fi
            2284 \iffrm@
       2285 %%...
            2286 \fi
            2291 \iffig@
            2292 \RequirePackage{tikz}
            2293 \usetikzlibrary{arrows, shapes, patterns, graphs, matrix}
```

```
2295 [draw = none, fill = none, black, thin]
      2296 \tikzstyle{every edge} +=
      2297 [black, thick]
      2298 \tikzstyle{noall} =
      2299 [draw = none, fill = none]
      2300 \tikzstyle{nodraw} =
      2301 [draw = none, fill = white]
      2302 \tikzstyle{nofill} =
      2303 [draw = black, fill = none]
      2304 \ifwrpfig@
      2305 % Wrapfig Package
          \RequirePackage{wrapfig}
      2306
      2307 \fi
      2308 \fi
      2313 \iftab@
    2314 %%...
      2315 \fi
      2320 \ifalg@
      2321 \RequirePackage[ruled,vlined]{algorithm2e}
      2322 \DontPrintSemicolon
      2323 \SetInd{0.25em}{0.5em}
      2324 \verb|\setlength{\algomargin}{1.25em}|
\Signature ...
      2325 \SetKw{Signature}{signature}
  \Macro ...
    ··· 2326 \SetKwFor{Macro}{macro}{}}
      2327 \SetKwFor{Function}{function}{}}
      2328 \SetKwFor{Procedure}{procedure}{}{
   \Let ...
      2329 \SetKwFor{Let}{let}{in}{}
   \True ...
  \False _{2330} \SetKw{True}{true}
      2331 \SetKw{False}{false}
   \From ...
    · · · 2332 \SetKw{From}{from}
      2333 \SetKw{To}{to}
      2334 \SetKw{DownTo}{downto}
   \GoTo ...
    · · · 2335 \SetKw{GoTo}{goto}
      2336 \SetKw{Break}{break}
      2337 \SetKw{Continue}{continue}
```

2294 \tikzstyle{every node} =

```
\(\text{Guess}\) \(\tex
```

## 2 Change History

v0.0	v0.22
General: First public release 1	General: Few additions $\dots \dots \dots$
v0.1	v0.23
General: Algorithm tricks 1	General: New 'Graphs' section and small
v0.10	$improvements \dots 1$
General: Small refinements 1	v0.24
v0.11	General: Correction of fragile macros 1
General: Few additions and corrections $\dots$ 1	v0.25
v0.12	General: Few additions and corrections 1
General: New starred variants	v0.26
v0.13	General: Few additions
General: Further starred variants 1	v0.27
v0.14	General: Small addition to 'Algorithm tricks' 1
General: Few additions and corrections $\dots$ 1	v0.28
v0.15	General: Few additions
General: Refactoring of dtx sources 1	General: Few problems solved 1
v0.16	v0.4
General: Small refinements and few additions 1	General: Refactoring, corrections, and
v0.17	extensions 1
General: Few additions $\dots \dots \dots$	v0.5
v0.18	General: Figure tricks
General: Few new starred variants $\dots 1$	v0.6
v0.19	General: Small refinements 1
General: Additional starred variants 1	v0.7
v0.2	General: Refinements, corrections, and
General: Changes in 'Auxiliary tricks' 1	extensions
v0.20	v0.8
General: New binary operators 1	General: Few refinements and corrections $\dots$ 1
v0.21	v0.9
General: Refactoring of function macros $\ \ldots \ 1$	General: Small addition to 'Algorithm tricks' 1

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

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\@newtxtoarg 324, 325	\@tupler 973	\arg <u>1132</u>
\@newtxtoargsty 330, 331	\@tuplex 977	\arglef <u>157</u> , 164, 427,
\@newtxtopar 348, 349	\@tuplex1 981	451, 1930, 1947, 1964,
\@newtxtoparsty 354, 355	\@tuplexr 985	1981, 1998, 2015, 2032,
\@newtxtpar 336, 337	\@vec 932, 933	2064, 2081, 2098, 2115,
\@newtxtparsty \cdots \\ $342$ , $343$	\^ 860, 862	2132, 2149, 2166, 2183
\@newtxtsty 306, 307	\'	\argmid 161, 314, 316,
\@norm 1114, 1115	\	338, 340, 427, 429, 451,
1100 1111		
\@sabs 1108, 1111	٨	
\@sall 1656, 1657	A 1704	453, 919, 921, 994, 996,
	\A	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012,
\@sall 1656, 1657	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112,
\@sall 1656, 1657 \@scard 1014, 1017	$\begin{array}{ccccc} \texttt{\colored{A}} & & & & & \underline{1794} \\ \texttt{\colored{A}} & & & & \underline{1843} \\ \texttt{\colored{Abs}} & & & & & \underline{1107} \\ \end{array}$	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124,
\@sall 1656, 1657 \@scard 1014, 1017 \@sceil 1126, 1129	$\begin{array}{cccc} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153,
\@scard	$\begin{array}{cccc} \texttt{\colored} & & & & & & & & \\ \texttt{\colored} & & & & & & & \\ \texttt{\colored} & & & & & & & \\ \texttt{\colored} & & & & & & \\ \texttt{\colored} & & & & & & \\ \texttt{\colored} & & \\ \texttt{\colored} & & & \\ \texttt{\colored} & $	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846
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\\ \text{@scard} \ \text{.1656}, 1657 \\ \text{\center} \text{\center} \text{.1014}, 1017 \\ \text{\center} \text{\center} \text{.1126}, 1129 \\ \text{\center} \text{\center} \text{.1129} \\ \text{\center} \text{\center} \text{\center} \text{.1129} \\ \text{\center} \text{\center} \text{\center} \text{\center} \text{\center} \text{\center} \text{\center} \text{\center} \\ \text{\center} \text{\center} \text{\center} \\ \text{\center} \text{\center} \\ \text{\center} \text{\center} \\	$\begin{array}{ccccc} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig
\\( \text{\mathematical} \text	$\begin{array}{ccccc} \texttt{ \A} & & & & & & & & \\ \texttt{ \AA11} & & & & & & & \\ \texttt{ \Abs} & & & & & & & \\ \texttt{ \Abs} & & & & & & \\ \texttt{ \AccRel} & & & & & & \\ \texttt{ \Accsym} & & & & & & \\ \texttt{ \Accsym} & & & & & & \\ \texttt{ \ActSet} & & & & & & \\ \texttt{ \ActSet} & & & & & & \\ \texttt{ \Actset} & & & & & & \\ \texttt{ \Actset} & & & & & & \\ \texttt{ \Actset} & & & & & & \\ \texttt{ \Actset} & & & & & & \\ \texttt{ \Actset} & & & & & & \\ \texttt{ \Actset} & & $	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig
\\( \text{\mathematical} \text	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig \cdots \frac{159}{2} \argsep \cdots \frac{163}{2}, 168, 994, 996, 1099, 1101, 1103, 1105 \aset \cdots \frac{657}{2}
\\ \text{\mathrm{Qsall}} \ \text{\mathrm{1656}, 1657} \\ \text{\mathrm{Qscard}} \ \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \ \text{\mathrm{1126}, 1129} \\ \text{\mathrm{Qsdenot}} \ \ \text{\mathrm{Qsequence}} \ \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \ \ \text{\mathrm{941}} \\ \text{\mathrm{Qsequencer}} \ \ \ \text{\mathrm{945}} \\ \text{\mathrm{Qsequencex}} \ \ \ \text{\mathrm{953}} \\ \text{\mathrm{Qsequencexl}} \ \ \ \text{\mathrm{957}} \\ \text{\mathrm{Qsequencexr}} \ \ \ \ \text{\mathrm{961}} \\ \text{\mathrm{05equencexr}} \ \ \ \ \text{\mathrm{961}} \\ \text{\mathrm{05equencexr}} \ \ \ \ \ \text{\mathrm{961}} \\ \text{\mathrm{05equencexr}} \ \ \ \ \ \ \text{\mathrm{961}} \\ \text{\mathrm{05equencexr}} \ \ \ \ \ \ \ \text{\mathrm{961}} \\ \text{\mathrm{05equencexr}} \ \ \ \ \ \ \text{\mathrm{06equencexr}} \ \ \ \ \ \ \ \text{\mathrm{961}} \\ \text{\mathrm{06equencexr}} \ \ \ \ \ \ \ \ \ \text{\mathrm{06equencexr}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig \cdots \frac{159}{2} \argsep \cdots \frac{163}{2}, 168, 994, 996, 1099, 1101, 1103, 1105 \asset \cdots \frac{657}{2} \AsgSet \cdots \frac{1431}{2}
\\ \text{\mathrm{Qsall}} \ \ \text{\mathrm{1656}, 1657} \\ \text{\mathrm{Qscard}} \ \ \ \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \ \ \ \ \ \text{\mathrm{Qsdenot}} \ \ \ \ \ \text{\mathrm{Qsequence}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846    \argrig \ldots \frac{159}{2} \argsep \ldots \frac{163}{2}, 168, 994, 996, 1099, 1101, 1103, 1105    \asgset \ldots \frac{657}{2} \asgset \ldots \frac{1431}{2} \asgset \ldots \frac{1432}{2}, 1433
\\ \text{\mathrm{Qsall}} \ \ \text{\mathrm{1656}, 1657} \\ \text{\mathrm{Qscard}} \ \ \ \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \ \ \ \ \ \ \text{\mathrm{Qsdenot}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846   \argrig \ldots \frac{159}{2} \argsep \ldots \frac{163}{2}, 168, 994, 996, 1099, 1101, 1103, 1105   \asgset \ldots \frac{657}{2} \AsgSet \ldots \frac{1431}{2} \asgset \dots \dots \frac{1431}{2} \asgset \dots \
\\ \text{\mathematical}	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846   Argrig
\\ \text{\mathematical}	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846   \argrig \ldots \frac{159}{2} \argsep \ldots \frac{163}{2}, 168, 994, 996, 1099, 1101, 1103, 1105   \asgset \ldots \frac{657}{2} \AsgSet \ldots \frac{1431}{2} \asgset \dots \dots \frac{1431}{2} \asgset \dots \
\\ \text{\mathematical}	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846   Argrig
\@sall	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgsym 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSnt 757
\\ \text{@scard} \ \text{1014}, \text{1017} \\ \text{\center} \tex	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSht 757 \aStr 644
\\ \text{\mathrm{Qscall}} \ \text{\mathrm{Gscard}} \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \text{\mathrm{1126}, 1129} \\ \text{\mathrm{Qsdenot}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \text{\mathrm{941}} \\ \text{\mathrm{Qsequencer}} \ \ \text{\mathrm{945}} \\ \text{\mathrm{Qsequencex}} \ \ \text{\mathrm{949}} \\ \text{\mathrm{Qsequencex}} \ \ \text{\mathrm{957}} \\ \text{\mathrm{Qsequencexr}} \ \ \text{\mathrm{990}, 992, 993} \\ \text{\mathrm{Qset}} \ \text{\mathrm{998}, 1000, 1001} \\ \text{\mathrm{Qsetr}} \ \ \text{\mathrm{998}, 1008, 1009} \\ \text{\mathrm{Qsexs}} \ \ \text{\mathrm{1066}, 1068, 1009} \\ \text{\mathrm{Qsexs}} \ \ \text{\mathrm{1120}, 1123} \\ \text{\mathrm{Qslen}} \ \text{\mathrm{1149}, 1152} \\ \text{\mathrm{Qsnewmth}} \ \ \text{\mathrm{413}, 416} \\ \text{\mathrm{Qsnewmtharg}} \ \ \text{\mathrm{425}, 428} \end{\text{\mathrm{425}, 428}} \end{\text{\mathrm{680}}} \text{\mathrm	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \aSig 631 \aSht 757 \aStr 644 \aSym 702
\\ \text{\mathrm{Qscall}} \ \text{\mathrm{Gscard}} \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \text{\mathrm{1126}, 1129} \\ \text{\mathrm{Qsdenot}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \text{\mathrm{941}} \\ \text{\mathrm{Qsequencer}} \ \ \text{\mathrm{945}} \\ \text{\mathrm{Qsequencex}} \ \ \text{\mathrm{949}} \\ \text{\mathrm{Qsequencex}} \ \ \text{\mathrm{957}} \\ \text{\mathrm{Qsequencexr}} \ \ \text{\mathrm{99}, 992, 993} \\ \text{\mathrm{Qsetl}} \ \text{\mathrm{998}, 1000, 1001} \\ \text{\mathrm{Qsetr}} \ \ \text{\mathrm{998}, 1000, 1001} \\ \text{\mathrm{Qsetr}} \ \ \text{\mathrm{96100}} \\ \text{\mathrm{Qsexs}} \ \ \text{\mathrm{1120}, 1123} \\ \text{\mathrm{Qslen}} \ \text{\mathrm{1149}, 1152} \\ \text{\mathrm{Qsnewmth}} \ \ \text{\mathrm{413}, 416} \\ \text{\mathrm{Qsnewmtharg}} \ \ \text{\mathrm{425}, 428} \\ \text{\mathrm{Qsnewmthargsty}} \ \ \text{\mathrm{431}, 434} \end{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{431}} \text{\mathrm{434}} \end{\mathrm{431}} \text{\mathrm{431}} \math	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig
\\ \text{\mathrm{Qscarl}} \ \text{\mathrm{Cscard}} \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \text{\mathrm{1126}, 1129} \\ \text{\mathrm{Qsceil}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \ \text{\mathrm{941}} \\ \text{\mathrm{Qsequencer}} \ \ \text{\mathrm{945}} \\ \text{\mathrm{Qsequencex}} \ \ \ \text{\mathrm{949}} \\ \text{\mathrm{Qsequencex}} \ \ \ \ \text{\mathrm{957}} \\ \text{\mathrm{Qsequencexr}} \ \ \ \ \ \text{\mathrm{990}, 992, 993} \\ \text{\mathrm{Qset1}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asgsym 1431, 1433 \asgsym 631 \aSht 644 \asym 644 \asym
\\ \text{\mathrm{Qscarl}} \ \text{\mathrm{Cscard}} \ \text{\mathrm{1014}, 1017} \\ \text{\mathrm{Qsceil}} \ \text{\mathrm{1126}, 1129} \\ \text{\mathrm{Qsceil}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \text{\mathrm{917}, 920} \\ \text{\mathrm{Qsequence}} \ \ \text{\mathrm{941}} \\ \text{\mathrm{Qsequencer}} \ \ \text{\mathrm{945}} \\ \text{\mathrm{Qsequencex}} \ \ \ \text{\mathrm{949}} \\ \text{\mathrm{Qsequencex}} \ \ \ \ \text{\mathrm{957}} \\ \text{\mathrm{Qsequencexr}} \ \ \ \ \ \text{\mathrm{990}, 992, 993} \\ \text{\mathrm{Qsetl}} \ \ \ \ \ \ \text{\mathrm{998}, 1000, 1001} \\ \text{\mathrm{Qsetr}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asgsym 1431, 1433 \asgsym 631 \aSnt
\\( \text{\mathematical} \text	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSnt 644 \aSym 644 \aSym 644 \aSym
\\ \text{\mathrm{Qscarl}} \ \text{\mathrm{Cscard}} \ \text{\mathrm{1014}, 1017} \ \text{\mathrm{Qsceil}} \ \text{\mathrm{1126}, 1129} \ \text{\mathrm{Qsceil}} \ \text{\mathrm{917}, 920} \ \text{\mathrm{Qsequence}} \ \text{\mathrm{917}, 920} \ \text{\mathrm{Qsequence}} \ \ \text{\mathrm{941}} \ \text{\mathrm{Qsequencer}} \ \ \text{\mathrm{945}} \ \text{\mathrm{Qsequencex}} \ \ \ \text{\mathrm{945}} \ \text{\mathrm{Qsequencex}} \ \ \ \ \text{\mathrm{957}} \ \text{\mathrm{Qsequencexr}} \ \ \ \ \ \ \text{\mathrm{990}, 992, 993} \ \text{\mathrm{Qsetl}} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \aSig 631 \aSht 757 \aStr 644 \aSym
\\( \text{\mathematical} \text	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSnt 644 \aSym 644 \aSym
\\( \text{\mathematical} \text	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \Atheta 1054 \ATL 1798 \ATLP 1818, 1822, 1824, 1826 \ATLS 1833, 1837, 1839, 1841 \atr 1313 \aut@false 56, 62, 98, 100 \aut@true 99
\\( \text{\mathematical} \text	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \Atheta 1054 \ATL 1798 \ATLP 1818, 1822, 1824, 1826 \ATLS 1833, 1837, 1839, 1841 \atr 1313 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2233
\\( \text{\mathematical} \text	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig 631 \aSnt 757 \aStr 644 \aSym 702 \ATheta 1054 \Atheta 1054 \Atheta 1054 \ATL 1798 \ATLP 1818, 1822, 1824, 1826 \ATLS 1833, 1837, 1839, 1841 \atr 1313 \aut@false 56, 62, 98, 100 \aut@true 99 \AutName 2233 \autname 2233 \autname 2233 \autname 2233
\\ \text{\tex{\tex	\A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	453, 919, 921, 994, 996, 1002, 1004, 1010, 1012, 1016, 1018, 1110, 1112, 1116, 1118, 1122, 1124, 1128, 1130, 1151, 1153, 1654, 1660, 1844, 1846 \argrig 159 \argsep 163, 168, 994, 996, 1099, 1101, 1103, 1105 \aSet 657 \AsgSet 1431 \asgset 1432, 1433 \asgsym 1431, 1433 \asig
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В	\cmdmthluop <u>746</u>	1268, 1289, 1297, 1301,
\BF1371	\cmdmthmat	1308, 1342, 1361, 1406,
\bfseries	\cmdmthname 593	1416, 1430, 1433, 1449,
\BG1318	\cmdmthoarg 494, 504	1456, 1462, 1469, 1475,
\BGPL 2014, 2018, 2020, 2023	\cmdmthoargcls 623	1554, 1557, 1666, 1675,
\bgroup 171	\cmdmthoargelm 720, 735	1853, 1856, 1859, 1868,
\BGSL 2148, 2152, 2154, 2157	\cmdmthoargfam 610	1875, 1884, 1887, 1895,
\BMod <u>1647</u> , 1658, 1660	\cmdmthoargfrm 775	1899, 1906, 2200, 2241,
\BndSet 2198	\cmdmthoargfun 694	2244, 2255, 2273, 2277
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