fmocdmac — FM's OCD LATEX Macro*

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Abstract

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

1 Implementation & Usage

 $1 \langle *package \rangle$

Required external packages:

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

Package options:

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

^{*}This document describes version v0.18 of the fmocdmac package, last revised 2023/05/24.

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

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

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

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

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

```
\iflinnum@
                           267
                           268
                                       % Line Numbers
                           269
                                       \if@twocolumn
                                           \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                           270
                           271
                                           \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                           272
                                       \fi
                           273
                                   \fi
                           274
                           275
                           276
                                   %%...
                           278 \fi
                           279
                           280 \fi
                           \mathbbo Bbo Math Font: ... to do!
                           285 \left\{ \mathbf{Mathbbo}_{\ mathbbo}_{\ mathbboo}_{\ mathbb
        \matheus Eus Math Font: ... to do!
                           286 \left\{ \mathbb{U}_{matheus} \right\} \\
        \mathpzc Pzc Math Font: ... to do!
                           287 \left\{ \mathbf{T1}_{pzc}_{m}_{it} \right\}
        \mathscr Scr Math Font: ... to do!
                           288 \ifdef{\mathscr}{}{\DeclareMathAlphabet{\mathscr}{U}{rsfs}{m}{n}}
                           \newtxt ... to do!
                               • \newtxt[\rmfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                               • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                               293 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
                           294 {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
     \newtxtsty ... to do!
                               • \mbox{\mbox{$Name} [sub] [sup] [Ext] = "Name} \mbox{\mbox{$Sub Ext"}} = "Name} \mbox{$Sub Ext"}
                                \bullet \texttt{\newtxtsty}(\texttt{\nmfamily}[\texttt{\name}][\texttt{sub}][\texttt{sup}][\texttt{Ext}] = \texttt{``Name}^{\texttt{sup}}_{\texttt{sub}}[\texttt{Ext}] 
                                \bullet \mathtt{Name}_{\mathtt{sup}}[\mathtt{Name}_{\mathtt{Sup}}][\mathtt{Ext}] = \mathtt{Name}_{\mathtt{sup}}^{\mathtt{Sup}}[\mathtt{Ext}] 
                           295 \newcommandx{\newtxtsty}[2][2=]
                           296 {\text{wtxt}[\defval{#2}{\#1}]}
     \newtxtarg ... to do!
                                \bullet \texttt{ \  \  } [\texttt{Ext1}] \texttt{ \  \  } [\texttt{Ext2}] = \texttt{``Name}^{\sup}_{\sup} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}" 
                               • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                               • \newtxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                           297 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                           298 {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
\newtxtargsty ... to do!
                                \bullet \texttt{ \newtxtargsty{\nmfamily}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name^{\sup}_{sub} Ext1(Arg) Ext2" }
```

```
• \newtxtargsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name*ub Ext1(Arg)Ext2"
                     • \newtxtargsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                  299 \newcommandx{\newtxtargsty}[2][2=]
                      {\newtxtarg[\defval{#2}{#1}]}
   \newtxtoarg ... to do!
                     • \newtxtoarg[\rmfamily]{Name}[sub][sup][Arg] = "Name_{\text{sub}}^{\text{sup}}(Arg)"
                     • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sup_(Arg)"
                     • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                  301 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                       {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                     • \newtxtoargsty{\rmfamily}{Name}[sub][sup][Arg] = "Name_sup_(Arg)"
                     • \newtxtoargsty{\rmfamily}[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                     • \newtxtoargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_sub_(Arg)"
                  303 \newcommandx{\newtxtoargsty}[2][2=]
                       {\newtxtoarg[\defval{#2}{#1}]}
    \newtxtpar ... to do!
                      \bullet \texttt{ \  \  } \texttt{[Ext1] \{Par\}[Ext2]} = \texttt{``Name}^{\sup}_{\sup} \texttt{Ext1}[Par] \texttt{Ext2''} 
                      \bullet \texttt{\ \ } \texttt{[Ext2]} = \texttt{``Name}^{sup} \texttt{\ \ } \texttt{[Ext2]} = \texttt{``Name}^{sup} \texttt{\ \ } \texttt{Ext1} \texttt{\ \ } \texttt{[Par]} \texttt{\ \ } \texttt{Ext2}'' 
                     • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                  305 \newcommandx{\newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                       {\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
 \newtxtparsty ... to do!
                     \bullet \ \texttt{Name} \ \texttt{[sub] [sup] [Ext1] \{Par\} [Ext2]} = "Name_{sub}^{sup} \texttt{Ext1} [Par] \texttt{Ext2}"
                     • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[\Par]Ext2"
                     • \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
                  307 \newcommandx{\newtxtparsty}[2][2=]
                       {\newtxtpar[\defval{#2}{#1}]}
   \newtxtopar ... to do!
                     • \newtxtopar[\rmfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                     • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                     • \newtxtopar[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                  309 \newcommandx{\newtxtopar}[5][1=, 3=, 4=, 5=]
                       {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                     • \newtxtoparsty{\rmfamily}{Name}[sub][sup][Par] = "Name_{\text{sub}}^{\text{sup}}[Par]"
                     • \newtxtoparsty{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub[Par]"
                     • \newtxtoparsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Par] = "Name_sup_[Par]"
                  311 \newcommandx{\newtxtoparsty}[2][2=]
                       {\newtxtopar[\defval{#2}{#1}]}
    \txtsubsup ... to do!
                     • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                     • \text{txtsubsup[}\text{Aa}{Bb} = \text{``Bb''}
                  313 \newcommand{\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]{Name}[sub][sup][Ext]} = \text{"Name}_{Sub}^{SUP}EXT"
                                  • \text{txt[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext}] = \text{``Name}_{\text{sub}}^{\text{sup}}\text{Ext''}
                            316 \newcommand{\txt}
                            317 {\newtxtsty{\txtsty}}
        \txtarg ... to do!
                                 • \txtarg{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name sup Ext1(Arg)Ext2"
                                 • \txtarg[\schape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{SUB}^{SUP}Ext1(Arg)Ext2"
                                  • \txtarg[\bfseries]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{\text{sub}}^{\text{sup}}Ext1(Arg)Ext2"
                             318 \newcommand{\txtarg}
                            319 {\newtxtargsty{\txtsty}}
      \txtoarg ... to do!
                                 • \txtoarg{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                                  • \txtoarg[\schape] {Name} [sub] [sup] [Arg] = "Name_{SUB}^{SUP} (Arg)"
                                 • \t Name [Name] [Sub] [Sup] [Arg] = "Name [Sub] [Arg]"
                             320 \newcommand{\txtoarg}
                            321 {\newtxtoargsty{\txtsty}}
        \txtpar ... to do!
                                  \bullet \texttt{ \txtpar{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name} \\ \text{ \textsup} \\ \text{Ext1[Par]Ext2"} 
                                  • \txtpar[\schape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{SUP}^{SUP}Ext1[Par]Ext2"
                                  • \t = \t [\t Ext2] = \t [\t Ext2] = \t [\t Ext1] = \t [\t Ext2] = \t [\t Ext2] = \t [\t Ext1] = \t [\t Ext2] = \t [\t Ext2]
                            322 \newcommand{\txtpar}
                            323 {\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 \ [sub] [sup] [Par] = "Name\t \ [Par]"
                            324 \newcommand{\txtopar}
                                    {\newtxtoparsty{\txtsty}}
        \txtsty ... to do!
                            326 \newcommand{\txtsty}
                                      {\mdseries\upshape\rmfamily}
                            \cmdtxt ... to do!
                                 • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                     \mathsf{TxtNewCmd}\{\mathsf{Name}\}[\mathsf{sub}][\mathsf{Ext}] = \mathsf{Name}^{\mathsf{SUP}}_{\mathsf{SUB}}\mathsf{Ext}
                             329 \newcommand{\cmdtxt}[1]
                                     {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}
  \cmdtxtarg ... to do!
                                 • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                     \label{eq:local_local_sup} $$ \text{$\tt Lxt1]_{Arg}[Ext2] = Name_{SUB}^{SUP}Ext1(Arg)Ext2}$
                            331 \newcommand{\cmdtxtarg}[1]
                            332 {\csdef{txtarg#1}{\newtxtargsty{\csname txtsty#1\endcsname}}}
\cmdtxtoarg ... to do!
                                  \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                     \t \ [sub] [sup] [Arg] = NAME_{SUB}^{SUP} (Arg)
```

```
333 \newcommand{\cmdtxtoarg}[1]
                                                 {\csdef{txtoarg#1}{\newtxtoargsty{\csname txtsty#1\endcsname}}}
  \cmdtxtpar ... to do!
                                             • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                 \label{eq:local_cond_sup} $$ \operatorname{LEXT1}_{\operatorname{Par}}[\operatorname{Ext2}] = \operatorname{Name}_{\operatorname{SUB}}^{\operatorname{SUP}}[\operatorname{Ext1}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{SUB}}^{\operatorname{SUP}}[\operatorname{Ext1}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{SUB}}^{\operatorname{SUP}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{SUB}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{SUB}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Par}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}_{\operatorname{Ext2}}] = \operatorname{Name}_{\operatorname{Ext2}}^{\operatorname{Ext2}}[\operatorname{Ext2}] = \operatorname{Ext2}[\operatorname{Ext2}] = \operatorname{Ext2}[\operatorname{Ex
                                      335 \newcommand{\cmdtxtpar}[1]
                                                 {\csdef{txtpar#1}{\newtxtparsty{\csname txtsty#1\endcsname}}}
\cmdtxtopar ... to do!
                                             \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                 \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\Name|^{SUP}[Par]|
                                      337 \newcommand{\cmdtxtopar}[1]
                                                 {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}
  \cmdtxtall ... to do!
                                             • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                 \verb|\txtNewCmd{Name}[sub][sup][Ext]| = \verb|\txtNewCmd{Sup}Ext|
                                                 \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\Name|_{SUB}Ext1(Arg)Ext2|
                                                  \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\NAME_{SUB}^{SUP}(Arg)|
                                                  \texttt{\txtparNewCmd} \{ \texttt{Name} \} [\texttt{sub}] [\texttt{sup}] [\texttt{Ext1}] \{ \texttt{Par} \} [\texttt{Ext2}] = \texttt{Name}_{\texttt{sub}}^{\texttt{SUP}} \texttt{Ext1} [\texttt{Par}] \texttt{Ext2}
                                                  \txtoparNewCmd{Name}[sub][sup][Par] = Name_{SUB}^{SUP}[Par]
                                      339 \newcommand{\cmdtxtall}[1]
                                      340 {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
                                     \usrtxt ... to do!
                                             • \usrtxt{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                                  \t \text{Suf}_{arg}; \t \text{Arg} = \text{cmdName}(Arg)
                                                  • \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                  \t {cmdName} {Suf} {arg} [newName]; \t {Arg} = newName(Arg)
                                                 \usrtxt{cmdName}{Suf}{par}[newName]; \cmdNameSuf{Par} = newName[Par]
                                      342 \mbox{ } \mbox{usrtxt}[4][4=]
                                      343 {\csdef{\#1}#2}{\csname txt#3\endcsname{\defval{\#4}{\#1}}}
                                      \newmth ... to do!
                                             • \newmth[mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup} Ext"
                                             ullet \newmth[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                             • \newmth[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                      348 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                                 {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
  \newmthsty ... to do!
                                             \bullet \ \texttt{\ \ } [\mathtt{Sub}] \ [\mathtt{Ext}] = "\mathtt{Name}^{sup}_{\mathtt{cut}} Ext"
                                              \bullet \verb| \newmthsty{mathrm}[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext" 
                                             • \newmthsty{mathrm}[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                      350 \newcommandx{\newmthsty}[2][2=]
                                                 {\newmth[\defval{#2}{#1}]}
  \newmtharg ... to do!
                                             • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{2}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
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 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                                                 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                                 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                                • \newmtharg*[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name _{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                                                                                                                                352 \newcommand{\newmtharg}
                                                                                                                                                                                                                                                                    {\@ifstar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                                                                                                354 \newcommandx{\Onewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                                                        {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
                                                                                                                                                                                                                  356 \newcommandx{\@snewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                                                      {\newmth[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
           \newmthargsty ... to do!
                                                                                                                                                                                                                                                • \newmthargsty{mathrm}{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                                                                                                                                                                 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                                                • \newmthargsty*{mathrm}{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                                                                                                                                                                 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                                 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                  358 \newcommand{\newmthargsty}
                                                                                                                                                                                                                                                              {\@ifstar{\@snewmthargsty}{\@newmthargsty}}
                                                                                                                                                                                                                  360 \newcommandx{\@newmthargsty}[2][2=]
                                                                                                                                                                                                                                                                            {\newmtharg[\defval{#2}{#1}]}
                                                                                                                                                                                                                362 \newcommandx{\@snewmthargsty}[2][2=]
                                                                                                                                                                                                                                                                            {\newmtharg*[\defval{#2}{#1}]}
                                       \newmthoarg \dots to do!
                                                                                                                                                                                                                                                • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                                                                                                                                                                               \bullet \ \texttt{Name} \ \texttt{[Sub] [Sup] [Arg^{Ex^{}}]} = \ \texttt{"Name} \ \texttt{up} \ \Big(Arg^{Ex^{Ex}}\Big) "
                                                                                                                                                                                                                                               \bullet \ \texttt{\newmthoarg[mathtt]{Name}[sub][sup][Arg^{\{Ex^{}\}\}}]} = \ \texttt{\newmthoarg[mathtt]{Arg^{Ex^{Ex}}}}) "
                                                                                                                                                                                                                                                \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } 
                                                                                                                                                                                                                                                • \newmthoarg*[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{E
                                                                                                                                                                                                                                                 \bullet \verb| \newmthoarg*[mathtt]{Name}[sub][sup][Arg^{\{Ex^{\{Ex\}}\}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})" 
                                                                                                                                                                                                                  364 \newcommand{\newmthoarg}
                                                                                                                                                                                                                                                                        {\@ifstar{\@snewmthoarg}{\@newmthoarg}}
                                                                                                                                                                                                                  366 \newcommandx{\Onewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                                                                              {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                                                                                                  368 \newcommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                                                                            {\newmtharg*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                                                                                                                                                                                                • \newmthoargsty{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})" = "Name_{sub}^{sub} (Arg^{Ex})" = "Name_{sub}^{s
                                                                                                                                                                                                                                                 \bullet \ \texttt{\  \  } \ \texttt{\  \  \  } \ \texttt{\  \  } \ \texttt{\  \  \ } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \
                                                                                                                                                                                                                                              • \newmthoargsty*{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                                                                                                                                                                                 \bullet \verb| \newmthoargsty*{mathrm}[mathsf]{Name}[sub][sup][Arg^{Ex^{*}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})" = "Name_{sub}^{sub}(Arg^{Ex^{Ex}})" = "Name_{sub}^{sub}(Arg^{Ex^{Ex}
                                                                                                                                                                                                                                                 \bullet \verb| \newmthoargsty*{mathrm}[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{
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370 \newcommand{\newmthoargsty}
                                                                                                                                                                                                                      {\@ifstar{\@snewmthoargsty}{\@newmthoargsty}}
                                                                                                                                                                           372 \newcommandx{\@newmthoargsty}[2][2=]
                                                                                                                                                                           373 {\newmthoarg[\defval{#2}{#1}]}
                                                                                                                                                                           374 \newcommandx{\@snewmthoargsty}[2][2=]
                                                                                                                                                                                                                        {\newmthoarg*[\defval{#2}{#1}]}
                                \newmthpar ... to do!
                                                                                                                                                                                                      \bullet \ \texttt{Name} \ \texttt{[Sub] [Sup] [Ext1] \{Par^{\{Ex^{\{Ex\}\}}\}} \ \texttt{[Ext2]} = "Name} \ sub \ \texttt{Ext1} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext1} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext1} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex^{Ex}} \Big] \ Ext2" \\ = "Name \ sub \ \texttt{Ext2} \ \Big[ Par^{Ex} \ Par^{E
                                                                                                                                                                                                      \bullet \ \texttt{\newmthpar[mathtt]{Name}[sub][sub][Ext1]{Par^{Ex^{-}{Ex}}}} \ [\texttt{Ext2}] = "\texttt{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2" = "\texttt{\newmthpar[mathtt]{Par^{Ex^{Ex}}}} \Big] Ext2" = "\texttt{\newmthpar[mathtt]{Par^{Ex^{Ex}}}}} \Big] Ext2" = "\texttt{\newmthpar[mathtt]{Par^{Ex^{Ex}}}} \Big] Ext2" = "\texttt{\newmthpar[matht]{Par^{Ex^{Ex}}}} \Big] Ext2" = "\texttt{\newmthpar[mathtt]{Par^{Ex^{Ex}}}} \Big] Ext2" = "\texttt{\newmthpar[matht]{Par^{Ex^{Ex}}}} \Big] Ext2" = "\texttt{
                                                                                                                                                                                                        \bullet \mathtt{Name}^{\sup}_{sub}[\mathtt{Sup}][\mathtt{Ext1}] \\ \{\mathtt{Par}^{\mathsf{Ex}^{\mathsf{Ex}}}\}\}[\mathtt{Ext2}] = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext2" \\ \exists t \in [t] \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup}_{sub}Ext2" \\ \mathsf{Ext2} = \mathtt{``Name}^{\sup
                                                                                                                                                                                                        \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                        \bullet \mathtt{Name}^{sup}_{sub}[\mathtt{Ext1}] \\ \{\mathtt{Par}^{\mathsf{Ex}^{\mathsf{Ex}}}\}\} \\ [\mathtt{Ext2}] = \mathtt{``Name}^{sup}_{sub} \\ Ext1[Par^{\mathsf{Ex}^{\mathsf{Ex}}}] \\ Ext2" \\ \mathsf{Ext2} \\ \mathsf{Ext3} \\ \mathsf{Ext4} \\ 
                                                                                                                                                                             376 \newcommand{\newmthpar}
                                                                                                                                                                                                                                    {\@ifstar{\@snewmthpar}{\@newmthpar}}
                                                                                                                                                                             378 \mbox{ newcommandx{\constraint}[7][1=, 3=, 4=, 5=, 7=]}
                                                                                                                                                                                                                                    {\mathbb{4}}  {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left[}{#6}{\right]\arglef{\!}{#7}}]}
                                                                                                                                                                             380 \newcommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                  {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
\newmthparsty ... to do!
                                                                                                                                                                                                        \bullet \mathtt{Name}_{sub}^{sup}[\mathtt{Sup}] \mathtt{[Ext1]} \mathtt{[Par^{Ex^*}[Ext2]} = \mathtt{``Name}_{sub}^{sup}Ext1 \middle| Par^{Ex^{Ex}} \middle| Ext2 \mathtt{''} \mathsf{Ext2} \mathsf{''} \mathsf{''} \mathsf{Ext2} \mathsf{''} \mathsf{''} \mathsf{Ext2} \mathsf{''} \mathsf{''} \mathsf{Ext2} \mathsf{''} \mathsf
                                                                                                                                                                                                      \bullet \texttt{ \  \  } [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup}[\texttt{Ext1}] \{\texttt{Par}^{\texttt{Ex}^{\texttt{Ex}}}\} \\ [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup}[\texttt{Ext1}] \Big[Par^{\texttt{Ex}^{\texttt{Ex}}}\Big] \\ Ext2 \\ \texttt{'`} [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup}[\texttt{Ext1}] \Big[Par^{\texttt{Ex}^{\texttt{Ex}}}\Big] \\ \texttt{'`} [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup}[\texttt{Ext2}] \\ \texttt{'`} [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sub}[\texttt{Ext2}] \\ \texttt{'`} 
                                                                                                                                                                                                        \bullet \mathtt{Newmthparsty\{mathrm\}[mathtt]\{Name\}[sub][sup][Ext1]\{Par^{\{Ex^{\{Ex\}\}}\}[Ext2]} = \mathtt{``Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\mathtt{''} } \\
                                                                                                                                                                                                        \bullet \texttt{\newmthparsty*\{mathrm\}\{Name\}[sub][sup][Ext1]\{Par^{\{Ex^{\{Ex\}\}}\}[Ext2]} = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"] } \\ 
                                                                                                                                                                                                        \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                        \bullet \texttt{\newmthparsty*\{mathrm\}[mathtt]\{Name\}[sub][sup][Ext1]\{Par^{\{Ex^{\{Ex\}\}}\}[Ext2]} = \texttt{``Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2"] = \texttt{``Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2"] = \texttt{``Name}^{sup}_{sub}Ext1[Par^{Sup}_{sub}Ext1] = \texttt{``Name}^{sup}_{sub}Ext1[Par^{Sup}_{sub}Ext2] = \texttt{``Name}^{sup}_{sub}Ext2[Par^{Sup}_{sub}Ext2] = \texttt{``Name}^{sup}_{sub}Ext2[Par^{Sup}_{sub}Ext2] = \texttt{``Name}^{sup}_{sub}Ext2[Par^{Sup}_{sub}Ext2] = \texttt{``Name}^{sup}_{sub}Ext2[Par^{Sup}_{sub}Ext2] = \texttt{``Name}^{sub}Ext2[Par^{Sup}_{sub}Ext2] = \texttt{``Name}^{sub}E
                                                                                                                                                                             382 \newcommand{\newmthparsty}
                                                                                                                                                                                                                                  {\@ifstar{\@snewmthparsty}{\@newmthparsty}}
                                                                                                                                                                             384 \newcommandx{\@newmthparsty}[2][2=]
                                                                                                                                                                                                                                  {\newmthpar[\defval{#2}{#1}]}
                                                                                                                                                                             386 \newcommandx{\@snewmthparsty}[2][2=]
                                                                                                                                                                                                                               {\newmthpar*[\defval{#2}{#1}]}
                      \newmthopar ... to do!
                                                                                                                                                                                                       • \newmthopar[mathrm] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} | Par^{Ex^{Ex}}|"
                                                                                                                                                                                                     • \newmthopar[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                                                                       • \newmthopar*[mathrm]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                                                                      \bullet \verb| \newmthopar*[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                                                                                                                                             388 \newcommand{\newmthopar}
                                                                                                                                                                                                                      {\@ifstar{\@snewmthopar}{\@newmthopar}}
                                                                                                                                                                             390 \newcommandx{\Onewmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                          {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                                                             392 \newcommandx{\@snewmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                               {\newmthpar*[#1]{#2}[#3][#4][]{#5}[]}
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\newmthoparsty ... to do!

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• \newmthoparsty{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                  • \newmthoparsty*{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                   \bullet \verb| \newmthoparsty*{mathrm}[mathsf]{Name}[sub][sup][Par^{Ex^{Ex}}]] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                                                                                  \bullet \verb| \normalle | \normalle 
                                                                                                394 \newcommand{\newmthoparsty}
                                                                                                                                {\@ifstar{\@snewmthoparsty}{\@newmthoparsty}}
                                                                                               396 \newcommandx{\@newmthoparsty}[2][2=]
                                                                                                                                {\newmthopar[\defval{#2}{#1}]}
                                                                                                398 \newcommandx{\@snewmthoparsty}[2][2=]
                                                                                                                               {\newmthopar*[\defval{#2}{#1}]}
\mthsubsup ... to do!
                                                                                               400 \newcommand{\mthsubsup}[2]
                                                                                                                                    {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                             \mth ... to do!
                                                                                                                 • \mathbb{Sup}[Sup][Ext] = "Name^{sup}_{sub}Ext"
                                                                                                                  • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                                                                  • \mathbf{L} = \mathbf{L} 
                                                                                                403 \newcommand{\mth}
                                                                                                                         {\newmthsty{\mthsty}}
                      \mtharg ... to do!
                                                                                                                  • \mtharg{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                                                                                  \bullet \ \texttt{\normalfine} \
                                                                                                                  \bullet \ \texttt{\name} \ \texttt{\na
                                                                                                                  \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{
                                                                                                                  • \mtharg*[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name _{sub}^{sup} Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                405 \newcommand{\mtharg}
                                                                                                                            {\@ifstar{\newmthargsty*{\mthsty}}{\newmthargsty{\mthsty}}}
               \mthoarg ... to do!
                                                                                                                 • \mthoarg{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} \left(Arg^{Ex^{Ex}}\right)"
                                                                                                                 • \mthoarg[mathbf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                                                 • \mthoarg*{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                                                  407 \newcommand{\mthoarg}
                                                                                                                             {\@ifstar{\newmthoargsty*{\mthsty}}{\newmthoargsty{\mthsty}}}
                      \mthpar ... to do!
                                                                                                                  • \mthpar{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2"
```

```
• \mthpar[mathbf]{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}] Ext2"
                                                                       • \mthpar*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2"
                                                                       • \mthpar*[mathbf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2"
                                                                       • \mthpar*[mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2"
                                                            409 \newcommand{\mthpar}
                                                                                  {\@ifstar{\newmthparsty*{\mthsty}}}{\newmthparsty{\mthsty}}}
            \mthopar ... to do!
                                                                     • \mthopar{Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                                       • \mthopar[mathbf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup} | Par^{Ex^{Ex}}|"
                                                                      \bullet \  \, \texttt{\bar{Ex^{Ex}}} = \texttt{\bar{Name}} [\texttt{Sub}] [\texttt{Sup}] [\texttt{Par^{Ex^{Ex}}}] = \texttt{\bar{Name}} [Par^{Ex^{Ex}}] "
                                                                       • \mthopar*{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                       • \mthopar*[mathbf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                        \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                            411 \newcommand{\mthopar}
                                                                                   {\@ifstar{\newmthoparsty*{\mthsty}}{\newmthoparsty{\mthsty}}}
                \mthsty ... to do!
                                                           413 \newcommand{\mthsty}
                                                                               {}
                                                            \cmdmth ... to do!
                                                                      • \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                              \mathbb{E}_{sub}[sub][sup][Ext] = \mathbb{E}_{sub}[Ext]
                                                            416 \newcommand{\cmdmth}[1]
                                                                               {\csdef{mth#1}{\newmthsty{mthsty#1}}}
   \cmdmtharg ... to do!
                                                                      • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                               \mthargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                              \verb|\mathragNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}| [Ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}}{Ex}}| Ext2| = |\mathragNewCmd*{Name}[sub][sup][ext1]| | Ext2| = |\mathragNewCmd*{Name}[sub][sup][ext2]| | Ext2| = |\mathragNewCmd*{Name}[sub][sub][ext2]| | Ext2| = |\mathragNewCmd*{Name}[sub][sub][ext2]| | Ext2| = |\mathragNewCmd*{Name}[sub][sub][ext2]| | Ext2| = |\mathragNewCmd*{Name}[sub][ext2]| | Ext2| = |\mathragNewCm
                                                            418 \newcommand{\cmdmtharg}[1]
                                                                             {\csdef{mtharg#1}%
                                                                                            {\@ifstar{\newmthargsty*{mthsty#1}}}{\newmthargsty{mthsty#1}}}
                                                            420
\cmdmthoarg \dots to do!
                                                                       • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                               \verb|\mbox| \verb|\mbox| | [sup] [Arg^{\{Ex^{\{Ex\}}\}}] = \verb|\mbox| | [sup] [Arg^{Ex^{Ex}}] |
                                                                               \verb|\mbox| \verb|\mbox| thoargNewCmd*{\tt Name}[sub][sup][Arg^{Ex^{Ex}}] = \verb|\mbox| ame_{sub}^{sup}(Arg^{Ex^{Ex}})
                                                            421 \newcommand{\cmdmthoarg}[1]
                                                                              {\csdef{mthoarg#1}%
                                                                                            {\@ifstar{\newmthoargsty*{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
                                                            423
   \cmdmthpar ... to do!
                                                                       \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                               \verb|\mbox| \textbf{Sub} [\textbf{Sub}] [\textbf{Ext1}] \{ \texttt{Par}^{\{\texttt{Ex}\}} \} [\texttt{Ext2}] = \texttt{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 = \texttt{Name}_{sub}^{sup} Ext2 = \texttt{Name}_{sub}^{sub} Ext2 = \texttt{Name}_{sub}^{sub
                                                                              \verb|\mathparNewCmd*{Name}[sub][sup][Ext1]{Par^{Ex^{-}}{Ex}}] Ext2] = \verb|\mathparNewCmd*{Name}[sub][sup][Ext1]{Par^{Ex^{-}}{Ex}}] Ext2] = |\mathparNewCmd*{Name}[sub][sup][ext1]{Par^{Ex^{-}}{Ex}}] Ext2
```

```
424 \newcommand{\cmdmthpar}[1]
                                                                                              {\csdef{mthpar#1}%
                                                                         126
                                                                                                           {\@ifstar{\newmthparsty*{mthsty#1}}}{\newmthparsty{mthsty#1}}}
          \cmdmthopar ... to do!
                                                                                     • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                            \label{eq:local_local_problem} $$ \mathbf{Sup}[\sup][\operatorname{Par}_{Ex}^{Ex}] = \operatorname{Name}_{sub}^{sup}\Big[\operatorname{Par}_{Ex}^{Ex}^{Ex}\Big] = \operatorname{Name
                                                                                             \verb|\mathoparNewCmd*{Name}[sub][sup][Par^{Ex^{-}}{Ex^{-}}] = \verb|\mathoparNewCmd*{Name}| Par^{Ex^{-}}{Ex^{-}}
                                                                         427 \newcommand{\cmdmthopar}[1]
                                                                                            {\csdef{mthopar#1}%
                                                                         429
                                                                                                           {\@ifstar{\newmthoparsty*{mthsty#1}}}{\newmthoparsty{mthsty#1}}}}
              \cmdmthall ... to do!
                                                                                    • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                             \label{eq:lambda} $$\operatorname{Lamp}(\operatorname{Ex^{Ex}}) = \operatorname{Name}_{sub}^{sup}(Arg^{Ex^{Ex}}) = \operatorname{Name}_{sub}^{sub}(Arg^{Ex^{Ex}}) = \operatorname{Na
                                                                                            \verb|\mbox| \verb| Sub| [sup] [Arg^{Ex^*}[Ex^*]] = \verb|\mbox| arg^{Ex^*}(Arg^{Ex^{Ex^*}})
                                                                                            \verb| \mathbf{Name} [\mathbf{Sub}] [\mathbf{Sup}] [\mathbf{Ext1}] \{ \mathbf{Par}^{\{\mathbf{Ex}^{\}}\}} [\mathbf{Ext2}] = \mathbf{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 = \mathbf{Name}_{sub}^{sup} Ext2 = \mathbf{Name}_{s
                                                                                            \mathbb{E}^{Ex^{Ex}} = \mathbb{E}^{Ex^{Ex}} = \mathbb{E}^{Ex^{Ex}}
                                                                          430 \newcommand{\cmdmthall}[1]
                                                                                            {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthopar{#1}\cmdmthopar{#1}}
                                                                         \usrmth ... to do!
                                                                                     • \sl = cmdName 
                                                                                             \usrmth{cmdName}{Suf}{arg};
                                                                                             \label{eq:cmdName} $$\operatorname{Arg}^{Ex^{Ex}}$ = cmdName \Big(Arg^{Ex^{Ex}}\Big)$
                                                                                             \verb|\cmdNameSuf*{Arg^{Ex^{Ex}}}| = cmdName(Arg^{Ex^{Ex}})|
                                                                                              \usrmth{cmdName}{Suf}{par};
                                                                                             \label{eq:cmdName} $$ \operatorname{Ex^{Ex}}$ = cmdName \Big| Par^{Ex^{Ex}} \Big| $$
                                                                                             \verb|\cmdNameSuf*{Par^{Ex^{Ex}}}| = cmdName[Par^{Ex^{Ex}}]|
                                                                                       \usrmth{cmdName}{Suf}{arg}[newName];
                                                                                             \label{eq:local_cond_norm} $$ \operatorname{Larg}^{Ex^*} = newName \Big( Arg^{Ex^{Ex}} \Big) $$
                                                                                              \label{eq:cmdName} $$\operatorname{Arg}^{Ex^{Ex}}$ = newName(Arg^{Ex^{Ex}})$
                                                                                              \usrmth{cmdName}{Suf}{par}[newName];
                                                                                             \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = newName | Par^{Ex^{Ex}}|
                                                                                            \verb|\cmdNameSuf*{Par^{Ex^{Fx}}}| = newName[Par^{Ex^{Ex}}]|
                                                                         433 \newcommandx{\usrmth}[4][4=]
                                                                                                 {\csdef{#1#2}{\%}}
                                                                         434
                                                                          435
                                                                                                                     {\c mth #3\ends name *{\defval {#4}{#1}}}%
                                                                          436
                                                                          437
                                                                                                                     {\csname mth#3\endcsname{\defval{#4}{#1}}}%
                                                                          438
                                                                                                }}
\usrmthlatlow ... to do!
                                                                        440 \newcommandx{\usrmthlatlow}[4][4=]
                                                                                            {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
```

```
\usrmthlatupp ... to do!
             442 \newcommandx{\usrmthlatupp}[4][4=]
             \usrmthlatlet ... to do!
             444 \newcommandx{\usrmthlatlet}[4][4=]
             445 \{ \text{usrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqoflatlet \{ \#1 \#2 \} \{ \#3 \} \} \}
\usrmthgrklow ... to do!
             446 \newcommandx{\usrmthgrklow}[4][4=]
             447 \quad {\bf \{\{41\}\{\#2\}\{\#3\}[\#4]\} } 
\usrmthgrkupp ... to do!
             448 \newcommandx{\usrmthgrkupp}[4][4=]
                {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
\usrmthgrklet ... to do!
             450 \newcommandx{\usrmthgrklet}[4][4=]
                 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
  \usrmthlow ... to do!
             452 \mbox{ newcommandx{\usrmthlow}[4][4=]}
             \usrmthupp ... to do!
             454 \newcommandx{\usrmthupp}[4][4=]
                 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
  \usrmthlet ... to do!
             456 \newcommandx{\usrmthlet}[4][4=]
                 {\left\{ usrmth{#1}{#2}{#3}[#4] \seqoflet{#1#2}{mth#3} \right\}}
             462 \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
               ullet \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
             463 %% Style for Definitions
             464 \texttt{\def}\newcommand{\texttt{\txtstydef}}{\texttt{\normalfont}} 
  \cmdtxtdef ... to do!
               • \cmdtxtdef{cmdName};
                 \verb|\cmdName[sub][sub][ext]| = cmdName_{sub}^{sub}ext
               • \cmdtxtdef{cmdName}[newName];
                 \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
             465 \newcommandx{\cmdtxtdef}[2][2=]
             466 {\usrtxt{#1}{}{def}[#2]}
\cmdtxtargdef ... to do!
               \cmdtxtargdef{cmdName};
                 \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
               • \cmdtxtargdef{cmdName}[newName];
                 \cmdName[sub][sub][ext1]\{arg\}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
```

```
467 \newcommandx{\cmdtxtargdef}[2][2=]
                       {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                     \cmdtxtoargdef{cmdName};
                       \colon = cmdName[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                      \cmdtxtoargdef{cmdName}[newName];
                       \colon = newName[sub][sub][arg] = newName^{sub}_{sub}(arg)
                   469 \newcommandx{\cmdtxtoargdef}[2][2=]
                  470 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                     • \cmdtxtpardef{cmdName};
                       \cmdName[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1/par]ext2
                     • \cmdtxtpardef{cmdName}[newName];
                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2
                   471 \newcommandx{\cmdtxtpardef}[2][2=]
                  472 {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                      \cmdtxtopardef{cmdName};
                       \verb|\cmdName[sub][sub][par]| = cmdName_{sub}^{sub}/par|
                      • \cmdtxtopardef{cmdName}[newName];
                       \cmdName[sub][sub][par] = newName_{sub}^{sub}/par
                   473 \newcommandx{\cmdtxtopardef}[2][2=]
                  474 {\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_{sub}^{sup} Ext1(Arg)Ext2
                       \bullet \ \texttt{\txtparabr{Name}[sub][sub][Ext1]{Par}[Ext2]} = Name^{\sup}_{\sup} Ext1[Par]Ext2
                   475 %% Style for Abbreviations
                  476 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
    \cmdtxtabr ... to do!
                     • \cmdtxtabr{cmdName};
                       \verb|\cmdName[sub][sub][ext]| = cmdName_{\rm sub}^{\rm sub}ext
                     • \cmdtxtabr{cmdName}[newName];
                       \colon dName[sub][sub][ext] = newName_{sub}^{sub}ext
                   477 \newcommandx{\cmdtxtabr}[2][2=]
                       {\usrtxt{#1}{}{abr}[#2]}
 \cmdtxtargabr ... to do!
                     • \cmdtxtargabr{cmdName};
                       \cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                      • \cmdtxtargabr{cmdName}[newName];
                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{\rm sub}^{\rm sub}ext1(arg)ext2
                   479 \newcommandx{\cmdtxtargabr}[2][2=]
                  480 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                     • \cmdtxtoargabr{cmdName};
                       \colon dName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      \cmdtxtoargabr{cmdName}[newName];
                       \colon = newName[sub][sub][arg] = newName[sub](arg)
                   481 \newcommandx{\cmdtxtoargabr}[2][2=]
                   482 {\usrtxt{#1}{}{oargabr}[#2]}
```

```
\cmdtxtparabr ... to do!
                                                                 • \cmdtxtparabr{cmdName};
                                                                       \cmdName[sub][sub][ext1][par][ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                 • \cmdtxtparabr{cmdName} [newName];
                                                                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName^{\rm sub}_{\rm sub}ext1/par]ext2
                                                          483 \newcommandx{\cmdtxtparabr}[2][2=]
                                                                      {\usrtxt{#1}{}{parabr}[#2]}
   \cmdtxtoparabr ... to do!
                                                                 • \cmdtxtoparabr{cmdName};
                                                                       \cmdName[sub][sub][par] = cmdName_{
m sub}^{
m sub}/par/
                                                                 \cmdtxtoparabr{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][par]| = newName_{\rm sub}^{\rm sub}[par]|
                                                         485 \newcommandx{\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
                                                                 • \text{txtargname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext1}(\text{Arg})\text{Ext2}
                                                                 • \text{txtparname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{Sub}}^{\text{SUP}}\text{Ext1}[\text{Par}]\text{Ext2}
                                                         488 %% Style for Names
                                                         489 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
             \cmdtxtname ... to do!
                                                                 • \cmdtxtname{cmdName}:
                                                                       \c MDNAME_{SUB}^{SUB} [sub] [ext] = CMDNAME_{SUB}^{SUB}EXT
                                                                 • \cmdtxtname{cmdName}[newName];
                                                                       \cmdName[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                                          490 \newcommandx{\cmdtxtname}[2][2=]
                                                         491 {\usrtxt{#1}{}{name}[#2]}
   \cmdtxtargname ... to do!
                                                                 • \cmdtxtargname{cmdName};
                                                                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][ext1][ext2][ext2] = \verb|\cmdName[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][
                                                                 • \cmdtxtargname{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1][ext2][ext2] = \verb|\newName[sub][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][ex
                                                         492 \newcommandx{\cmdtxtargname}[2][2=]
                                                                       {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                                 • \cmdtxtoargname{cmdName};
                                                                       \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                                                                 • \cmdtxtoargname{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][arg]| = NEWNAME^{SUB}_{SUB}(ARG)
                                                         494 \newcommandx{\cmdtxtoargname}[2][2=]
                                                                      {\usrtxt{#1}{}{oargname}[#2]}
   \cmdtxtparname ... to do!
                                                                 • \cmdtxtparname{cmdName};
                                                                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                                                                 • \cmdtxtparname{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\newName[sub][sub][ext1]{par}[ext2]
                                                         496 \newcommandx{\cmdtxtparname}[2][2=]
                                                         497 {\usrtxt{#1}{}{parname}[#2]}
```

```
\cmdtxtoparname ... to do!
                                                                 • \cmdtxtoparname{cmdName};
                                                                       \label{eq:cmdName} $$ \operatorname{CMDNAME}_{SUB}^{SUB}[PAR] = \operatorname{CMDNAME}_{SUB}^{SUB}[PAR] $$
                                                                 \cmdtxtoparname{cmdName} [newName];
                                                                       \colon = NEWNAME_{SUB}^{SUB}[PAR]
                                                          498 \newcommandx{\cmdtxtoparname}[2][2=]
                                                                       {\usrtxt{#1}{}{oparname}[#2]}
         \txtcom, ... to do!
                                                                 • \t \text{Name} [ \text{sub} ] [ \text{sup} ] [ \text{Ext} ] = \text{Name}_{\text{SUB}}^{\text{SUP}} \text{Ext}
                                                                  \bullet \texttt{ \txtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{SUP}Ext1(Arg)Ext2} 
                                                                 • \text{txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{Name}_{\text{SUB}}^{\text{SUP}} \text{Ext1}[Par] \text{Ext2}
                                                         500 %% Style for Complexities
                                                         501 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
                \cmdtxtcom ... to do!
                                                                 • \cmdtxtcom{cmdName};
                                                                       \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                                                 • \cmdtxtcom{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]|
                                                         502 \newcommandx{\cmdtxtcom}[2][2=]
                                                         503 {\usrtxt{#1}{}{com}[#2]}
      \cmdtxtargcom ... to do!
                                                                 • \cmdtxtargcom{cmdName};
                                                                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                                                 • \cmdtxtargcom{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1][ext2][ext2] = \verb|\newName[sub][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][ex
                                                          504 \newcommandx{\cmdtxtargcom}[2][2=]
                                                         505 {\usrtxt{#1}{}{argcom}[#2]}
   \cmdtxtoargcom ... to do!
                                                                 • \cmdtxtoargcom{cmdName};
                                                                       \colon 
                                                                 • \cmdtxtoargcom{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][arg]| = NEWNAME^{SUB}_{SUB}(ARG)
                                                         506 \newcommandx{\cmdtxtoargcom}[2][2=]
                                                                       {\usrtxt{#1}{}{oargcom}[#2]}
      \cmdtxtparcom ... to do!
                                                                 \cmdtxtparcom{cmdName};
                                                                       \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1][par][ext2]} = \operatorname{CMDNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1[par]EXT2} $$
                                                                 • \cmdtxtparcom{cmdName} [newName];
                                                                       508 \newcommandx{\cmdtxtparcom}[2][2=]
                                                                       {\usrtxt{#1}{}{parcom}[#2]}
   \cmdtxtoparcom ... to do!
                                                                 • \cmdtxtoparcom{cmdName};
                                                                       \colon = CMDNAME_{SUB}^{SUB}[PAR]
                                                                 \cmdtxtoparcom{cmdName}[newName];
                                                                       \verb|\cmdName[sub][sub][par]| = NEWNAME_{SUB}^{SUB}[PAR]|
                                                         510 \newcommandx{\cmdtxtoparcom}[2][2=]
                                                         511 {\usrtxt{#1}{}{oparcom}[#2]}
```

```
517 \ifmthgen@
  \mthname, ... to do!
                     • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                     • \mthparname{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                     518 %% Style for Names
                  519 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
    \AName, ... to do!
                 \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                  520 \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
                  521 \newcommandx{\cmdmthname}[2][2=]
                       {\usrmth{#1}{Name}{name}[#2]}
 \cmdmthargname ... to do!
                     • \cmdmthargname{CMDNAME};
                       \verb|\CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                     • \cmdmthargname{cmdName}[NEWNAME];
                       \verb|\cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                  523 \newcommandx{\cmdmthargname}[2][2=]
                      {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                     • \cmdmthoargname{CMDNAME};
                       \verb|\CMDNAMEName[sub][sub][arg]| = \mathcal{CMDNAME}^{sub}_{sub}(arg)
                     • \cmdmthoargname{cmdName}[NEWNAME];
                       \verb|\cmdNameName[sub][sub][arg]| = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                  525 \mbox{\cmdmthoargname} \mbox{[2] [2=]}
                      {\usrmth{#1}{Name}{oargname}[#2]}
 \cmdmthparname ... to do!
                     • \cmdmthparname{CMDNAME};
                       \CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                     • \cmdmthparname{cmdName}[NEWNAME];
                       \verb|\cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}^{sub}_{sub}ext1[par]ext2
                  527 \newcommandx{\cmdmthparname}[2][2=]
                      {\usrmth{#1}{Name}{parname}[#2]}
                 ... to do!
\cmdmthoparname
                     \cmdmthoparname{CMDNAME};
                       \verb|\CMDNAMEName[sub][sub][par]| = \mathcal{CMDNAME}_{sub}^{sub}[par]
                     • \cmdmthoparname{cmdName}[NEWNAME];
                       \cmdNameName[sub] [sub] [par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
```

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

```
\mthcls, ... to do!
                                                                        • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                                                        • \mthargcls{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2
                                                                        • \mthargcls*{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = \mathcal{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{\ \ \ }} \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] = NAME^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                               544 %% Style for Classes
                                                              545 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}
               \ACls, ... to do!
                                                           A, B, C, D, E, F, G, H, J, J, X, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                              546 \seqoflatupp{Cls}{mthcls}
               \cmdmthcls ... to do!
                                                                        • \cmdmthcls{CMDNAME}:
                                                                              \CMDNAMECls[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                                                        • \cmdmthcls{cmdName}[NEWNAME];
                                                                              \colon 2000 \color 2000 \colon 2000 \colon 2000 \color 2000 \col
                                                               547 \newcommandx{\cmdmthcls}[2][2=]
                                                               548 {\usrmth{#1}{Cls}{cls}[#2]}
   \cmdmthargcls ... to do!
                                                                        • \cmdmthargcls{CMDNAME};
                                                                              \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                                                                        • \cmdmthargcls{cmdName}[NEWNAME];
                                                                              \cmdNameCls[sub][sub][ext1]{arg}[ext2] = NEWNAME_{sub}^{sub}ext1(arg)ext2
                                                               549 \newcommandx{\cmdmthargcls}[2][2=]
                                                                              {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                                                        • \cmdmthoargcls{CMDNAME};
                                                                              \CMDNAMECls[sub][sub] [arg] = \text{CMDNAME}_{sub}^{sub}(arg)
                                                                        • \cmdmthoargcls{cmdCls}[NEWNAME];
                                                                              \cmdClsCls[sub][sub][arg] = NEWNAME_{sub}^{sub}(arg)
                                                               551 \newcommandx{\cmdmthoargcls}[2][2=]
                                                              552 {\usrmth{#1}{Cls}{oargcls}[#2]}
   \cmdmthparcls ... to do!
                                                                        • \cmdmthparcls{CMDNAME};
                                                                              \CMDNAMECls[sub][sub][ext1]{par}[ext2] = \text{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                                                        • \cmdmthparcls{cmdName}[NEWNAME];
                                                                              \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1|par|ext2|
                                                               553 \newcommandx{\cmdmthparcls}[2][2=]
                                                              554 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                        • \cmdmthoparcls{CMDNAME};
                                                                              \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                        • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                              \cmdClsCls[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                                               555 \newcommandx{\cmdmthoparcls}[2][2=]
                                                              556 {\usrmth{#1}{Cls}{oparcls}[#2]}
       \mthsig, ... to do!
                                                                        • \mthsig{Name} [sub] [sup] [Ext] = Name_{sub}^{sup} Ext
```

```
• \mthargsig{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                        \bullet \  \  \, \texttt{\bare}^{sup}[\texttt{Sub}][\texttt{Sup}][\texttt{Ext1}] \\ \{\texttt{Arg}^*(\texttt{Ex}^*)\}[\texttt{Ext2}] \\ = \mathcal{N} \\ ame_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}}) \\ = \mathcal{N} \\ ame_{sub}^{sup}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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(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}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(
                                                                                                        \bullet \  \  \, \texttt{ hthparsig{Name}[sub][sub][Ext1]{Par^{Ex^{\{Ex\}}\}}[Ext2]} = \mathcal{N}\!\mathit{ame}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathcal{N}\!\mathit{ame}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2
                                                                                                        • \mthparsig*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{A}
                                                                                           557 %% Style for Signatures
                                                                                          558 \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}, \mathcal{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
                                                                                          559 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
                     \cmdmthsig ... to do!
                                                                                                       • \cmdmthsig{cmdName};
                                                                                                                 \colon dNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                                                        • \cmdmthsig{cmdName}[NewName];
                                                                                                                 \colon dNameSig[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                                          560 \newcommandx{\cmdmthsig}[2][2=]
                                                                                                              {\usrmth{#1}{Sig}{sig}[#2]}
     \cmdmthargsig ... to do!
                                                                                                       • \cmdmthargsig{cmdName};
                                                                                                                 \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                                        • \cmdmthargsig{cmdName}[NewName];
                                                                                                                 \cmdNameSig[sub][sub][ext1]{arg}[ext2] = \mathcal{N}ewName_{sub}^{sub}ext1(arg)ext2
                                                                                           562 \newcommandx{\cmdmthargsig}[2][2=]
                                                                                         563 {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                                                       • \cmdmthoargsig{cmdName};
                                                                                                                 \colon 
                                                                                                        • \cmdmthoargsig{cmdSig}[NewName];
                                                                                                                 \colored{cmdSigSig[sub][sub][arg]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}(arg)
                                                                                          564 \newcommandx{\cmdmthoargsig}[2][2=]
                                                                                          565 {\usrmth{#1}{Sig}{oargsig}[#2]}
     \cmdmthparsig ... to do!
                                                                                                        \cmdmthparsig{cmdName};
                                                                                                                 \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                                                        • \cmdmthparsig{cmdName}[NewName];
                                                                                                                 \colone{line} 
                                                                                           566 \newcommandx{\cmdmthparsig}[2][2=]
                                                                                                               {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                                                       • \cmdmthoparsig{cmdName};
                                                                                                                 \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                                        • \cmdmthoparsig{cmdSig}[NewName];
                                                                                                                 \colored{cmdSigSig[sub][sub][par]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}[par]
                                                                                          568 \newcommandx{\cmdmthoparsig}[2][2=]
                                                                                         569 {\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(Arg^{Ex^{Ex}})Ext2
                                                                                                        \bullet \  \  \, \texttt{ \mthparstr{Name} [sub] [sup] [Ext1] {Par^{Ex^{}}}} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \\ = \mathfrak{Name}_{sub}^{sup} Ext2 \\ = \mathfrak{Name}_{sub}^{sub}^{sup} Ext2 \\ = \mathfrak{Name}_{sub}^{sup} Ext2 \\ = \mathfrak{Name}_{sub}^{sub}^{sup} Ext2 \\ = \mathfrak{Name}_{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{sub}^{su
                                                                                                        • \mthparstr*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathfrak{Name}_{cub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                          570 %% Style for Structures
                                                                                         571 \cmdmthall{str}\newcommand{\mthstystr}{\mathfrak}
                     \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{H}
                                                                                     \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
                                                                                         572 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
                     \cmdmthstr ... to do!
                                                                                                       • \cmdmthstr{cmdName};
                                                                                                                \cmdNameStr[sub][sub][ext] = \mathfrak{cmdName}_{sub}^{sub}ext
                                                                                                        • \cmdmthstr{cmdName}[NewName];
                                                                                                                 \cmbox{\cm} \cmdNameStr[sub] [sub] [ext] = \mathfrak{New}\mathfrak{Name}^{sub}_{sub}ext
                                                                                          573 \newcommandx{\cmdmthstr}[2][2=]
                                                                                                               {\usrmth{#1}{Str}{str}[#2]}
     \cmdmthargstr ... to do!
                                                                                                       • \cmdmthargstr{cmdName};
                                                                                                                 \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdMames|^{sub}_{sub}ext1(arg)ext2
                                                                                                        • \cmdmthargstr{cmdName}[NewName];
                                                                                                                \label{lem:lemma:sub:ext1} $$ \operatorname{CmdNameStr}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{\mathfrak{NewName}}_{\operatorname{sub}}^{\operatorname{sub}} ext1(\operatorname{arg})ext2
                                                                                           575 \newcommandx{\cmdmthargstr}[2][2=]
                                                                                                                {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                                                       • \cmdmthoargstr{cmdName};
                                                                                                                \cmdNameStr[sub] [sub] [arg] = cmd\Re ame_{sub}^{sub}(arg)
                                                                                                        • \cmdmthoargstr{cmdStr}[NewName];
                                                                                                                \cmdStrStr[sub] [sub] [arg] = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                                                          577 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                                         578 {\usrmth{#1}{Str}{oargstr}[#2]}
     \cmdmthparstr ... to do!
                                                                                                       • \cmdmthparstr{cmdName};
                                                                                                                \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = cmd \mathfrak{Namc}_{sub}^{sub} ext1[par]ext2
                                                                                                        • \cmdmthparstr{cmdName} [NewName];
                                                                                                                \cmdNameStr[sub] [sub] [ext1] {par} [ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                                                          579 \newcommandx{\cmdmthparstr}[2][2=]
                                                                                         580 {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                                                        \cmdmthoparstr{cmdName};
                                                                                                                 \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                                                                                                        • \cmdmthoparstr{cmdStr}[NewName];
                                                                                                                \c Manuel Manu
                                                                                          581 \newcommandx{\cmdmthoparstr}[2][2=]
                                                                                                                {\usrmth{#1}{Str}{oparstr}[#2]}
          \mthset, ... to do!
                                                                                                       • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} ame \mathbb{N} \mathbb{N}
                                                                                                       • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
```

```
• \mthparset{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      583 %% Style for Sets
                   584 \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
                   585 \seqoflet{Set}{mthset}
    \cmdmthset ... to do!
                      • \cmdmthset{cmdName};
                        \verb|\cmdNameSet[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                      • \cmdmthset{cmdName}[NewName];
                        \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} ext
                    586 \newcommandx{\cmdmthset}[2][2=]
                   587 {\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
                    588 \newcommandx{\cmdmthargset}[2][2=]
                         {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                      \cmdmthoargset{cmdName};
                        \colon = cmdNameSet[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      • \cmdmthoargset{cmdSet}[NewName];
                        \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                    590 \newcommandx{\cmdmthoargset}[2][2=]
                   591 {\usrmth{#1}{Set}{oargset}[#2]}
 \cmdmthparset ... to do!
                      \cmdmthparset{cmdName};
                        \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                      • \cmdmthparset{cmdName}[NewName];
                        \cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                    592 \newcommandx{\cmdmthparset}[2][2=]
                         {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                      \cmdmthoparset{cmdName};
                        \verb|\cmdNameSet[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                      • \cmdmthoparset{cmdSet}[NewName];
                        \colored{cmdSetSet[sub][sub][par]} = NewName_{sub}^{sub}[par]
                   594 \newcommandx{\cmdmthoparset}[2][2=]
                        {\usrmth{#1}{Set}{oparset}[#2]}
 \cmdmthsetext ... to do!
                   596 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                         {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                          \usrmthlet{\thestring}{Sym}{sym}
                   598
                            [\defval{#3}{\defval{\empchk{#2}}{\defval{\empchk{#2}}}}{\defval{\empchk{#2}}} 
                   599
                          \usrmthlet{\thestring}{Elm}{elm}
```

[\defval{#3}{\defval{\empchk{#2}{\lowercase{#2}}}{\thestring}}]}

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

```
\mthfun, ... to do!
                                                                   • \mathbb{S}_{sub}[Sub][Sup][Ext] = \mathbb{N}_{sub}Ext
                                                                   • \mthargfun{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 \left(Arg^{Ex^{Ex}}\right) Ext2
                                                                   \bullet \  \  \, \texttt{\bar{largfun*{Name}[sub][sup][Ext1]{Arg^{Ex^{-}{Ex}}}}[\texttt{Ext2}] = \mathsf{Name}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                   \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]} \  \, [\texttt{Ext2}] \  \, = \  \, \texttt{\bar{Name}} \  \, Ext1 \  \, \Big[ Par^{Ex^{Ex}} \Big] \  \, Ext2 \  \, ] \  \, Ext2 \  \, [Ext2] \  \, = \  \, \texttt{\bar{Name}} \  \, Ext1 \  \, \Big[ Par^{Ex^{Ex}} \Big] \  \, Ext2 \  \, Ext2 \  \, \Big] \  \, Ext2 \  \, Ext2
                                                                   615 %% Style for Functions
                                                          616 \mbox{\mbox{\mbox{$\sim$}} \mbox{\mbox{$\sim$}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{\mbox{$\sim$}}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbox{$\sim$}}} \mbox{\mbox{\mbo
             \aFun, ... to do!
                                                       \begin{array}{l} 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 \end{array}
                                                       \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
                                                          617 \seqoflet{Fun}{mthfun}
             \cmdmthfun ... to do!
                                                                   • \cmdmthfun{cmdName};
                                                                         \cmdNameFun[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                   • \cmdmthfun{cmdName}[NewName];
                                                                         \c MameFun[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                           618 \newcommandx{\cmdmthfun}[2][2=]
                                                                         {\usrmth{#1}{Fun}{fun}[#2]}
   \cmdmthargfun ... to do!
                                                                   • \cmdmthargfun{cmdName};
                                                                         \verb|\cmdNameFun[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg)ext2
                                                                   • \cmdmthargfun{cmdName}[NewName];
                                                                         \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                           620 \newcommandx{\cmdmthargfun}[2][2=]
                                                                         {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                                                   • \cmdmthoargfun{cmdName};
                                                                         \colon = cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                   • \cmdmthoargfun{cmdFun}[NewName];
                                                                         \verb|\cmdFunFun[sub][sub][arg]| = \verb|NewName|_{sub}^{sub}(arg)
                                                          622 \newcommandx{\cmdmthoargfun}[2][2=]
                                                          623 {\usrmth{#1}{Fun}{oargfun}[#2]}
   \cmdmthparfun ... to do!
                                                                   • \cmdmthparfun{cmdName};
                                                                         \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                   • \cmdmthparfun{cmdName} [NewName];
                                                                         \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                          624 \newcommandx{\cmdmthparfun}[2][2=]
                                                                       {\usrmth{#1}{Fun}{parfun}[#2]}
                                                          625
\cmdmthoparfun ... to do!
                                                                   • \cmdmthoparfun{cmdName};
                                                                         \verb|\cmdNameFun[sub][sub][par]| = \verb|\cmdName|^{sub}[par]|
                                                                   • \cmdmthoparfun{cmdFun} [NewName];
                                                                         \cmdFunFun[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                          626 \newcommandx{\cmdmthoparfun}[2][2=]
                                                          627 {\usrmth{#1}{Fun}{oparfun}[#2]}
```

```
\mthsym, ... to do!
                                                                                                       • \mathbb{E}_{sub}[Sub][Sup][Ext] = \mathbb{E}_{sub}Ext
                                                                                                        • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                        \bullet \  \, \texttt{\bar{Exx}{Ex}} [\texttt{Ext2}] = \texttt{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \texttt{\bar{Ext}{Ex}} [Ext2] = \texttt{\bar{Ext}{Ex}} [Par^{Ex^{Ex}}] Ext2 \Big] = \texttt{\bar{Ex}} [Ext2] = \texttt{\bar{Ex}} [Ex
                                                                                                        • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                           628 %% Style for Symbols
                                                                                         629 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}
                     \aggreen \
                                                                                     a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                                      A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                                      \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \zeta, \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
                                                                                          630 \seqoflet{Sym}{mthsym}
                     \cmdmthsym ... to do!
                                                                                                       \cmdmthsym{cmdName};
                                                                                                                \cmdmthsym{cmdName}[NewName];
                                                                                                                \c MameSym[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                                           631 \newcommandx{\cmdmthsym}[2][2=]
                                                                                                                {\usrmth{#1}{Sym}{sym}[#2]}
     \cmdmthargsym ... to do!
                                                                                                       • \cmdmthargsym{cmdName};
                                                                                                                 \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2|
                                                                                                       • \cmdmthargsym{cmdName}[NewName];
                                                                                                                \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameSym[sub][ext1]{arg}[ext2] = \verb|\cmdNameSym[sub][ext1]{arg}[ext2] = \verb|\cmdNameSym[sub][ext1][ext2] = \verb|\cmdNameSym[sub][ext1][ext2] = \verb|\cmdNameSym[sub][ext1][ext2] = \verb|\cmdNameSym[sub][ext1][ext2] = \verb|\cmdNameSym[sub][ext1][ext2] = \verb|\cmdNameSym[sub][ext1][ext2] = \verb|\cmdNameSym[sub][ext1][ext2][ext2] = \verb|\cmdNameSym[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][e
                                                                                           633 \newcommandx{\cmdmthargsym}[2][2=]
                                                                                                                  {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                                                       • \cmdmthoargsym{cmdName};
                                                                                                                \colon 
                                                                                                        • \cmdmthoargsym{cmdSym}[NewName];
                                                                                                                \verb|\cmdSymSym[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                                                          635 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                                                                {\usrmth{#1}{Sym}{oargsym}[#2]}
     \cmdmthparsym ... to do!
                                                                                                        \cmdmthparsym{cmdName};
                                                                                                                \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                                                        • \cmdmthparsym{cmdName}[NewName];
                                                                                                                \cmdNameSym[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                                          637 \mbox{ \newcommandx{\cmdmthparsym}[2][2=]}
                                                                                                              {\usrmth{#1}{Sym}{parsym}[#2]}
                                                                                         638
\cmdmthoparsym ... to do!
                                                                                                       • \cmdmthoparsym{cmdName};
                                                                                                                \c MameSym[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                                        \cmdmthoparsym{cmdSym}[NewName];
                                                                                                                \cmdSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                                           639 \newcommandx{\cmdmthoparsym}[2][2=]
                                                                                                             {\usrmth{#1}{Sym}{oparsym}[#2]}
```

```
\mthelm, ... to do!
                                                                                            \bullet \ \texttt{\normalfont{Name}[sub][sup][Ext]} = Name_{sub}^{sup}Ext 
                                                                                            \bullet \ \texttt{\normalfont{Name}[sub][sub][Ext1][Arg^{Ex^{*}}][Ext2]} = Name_{sub}^{sup}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big) = Name_{sub}^{sup}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big) = Name_{sub}^{sub}Ext1\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big) = Name_{sub}^{sub}Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex^{Ex}}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^{Ex}\Big)Ext2\Big(Arg^
                                                                                            \bullet \  \, \texttt{\colored} = Name \ 
                                                                                           • \mthparelm{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                                                                            • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                                641 %% Style for Elements
                                                                               642 \mbox{ \cmdmthall{elm}\newcommand{\mbox{\mbox{\cmthstyelm}}{\mbox{\cmdmthall}}}
                   \all lm, ... to do!
                                                                           a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                            A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                           \begin{array}{l} \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega\\ A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega \end{array}
                                                                                643 \seqoflet{Elm}{mthelm}
                   \cmdmthelm ... to do!
                                                                                           • \cmdmthelm{cmdName};
                                                                                                    \colon = cmdNameElm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                                            • \cmdmthelm{cmdName}[NewName];
                                                                                                    \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                                                                 644 \newcommandx{\cmdmthelm}[2][2=]
                                                                                                  {\usrmth{#1}{Elm}{elm}[#2]}
    \cmdmthargelm ... to do!
                                                                                           • \cmdmthargelm{cmdName};
                                                                                                    \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                           • \cmdmthargelm{cmdName}[NewName];
                                                                                                    \cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName^{sub}_{sub}ext1(arg)ext2
                                                                                 646 \newcommandx{\cmdmthargelm}[2][2=]
                                                                                                   {\usrmth{#1}{Elm}{argelm}[#2]}
\cmdmthoargelm ... to do!
                                                                                           • \cmdmthoargelm{cmdName};
                                                                                                    \colon 
                                                                                            • \cmdmthoargelm{cmdElm}[NewName];
                                                                                                    \verb|\cmdElmElm[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                                                                648 \newcommandx{\cmdmthoargelm}[2][2=]
                                                                                649 {\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
                                                                                650 \newcommandx{\cmdmthparelm}[2][2=]
                                                                               651 {\usrmth{#1}{Elm}{parelm}[#2]}
\cmdmthoparelm ... to do!
                                                                                           • \cmdmthoparelm{cmdName};
                                                                                                    \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                                                                            • \cmdmthoparelm{cmdElm}[NewName];
                                                                                                    \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                                                                                 652 \newcommandx{\cmdmthoparelm}[2][2=]
                                                                                653 {\usrmth{#1}{Elm}{oparelm}[#2]}
```

```
\cmdmthsymelm ... to do!
                                                                                          \cmdmthsymelm{cmdName};
                                                                                                 \colonerge{cmdNameSym[sub][sub][ext]} = cmdName_{sub}^{sub}ext
                                                                                                 {\tt \cmdNameElm[sub][sub][ext]} = cmdName^{sub}_{sub}ext
                                                                                          • \cmdmthsymelm{cmdName}[NewName];
                                                                                                 \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                                                                 \cmdNameElm[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                               655 \mbox{ \cmdmthsymelm}[2][2=]
                                                                                                   {\cmdmthsym{#1}[#2]%
                                                                               657
                                                                                                    \cmdmthelm{#1}[#2]}
   \c cmdmthargsymelm ... to do!
                                                                                         • \cmdmthargsymelm{cmdName};
                                                                                                 \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2|
                                                                                                 \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                          • \cmdmthargsymelm{cmdName}[NewName];
                                                                                                 \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|_{sub}^{sub} ext1(arg) ext2
                                                                                                 \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                                658 \newcommandx{\cmdmthargsymelm}[2][2=]
                                                                                                    {\cmdmthargsym{#1}[#2]%
                                                                               660
                                                                                                    \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                                                                          \cmdmthoargsymelm{cmdName};
                                                                                                 \cmdNameSym[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                                 \colon dNameElm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                          • \cmdmthoargsymelm{cmdName}[NewName];
                                                                                                 \colone{line} 
                                                                                                 \colone{locality} \colone{lo
                                                                                661 \newcommandx{\cmdmthoargsymelm}[2][2=]
                                                                                                   {\cmdmthoargsym{#1}[#2]%
                                                                                                    \cmdmthoargelm{#1}[#2]}
                                                                               663
   \cmdmthparsymelm ... to do!
                                                                                          \cmdmthparsymelm{cmdName};
                                                                                                 \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                                                 \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                                                          • \cmdmthparsymelm{cmdName}[NewName];
                                                                                                 \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames|^{sub}_{sub}ext1[par]ext2|
                                                                                                 \colone{lm} [sub] [sub] [ext1] [par] [ext2] = NewName_{sub}^{sub} ext1[par] ext2
                                                                                664 \newcommandx{\cmdmthparsymelm}[2][2=]
                                                                                                     {\cmdmthparsym{#1}[#2]%
                                                                               666
                                                                                                    \cmdmthparelm{#1}[#2]}
                                                                         ... to do!
\cmdmthoparsymelm
                                                                                          • \cmdmthoparsymelm{cmdName};
                                                                                                 \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|^{sub}_{sub}[par]|
                                                                                                 \colone{locality} \colone{lo
                                                                                          \cmdmthoparsymelm{cmdName}[NewName];
                                                                                                 \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                                                                                                 667 \newcommandx{\cmdmthoparsymelm}[2][2=]
                                                                                                     {\cmdmthoparsym{#1}[#2]%
                                                                                                    \cmdmthoparelm{#1}[#2]}
                                                                               \mthluop, ... to do!
```

```
• \mthluop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                                      • \mthlbop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                               671 %% Style for \LaTex Operators
                                                672 \mbox{ \normand{\mbstyluop}[1]{\textstyle\mathop{#1}}}
                                               673 \cmdmth{lbop}\newcommand{\mthstylbop}[1]{\textstyle\mathbin{#1}}
\cmdmthluop, ... to do!
                                                      \cmdmthluop{cmdName};
                                                          \verb|\cmdNameUOp[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                                                      • \cmdmthluop{cmdName}[\oplus];
                                                          \verb|\cmdNameUOp[sub][sub][ext]| = \oplus_{sub}^{sub} ext
                                                      • \cmdmthlbop{cmdName};
                                                          \cmdNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                      • \cmdmthlbop{cmdName}[\oplus];
                                                          \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                                                674 \newcommandx{\cmdmthluop}[2][2=]
                                                675 {\usrmth{#1}{UOp}{luop}[#2]}
                                               676 \newcommandx{\cmdmthlbop}[2][2=]
                                                         {\usrmth{#1}{BOp}{1bop}[#2]}
                    \mthlrel ... to do!
                                                     • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                               678 %% Style for \LaTex Relations
                                               679 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
            \cmdmthlrel ... to do!
                                                     • \cmdmthlrel{cmdName};
                                                          \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}\ ext|
                                                      • \cmdmthlrel{cmdName}[\preceq];
                                                          \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                                                680 \newcommandx{\cmdmthlrel}[2][2=]
                                                         {\usrmth{#1}{Rel}{lrel}[#2]}
                                               \mthsnt, ... to do!
                                                     • \mathbb{N} [sub] [sup] [Ext] = \mathbb{N} = \mathbb{N}
                                                     \bullet \  \  \, \texttt{Name}[sub][sup][Ext1] \{ \texttt{Arg} \  \  \, \texttt{Ex} \} \} [Ext2] = \mathsf{Name}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \Big) = \mathsf{Name}^{sup}_{sub} Ext2 \Big) = \mathsf{Name}^{sub}_{sub} Ext2 \Big) =
                                                     \bullet \  \  \, \texttt{Name} \texttt{[sub][sup][Ext1]\{Arg^{\{Ex^{}\}}\}[Ext2]} = \mathsf{Name}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                     • \mthparsnt{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                      683 %% Style for Sentences
                                               684 \verb|\cmdmthall{snt}\\ \newcommand{\verb|\mthstysnt|}{\mathsf}
               \aSnt, ... to do!
                                             a,\,b,\,c,\,d,\,e,\,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                                             A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                             \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                             \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\Delta,\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\Sigma,\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                               685 \seqoflet{Snt}{mthsnt}
               \cmdmthsnt ... to do!
                                                     \cmdmthsnt{cmdName};
                                                          \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                                                      • \cmdmthsnt{cmdName}[NewName];
                                                          \verb|\cmdNameSnt[sub][sub][ext]| = \verb|NewName|_{sub}^{sub} ext|
```

```
686 \newcommandx{\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];
                           \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      688 \newcommandx{\cmdmthargsnt}[2][2=]
                          {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                         \cmdmthoargsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\cmdName|_{sub}^{sub}(arg)|
                         • \cmdmthoargsnt{cmdName}[NewName];
                           \colon = NewNameSnt[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                      690 \newcommandx{\cmdmthoargsnt}[2][2=]
                          {\usrmth{#1}{Snt}{oargsnt}[#2]}
 \cmdmthparsnt ... to do!
                         • \cmdmthparsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                         • \cmdmthparsnt{cmdName}[NewName];
                           \cmdNameSnt[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                      692 \newcommandx{\cmdmthparsnt}[2][2=]
                           {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                         \cmdmthoparsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdNameSnt[sub][par]|
                         • \cmdmthoparsnt{cmdName}[NewName];
                           \colon = NewNameSnt[sub][sub][par] = NewName_{sub}^{sub}[par]
                      694 \newcommandx{\cmdmthoparsnt}[2][2=]
                      695 {\usrmth{#1}{Snt}{oparsnt}[#2]}
  \mthfrm, ... to do!
                         • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                         • \mthargfrm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                         • \mthargfrm*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                         • \mthparfrm{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                         \bullet \  \  \, \texttt{\bare}[sub][sub][sup][Ext1][Par^{Ex^*}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                      696 %% Style for Formulae
                      697 \mbox{\cmmand{\mathbf{frm}}\newcommand{\mathbf{frm}}{\mathbf{frm}}}
     \aFrm, ... to do!
                     a,\ b,\ c,\ d,\ e,\ f,\ g,\ h,\ i,\ j,\ k,\ l,\ m,\ n,\ o,\ p,\ q,\ r,\ s,\ t,\ u,\ v,\ w,\ x,\ y,\ z
                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                     A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\varUpsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                      698 \seqoflet{Frm}{mthfrm}
     \cmdmthfrm ... to do!
                         • \cmdmthfrm{cmdName};
                           \verb|\cmdNameFrm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                         • \cmdmthfrm{cmdName}[NewName];
                           \verb|\cmdNameFrm[sub][sub][ext]| = NewName_{sub}^{sub}ext
```

```
699 \newcommandx{\cmdmthfrm}[2][2=]
                        {\usrmth{#1}{Frm}{frm}[#2]}
 \cmdmthargfrm ... to do!
                      • \cmdmthargfrm{cmdName};
                        \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                      • \cmdmthargfrm{cmdName}[NewName];
                        \cmdNameFrm[sub] [sub] [ext1] {arg} [ext2] = NewName_{sub}^{sub}ext1(arq)ext2
                   701 \newcommandx{\cmdmthargfrm}[2][2=]
                   702 {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                      • \cmdmthoargfrm{cmdName};
                        \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                      • \cmdmthoargfrm{cmdName}[NewName];
                        \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                    703 \newcommandx{\cmdmthoargfrm}[2][2=]
                   704 {\usrmth{#1}{Frm}{oargfrm}[#2]}
 \cmdmthparfrm ... to do!
                      • \cmdmthparfrm{cmdName};
                        \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                      • \cmdmthparfrm{cmdName}[NewName];
                        \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                   705 \newcommandx{\cmdmthparfrm}[2][2=]
                        {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                      • \cmdmthoparfrm{cmdName};
                         \verb|\cmdNameFrm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                      • \cmdmthoparfrm{cmdName}[NewName];
                        \cmdNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                    707 \newcommandx{\cmdmthoparfrm}[2][2=]
                        {\usrmth{#1}{Frm}{oparfrm}[#2]}
                   \mthmat, ... to do!
                      • \mathbb{E}_{sub}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                      • \mthargmat{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                      • \mthargmat*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                      • \mthparmat{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      • \mthparmat*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                    710 %% Style for Matrices
                   711 \cmdmthall{mat}\newcommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
                  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
                   712 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                      \cmdmthmat{cmdName};
                        \cmdNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
```

```
\cmdmthmat{cmdName} [NewName];
                         \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName|^{sub}_{sub}ext|
                    713 \newcommandx{\cmdmthmat}[2][2=]
                         {\usrmth{#1}{Mat}{mat}[#2]}
 \cmdmthargmat ... to do!
                       • \cmdmthargmat{cmdName};
                         \cmdNameMat[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                       • \cmdmthargmat{cmdName}[NewName];
                         \c Mame Mat[sub][sub][ext1]{arg}[ext2] = New Name _{sub}^{sub} ext1(arg)ext2
                    715 \newcommandx{\cmdmthargmat}[2][2=]
                    716 {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                       • \cmdmthoargmat{cmdName};
                         \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                       • \cmdmthoargmat{cmdName}[NewName];
                         \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                    717 \newcommandx{\cmdmthoargmat}[2][2=]
                    718 {\usrmth{#1}{Mat}{oargmat}[#2]}
 \cmdmthparmat ... to do!
                       • \cmdmthparmat{cmdName};
                         \cmdNameMat[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                       • \cmdmthparmat{cmdName}[NewName];
                         \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                    719 \newcommandx{\cmdmthparmat}[2][2=]
                         {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                       • \cmdmthoparmat{cmdName};
                         \colon = cmdName_{sub}^{sub}[par] = cmdName_{sub}^{sub}[par]
                       • \cmdmthoparmat{cmdName}[NewName];
                         \cmb{NameMat}[sub][sub][par] = NewName_{sub}^{sub}[par]
                    721 \newcommandx{\cmdmthoparmat}[2][2=]
                         {\usrmth{#1}{Mat}{oparmat}[#2]}
  \mthvec, ... to do!
                       • \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                       • \mthargvec{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                       • \mthargvec*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                       \bullet \  \, \texttt{\bar{Ext1}[Ext1][Ext1][Ext2]} = Name_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2
                       • \mthparvec*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                    723 %% Style for Vectors
                    724 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
    \aVec, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                   \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, v, \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
                    725 \sline {\vec}{mthvec}
    \cmdmthvec ... to do!
                       \cmdmthvec{cmdName};
                         \verb|\cmdNameVec[sub][sub][ext]| = cmdName^{sub}_{sub}ext|
```

```
• \cmdmthvec{cmdName} [NewName];
                  \cmdNameVec[sub][sub][ext] = NewName_{sub}^{sub}ext
              726 \newcommandx{\cmdmthvec}[2][2=]
                  {\usrmth{#1}{Vec}{vec}[#2]}
\cmdmthargvec ... to do!
                • \cmdmthargvec{cmdName};
                  \cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arq)ext2
                • \cmdmthargvec{cmdName}[NewName];
                  \cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arq)ext2
              728 \newcommandx{\cmdmthargvec}[2][2=]
                 {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                • \cmdmthoargvec{cmdName};
                  \verb|\cmdNameVec[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                • \cmdmthoargvec{cmdName}[NewName];
                  \colon = NewName_{sub}^{sub}[arg] = NewName_{sub}^{sub}(arg)
              730 \newcommandx{\cmdmthoargvec}[2][2=]
                 {\usrmth{#1}{Vec}{oargvec}[#2]}
\cmdmthparvec ... to do!
                \cmdmthparvec{cmdName};
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = cmdName^{sub}_{sub}ext1[par]ext2
                • \cmdmthparvec{cmdName} [NewName];
                  \cmdNameVec[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
              732 \newcommandx{\cmdmthparvec}[2][2=]
                  {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                • \cmdmthoparvec{cmdName};
                  \colon dNameVec[sub][sub][par] = cmdName^{sub}_{sub}[par]
                • \cmdmthoparvec{cmdName}[NewName];
                  \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
              734 \newcommandx{\cmdmthoparvec}[2][2=]
              735 {\usrmth{#1}{Vec}{oparvec}[#2]}
              736 \fi
              741 \iftxt@
              \adhoc
                • \adhoc = ad\ hoc
              743 \cmdtxtabr{adhoc}[ad hoc]
                • \arrange a fortiori
   \afortiori
              744 \cmdtxtabr{afortiori}[a fortiori]
                • \arrange a priori
     \apriori
              745 \cmdtxtabr{apriori}[a priori]
 \aposteriori
                • \aposteriori = a posteriori
              746 \cmdtxtabr{aposteriori}[a posteriori]
         \cf
                • \backslash cf = cf.
              747 \cmdtxtabr{cf}[cf.]
```

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

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

```
\aka
            789 \cmdtxtabr{aka}[a.k.a.]
     \contd
            • \contd = contd.
           790 \cmdtxtabr{contd}[contd.]
      \iff
            • \iff = iff
           791 \cmdtxtabr{iff}
      \iht
            • \iht = i.h.t.
           792 \cmdtxtabr{iht}[i.h.t.]
            • \ \ \ \ \ \ s.t.
      \stx
           793 \cmdtxtabr{stx}[s.t.]
            • \resp = resp.
      \resp
           794 \cmdtxtabr{resp}[resp.]
            • \wrt = w.r.t.
      \wrt
           795 \cmdtxtabr{wrt}[w.r.t.]
            • \wdots w.l.o.g.
     \wlogx
           796 \cmdtxtabr{wlogx}[w.l.o.g.]
           • \Contd = Contd.
     \Contd
           798 \cmdtxtabr{Contd}[Contd.]
     \Wlogx
            • \Wlogx = W.l.o.g.
           799 \cmdtxtabr{Wlogx}[W.l.o.g.]
           800 \fi
           805 \ifmth@
           \defeq, \seteq ...
          807 \DeclareRobustCommand{\defeq}
             {\@ifstar%
          808
               {\bf \{\text{\textup{def}}\}{=}}}%
           809
               {\mthlbop{\triangleq}}}
           810
           811 \DeclareRobustCommand{\seteq}
             {\@ifstar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
           \implies, ... ...
          814 \DeclareRobustCommand{\implies}
             {\mthlrel{\Rightarrow}}
           816 \DeclareRobustCommand{\notimplies}
          817 {\mthlrel{\not\Rightarrow}}
\implied, ... ...
          818 \DeclareRobustCommand{\implied}
           819 {\mthlrel{\Leftarrow}}
           820 \DeclareRobustCommand{\notimplied}
           821 {\mthlrel{\not\Leftarrow}}
```

```
\coimplies, ... ...
                                                                                      822 \verb|\DeclareRobustCommand{\coimplies}|
                                                                                      823 {\mthlrel{\Leftrightarrow}}
                                                                                       824 \DeclareRobustCommand{\notcoimplies}
                                                                                       825 {\bf \{not}!\Leftrightarrow\}}
                                                                                       \cmodels, ... ...
                                                                                      827 \DeclareRobustCommand{\cmodels}
                                                                                      828 {\mthlrel{\models}}
                                                                                       829 \DeclareRobustCommand{\notcmodels}
                                                                                       830 {\mthlrel{\not\models}}
                     \cequiv, ... ...
                                                                                      831 \DeclareRobustCommand{\cequiv}
                                                                                       832 {\mthlrel{\equiv}}
                                                                                       833 \DeclareRobustCommand{\notcequiv}
                                                                                       834 {\mthlrel{\not\equiv}}
                                                                                       \denot ...
                                                                                      836 \DeclareRobustCommand{\denot}
                                                                                       837 {\@ifstar{\@denot}{\@denot[\left][\right]}}
                                                                                       838 \DeclareRobustCommandx{\@denot}[3][1=, 2=]
                                                                                                           {\mth{\argmid{#1\llbracket}{#3}{#2\rrbracket}}}
                                                                                       \dual, \adj, ...
                                                                                      841 \DeclareRobustCommand{\dual}[1]
                                                                                      842 {\mth{\overline{#1}}}
                                                                                      843 \DeclareRobustCommand{\adj}[1]
                                                                                      844 {\mth{\mathring{#1}}}
                                                                                       845 \DeclareRobustCommand{\der}[1]
                                                                                       846 {\mth{\widehat{#1}}}
                                                                                       847 \DeclareRobustCommand{\trn}[1]
                                                                                       848 {\mth{\widetilde{#1}}}
                                                        \vec ...
                                                                                       849 \DeclareRobustCommand{\vec}
                                                                                       850 {\@ifstar{\@svec}{\@vec}}
                                                                                       851 \DeclareRobustCommand{\@vec}[1]
                                                                                       852 {\mth{\mathaccent"017E{#1}}}
                                                                                        853 \DeclareRobustCommand{\@svec}[1]
                                                                                                       {\mth{\overline{#1}}}
                                                                                       \enumeration, ... ...
                                                                                      856 \varcmd{enumeration}{\mth}{}{,}{}{}
                                                                                      857 \voremmath{\mbox{varcmd}\{\mbox{enumerationx}}{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mb
            \sequence, ... ...
                                                                                        858 \DeclareRobustCommand{\sequence}
                                                                                                          {\@ifstar{\@ssequence}{\@sequence}}
                                                                                        860 \varcmd{@sequence}{\mth}{\left[\frac{1}{,}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}{\left[\right]\frac{1}{,}}
                                                                                       862 \verb|\DeclareRobustCommand{\sequencel}|
                                                                                       863 {\@ifstar{\@ssequencel}{\@sequencel}}
                                                                                       864 \c {\tt Mth}{\tt [}{\tt,}{\tt ight.}{\tt ig
                                                                                        865 \varcmd{@ssequencel}{\mth}{[}{,}{}}
```

```
866 \DeclareRobustCommand{\sequencer}
                {\@ifstar{\@ssequencer}{\@sequencer}}
            868 \varcmd{@sequencer}{\mth}{\left.}{,}{\right]}{}
            870 \DeclareRobustCommand{\sequencex}
            871 {\@ifstar{\@ssequencex}{\@sequencex}}
            873 \varcmd{@ssequencex}{\mth}{[]{;}{]}}{}
            874 \DeclareRobustCommand{\sequencex1}
            875 {\@ifstar{\@ssequencexl}{\@sequencexl}}
            876 \varcmd{@sequencexl}{\mth}{\left[}{;}{\right.}{}
            877 \varcmd{@ssequencex1}{\mth}{[]{;}{}}
            878 \DeclareRobustCommand{\sequencexr}
                 {\@ifstar{\@ssequencexr}{\@sequencexr}}
            880 \varcmd{@sequencexr}{\mth}{\left.}{;}{\right]}{}
            881 \varcmd{@ssequencexr}{\mth}{}{;}{]}{}
\tuple, ...
            882 \DeclareRobustCommand{\tuple}
                {\@ifstar{\@stuple}{\@tuple}}
            884 \varcmd{@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
            885 \varcmd{@stuple}{\mth}{\langle}{,}{\rangle}{}
            886 \DeclareRobustCommand{\tuplel}
                {\@ifstar{\@stuplel}{\@tuplel}}
            888 \varcmd{@tuplel}{\mth}{\left\langle}{,}{\right.}{}
            889 \varcmd{@stuplel}{\mth}{\langle}{,}{}}
            890 \DeclareRobustCommand{\tupler}
            891 {\@ifstar{\@stupler}{\@tupler}}
            892 \c {\tt Qtupler}{\tt t.}{\tt,}{\tt right\rangle}{\tt}
            893 \varcmd{@stupler}{\mth}{}{,}{\mrms}{}
            894 \DeclareRobustCommand{\tuplex}
            895 {\@ifstar{\@stuplex}{\@tuplex}}
            896 \varcmd{@tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
            897 \varcmd{@stuplex}{\mth}{\langle}{;}{\rangle}{}
            898 \DeclareRobustCommand{\tuplex1}
            899 {\@ifstar{\@stuplexl}{\@tuplexl}}
            900 \varcmd{@tuplexl}{\mth}{\left\langle}{;}{\right.}{}
            901 \varcmd{@stuplexl}{\mth}{\langle}{;}{}}
            902 \DeclareRobustCommand{\tuplexr}
            903 {\@ifstar{\@stuplexr}{\@tuplexr}}
            905 \\ \varcmd{@stuplexr}{\mth}{}{;}{\rangle}{}
            \set, ... ...
            907 \DeclareRobustCommand{\set}
            908 {\@ifstar{\@set}{\@set[\left][\middle][\right]}}
            909 \DeclareRobustCommandx{\@set}[5][1=, 2=, 3=]
            910 {\mth{\argmid{#1\lbrace}{\argsep{#4}{\,#2\vert\,}{#5}}{#3\rbrace}}}
            911 \DeclareRobustCommand{\set1}
            912 {\@ifstar{\@setl}{\@setl[\left][\right]}}
            913 \DeclareRobustCommandx{\@set1}[3][1=, 2=]
            914 {\mth{\argmid{#1\lbrace}{#3}{\,#2\vert\!}}}
            915 \DeclareRobustCommand{\setr}
                {\@ifstar{\@setr}{\@setr[\left.][\right]}}
            917 \DeclareRobustCommandx{\@setr}[3][1=, 2=]
                {\mth{\argmid{#1}{#3}{#2\rbrace}}}
     \card ...
            919 \DeclareRobustCommand{\card}
            920 {\@ifstar{\@card}{\@card[\left][\right]}}
            921 \DeclareRobustCommandx{\@card}[3][1=, 2=]
            922 {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
```

```
\pow ...
           923 \DeclareRobustCommand{\pow}[1]
           \emptyrel
           926 \DeclareRobustCommand{\emptyrel}
           927 {\mth{\varnothing}}
           \dom, \cod, ... ...
           929 \usrmth{dom}{}{argfun}
           930 \usrmth{cod}{}{argfun}
           931 \usrmth{rng}{}{argfun}
           932 \usrmth{img}{}{argfun}
           \prj ...
           934 \DeclareRobustCommand{\prj}
           935 {\mthargfun{prj}}
       \rst ...
           936 \DeclareRobustCommand{\rst}
           937 {\mthlbop{\upharpoonright}}
       \cmp ...
           938 \DeclareRobustCommand{\cmp}
             {\mthlbop{\circ}}
           \emptyfun
           941 \DeclareRobustCommand{\emptyfun}
             {\mth{\varnothing}}
           \pto, \pmapsto
           944 \DeclareMathOperator{\pto}
             {\ensuremath{\rightharpoonup}}
           946 \DeclareMathOperator{\pmapsto}
              \kern-1.5ex\rightharpoonup}}}
           \fix, \ifp, ... ...
           950 \usrmth{fix}{}{fun}
           951 \usrmth{ifp}{}{fun}
           952 \mbox{ \normalfp}{{fun}}
           953 \usrmth{gfp}{}{fun}
           \Aomega, \AOmega
           955 \usrmth{Aomega}{}{argset}[\omega]
           956 \usrmth{AOmega}{}{argset}[\Omega]
\Atheta, \ATheta ...
           957 \usrmth{Atheta}{}{argset}[\theta]
           958 \usrmth{ATheta}{}{argset}[\Theta]
```

```
\Aomicron, ... ...
               959 \usrmth{Aomicron}{}{argset}[\omicron]
               960 \usrmth{AOmicron}{}{argset}[\Omicron]
               \SetB ...
               962 \DeclareRobustCommand{\SetB}
               963 {\mthset[mathbb]{B}}
        \SetF ...
               964 \DeclareRobustCommand{\SetF}
               965 {\mthset[mathbb]{F}}
   \SetN, ... ...
               966 \DeclareRobustCommand{\SetN}
               967 {\mthset[mathbb]{N}}
               968 \DeclareRobustCommand{\SetNI}[1][]
               969 {\SetN[\infty #1]}
   \SetZ, ... ...
               970 \DeclareRobustCommand{\SetZ}
               971 {\mthset[mathbb]{Z}}
               972 \DeclareRobustCommand{\SetZI}[1][]
               973 {\SetZ[\pm\infty #1]}
               974 \DeclareRobustCommand{\SetZPI}[1][]
               975 {\SetZ[+\infty #1]}
               976 \DeclareRobustCommand{\SetZNI}[1][]
               977 {\SetZ[-\infty #1]}
   \SetQ, ... ...
               978 \DeclareRobustCommand{\SetQ}
               979 {\mthset[mathbb]{Q}}
               980 \DeclareRobustCommand{\SetQI}[1][]
               981 {\SetQ[\pm\infty #1]}
               982 \DeclareRobustCommand{\SetQPI}[1][]
               983 {\SetQ[+\infty #1]}
               984 \DeclareRobustCommand{\SetQNI}[1][]
               985 {\SetQ[-\infty #1]}
   \SetR, ... ...
               986 \DeclareRobustCommand{\SetR}
               987 {\mthset[mathbb]{R}}
               988 \DeclareRobustCommand{\SetRI}[1][]
               989 {\SetR[\pm\infty #1]}
               990 \DeclareRobustCommand{\SetRPI}[1][]
               991 {\SetR[+\infty #1]}
               992 \DeclareRobustCommand{\SetRNI}[1][]
               993 {\SetR[-\infty #1]}
   \SetC, ... ...
               994 \DeclareRobustCommand{\SetC}
               995 {\mthset[mathbb]{C}}
               996 \DeclareRobustCommand{\SetCI}[1][]
               997 {\SetC[\infty #1]}
               \num, ... ...
              999 \DeclareRobustCommand{\num}[1]
              1000 {\mth{[#1]}}
              1001 \DeclareRobustCommand{\numcc}[2]
              1002 {\mth{[\argsep{#1}{,}{#2}]}}
```

```
1003 \DeclareRobustCommand{\numco}[2]
                                              {\mth{[\argsep{#1}{,}{#2})}}
                                   1005 \DeclareRobustCommand{\numoc}[2]
                                             {\mth{(\argsep{#1}{,}{#2}]}}
                                   1007 \DeclareRobustCommand{\numoo}[2]
                                              {\mth{(\argsep{#1}{,}{#2})}}
                                   \abs, \norm
                                   1010 \DeclareRobustCommand{\abs}
                                               {\@ifstar{\@abs}{\@abs[\left][\right]}}
                                   1012 \DeclareRobustCommandx{\@abs}[3][1=, 2=]
                                              {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
                                   1014 \DeclareRobustCommand{\norm}
                                               {\@ifstar{\@norm}{\@norm[\left][\right]}}
                                   1016 \DeclareRobustCommandx{\@norm}[3][1=, 2=]
                                              {\mth{\argmid{#1\lVert}{#3}{#2\rVert}}}
    \floor, \ceil ...
                                   1018 \DeclareRobustCommand{\floor}
                                               {\@ifstar{\@floor}{\@floor[\left][\right]}}
                                   1020 \DeclareRobustCommandx{\@floor}[3][1=, 2=]
                                               {\mth{\argmid{#1\lfloor}{#3}{#2\rfloor}}}
                                   1022 \DeclareRobustCommand{\ceil}
                                               {\@ifstar{\@ceil}{\@ceil[\left][\right]}}
                                   1024 \DeclareRobustCommandx{\@ceil}[3][1=, 2=]
                                             {\mth{\argmid{#1\lceil}{#3}{#2\rceil}}}
                                   \arg ...
                                   \evn, \odd ...
                                   1028 \mbox{ \norm}{fun}{fun}
                                   1029 \mbox{ \norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\norm}{\n
            \bst, ... ...
                                   1030 \mbox{ \norm} \{bst}{\fun}
                                   1031 \usrmth{argbst}{}{fun}[arg\,bst]
\min, \max, ... ...
                                   1032 \mbox{ }\mbox{usrmth{min}{fmin}{fun}}
                                   1033 \operatorname{menth{max}{fun}}
                                   1034 \usrmth{argmin}{}{fun}[arg\,min]
                                   1035 \mbox{usrmth{argmax}{fun}[arg\mbox{,max}]}
          \inf, \sup ...
                                   1036 \mbox{ }\mbox{usrmth{inf}{fun}}
                                   1037 \sl \{sup}{fun}
                                   \emptyseq
                                   1039 \DeclareRobustCommand{\emptyseq}
                                             {\mth{\varepsilon}}
                                   1040
                      \len ...
                                   1041 \DeclareRobustCommand{\len}
                                              {\@ifstar{\@len}{\@len[\left][\right]}}
                                   1043 \DeclareRobustCommandx{\@len}[3][1=, 2=]
                                             {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
```

```
\fst, \lst ...
                           1045 \mbox{ } \mbox
                           1046 \usrmth{lst}{}{argfun}
                           1047 \fi
                           1052 \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)
                           1053 \newcommandx{\defcomcls}[2][2=]
                                   {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
                                • \defcomclsgrp{CompClass};
                                    \verb|\CompClass[sub][sup][arg]| = \operatorname{COMPCLASS_{SUB}^{SUP}(ARG)}|
                                    \verb|\CoCompClass[sub][sup][arg]| = CoCompClass[$^{SUP}_{SUB}(ARG)|
                                    \verb|\CompClassE[sub][sup][arg]| = CompClass-Easy_{SUB}^{SUP}(ARG)
                                    \CoCompClassE[sub][sup][arg] = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                                    \verb|\CompClassH[sub][sup][arg]| = CompClass-Hard_{SUB}^{SUP}(ARG)
                                    \verb|\CoCompClassH[sub][sup][arg]| = CoCompClass-Hard_{SUB}^{SUP}(ARG)
                                    \verb|\CompClassC[sub][sup][arg]| = CompClass-complete_{SUB}^{SUP}(ARG)
                                   \verb|\CoCompClassC[sub][sup][arg]| = CoCompClass-complete_{SuB}^{SUP}(ARG)
                                   \DCompClass[sub][sup][arg] = DCompClass[sub](ARG)
                                   \CoDCompClass[sub][sup][arg] = CoDCompCLASS_{SUB}^{SUP}(ARG)
                                   \label{eq:decompClassEsub} $$ [\sup] [arg] = DCOMPCLASS-EASY_{SUB}^{SUP}(ARG) $$
                                   \verb|\CoDCompClassE[sub][sup][arg]| = CoDCoMPCLASS-EASY_{SUB}^{SUP}(ARG)
                                    \verb|\DCompClassH[sub][sup][arg]| = 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)
                                   \NCompClass[sub][sup][arg] = NCompCLASS_{SUB}^{SUP}(ARG)
                                    \verb|\ConCompClass[sub][sup][arg]| = ConCompClass_{SUB}^{SUP}(ARG)
                                   \NCompClassE[sub][sup][arg] = NCompClass-Easy_{SUB}^{SUP}(ARG)
                                    \ConCompClassE[sub][sup][arg] = ConCompClass-Easy_{SUB}^{SUP}(ARG)
                                   \NCompClassH[sub][sup][arg] = NCompClass-Hard_{SUB}^{SUP}(ARG)
                                    \ConCompClassH[sub][sup][arg] = ConCompClass-Hard_{SUB}^{SUP}(ARG)
                                    \NCompClassC[sub][sup][arg] = NCOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                                   \ConCompClassC[sub][sup][arg] = ConCompClass-Complete_{SUB}^{SUP}(ARG)
                                   \UCompClass[sub][sup][arg] = UCompClass_{SUB}^{SUP}(ARG)
                                   \verb|\CoUCompClass[sub][sup][arg]| = CoUCompClass_{SUB}^{SUP}(ARG)
                                   \verb|\UCompClassE[sub][sup][arg]| = UCOMPCLASS-EASY_{SUB}^{SUP}(ARG)
                                   \verb|\CoUCompClassE[sub][sup][arg]| = CoUCoMPCLASS-EASY_{SUB}^{SUP}(ARG)
                                   \verb|\UCompClassH[sub][sup][arg]| = UCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
                                   \verb|\CoUCompClassH[sub][sup][arg]| = CoUCompClass-Hard_{SUB}^{SUP}(ARG)
                                   \Coulomb{CoulompClassC[sub][sup][arg]} = CoulompClass-Complete_{Sub}^{SUP}(ARG)
                                   \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
```

```
\CoACompClass[sub][sup][arg] = CoACompCLass_{SUB}^{SUP}(ARG)
      \triangle CompClassE[sub][sup][arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)
      \verb|\CoACompClassE[sub][sup][arg]| = CoACompClass-Easy_{SUB}^{SUP}(ARG)
      \label{eq:acompClassHard} $$ \Delta CompClassHard_{SUB}^{SUP}(ARG) = ACompClass-Hard_{SUB}^{SUP}(ARG) $$
      \verb|\CoACompClassH[sub][sup][arg]| = CoACompClass-Hard_{SUB}^{SUP}(ARG)
      \verb|\ACompClassC[sub][sup][arg]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \CoACompClassC[sub][sup][arg] = CoACompClass-Complete_{SUB}^{SUP}(ARG)
    \defcomclsgrp{CompClass}[NewClass];
      \CompClass[sub][sup][arg] = NEWCLASS_{SUB}^{SUP}(ARG)
      \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}^{SUB}(ARG)
      \verb|\CompClassH[sub][sup][arg]| = NewClass-Hard_{SUB}^{SUP}(ARG)
      \CoCompClassH[sub][sup][arg] = CONEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \CompClassC[sub][sup][arg] = NewClass-Complete_{SUB}^{SUP}(ARG)
      \CoCompClassC[sub][sup][arg] = CoNewClass-CompLete_{SUB}^{SUP}(ARG)
      \verb|\DCompClass[sub][sup][arg]| = DNewClass_{SUB}^{SUP}(ARG)
      \verb|\CoDCompClass[sub][sup][arg]| = CoDNewClass_{SUB}^{SUP}(ARG)
      \label{eq:decompClassEsub} $$ [\sup] [arg] = DNEWCLASS-EASY_{SUB}^{SUP}(ARG) $$
      \CoDCompClassE[sub][sup][arg] = CoDNEWCLASS-EASY_{SUB}^{SUP}(ARG)
      \label{eq:decompClassH} $$\D{\compClassH[sub][sup][arg]} = DNEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{Sub}^{SUP}(ARG)
      \label{eq:decompClassC} $$\D{\compClassC[sub][sup][arg]} = DNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \verb|\CoDCompClassC[sub][sup][arg]| = CoDNewClass-Complete_{SUB}^{SUP}(ARG)
      \verb|\NCompClass[sub][sup][arg]| = NNEWCLASS_{SUB}^{SUP}(ARG)
      \verb|\CoNCompClass[sub][sup][arg]| = CoNNewClass_{SUB}^{SUP}(ARG)
      \NCompClassE[sub][sup][arg] = NNEWCLASS-EASY_{SUB}^{SUP}(ARG)
      \ConCompClassE[sub][sup][arg] = ConNewClass-Easy_{SUB}^{SUP}(Arg)
      \verb|\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)
      \verb|\CoUCompClass[sub][sup][arg]| = CoUNEWCLASS_{SUB}^{SUP}(ARG)
      \UCompClassE[sub][sup][arg] = UNEWCLASS-EASY_{SUB}^{SUP}(ARG)
      \Coulomb Class E[sub][sup][arg] = Counting Class-Easy_{SUB}^{SUP}(ARG)
      \UCompClassH[sub][sup][arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \verb|\CoUCompClassH[sub][sup][arg]| = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \Coulomb Class C[sub][sup][arg] = Council New Class-Complete E_{Sub}^{SUP}(ARG)
      \Lambda CompClass[sub][sup][arg] = ANEWCLASS_{SUB}^{SUP}(ARG)
      \CoACompClass[sub][sup][arg] = CoANEWCLASS_{SUB}^{SUP}(ARG)
      \verb|\ACompClassE[sub][sup][arg]| = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
      \verb|\CoACompClassE[sub][sup][arg]| = CoANewClass-Easy_{SUB}^{SUP}(ARG)
      \label{eq:accompClassH} $$ \Delta CompClassH[sub][sup][arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
      \CoACompClassH[sub][sup][arg] = CoANEWCLASS-HARD_{SUB}^{SUP}(ARG)
      \verb|\ACompClassC[sub][sup][arg]| = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
      \CoACompClassC[sub][sup][arg] = CoANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
1055 \newcommandx{\defcomclsgrp}[2][2=]
       {\displaystyle \{ \cdot \}_{i=1}^{t} }
       \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
1058 \newcommandx{\defcomclsgrpsem}[3][3=]
       {\defcomclsgrpred{#3#1}{#2}[#3]%
       \defcomclsgrpred{#3D#1}{#2}[#3D]%
       \defcomclsgrpred{#3N#1}{#2}[#3N]%
       \defcomclsgrpred{#3U#1}{#2}[#3U]%
       \defcomclsgrpred{#3A#1}{#2}[#3A]}
1064 \newcommandx{\defcomclsgrpred}[3][3=]
      {\defcomclsgrpcmd{#1}{#2}[#3]%
```

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1059

1060 1061

```
\defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                   1067
                         \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                   1068
                         \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                   1069 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                         {\csdef{#1}{\txtoargcom{#3#2#4}}}
       \defcomhrc ... to do!
                       \defcomhrc{CompHierarchy};
                         CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                       • \defcomhrc{CompHierarchy} [NewHierarchy];
                         CompHierarchy[sub] [sup] [par] = NEWHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                   1071 \newcommandx{\defcomhrc}[2][2=]
                         {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
                   \Easy, \Hard, ...
                   1074 \cmdtxtcom{Easy}
                   1075 \cmdtxtcom{Hard}
                   1076 \cmdtxtcom{Complete}
                   • \FPT[sub] [sup] [arg] = FPT_{SUB}^{SUP}(ARG)
             \FPT
                   1078 \defcomcls{FPT}
                   • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
       \Time, ...
                        TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
                        TimeH[sub][sup][arg] = TIME-HARD_{SUB}^{SUP}(ARG)
                        TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • 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)
                        \verb|\DTimeC[sub][sup][arg]| = DTIME-COMPLETE_{SUR}^{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)
                        \NTimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
                        \UTimeE[sub][sup][arg] = UTIME-EASY_{SUB}^{SUP}(ARG)
                        \UTimeC[sub][sup][arg] = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
                        \texttt{\ATimeE[sub][sup][arg]} = \operatorname{ATIME-EASY}^{SUP}_{SUB}(ARG)
                        \Delta TimeH[sub][sup][arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
                        \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                   1080 \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]| = DSPACE-EASY_{SUB}^{SUP}(ARG)
                         \texttt{DSpaceH[sub][sup][arg]} = DSPACE-HARD_{SUB}^{SUP}(ARG)
                         \texttt{DSpaceC[sub][sup][arg]} = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\verb|\NSpaceE[sub][sup][arg]| = NSPACE-EASY_{SUB}^{SÚP}(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|\USpaceE[sub][sup][arg]| = USPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|\USpaceH[sub][sup][arg]| = USPACE-HARD_{SUB}^{SUP}(ARG)
                          \USpaceC[sub][sup][arg] = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                          ASpaceE[sub][sup][arg] = ASPACE-EASY_{SUB}^{SUP}(ARG)
                          ASpaceH[sub][sup][arg] = ASPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|\ASpaceC[sub][sup][arg]| = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1081 \defcomclsgrp{Space}
 \LogTime, ...
                        \bullet \ \ \texttt{LogTime[sub][sup][arg]} = \texttt{LogTime}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{ARG})
                          \verb|\LogTimeE[sub][sup][arg]| = \operatorname{LogTime-EASY}^{SUP}_{SUB}(ARG)
                          \verb|\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} $$\DLogTimeE[sub][sup][arg] = DLogTime-EASY_{SUB}^{SUP}(ARG)$
                          \verb|\DLogTimeH[sub][sup][arg]| = DLogTime-HARD_{SUB}^{SUP}(ARG)
                          \DLogTimeC[sub][sup][arg] = DLogTime-Complete_{SUB}^{SUP}(ARG)
                        • \NLogTime[sub][sup][arg] = NLogTime_{SUB}^{SUP}(ARG)
                          \NLogTimeE[sub][sup][arg] = NLogTime-EASY_{SUB}^{SUP}(ARG)
                          \verb|\NLogTimeH[sub][sup][arg]| = NLOGTIME-HARD_{SUB}^{SUP}(ARG)
                          \NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)
                        • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                          \label{eq:ULogTimeEsub} $$ \ULogTimeE[sub] [sup] [arg] = ULogTime-EASY_{SUB}^{SUP}(ARG) $$
                          \verb|VLogTimeH[sub][sup][arg]| = ULogTime-Hard_{SUB}^{SUP}(ARG)
                          \ULogTimeC[sub][sup][arg] = ULogTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                          ALogTimeE[sub][sup][arg] = ALogTime-EASY_{SUB}^{SUP}(ARG)
                          \ALogTimeH[sub][sup][arg] = ALogTime-HARD_{SUB}^{SUP}(ARG)
                          ALogTimeC[sub][sup][arg] = ALogTime-Complete_{SUB}^{SUP}(ARG)
                    1082 \defcomclsgrp{LogTime}
\LogSpace, ...
                        • LogSpace[sub][sup][arg] = LogSpace_{SUB}^{SUP}(ARG)
                          LogSpaceE[sub][sup][arg] = LogSpace-Easy_{SUB}^{SUP}(ARG)
                          \LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(Arg)
                          \texttt{LogSpaceC[sub][sup][arg]} = \texttt{LogSpace-complete}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{Arg})
                        • \DLogSpace[sub][sup][arg] = DLogSpace_{SUB}^{SUP}(ARG)
                          \label{eq:decomposition} $$\DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)$
                          \DLogSpaceH[sub][sup][arg] = DLogSpace-Hard_{SUB}^{SUP}(Arg)
                          \DLogSpaceC[sub][sup][arg] = DLogSpace-Complete_{SUB}^{SUP}(ARG)
                        • NLogSpace[sub][sup][arg] = NLogSpace_{SUB}^{SUP}(ARG)
                          \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                          \NLogSpaceH[sub][sup][arg] = NLogSpace-HardSup(Arg)
                          \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(Arg)
                        \ULogSpaceE[sub][sup][arg] = ULogSpace-Easy_{SUB}^{SUP}(ARG)
                          \ULogSpaceH[sub][sup][arg] = ULogSpace-Hard_{SUB}^{SUP}(Arg)
                          \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(ARG)
                        \bullet \ \ \texttt{ALogSpace[sub][sup][arg]} = ALogSpace[sub](ARG)
                          \verb|\ALogSpaceE[sub][sup][arg]| = ALogSpace-easy_{SUB}^{SUP}(ARG)
                          ALogSpaceH[sub][sup][arg] = ALogSpace-Hard_{SUB}^{SUP}(Arg)
                          ALogSpaceC[sub][sup][arg] = ALogSpace-Complete_{SUB}^{SUP}(ARG)
                   1083 \defcomclsgrp{LogSpace}
```

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

```
\verb|\PTimeE[sub][sup][arg]| = PTIME-EASY_{SUB}^{SUP}(ARG)
                          \P [sub] [sup] [arg] = PTIME-HARD_{SUB}^{SUP}(ARG)
                         \PTimeC[sub][sup][arg] = PTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \verb|\DPTimeE[sub][sup][arg]| = \mathrm{DPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                          \label{eq:def:DPTimeH} $$ \operatorname{DPTIME-HARD}^{SUP}_{SUB}(ARG) $$
                          \label{eq:def:DPTimeC} $$ \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                       • \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                          \NPTimeE[sub][sup][arg] = NPTIME-EASY_{SUB}^{SUP}(ARG)
                          \label{eq:nptimeH} $$ \DTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG) $$
                         \NPTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UPTime[sub][sup][arg] = UPTIME_{SUB}^{SUP}(ARG)
                          \UPTimeE[sub][sup][arg] = UPTIME-EASY_{SUB}^{SUP}(ARG)
                          \verb|\UPTimeH[sub][sup][arg]| = UPTIME-HARD_{SUB}^{SUP}(ARG)
                          \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \bullet \ \ \texttt{\ APTime[sub][sup][arg]} = \mathrm{APTIME}^{SUP}_{SUB}(\mathrm{ARG})
                          \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(\operatorname{ARG})
                          \verb| APTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                          \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                   1084 \defcomclsgrp{PTime}
                       • \PSpace[sub][sup][arg] = PSPACE_{SUB}^{SUP}(ARG)
\PSpace, ...
                          \PSpaceE[sub][sup][arg] = PSPACE-EASY_{SUB}^{SUP}(ARG)
                          \label{eq:pspaceH} $$ \PSpaceH[sub][sup] = PSpace-HARD_{SUB}^{SUP}(ARG) $$
                          \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
                          \label{eq:decomposition} $$ \DPSpaceE[sub][sup][arg] = DPSpace-EASY_{SUB}^{SUP}(ARG) $$
                          \label{eq:def:DPSpaceH} $$ \DPSpaceH[sub] [sup] [arg] = DPSpace-HARD_{SUB}^{SUP}(ARG) $$
                          \DPSpaceC[sub][sup][arg] = DPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                          \verb|\NPSpaceE[sub][sup][arg]| = NPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \verb|\NPSpaceH[sub][sup][arg]| = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \label{eq:npspace} $$\NPSpaceC[sub][sup][arg] = NPSpace-Complete_{SUB}^{SUP}(ARG)$
                       • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                          \UPSpaceE[sub][sup][arg] = UPSPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|\UPSpaceH[sub][sup][arg]| = UPSPACE-HARD_{SUB}^{SUP}(ARG)
                          \UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • APSpace[sub][sup][arg] = APSPACE_{SUB}^{SUP}(ARG)
                          APSpaceE[sub][sup][arg] = APSPACE-EASY_{SUB}^{SUP}(ARG)
                          APSpaceH[sub][sup][arg] = APSPACE-HARD_{SUB}^{SUP}(ARG)
                          APSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                   1085 \setminus defcomclsgrp{PSpace}
                       • \QPTime[sub][sup][arg] = QPTIME_{SUB}^{SUP}(ARG)
\QPTime, ...
                          \label{eq:QPTimeEsub} $$ \operatorname{[sup][arg]} = \operatorname{QPTIME-EASY}^{\operatorname{SUP}}_{\operatorname{SUB}}(\operatorname{ARG}) $$
                          \verb|\QPTimeH[sub][sup][arg]| = \mathrm{QPTIME-HARD}^{SUP}_{SUB}(ARG)
                          \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                          \verb|\DQPTimeE[sub][sup][arg]| = DQPTIME-EASY_{SUB}^{SUP}(ARG)
                          \texttt{DQPTimeH[sub][sup][arg]} = \mathrm{DQPTIME}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                          \label{eq:def-DQPTimeC} $$ \DQPTimeC[sub] [sup] [arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                       • \NQPTime[sub][sup][arg] = NQPTIME_{SUB}^{SUP}(ARG)
                          \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                          \NQPTimeH[sub][sup][arg] = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                          \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UQPTime[sub][sup][arg] = UQPTIME_{SUB}^{SUP}(ARG)
                          \verb|VQPTimeE[sub][sup][arg]| = UQPTIME-EASY_{SUB}^{SUP}(ARG)
                          \UQPTimeH[sub][sup][arg] = UQPTIME-HARD_{SUB}^{SUP}(ARG)
                          \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
```

• \P [sub] [sup] [arg] = \Pr [MESUB (ARG)

\PTime, ...

```
\verb| AQPTimeE[sub][sup][arg] = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                          \texttt{AQPTimeH[sub][sup][arg]} = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                          \label{eq:aptimeC} $$ AQPTimeC[sub] [sup] [arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                    1086 \defcomclsgrp{QPTime}
                         \bullet \ \texttt{QPSpace[sub][sup][arg]} = \mathrm{QPSpace}^{SUP}_{SUB}(ARG) 
 \QPSpace, ...
                          \verb|\QPSpaceE[sub][sup][arg]| = QPSpace-easy_{SUB}^{SUP}(ARG)
                          \label{eq:QPSpaceH} $$ \QPSpaceH[sub] [sup] [arg] = QPSpace-HARD_{SUB}^{SUP}(ARG) $$
                          \QPSpaceC[sub][sup][arg] = QPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                          \texttt{DQPSpaceE[sub][sup][arg]} = DQPSPACE-EASY_{SUB}^{SUP}(ARG)
                          \texttt{DQPSpaceH[sub][sup][arg]} = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                          \DQPSpaceC[sub][sup][arg] = DQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                          \verb|NQPSpaceE[sub][sup][arg]| = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|NQPSpaceH[sub][sup][arg]| = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                          \NQPSpaceC[sub][sup][arg] = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • \UQPSpace[sub][sup][arg] = UQPSPACE_{SUB}^{SUP}(ARG)
                          \verb|VQPSpaceE[sub][sup][arg]| = UQPSPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|VQPSpaceH[sub][sup][arg]| = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|VQPSpaceC[sub][sup][arg]| = UQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        • AQPSpace[sub][sup][arg] = AQPSPACE_{SUB}^{SUP}(ARG)
                          \texttt{AQPSpaceE[sub][sup][arg]} = AQPSPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|\AQPSpaceH[sub][sup][arg]| = \mathrm{AQPSPACE}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                          \label{eq:approx} $$ AQPSpaceC[sub][sup][arg] = AQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
                    1087 \defcomclsgrp{QPSpace}
                        • \ExpTime[sub][sup][arg] = EXPTIME_SUB(ARG)
 \ExpTime, ...
                          \ExpTimeE[sub][sup][arg] = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                          \ExpTimeH[sub][sup][arg] = EXPTIME-HARD_{SUB}^{SUP}(ARG)
                          \texttt{\complete}[sub][sup][arg] = EXPTIME-COMPLETE^{SUP}_{SUB}(ARG)
                        \verb|\DExpTimeE[sub][sup][arg]| = DEXPTIME-EASY_{SUB}^{SUP}(ARG)
                          \DExpTimeH[sub][sup][arg] = DExpTIME-HARD_{SUB}^{SUP}(ARG)
                          \texttt{\DExpTimeC[sub][sup][arg]} = DEXPTIME-COMPLETE_{SUB}^{SUB}(ARG)
                        • NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                          \NExpTimeE[sub][sup][arg] = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                          \NExpTimeH[sub][sup][arg] = NEXPTIME-HARD_{SUB}^{SUP}(ARG)
                          \NExpTimeC[sub][sup][arg] = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • \UExpTime[sub][sup][arg] = UEXPTIME_{SUB}^{SUP}(ARG)
                          \UExpTimeE[sub][sup][arg] = UEXPTIME-EASY_{SUB}^{SUP}(ARG)
                          \UExpTimeH[sub][sup][arg] = UEXPTIME-HARD_{SUB}^{SUP}(ARG)
                          \UExpTimeC[sub][sup][arg] = UEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                        • \Delta ExpTime[sub][sup][arg] = AEXPTIME_{SUB}^{SUP}(ARG)
                          \Delta ExpTimeE[sub][sup][arg] = AEXPTIME-EASY_{SUR}^{SUP}(ARG)
                          \Delta ExpTimeH[sub][sup][arg] = AEXpTIME-HARD_{SUR}^{SUP}(ARG)
                          \Delta ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                    1088 \defcomclsgrp{ExpTime}
                        \bullet \ \texttt{\ \ } \texttt{[sup][arg]} = \texttt{ExpSpace[sub][sup]}[\texttt{arg]} = \texttt{ExpSpace[sub]}(\texttt{Arg})
\ExpSpace, ...
                          \ExpSpaceE[sub][sup][arg] = EXPSPACE-EASY_{SUB}^{SUP}(ARG)
                          \verb|\ExpSpaceH[sub][sup][arg]| = EXPSPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|\ExpSpaceC[sub][sup][arg]| = EXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                        \label{eq:decomposition} $$ \DExpSpaceE[sub][sup][arg] = DExpSpace-Easy_{SUB}^{SUP}(ARG) $$
                          \verb|\DExpSpaceH[sub][sup][arg]| = DEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                          \verb|\DExpSpaceC[sub][sup][arg]| = DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

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

```
• \NExpSpace[sub][sup][arg] = NExpSpace[sub](ARG)
                 \verb|NExpSpaceE[sub][sup][arg]| = NEXPSPACE-EASY_{SUB}^{SÚP}(ARG)
                 \NExpSpaceH[sub][sup][arg] = NEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                 \verb|NExpSpaceC[sub][sup][arg]| = NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                • \UExpSpace[sub][sup][arg] = UExpSpace[sub](ARG)
                 \verb|\UExpSpaceE[sub][sup][arg]| = UEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                 \verb|\UExpSpaceH[sub][sup][arg]| = UEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                 \label{eq:uexpspaceC} $$ \UExpSpaceC[sub][sup] [arg] = UExpSpace-Complete_{SUB}^{SUP}(ARG) $$
                • \Delta ExpSpace[sub][sup][arg] = AEXPSPACE_{SUB}^{SUP}(ARG)
                 \verb|\AExpSpaceE[sub][sup][arg]| = AEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                 \texttt{AExpSpaceH[sub][sup][arg]} = \text{AExpSpace-HARD}^{SUP}_{SUB}(ARG)
                 \label{eq:alphaexpSpaceC[sub][sup]} [\texttt{arg}] = \text{AEXPSPACE-COMPLETE}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
            1089 \defcomclsgrp{ExpSpace}
            \PH
                • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
            1091 \defcomhrc{PH}
       \WH
                • WH[sub][sup][par] = W_{SUB}^{SUP}[PAR]
            1092 \defcomhrc{WH}[W]
                • AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
       \AH
            1093 \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}]
            1094 \defcomhrc{DLH}[{\mth{\Delta}}]
            1095 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
\ELH, \EBH
                ullet \ELH[sub][sup][par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
                ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
            1096 \defcomhrc{ELH}[{\mth{\Sigma}}]
            1097 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
\ULH, \UBH
                • \ULH[sub][sup][par] = \Pi_{SUB}^{SUP}[PAR]
                ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
            1098 \defcomhrc{ULH}[{\mth{\Pi}}]
            1099 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
            1100 \fi
            1104 %%*****
            1105 \ifgam@
            \SATG, ...
            1107 %% Satisfiability Games
            1108 \cmdtxtoparname{SATG}[Sat]
            1109
            1110 %% Validity Games
            1111 \cmdtxtoparname{VALG}[Val]
            1112
            1113 %% Evaluation Games
            1114 \cmdtxtoparname{EVLG}[Ev1]
            1116 %% Synthesis Games
            1117 \cmdtxtoparname{SYNG}[Syn]
```

```
1118
                 1119 %% Model-Checking Games
                 1120 \cmdtxtoparname{MCG} [MC]
                 1122 %% Ehrenfeucht-Fraisse Games
                 1123 \cmdtxtoparname{EFG}[EF]
                 \PlrSym, \OppSym
                 1125 \newcommand{\plrsym}{E}
                 1126 \cmdmthsym{Plr}[\plrsym]
                 1127 \newcommand{\oppsym}{A}
                 1128 \verb|\cmdmthsym{Opp}| [\verb|\oppsym]|
\ArenaName, ...
                 1129 \newcommand{\arenaname}{A}
                 1130 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
   \PosSet, ... ...
                 1131 \newcommand{\possym}{v}
                 1132 \newcommand{\posset}{Ps}
                 1133 \cmdmthsetext{Pos}[\posset][\possym]
                 1134 \cmdmthsymelm{ipos}[\possym_{I}]
                 1135 \cmdmthsymelm{fpos}[\possym_{F}]
                 1136 \verb|\cmdmthset{PPos}[\posset_{\prop}]
                 1137 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                 1138 \cmdmthset{OPos}[\posset_{\OppSym}]
                 1139 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \PlrFun ...
                 1140 \mbox{ } \mbox{newcommand{\plrfun}{pl}}
                 1141 \cmdmthfun{plr}[\plrfun]
        \MovRel ...
                 1142 \newcommand{\movrel}{Mv}
                 1143 \cmdmthrel{Mov}[\movrel]
  \GameName, ... ...
                 1144 \newcommand{\gamename}{\Game}
                 1145 \usrmthlatupp{Game}{Name}{name}[\gamename]
        \WinSet ...
                 1146 \mbox{ } \mbox{newcommand{\winset}{Wn}}
                 1147 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun
                 1148 \newcommand{\obsset}{Ob}
                 1149 \cmdmthset{Obs}[\obsset]
                 1150 \cmdmthfun{obs}
                 \PthSet, \pthFun
                 1152 \neq \{ pthsym \} \{ pi \}
                 1153 \newcommand{\pthset}{Pth}
                 1154 \cmdmthsetext{Pth} [\pthset] [\pthsym]
                 1155 \cmdmthfun{pth}
   \HstSet, ... ...
                 1156 \newcommand{\hstsym}{\rho}
                 1157 \newcommand{\hstset}{Hst}
                 1158 \cmdmthsetext{Hst}[\hstset][\hstsym]
```

```
1159 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                           1160 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                           1161 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                           1162 \verb|\cmdmthsymelm{ohst}| [\verb|\hstsym_{\colored}]|
                                           1163 \cmdmthfun{hst}
\PlaySet,\playFun
                                            1164 \newcommand{\playsym}{\pi}
                                           1165 \newcommand{\playset}{Play}
                                           1166 \cmdmthsetext{Play}[\playset][\playsym]
                                           1167 \cmdmthfun{play}
           \StrSet, ... ...
                                           1168 \newcommand{\strsym}{\sigma}
                                           1169 \newcommand{\strset}{Str}
                                           1170 \cmdmthsetext{Str}[\strset][\strsym]
                                           1171 \cmdmthset{PStr}[\strset_{\PlrSym}]
                                           1172 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                                           1173 \cmdmthset{OStr}[\strset_{\OppSym}]
                                           1174 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet, \prfFun
                                           1175 \newcommand{\prfsym}{\xi}
                                           1176 \newcommand{\prfset}{Prf}
                                           1177 \cmdmthsetext{Prf}[\prfset][\prfsym]
  \preFun, \sucFun
                                           1178 \newcommand{\prefun}{pre}
                                           1179 \cmdmthoargfun{pre}[\prefun]
                                           1180 \newcommand{\sucfun}{suc}
                                           1181 \cmdmthoargfun{suc}[\sucfun]
 \entFun, \escFun
                                           1182 \neq \{entfun\} 
                                            1183 \cmdmthoargfun{ent}[\entfun]
                                           1184 \newcommand{\escfun}{esc}
                                           1185 \cmdmthoargfun{esc}[\escfun]
 \intFun, \outFun ...
                                           1186 \mbox{ }\mbox{\command{\tintfun}{int}}
                                           1187 \cmdmthoargfun{int}[\intfun]
                                           1188 \newcommand{\outfun}{out}
                                           1189 \cmdmthoargfun{out}[\outfun]
  \atrFun, \rchFun ...
                                           1190 \newcommand{\atrfun}{atr}
                                           1191 \cmdmthoargfun{atr}[\atrfun]
                                           1192 \mbox{ } \mbox
                                           1193 \cmdmthoargfun{rch}[\cmdmthoargfun]
                    \liftFun
                                           1194 \newcommand{\liftfun}{lift}
                                           1195 \cmdmthoargfun{lift}[\liftfun]
                       \solFun
                                           1196 \newcommand{\solfun}{sol}
                                           1197 \cmdmthoargfun{sol}[\solfun]
```

```
\BG, ... ...
             1199 %% Buchi Games
             1200 \cmdtxtoparname{BG}
             1202 %% Co-Buchi Games
             1203 \cmdtxtoparname{CG}
             1204
             1205 %% Parity Games
             1206 \cmdtxtoparname{PG}
             1207
             1208 %% Rabin Games
             1209 \cmdtxtoparname{RG}
             1210
             1211 %% Streett Games
             1212 \cmdtxtoparname{SG}
             1213
             1214 %% Muller Games
             1215 \cmdtxtoparname{MG}
             \EvnSym, \OddSym
             1217 \newcommand{\evnsym}{0}
             1218 \cmdmthsym{Evn}[\evnsym]
             1219 \newcommand{\oddsym}{1}
             1220 \cmdmthsym{Odd}[\oddsym]
\PrtSet, \prtFun ...
             1221 \newcommand{\prtsym}{p}
             1222 \newcommand{\prtset}{Pr}
             1223 \cmdmthsetext{Prt}[\prtset][\prtsym]
             1224 \cmdmthfun{prt}[pr]
             \EG, ... ...
             1227 %% Energy Games
             1228 \cmdtxtoparname{EG}
             1229
             1230 %% Mean-Payoff Games
             1231 \cmdtxtoparname{MPG}
             1232
             1233 %% Discounted-Payoff Games
             1234 \cmdtxtoparname{DPG}
             \MaxSym, \MinSym
             1236 \newcommand{\maxsym}{\oplus}
             1237 \cmdmthsym{Max}[\maxsym]
             1238 \newcommand{\minsym}{\boxminus}
             1239 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun ...
             1240 \mbox{ } \mbox{newcommand{\wghsym}{w}}
             1241 \newcommand{\wghset}{Wg}
             1242 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
             1243 \cmdmthfun{wgh} [wg]
```

```
1245 \fi
                              1250 \iflog@
                              \BF, \QBF, ... ...
                              1252 % Boolean Formulae
                              1253 \cmdtxtoparname{BF}
                              1254
                              1255 % Quantified Boolean Formulae
                              1256 \DeclareRobustCommand{\QBF}
                                        {\{\text{txtname}\{Q\}\}\setminus BF\}}
                              1258 \DeclareRobustCommand{\EBF}
                              1259 {\ensuremath{\exists}\BF}
                              1260 \DeclareRobustCommand{\UBF}
                              1261 {\ensuremath{\forall}\BF}
                              \LogSig, ... ...
                              1263 \newcommand{\lceil \log sig \rceil}{L}
                              1264 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
           \Tt, \Ff ...
                              1265 \mbox{ } \mbox
                              1266 \usrmth{Tt}{}{sym}[\ttsym]
                              1267 \mbox{ \newcommand{\ffsym}{\bot}}
                              1268 \operatorname{ff}{sym}[\ffsym]
   \LNeg, \LNot ...
                              1269 \newcommand{\lnegsym}{\neg}
                              1270 \usrmth{LNeg}{}{luop}[\lnegsym]
                              1271 \newcommand{\lnotsym}{\sim}
                              1272 \usrmth{LNot}{}{luop}[\lnotsym]
   \LCon, \LDis ...
                              1273 \mbox{lconsym}{{\land}}
                              1274 \usrmth{LCon}{}{lbop}[\lconsym]
                              1275 \newcommand{\ldissym}{\lor}
                              1276 \t LDis{}{lbop}[\ldissym]
   \LImp, \LCoi ...
                              1277 \newcommand{\limpsym}{\rightarrow}
                              1278 \usrmth{LImp}{}{lbop}[\limpsym]
                              1279 \newcommand{\lcoisym}{\leftrightarrow}
                              1280 \usrmth{LCoi}{}{lbop}[\lcoisym]
   \LExs, \LAll ...
                              1281 \newcommand{\lexssym}{\exists}
                              1282 \usrmth{LExs}{}{luop}[\lexssym]
                              1283 \newcommand{\lallsym}{\forall}
                              1284 \usrmth{LAll}{}{luop}[\lallsym]
      \APSet, ... ...
                              1285 \newcommand{\apsym}{p}
                              1286 \mbox{ } \mbox{apset}{AP}
                              1287 \cmdmthsetext{AP}[\apset][\apsym]
```

1288 \cmdmthfun{ap}\usrmth{ap}{}{argfun}

```
\sub ...
               1289 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
               1290 \usrmth{Cnt}{}{sym}[C]
               1291 \usrmth{Qnt}{}{sym}[Q]
               1292 \usrmth{Sym}{}{sym}[\odot]
     \QAE, \QEA ...
               1293 \usrmth{QAE}{}{sym}[\forall\exists]
               1294 \operatorname{QEA}{{\text{sym}}[\text{exists}]}
   \QntSet, ... ...
               1295 \newcommand{\qntsym}{\wp}
               1296 \mbox{ } \mbox{qntset}{Qn}
               1297 \cmdmthsetext{Qnt}[\qntset][\qntsym]
  \free, \bound ...
               1298 \usrmth{free}{}{argfun}
               1299 \usrmth{bound}{}{argfun}
     \dep, \alt ...
               1301 \usrmth{alt}{}{argfun}
\cnf, \dnf, ... ...
               1302 \cmdtxtabr{cnf}
               1303 \cmdtxtabr{dnf}
               1304 \cmdtxtabr{pnf}
               1305 \mbox{cmdtxtabr{nnf}}
               \LogStr, ... ...
               1307 \newcommand{\logstr}{L}
               1308 \usrmthlatupp{Log}{Str}{str}[\logstr]
   \ValSet, ... ...
               1309 \newcommand{\valsym}{\xi}
               1310 \newcommand{\valset}{Val}
               1311 \cmdmthsetext{Val}[\valset][\valsym]
   \AsgSet, ... ...
               1312 \newcommand{\asgsym}{\chi}
               1313 \newcommand{\asgset}{Asg}
               1314 \cmdmthsetext{Asg}[\asgset][\asgsym]
               \FOL, ... ...
               1316 % First-Order Logic
               1317 \cmdtxtoparname{FOL} [Fol]
               1318 \cmdtxtoparname{F0}[F0]
               1319
               1320 % Monadic First-Order Logic
               1321 \DeclareRobustCommand{\MFOL}
                   {{\txtname{M}}\FOL}
               1323 \DeclareRobustCommand{\MFO}
                   \{\{\text{txtname}\{M\}\}\F0\}
```

```
\VarSig, ... ...
                                                1326 \newcommand{\varsig}{V}
                                                1327 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                                                1328 \rightarrow \{x\}
                                                1329 \newcommand{\varset}{Vr}
                                                 1330 \cmdmthsetext{Var}[\varset][\varsym]
                                                 1331 \usrmth{var}{}{argfun}[vr]
                                                1332 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
\ConSig, ... ...
                                                1333 \newcommand{\consig}{C}
                                                1334 \usrmthlatupp{Con}{Sig}{sig}[\consig]
                                                1335 \newcommand{\consym}{c}
                                                 1336 \newcommand{\conset}{Cn}
                                                 1337 \cmdmthsetext{Con} [\conset] [\consym]
                                                1338 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
                                                1339 \newcommand{\funsig}{F}
                                                1340 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                                                1341 \newcommand{\funsym}{f}
                                                1342 \newcommand{\funset}{Fn}
                                                 1343 \cmdmthsetext{Fun}[\funset][\funsym]
                                                 1344 \usrmth{fun}{}{argfun}[fn]
                                                 1345 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ...
                                                1346 \newcommand{\tersig}{T}
                                                1347 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
                                                 1348 \newcommand{\tersym}{t}
                                                 1349 \newcommand{\terset}{Tr}
                                                 1350 \cmdmthsetext{Ter}[\terset][\tersym]
                                                 1351 \usrmth{ter}{}{argfun}
\RelSig, ... ...
                                                1352 \newcommand{\relsig}{R}
                                                1353 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                                                 1354 \mbox{ } \mbox{newcommand{\relsym}{r}}
                                                 1355 \newcommand{\relset}{Rl}
                                                 1356 \cmdmthsetext{Rel}[\relset][\relsym]
                                                 1357 \usrmth{rel}{}{argfun}[rl]
                            \skm ...
                                                 1358 \operatorname{km}{{\rm skm}}{{\rm argfun}}
                                                \ConStr, ... ...
                                                1360 \mbox{ } \mbox{constr}{C}
                                                1361 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr, ... ...
                                                1362 \mbox{ } \mbox
                                                1363 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr, ... ...
                                                1364 \mbox{ } \mbox
                                                1365 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
                                                 1366 \mbox{ } \mbox{newcommand{\relstr}{R}}
                                                 1367 \usrmthlatupp{Rel}{Str}{str}[\relstr]
```

```
\DF, \IF, ... ...
             1369 % Dependence-Friendly Logic
             1370 \cmdtxtoparname{DF}
             1372 % Independence-Friendly Logic
             1373 \cmdtxtoparname{IF}
             1375 % Dependence/Independence-Friendly Logic
             1376 \cmdtxtoparname{DIF}
             1378 % Dependence Logic
             1379 \cmdtxtoparname{DL}
             1380
             1381 % Team Logic
             1382 \cmdtxtoparname{TL}
             1384 % Alternating Dependence-Friendly Logic
             1385 \cmdtxtoparname{ADF}
             1386
             1387 \% Alternating Independence-Friendly Logic
             1388 \cmdtxtoparname{AIF}
             1390 % Alternating Dependence/Independence-Friendly Logic
             1391 \cmdtxtoparname{ADIF}
             \LEExs, \LAA11
             1393 \newcommand{\leexssym}{\Sigma}
             1394 \usrmth{LEExs}{}{luop}[\leexssym]
             1395 \newcommand{\laallsym}{\Pi}
             1396 \usrmth{LAAll}{}{luop}[\laallsym]
             \SOL, ...
             1399 % Second-Order Logic
             1400 \cmdtxtoparname{SOL}[Sol]
             1401 \cmdtxtoparname{SO}
             1402
             1403 % Weak Second-Order Logic
             1404 \DeclareRobustCommand{\WSOL}
                 {{\txtname{W}}\SOL}
             1406 \DeclareRobustCommand{\WSO}
             1407
                 {{\txtname{W}}\SO}
             1408
             1409 % coWeak Second-Order Logic
             1410 \DeclareRobustCommand{\coWSOL}
                 {{\txtname{coW}}\SOL}
             1412 \DeclareRobustCommand{\coWSO}
                 {{\txtname{coW}}\SO}
             1413
             1415 % Monadic Second-Order Logic
             1416 \DeclareRobustCommand{\MSOL}
             1417 \{\{\text{txtname}\{M\}\}\}\
             1418 \DeclareRobustCommand{\MSO}
             1419 {{\txtname{M}}\SO}
```

```
1421 % Weak Monadic Second-Order Logic
             1422 \DeclareRobustCommand{\WMSOL}
             1423 \{\{\text{txtname}\{W\}\}\}\
             1424 \DeclareRobustCommand{\WMSO}
                  {{\txtname{W}}\MSO}
             1425
             1426
             1427 % coWeak Monadic Second-Order Logic
             1428 \DeclareRobustCommand{\coWMSOL}
                  {{\txtname{coW}}\MSOL}
             1430 \DeclareRobustCommand{\coWMSO}
                  {{\txtname{coW}}\MSO}
             \FVarSet, ... ...
             1433 \newcommand{\fvarsym}{x}
             1434 \newcommand{\fvarset}{FVr}
             1435 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
             1436 \newcommand{\svarsym}{X}
             1437 \newcommand{\svarset}{SVr}
             1438 \cmdmthsetext{SVar}[\svarset][\svarsym]
             \TL, \PL, ...
             1441 % Tree Logic
             1442 \cmdtxtoparname{TL}
             1444 % Weak Tree Logic
             1445 \DeclareRobustCommand{\WTL}
                  {\{\text{txtname}\{W\}}\TL\}
             1446
             1448 % coWeak Tree Logic
             1449 \DeclareRobustCommand{\coWTL}
             1450
                  {{\txtname{coW}}\TL}
             1452 % Monadic Tree Logic
             1453 \DeclareRobustCommand{\MTL}
                  {\{\text{txtname}\{M\}}\TL\}
             1454
             1455
             1456 % Weak Monadic Tree Logic
             1457 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1458
             1459
             1460 % coWeak Monadic Tree Logic
             1461 \DeclareRobustCommand{\coWMTL}
                  {{\txtname{coW}}\MTL}
             1463
             1464 % Path Logic
             1465 \cmdtxtoparname{PL}
             1466
             1467 % Weak Path Logic
             1468 \DeclareRobustCommand{\WPL}
                  {\{\text{txtname}\{W\}}\PL\}
             1471 % coWeak Path Logic
             1472 \DeclareRobustCommand{\coWPL}
             1473 \{\{\text{txtname}\{\text{coW}\}\}\}
```

```
1474
            1475 % Monadic Path Logic
            1476 \DeclareRobustCommand{\MPL}
            1477
                {\{\text{Ntxtname}\{M\}}\PL\}
            1478
            1479 % Weak Monadic Path Logic
            1480 \DeclareRobustCommand{\WMPL}
                 {{\txtname{W}}\MPL}
            1482
            1483 % coWeak Monadic Path Logic
            1484 \DeclareRobustCommand{\coWMPL}
                {{\txtname{coW}}\MPL}
            \ML, \GML, ... ...
            1489 % Modal Logic
            1490 \cmdtxtoparname{ML}
            1492 % Graded Modal Logic
            1493 \DeclareRobustCommand{\GML}
                {\{\text{txtname}\{G\}\}\setminus ML\}}
            1496 % Quantified Modal Logic
            1497 \DeclareRobustCommand{\QML}
                {\{\text{txtname}\{Q\}\}\}ML\}}
            1499 \verb|\DeclareRobustCommand{\EML}|
            1500 {\ensuremath{\exists}\ML}
            1501 \DeclareRobustCommand{\UML}
            1502 {\ensuremath{\forall}\ML}
            \Opr ...
            1504 \usrmth{Opr}{}{sym}[Op]
 \DMod, \BMod ...
            1505 \usrmth{DMod}{}{sym}[\Diamond]
            1506 \usrmth{BMod}{}{sym}[\Box]
   \Exs, \All ...
            1507 \DeclareRobustCommand{\Exs}
            1508 {\@ifstar{\@sexs}{\@exs}}
            1509 \DeclareRobustCommand{\@sexs}[1]
            1510 {\mth{\DMod}[#1]}
            1511 \DeclareRobustCommand{\@exs}[1]
                {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}{\DMod}}}
            1513 \DeclareRobustCommand{All}
            1514 {\c}^{\c}
            1515 \DeclareRobustCommand{\@sall}[1]
            1516 {\mth{\BMod}[#1]}
            1517 \DeclareRobustCommand{\@all}[1]
                {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
            \KrpStr, ... ...
            1520 \newcommand{\krpstr}{K}
            1521 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
```

```
\WrlSet, ... ...
              1522 \mbox{ \newcommand{\wrlsym}{w}}
               1523 \newcommand{\wrlset}{W}
               1524 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
               1525 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel
               1526 \mbox{ } \mbox{newcommand{\accsym}{R}}
               1527 \cmdmthrel{Acc} [\accsym]
               1528 \cmdmthrel{Trn}[\accsym]
       \labFun ...
               1529 \newcommand{\labsym}{\lambda}
               1530 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun
               1531 \providecommand{\pthsym}{\pi}
               1532 \providecommand{\phithset}{Pth}
               1533 \cmdmthsetext{Pth} [\pthset] [\pthsym]
               1534 \cmdmthfun{pth}
               \MC, \GMC, ...
               1536 % Mu Calculus
               1537 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
               1539 % Graded Mu Calculus
               1540 \DeclareRobustCommand{\GMC}
                   {{\txtname{G}}\MC}
               1541
               1542
               1543 % Quantified Mu Calculus
               1544 \DeclareRobustCommand{\QMC}
                   {{\txtname{Q}}\MC}
               1546 \DeclareRobustCommand{\EMC}
                   {\ensuremath{\exists}\MC}
               1548 \DeclareRobustCommand{\UMC}
                   {\ensuremath{\forall}\MC}
               1549
               1550
               1551 % Alternation-Free Mu Calculus
               1552 \DeclareRobustCommand{\AFMC}
               1553
                   {{\txtname{AF}}\MC}
               1554
               1555 % Alternation-Free Graded Mu Calculus
               1556 \DeclareRobustCommand{\AFGMC}
               1557
                    {{\txtname{AF}}\GMC}
               1558
               1559 % Quantified Alternation-Free Mu Calculus
               1560 \DeclareRobustCommand{\QAFMC}
                   {{\txtname{Q}}\AFMC}
               1561
               1562 \DeclareRobustCommand{\EAFMC}
                   {\ensuremath{\exists}\AFMC}
               1564 \DeclareRobustCommand{\UAFMC}
                   {\ensuremath{\forall}\AFMC}
               1565
               1566
```

```
\PTL, \LTL, ... ...
               1570 % Propositional Temporal Logic
               1571 \cmdtxtoparname{PTL}
               1573 % Quantified Propositional Temporal Logic
               1574 \verb|\DeclareRobustCommand{\QPTL}|
               1575 \{\{\text{txtname}\{Q\}\}\}\}
               1576 \DeclareRobustCommand{\EPTL}
                    {\ensuremath{\exists}\PTL}
               1578 \DeclareRobustCommand{\UPTL}
                    {\ensuremath{\forall}\PTL}
               1581 % Linear Temporal Logic
               1582 \verb|\cmdtxtoparname{LTL}|
               1584\ \% Quantified Linear Temporal Logic
               1585 \DeclareRobustCommand{\QLTL}
               1586 \{\{\text{txtname}\{Q\}\}\}\
               1587 \DeclareRobustCommand{\ELTL}
               1588 {\ensuremath{\exists}\LTL}
               1589 \DeclareRobustCommand{\ULTL}
                    {\ensuremath{\forall}\LTL}
               \X, ... ...
               1592 \operatorname{X}{\{\}}{sym}[X\,]
               1593 \usrmth{F}{}{sym}[F\,]
               1594 \usrmth{G}{sym}[G\,]
               1595 \usrmth{U}{sym}[\,U\,]
               1596 \usrmth{R}{}{sym}[\,R\,]
       \Y, ... ...
               1597 \usrmth{Y}{}{sym}[G\,]
               1598 \usrmth{P}{{sym}[P\,]\leq \xspace{1598}
               1599 \usrmth{H}{}{sym}[H\,]\let\SaveDoubleAcute\H
               1600 \t \{S}{\{sym}[\,S\,]\t Save Section Symbol \S \  \  )
               1601 \usrmth{B}{}{sym}[\,B\,]
               \PDL, \CTL, ... ...
               1605 % Propositional Dynamic Logic
               1606 \cmdtxtoparname{PDL}
               1608 % Computation Tree Logic
               1609 \cmdtxtoparname{CTL}
               1611 % Weak Computation Tree Logic
               1612 \DeclareRobustCommand{\WCTL}
                   {\{\text{txtname}\{W\}}\CTL\}
               1613
               1615 % Quantified Computation Tree Logic
               1616 \DeclareRobustCommand{\QCTL}
                    {\{\text{txtname}\{Q\}\}\CTL\}}
               1618 \DeclareRobustCommand{\ECTL}
               1619 {\ensuremath{\exists}\CTL}
               1620 \DeclareRobustCommand{\UCTL}
               1621 {\ensuremath{\forall}\CTL}
```

```
1623 % Improved Computation Tree Logic
          1624 \cmdtxtoparname{CTLP}[CTL$^{+}$]
          1626 % Weak Improved Computation Tree Logic
          1627 \DeclareRobustCommand{\WCTLP}
              {\{\text{Xtname}\{W\}}\CTLP\}
          1630 % Quantified Improved Computation Tree Logic
          1631 \DeclareRobustCommand{\QCTLP}
               {\{\text{txtname}\{Q\}\}\CTLP\}}
          1633 \DeclareRobustCommand{\ECTLP}
               {\ensuremath{\exists}\CTLP}
          1635 \DeclareRobustCommand{\UCTLP}
               {\ensuremath{\forall}\CTLP}
          1636
          1637
          1638 % Full Computation Tree Logic
          1639 \cmdtxtoparname{CTLS}[CTL*]
          1640
          1641 % Weak Full Computation Tree Logic
          1642 \DeclareRobustCommand{\WCTLS}
               {{\txtname{W}}\CTLS}
          1644
          1645 % Quantified Full Computation Tree Logic
          1646 \DeclareRobustCommand{\QCTLS}
              {\{\text{txtname}\{Q\}\}\}\
          1648 \DeclareRobustCommand{\ECTLS}
              {\ensuremath{\exists}\CTLS}
          1650 \DeclareRobustCommand{\UCTLS}
              {\ensuremath{\forall}\CTLS}
          \E, \A ...
          1653 \usrmth{E}{}{sym}
          1654 \usrmth{A}{}{sym}
          \ATL, ...
          1657 % Alternating Temporal Logic
          1658 \cmdtxtoparname{ATL}
          1659
          1660\ \% Weak Alternating Tree Logic
          1661 \DeclareRobustCommand{\WATL}
          1662
               {{\txtname{W}}\ATL}
          1663
          1664 % Quantified Alternating Temporal Logic
          1665 \DeclareRobustCommand{\QATL}
               {\{\text{txtname}\{Q\}\}\setminus ATL\}}
          1667 \DeclareRobustCommand{\EATL}
               {\ensuremath{\exists}\ATL}
          1669 \DeclareRobustCommand{\UATL}
               {\ensuremath{\forall}\ATL}
          1670
          1671
          1672\ \mbox{\ensuremath{\mbox{\%}}} 
 Improved Alternating Temporal Logic
          1673 \cmdtxtoparname{ATLP}[ATL$^{+}$]
          1675 % Weak Improved Alternating Tree Logic
          1676 \DeclareRobustCommand{\WATLP}
              {\{\text{txtname}\{W\}}\ATLP\}
```

```
1679 % Quantified Improved Alternating Temporal Logic
             1680 \DeclareRobustCommand{\QATLP}
             1681 \{\{\text{txtname}\{Q\}\}\}\
             1682 \DeclareRobustCommand{\EATLP}
             1683 {\ensuremath{\exists}\ATLP}
             1684 \DeclareRobustCommand{\UATLP}
                  {\ensuremath{\forall}\ATLP}
             1686
             1687 % Full Alternating Temporal Logic
             1688 \cmdtxtoparname{ATLS}[ATL*]
             1690 % Weak Full Alternating Tree Logic
             1691 \DeclareRobustCommand{\WATLS}
             1692
                  {{\txtname{W}}\ATLS}
             1693
             1694 % Quantified Full Alternating Temporal Logic
             1695 \DeclareRobustCommand{\QATLS}
                  {{\txtname{Q}}\ATLS}
             1697 \DeclareRobustCommand{\EATLS}
             1698 {\ensuremath{\exists}\ATLS}
             1699 \DeclareRobustCommand{\UATLS}
             1700 {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
             1702 \DeclareRobustCommand{\EExs}[1]
             1703 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}{\rangle\!\rangle}}}
             1704 \DeclareRobustCommand{\AAll}[1]
                  {\mth{\argmid{\left[\left[}{\defval{#1}{\emptyset}}{\right]\right]}}}
             \CGS ...
             1707 \cmdtxtname{CGS}
\CGSStr, ...
             1708 \mbox{ \newcommand{\cgsstr}{G}}
             1709 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1710 \newcommand{\agnsym}{a}
             1711 \newcommand{\agnset}{Ag}
             1712 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
             1713 \providecommand{\possym}{v}
             1714 \providecommand{\posset}{Ps}
             1715 \cmdmthsetext{Pos}[\posset][\possym]
             1716 \cmdmthsymelm{ipos}[\possym_{I}]
             1717 \cmdmthsymelm{fpos}[\possym_{F}]
             1718 \cmdmthset{PPos} [\posset_{\PlrSym}]
             1719 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
             1720 \cmdmthset{OPos} [\posset_{\OppSym}]
             1721 \cmdmthsymelm{opos}[\possym_{\OppSym}]
\SttSet, ...
             1722 \mbox{ newcommand{\sttsym}{s}}
             1723 \newcommand{\sttset}{St}
             1724 \cmdmthsetext{Stt}[\sttset][\sttsym]
             1725 \cmdmthset{IStt}[\sttset_{I}]
             1726 \cmdmthsymelm{istt}[\sttsym_{I}]
             1727 \cmdmthset{FStt}[\sttset_{F}]
             1728 \cmdmthsymelm{fstt}[\sttsym_{F}]
```

```
\ActSet, ... ...
                                         1729 \mbox{ } \mbox
                                         1730 \newcommand{\actset}{Ac}
                                         1731 \cmdmthsetext{Act}[\actset][\actsym]
          \DecSet, ... ...
                                         1732 \mbox{ \newcommand{\decsym}{d}}
                                          1733 \mbox{ \newcommand{\decset}{Dc}}
                                          1734 \cmdmthsetext{Dec}[\decset][\decsym]
                      \movFun
                                          1735 \newcommand{\movsym}{\tau}
                                          1736 \cmdmthfun{mov}[\movsym]
          \HstSet, ...
                                         1737 \providecommand{\hstsym}{\rho}
                                          1738 \providecommand{\hstset}{Hst}
                                          1739 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                          1740 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                          1741 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                          1742 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                          1743 \mbox{ \cmdmthsymelm{ohst}[\hstsym_{\colored}]}
                                          1744 \cmdmthfun{hst}
\PlaySet,\playFun
                                          1745 \displaystyle \frac{\pi}{\pi}
                                          1746 \providecommand{\playset}{Play}
                                          1747 \cmdmthsetext{Play}[\playset][\playsym]
                                          1748 \cmdmthfun{play}
          \StrSet, ...
                                          1749 \providecommand{\strsym}{\sigma}
                                          1750 \providecommand{\strset}{Str}
                                          1751 \cmdmthsetext{Str}[\strset][\strsym]
                                          1752 \cmdmthset{PStr}[\strset_{\PlrSym}]
                                          1753 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                                          1754 \cmdmthset{OStr}[\strset_{\OppSym}]
                                          1755 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet, \prfFun
                                          1756 \providecommand{\prfsym}{\xi}
                                          1757 \providecommand{\prfset}{Prf}
                                          1758 \cmdmthsetext{Prf}[\prfset][\prfsym]
                                          \SL, ... ...
                                          1760 % Strategy Logic
                                          1761 \cmdtxtoparname{SL}
                                          1762
                                          1763 \DeclareRobustCommand{\ESL}
                                                     {\ensuremath{\exists}\SL}
                                          1765 \DeclareRobustCommand{\USL}
                                          1766
                                                      {\ensuremath{\forall}\SL}
                                          1767
                                          1768 \DeclareRobustCommand{\FSL}
                                                      {\{\text{txtname}\{F\}\}\SL\}}
                                          1769
                                          1770
                                          1771 \DeclareRobustCommand{\EFSL}
                                                       {\ensuremath{\exists}\FSL}
                                          1773 \DeclareRobustCommand{\UFSL}
                                                      {\ensuremath{\forall}\FSL}
                                          1774
                                          1775
```

```
1776 % One-Goal Strategy Logic
1777 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][1g\arglef{,}{#3}]}
1780 \DeclareRobustCommand{\EOGSL}
      {\ensuremath{\exists}\OGSL}
1781
1782 \DeclareRobustCommand{\UOGSL}
      {\ensuremath{\forall}\OGSL}
1783
1784
1785 \DeclareRobustCommand{\FOGSL}
      {{\txtname{F}}\OGSL}
1788 \DeclareRobustCommand{\EFOGSL}
      {\ensuremath{\exists}\FOGSL}
1790 \DeclareRobustCommand{\UFOGSL}
1791
      {\ensuremath{\forall}\FOGSL}
1792
1793 % Conjunctive-Goal Strategy Logic
1794 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][cg\arglef{,}{#3}]}
1796
1797 \DeclareRobustCommand{\ECGSL}
      {\ensuremath{\exists}\CGSL}
1799 \DeclareRobustCommand{\UCGSL}
      {\ensuremath{\forall}\CGSL}
1800
1801
1802 \DeclareRobustCommand{\FCGSL}
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1803
1804
1805 \DeclareRobustCommand{\EFCGSL}
      {\ensuremath{\exists}\FCGSL}
1807 \DeclareRobustCommand{\UFCGSL}
1808
      {\ensuremath{\forall}\FCGSL}
1810\ \% Disjunctive-Goal Strategy Logic
1811 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
1812
1813
1814 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
1816 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
1819 \DeclareRobustCommand{\FDGSL}
1820
      {\{\text{xtname}\{F\}\}\times GSL\}}
1821
1822 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
1824 \DeclareRobustCommand{\UFDGSL}
      {\ensuremath{\forall}\FDGSL}
1827 % Alternating-Goal Strategy Logic
1828 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1830
1831 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
1833 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
1834
1835
1836 \DeclareRobustCommand{\FAGSL}
      {\{\text{xtname}\{F\}\}\xgsl}
1837
1838
```

```
1839 \DeclareRobustCommand{\EFAGSL}
      {\ensuremath{\exists}\FAGSL}
1841 \DeclareRobustCommand{\UFAGSL}
1842
      {\ensuremath{\forall}\FAGSL}
1843
1844 % Extended-Goal Strategy Logic
1845 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1847
1848 \DeclareRobustCommand{\EEGSL}
      {\ensuremath{\exists}\EGSL}
1850 \DeclareRobustCommand{\UEGSL}
1851
      {\ensuremath{\forall}\EGSL}
1852
1853 \DeclareRobustCommand{\FEGSL}
      {\{\text{xtname}\{F\}\}\}\}
1854
1855
1856 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
1858 \DeclareRobustCommand{\UFEGSL}
      {\ensuremath{\forall}\FEGSL}
1861 % Boolean-Goal Strategy Logic
1862 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][bg\arglef{,}{#3}]}
1863
1864
1865 \DeclareRobustCommand{\EBGSL}
      {\ensuremath{\exists}\BGSL}
1866
1867 \DeclareRobustCommand{\UBGSL}
1868
      {\ensuremath{\forall}\BGSL}
1869
1870 \DeclareRobustCommand{\FBGSL}
1871
      {\{\text{xtname}\{F\}\}\times GSL\}}
1872
1873 \DeclareRobustCommand{\EFBGSL}
      {\ensuremath{\exists}\FBGSL}
1875 \DeclareRobustCommand{\UFBGSL}
      {\ensuremath{\forall}\FBGSL}
1877
1878 % Nested-Goal Strategy Logic
1879 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ng\arglef{,}{#3}]}
1882 \DeclareRobustCommand{\ENGSL}
     {\ensuremath{\exists}\NGSL}
1884 \DeclareRobustCommand{\UNGSL}
1885
      {\ensuremath{\forall}\NGSL}
1886
1887 \DeclareRobustCommand{\FNGSL}
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1888
1889
1890 \DeclareRobustCommand{\EFNGSL}
      {\ensuremath{\exists}\FNGSL}
1892 \DeclareRobustCommand{\UFNGSL}
1893
      {\ensuremath{\forall}\FNGSL}
1894
1895 % Undefined-Goal Strategy Logic
1896 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
1897
      {\SL[#1][#2][xg\arglef{,}{#3}]}
1898
1899 \DeclareRobustCommand{\EXGSL}
     {\ensuremath{\exists}\XGSL}
1901 \DeclareRobustCommand{\UXGSL}
```

```
1902
                                                                   {\ensuremath{\forall}\XGSL}
                                                1903
                                                1904 \DeclareRobustCommand{\FXGSL}
                                                1905
                                                                 {\{\text{txtname}\{F\}\}\setminus xGSL\}}
                                                1906
                                                1907 \DeclareRobustCommand{\EFXGSL}
                                                1908 {\ensuremath{\exists}\FXGSL}
                                                1909 \DeclareRobustCommand{\UFXGSL}
                                                                {\ensuremath{\forall}\FXGSL}
                                                \BndSet, ...
                                               1912 \newcommand{\bndsym}{\flat}
                                                1913 \newcommand{\bndset}{Bn}
                                                1914 \cmdmthsetext{Bnd}[\bndset][\bndsym]
                                               1915 \usrmth{bnd}{}{argfun}
                            \psn ...
                                               1916 \usrmth{psn}{}{argfun}
                                                \nxtFun ...
                                                1918 \newcommand{\nxtfun}{nxt}
                                                1919 \cmdmthfun{nxt} [\nxtfun]
                                                1920 \fi
                                                1925 \ifaut@
                                                \DFA, ... ...
                                                1927 \verb|\cmdtxtoparname{DFA}\cmdtxtoparname{WFA}\cmdtxtoparname{WFA}\cmdtxtoparname{AFA}|
                                                1929 \cmdtxtoparname{DWA}\cmdtxtoparname{AWA}
                                                1931 \cmdtxtoparname{DFW}\cmdtxtoparname{AFW}\cmdtxtoparname{AFW}
                                                1932 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}
                                                1933 \cmdtxtoparname{DBW}\cmdtxtoparname{ABW}
                                                1934 \verb|\cmdtxtoparname{DCW}| cmdtxtoparname{UCW}| cmdtxtoparname{ACW}| cmdtxtoparname{ACW}|
                                                1935 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{MPW}| Cmdtxtoparname{MPW}| 
                                                1936 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1936 $$ \cmdtxtoparname{DRW}\cmdtxtoparname{ARW} $$ $$ 1936 $$ \cmdtxtoparname{DRW}\cmdtxtoparname{DRW}$$ $$ $$ 1936 $$ \cmdtxtoparname{DRW}\cmdtxtoparname{DRW}$$ $$ 1936 $$ \cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}$$ $$ 1936 $$ \cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparn
                                                1937 \cmdtxtoparname{DSW}\cmdtxtoparname{ASW}
                                                1938 \cmdtxtoparname{DMW}\cmdtxtoparname{AMW}
             \GFG, ... ...
                                               1939 \cmdtxtoparname{GFG}
                                               1941 \cmdtxtoparname{PD}
                                                1942 \cmdtxtoparname{PN}
                                                1944 \cmdtxtoparname{LD}
                                                1945 \cmdtxtoparname{LN}
                                                \AutName, ... ...
                                                1947 \mbox{newcommand}\\\\\\\\\\\\\\\\}
                                                1948 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                1949 \newcommand{\autset}{Aut}
                                                1950 \cmdmthset{Aut}[\autset]
```

```
\WAutSet ...
                                                        1951 \newcommand{\wautset}{WAut}
                                                        1952 \cmdmthset{WAut}[\wautset]
   \SttSet, ...
                                                        1953 \def\sttsym{q}
                                                        1954 \def\sttset{Q}
                                                        1955 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                         1956 \verb|\cmdmthset{IStt}[\sttset_{I}]|
                                                         1957 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                         1958 \cmdmthset{FStt}[\sttset_{F}]
                                                         1959 \cmdmthsymelm{fstt}[\sttsym_{F}]
   \SymSet, ... ...
                                                        1960 \newcommand{\symsym}{\sigma}
                                                         1961 \newcommand{\symset}{\Sigma}
                                                         1962 \cmdmthsetext{Sym} [\symset] [\symsym]
                      \trnFun ...
                                                         1963 \newcommand{\trnsym}{\delta}
                                                         1964 \cmdmthfun{trn}[\trnsym]
                                                         \LangFun ...
                                                         1966 \newcommand{\langfun}{L}
                                                         1967 \cmdmthfun{Lang}[\langfun]
   \WrdSet, ... ...
                                                         1968 \newcommand{\wrdsym}{w}
                                                         1969 \newcommand{\wrdset}{Wr}
                                                         1970 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                                                        \DTA, ... ...
                                                        1972 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{NTA}\cmdtxtoparname{UTA}\cmdtxtoparname{ATA}|
                                                        1974 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                                                         1975 \verb|\cmdtxtoparname{DWT}\cmdtxtoparname{AWT}| cmdtxtoparname{AWT}| 
                                                         1976 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                                                         1977 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                                                         1978 \verb|\cmdtxtoparname{DPT}\cmdtxtoparname{MPT}\cmdtxtoparname{MPT}\cmdtxtoparname{APT} | APT 
                                                         1979 \verb|\cmdtxtoparname{LRT} \verb|\cmdtxtoparna
                                                         1980 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{MST}\cmdtxtoparname{UST}\cmdtxtoparname{AST}|
                                                         1981 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
                                                         \TAutSet ...
                                                         1983 \newcommand{\tautset}{TAut}
                                                        1984 \cmdmthset{TAut}[\tautset]
   \DirSet, ... ...
                                                        1985 \newcommand{\dirsym}{d}
                                                         1986 \newcommand{\dirset}{\Lambda}
                                                         1987 \cmdmthsetext{Dir}[\dirset][\dirsym]
                                                         \TreeSet, ... ...
                                                         1989 \newcommand{\treesym}{T}
                                                         1990 \newcommand{\treeset}{Tr}
                                                         1991 \verb|\cmdmthsetext{Tree}| [\verb|\treeset|] [\treesym]|
```

```
\wotFun ...
    1992 \mbox{newcommand{\wotfun}{wot}}
    1993 \cmdmthfun{wot}[\wotfun]
    1994 \fi
    1999 \iffrm@
    2000 %%...
    2001 \fi
    2006 \iffig@
    2007 \RequirePackage{tikz}
    2008 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}
    2009 \tikzstyle{every node} =
    2010 [draw = none, fill = none, black, thin]
    2011 \tikzstyle{every edge} +=
    2012 [black, thick]
    2013 \tikzstyle{noall} =
    2014 [draw = none, fill = none]
    2015 \tikzstyle{nodraw} =
    2016 [draw = none, fill = white]
    2017 \tikzstyle{nofill} =
    2018 [draw = black, fill = none]
    2019 \ifwrpfig@
    2020 % Wrapfig Package
    2021 \RequirePackage{wrapfig}
    2022 \fi
    2023 \fi
    2028 \iftab@
  2029 %%...
    2035 \ifalg@
    2036 \RequirePackage[ruled,vlined]{algorithm2e}
    2037 \DontPrintSemicolon
    2038 \SetInd{0.25em}{0.5em}
    2039 \setlength{\algomargin}{1.25em}
\Signature
    2040 \SetKw{Signature}{signature}
```

```
\Macro, ... ...
                                                                   2041 \SetKwFor{Macro}{macro}{}}
                                                                   2042 \texttt{\SetKwFor{Function}{function}{}} \}
                                                                   2043 \verb|\SetKwFor{Procedure}{fprocedure}{f}{} 
                                        \Let ...
                                                                   2044 \For{Let}{let}{in}{}
\True, \False ...
                                                                   2045 \SetKw{True}{true}
                                                                   2046 \SetKw{False}{false}
             \From, ... ...
                                                                   2047 \SetKw{From}{from}
                                                                   2048 \text{To}{to}
                                                                   2049 \SetKw{DownTo}{downto}
             \GoTo, ... ...
                                                                    2050 \SetKw{GoTo}{goto}
                                                                    2051 \SetKw{Break}{break}
                                                                   2052 \SetKw{Continue}{continue}
                 \MIf, ... ...
                                                                    2053 \texttt{\MElseIf}{\texttt{MElse}{\wif}{\text{Melse}{\wif}}{\text{Melse}{\wif}}{\text{Melse}{\wif}}{\text{Melse}{\wif}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}}{\text{Melse}
                                        \nlr ...
                                                                    2054 \DeclareRobustCommand{\nlr}[1]
                                                                    2055 {\addtocounter{AlgoLine}{1}%
                                                                    2056 \quad \verb|\arabic{AlgoLine}-\addtocounter{AlgoLine}{\#1}\arabic{AlgoLine}{}|
                                                                    2059 \endinput
                                                                    2060 (/package)
```

2 Change History

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

3 Index

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

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\@ifstar	\\(\text{Qsnewmthargsty} \tag{359}, \text{362} \\ \text{Qsnewmthoarg} \tag{365}, \text{368} \\ \text{Qsnewmthoargsty} \tag{371}, \text{374} \\ \text{Qsnewmthopar} \tag{389}, \text{392} \\ \text{Qsnewmthoparsty} \tag{395}, \text{398} \\ \text{Qsnewmthpar} \tag{377}, \text{380} \\ \text{Qsnewmthparsty} \tag{383}, \text{386} \\ \text{Qssequence} \tag{859} \\ \text{Qssequencel} \tag{863} \\ \text{Qssequencer} \tag{867} \\ \text{Qssequencex} \tag{871} \end{args} \end{args}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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\rceil 1025 \rchfum 1192, 1193 \relax 130 \relset 1355, 1356 \relsig 1352, 1353 \RelSig, 1366, 1367 \RelStr, 1366, 1367 \RelStr, 1354, 1356 \relsym 1354, 1356 \RequirePackage 3, 5,	\SetCI	\tab@true 116 \tau 1735 \TAutSet 1983 \tautset 1983, 1984 \terset 1349, 1350 \tersig 1346, 1347 \TerSig,□ 1346 \terstr 1364, 1365 \TerStr,□ 1364 \tersym 1348, 1350 \text 294, 314, 809 \textstyle 672, 673
\rceil 1025 \rchfum 1192, 1193 \relax 130 \relset 1355, 1356 \relsig 1352, 1353 \RelSig, 1366, 1367 \RelStr, 1366, 1367 \RelStr, 1354, 1356 \relsym 1354, 1356 \RequirePackage 3, 5,	\SetCI 996 \SetF 964 \SetInd 2038 \SetKw 2040,	\tab@true 116 \tau 1735 \TAutSet 1983 \tautset 1983, 1984 \terset 1349, 1350 \tersig 1346, 1347 \TerSig,□ 1346 \terstr 1364, 1365 \TerStr,□ 1364 \tersym 1348, 1350 \text 294, 314, 809 \textstyle 672, 673 \textup 809 \thestring 598, 599, 600, 601
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\tuple1 886	\UFSL	474, 478, 480, 482, 484,
\tupler 890	\UFXGSL 1909	486, 491, 493, 495, 497,
\tuplex 894	\ULH,_\UBH 1098	499, 503, 505, 507, 509, 511
\tuplex1 898	\ULTL 1589	\UXGSL 1901
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\txt@false 56, 66, 68	\UNGSL 1884	\valset 1310, 1311
\txt@true 67	\UOGSL 1782	\ValSet,
\txtabr, \\ \frac{475}{218}	\upharpoonright 937	\valsym 1309, 1311 \varcmd 161,
\txtarg 318 \txtcom, 500	\upshape 327	856, 857, 860, 861, 864,
\txtdef, 463	\UPTL 1578	865, 868, 869, 872, 873,
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1541, 1545, 1553, 1557,	612, 614, 619, 621, 623,	\vert 910, 914
1561, 1575, 1586, 1613,	625, 627, 632, 634, 636,	\Viceversa 779 \viceversa 762
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\txtoarg \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$727, 729, 731, 733, 735, \\929, 930, 931, 932, 950, \\951, 952, 953, 955, 956, \\957, 958, 959, 960, 1027, \\1028, 1029, 1030, 1031, \\1032, 1033, 1034, 1035, \\1036, 1037, 1045, 1046, \\1266, 1268, 1270, 1272, \\1274, 1276, 1278, 1280, \\1282, 1284, 1288, 1289, \\1290, 1291, 1292, 1293, \\1294, 1298, 1299, 1300, \\1301, 1331, 1332, 1338, \\1344, 1345, 1351, 1357, \\1358, 1394, 1396, 1504, \\1505, 1506, 1592, 1593, \\1594, 1595, 1596, 1597, \\1598, 1599, 1600, 1601, \\1653, 1654, 1915, 1916 \\ \verb{usrmthgrklet} \dots \underline{450}$	\WATLP 1676 \WATLS 1691 \WAUTLS 1691 \WAUTSet 1951 \Wautset 1951, 1952 \WCTL 1612 \WCTLP 1627 \WCTLS 1642 \Wghset 1241, 1242 \WghSet, wghFun 1240, 1242 \WH 1092 \Widehat 846 \Widetilde 848 \Winset 1146, 1147 \Wlogx 799 \Wlogx 796 \WMPL 1480 \WMSO 1424 \WMSOL 1422
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\txtoarg 320 \txtoargcom 1054, 1070 \txtopar 324 \txtoparcom 1072 \txtopar 322 \txttpar 322 \txtsty 323, 325, 326 \txtstybr 476 \txtstycom 501 \txtstydef 464 \txtstyname 489 \txtsubsup 294, 313 U \UAFMC 1564 \UAGSL 1833 \UATL 1669 \UATLP 1684 \UATLS 1699 \UBF 1260 \UBGSL 1897 \UCTL 1620 \UCTLP 1635 \UCTLS 1650 \UCTLS 1650 \UCTLS 1650 \UDGSL 1816 \UCGSL 1830 \UCTLS 1650 \UCTLS 1650 \UDGSL 1816 \UCGSL 1850 \UTAGSL 1836 \UCTLS 1650 \UDGSL 1816 \UEGSL 1850 \UFAGSL 1841 \UFBGSL 1875	$\begin{array}{c} 727, 729, 731, 733, 735,\\ 929, 930, 931, 932, 950,\\ 951, 952, 953, 955, 956,\\ 957, 958, 959, 960, 1027,\\ 1028, 1029, 1030, 1031,\\ 1032, 1033, 1034, 1035,\\ 1036, 1037, 1045, 1046,\\ 1266, 1268, 1270, 1272,\\ 1274, 1276, 1278, 1280,\\ 1282, 1284, 1288, 1289,\\ 1290, 1291, 1292, 1293,\\ 1294, 1298, 1299, 1300,\\ 1301, 1331, 1332, 1338,\\ 1344, 1345, 1351, 1357,\\ 1358, 1394, 1396, 1504,\\ 1505, 1506, 1592, 1593,\\ 1594, 1595, 1596, 1597,\\ 1598, 1599, 1600, 1601,\\ 1653, 1654, 1915, 1916\\ \verb \usrmthgrklet \ldots \ldots$	\WATLP
\txtoarg 320 \txtoargcom 1054, 1070 \txtopar 324 \txtoparcom 1072 \txtopar 322 \txttpar 322 \txtsty 323, 325, 326 \txtstybr 476 \txtstycom 501 \txtstydef 464 \txtstyname 489 \txtsubsup 294, 313 U \UAFMC 1564 \UAGSL 1833 \UATL 1669 \UATLP 1684 \UATLS 1669 \UBF 1260 \UBGSL 1867 \UCGSL 1799 \UCTL 1620 \UCTLP 1635 \UCTLS 1650 \UDGSL 1816 \UCTLS 1850 \UDGSL 1850 \UDGSL 1850 \UDGSL 1850 \UDGSL 1850 \UDGSL 1850 \UDGSL 1850	$\begin{array}{c} 727, 729, 731, 733, 735,\\ 929, 930, 931, 932, 950,\\ 951, 952, 953, 955, 956,\\ 957, 958, 959, 960, 1027,\\ 1028, 1029, 1030, 1031,\\ 1032, 1033, 1034, 1035,\\ 1036, 1037, 1045, 1046,\\ 1266, 1268, 1270, 1272,\\ 1274, 1276, 1278, 1280,\\ 1282, 1284, 1288, 1289,\\ 1290, 1291, 1292, 1293,\\ 1294, 1298, 1299, 1300,\\ 1301, 1331, 1332, 1338,\\ 1344, 1345, 1351, 1357,\\ 1358, 1394, 1396, 1504,\\ 1505, 1506, 1592, 1593,\\ 1594, 1595, 1596, 1597,\\ 1598, 1599, 1600, 1601,\\ 1653, 1654, 1915, 1916\\ \verb \usrmthgrklet \ldots \ldots$	\WATLP

\wrpfig@false 111	\WTL 1445	1854, 1871, 1888, 1905
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\wso 1406	\XGSL 1896, 1900, 1902	${f Y}$
		\Y 1597