fmocdmac — FM's OCD LATEX Macro*

Fabio Mogavero fm@fabiomogavero.com

Released 2025/04/21

Abstract

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

1 Implementation & Usage

1 (*package)

Required external packages:

```
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 v0.31 of the fmocdmac package, last revised 2025/04/21.

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

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

98 \newif\ifaut@ \aut@false

```
Emptiness check: \{A\} evaluates to the empty string, if Argument A is empty,
             and to Argument \langle B \rangle, otherwise.
                 • \empchk{}{B} = ""
                 • \empchk{A}{B} = "B"
              152 \newrobustcmd{\empchk}[2]
                   {\left\{ if \&#1\& else#2\right\} }
    \defval Default value: \defval{\lambda}\{\lambda\\}\{\lambda\\}\\ evaluates to Argument \lambda B\rangle, if Argument \lambda A\rangle is empty, and to
             Argument \langle A \rangle itself, otherwise.
                 • \defval{}{B} = "B"
                 • \defval{A}{B} = "A"
              154 \newrobustcmd{\defval}[2]
                   {\if&#1&#2\else#1\fi}
              \arglef Left extension: \arglef\{\langle A \rangle\} evaluates to the concatenation \langle AB \rangle of the two arguments, if
             Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                 • \arglef{A}{} = ""
                 • \arglef{A}{B} = "AB"
              157 \newrobustcmd{\arglef}[2]
                   {\empchk{#2}{#1#2}}
    \argrig Right extension: \argrig{\langle A\rangle}\{\langle B\rangle}\ evaluates to the concatenation \langle AB \rangle of the two arguments,
             if Argument \langle A \rangle is non-empty, and to the empty string, otherwise.
                 • \argrig{}{B} = ""
                 • \argrig{A}{B} = "AB"
              159 \newrobustcmd{\argrig}[2]
                  {\empchk{#1}{#1#2}}
    \argmid Middle extension: \argmid{\langle A\rangle}{\langle B\rangle}{\langle C\rangle} evaluates to the concatenation \langle ABC \rangle of the three
             arguments, if Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                 • \argmid{A}{{}{C} = ""
                 • \argmid{A}{B}{C} = "ABC"
              161 \newrobustcmd{\argmid}[3]
                   {\empchk{#2}{#1#2#3}}
    \argsep Separators: \argsep\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
             Argument \langle A \rangle, if Argument \langle C \rangle is empty, and to the concatenation \langle ABC \rangle, otherwise.
                 • \argsep{}{B}{C} = "C"
                 • \argsep{A}{B}{} = "A"
                 • \argsep{A}{}{C} = "AC"
                 • \argsep{A}{B}{C} = "ABC"
              163 \newrobustcmd{\argsep}[3]
                   {\if&#1&#3\else#1\arglef{#2}{#3}\fi}
              \ifstarvar Command star variants: \ifstarvar\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
              166 \newrobustcmd{\ifstarvar}
              167
                   {\@ifstar}
\ifexclavar Command exclamation variants: \ifexclavar\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
              168 \newrobustcmd{\ifexclavar}[1]
                   {\@ifnextchar!{\@firstoftwo{#1}}}
```

```
\ifquestvar Command questionmark variants: \ifquestvar\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       170 \newrobustcmd{\ifquestvar}[1]
                                {\@ifnextchar?{\@firstoftwo{#1}}}
                        173 \newrobustcmd{\varcmd}[6]
                                {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
                       175
                                    {\csname check#larg\endcsname%
                       176
                                       {\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\en
                                \expandafter\newcommand\csname check#larg\endcsname[1]
                       177
                                   {\csname @ifnextchar\endcsname%
                       178
                                       \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
                       179
                                \expandafter\newcommand\csname#1\endcsname[1]
                       180
                                   {\csname check#1arg\endcsname{#3##1}}}
                       181
                       \seqoftag Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
                       183 \newrobustcmd{\seqoftag}[3]
                       184
                                {\@for\itr:={#1}\do%
                       185
                                    {\expandafter\csedef{\itr#2}%
                                       {\noexpand\csname #3\endcsname{\itr}}}
                       186
    \seqofcmd Sequence of commands: \seqofcmd\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
                       187 \newrobustcmd{\seqofcmd}[3]
                               {\@for\itr:={#1}\do%
                                    {\expandafter\csedef{\itr#2}%
                       189
                                       {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
                       190
                       \sequipseqoflatlow Sequence of Latin lowercase letters: \sequipseqoflatlow\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       192 \newrobustcmd{\segoflatlow}
                               {\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!
                       194 \newrobustcmd{\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}}
\sequipsequence of Latin letters: \sequipsequence \{\lambda\}\{\lambda\}\\ \...\ to do!
                       196 \newrobustcmd{\seqoflatlet}[2]
                                {\seqoflatlow{#1}{\#2}\seqoflatupp{#1}{\#2}}
                       \seqofgrklow Sequence of Greek lowercase letters: \sqootnote{seqofgrklow} \{\langle A \rangle\} \{\langle B \rangle\} \dots to do!
                       199 \newrobustcmd{\seqofgrklow}
                               {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                       200
                       201
                                iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
                               varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
\seqofgrkupp Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       203 \newrobustcmd{\seqofgrkupp}
                               {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
                       204
                                Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                       205
                               varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       207 \newrobustcmd{\seqofgrklet}[2]
                               {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
```

```
\seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
                      210 \newrobustcmd{\seqoflow}[2]
                               {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
\seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                      212 \newrobustcmd{\seqofupp}[2]
                              {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
\seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                     214 \mbox{ }\mbox{newrobustcmd} \mbox{ }\mbox{seqoflet} \mbox{ } \mbox{ }
                              {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
                     220 \ifaux@
                     221
                     222 \ifamsdef@
                     223 % AMS Packages
                     224 \RequirePackage{mathtools}
                     225
                               \RequirePackage{amssymb}
                               \RequirePackage{stmaryrd}
                     226
                               \interdisplaylinepenalty=2500
                     227
                     228 \fi
                     229
                     230 \ifamsthm@
                      231 % AMS Theorem Tools
                      232 \RequirePackage{amsthm}
                      233 \fi
                      234
                     235 \ifthmtls@
                     236 % Extended Theorem Tools
                               \RequirePackage{thmtools}
                               \RequirePackage{thm-restate}
                     238
                     239 \fi
                     240
                     241 \ifenmtls@
                     242 % Enumeration Tools
                     243 \RequirePackage{paralist}
                     244 \fi
                     245
                     246 \ifhypref@
                     247
                               % Hyper References
                                \RequirePackage{hyperref}
                     248
                                \hypersetup {
                     249
                                    pdfsubject
                                                                = {},
                     250
                                    pdfkeywords
                                                                = {},
                     251
                                   pdfproducer
                                                                = {},
                      252
                                    pdfcreator
                      253
                                                                = {},
                                    pdfpagemode
                                                              = {UseNone},
                      254
                                    pdfstartview = {FitH},
                      255
                      256
                                    urlcolor
                                                                = {blue},
                     257
                                    colorlinks
                     258 }
                     259 \fi
                     260
                     261 \iffnttls@
                     262 % Font Tools
                     263 \RequirePackage[final]{microtype}
                     264 \fi
```

```
266 \ifcrv@
         % Camera-Ready Version
      268
      269
          %%...
      270
      271 \else
         % Draft Version
      272
      273
         %%...
      274
      275
      276
          \ifchgbar@
           % Change Bars
      277
           \RequirePackage{changebar}
      278
      279
      280
          \iflinnum@
      281
           % Line Numbers
      282
           \if@twocolumn
      283
             \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
      284
             \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
      287
           \fi
          \fi
      288
      289
          %%...
      290
      291
      292 \fi
      293
      294\fi
      \mathbbo Bbo Math Font: ... to do!
      299 \ifdef{\mathbbo}{}{\DeclareMathAlphabet{\mathbbo}{U}{bbold}{m}{n}}
\matheus Eus Math Font: ... to do!
      300 \left\{ \mathbb{U}_{matheus} \right\} \\
\mathpzc Pzc Math Font: ... to do!
      301 \left\{ \mathbf{T1}_{pzc}_{m}(it) \right\}
\mathscr Scr Math Font: ... to do!
      302 \left\{ \mathbf{Mathscr} {\DeclareMathAlphabet{\mathbf{U}} {rsfs} {m} {n} \right\}
      \newtxt ... to do!
        • \newtxt[\rmfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
        • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
        • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
        • \mbox{\colored}[Sub][Sub][Ext] = "Name_{Sub}^{Sub}Ext"
        • \newtxt![\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
        • \newtxt![\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
```

265

```
307 \DeclareRobustCommand{\newtxt}
                                                                             308 {\ifexclavar{\@snewtxt}{\@newtxt}}
                                                                             309 \DeclareRobustCommandx{\Onewtxt}[5][1=, 3=, 4=, 5=]
                                                                             310 {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
                                                                             311 \DeclareRobustCommandx{\@snewtxt}[5][1=, 3=, 4=, 5=]
                                                                             312 {\#1\#2\txtsubsup[\#1]}{\#3}{\#4}\#5\normalfont\xspace}
               \newtxtsty ... to do!
                                                                                         • \mbox{newtxtsty}{\rm Sub}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                         • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                                                                         • \mbox{\t Name} \mbox{\t Sub} \mbox{\t Ext} = \mbox{\t Name} \mbox{\t Ext} = \mbox{\t Name} \mbox{\t Sub} \mbox{\t Ext}
                                                                                          • \new txtsty! {\new [sub] [sup] [Ext] = "Name _{sub}^{sup} Ext"}
                                                                                          • \newtxtsty!{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                                                                         \bullet \ \texttt{Name} \{ \texttt{Sub} [ \texttt{Sub} ] [ \texttt{Ext} ] = \texttt{"Name} \texttt{Sup} \texttt{Ext} "
                                                                             313 \DeclareRobustCommand{\newtxtsty}
                                                                                                 {\ifexclavar{\@snewtxtsty}{\@newtxtsty}}
                                                                             315 \DeclareRobustCommandx{\@newtxtsty}[2][2=]
                                                                              316 {\newtxt[\defval{#2}{#1}]}
                                                                             317 \DeclareRobustCommandx{\@snewtxtsty}[2][2=]
                                                                             318 {\newtxt![\defval{#2}{#1}]}
               \newtxtarg ... to do!
                                                                                         • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"}
                                                                                         \bullet \ \texttt{\  \  } [\texttt{Sub}][\texttt{Sub}][\texttt{Ext1}] \{\texttt{Arg}\}[\texttt{Ext2}] = \texttt{``Name}^{\texttt{sup}}_{\texttt{sub}} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}"
                                                                                           \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                           \bullet \texttt{ \  \  } [\texttt{Sup}][\texttt{Ext1}] \texttt{ \  \  } [\texttt{Ext2}] = \texttt{``Name}^{\texttt{sup}} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}'' 
                                                                                          • \newtxtarg! [\ttfamily] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name sup Ext1 (Arg) Ext2"
                                                                             319 \DeclareRobustCommand{\newtxtarg}
                                                                             320 {\ifexclavar{\@snewtxtarg}{\@newtxtarg}}
                                                                              321 \DeclareRobustCommandx{\Onewtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                              322 {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
                                                                              323 \DeclareRobustCommandx{\@snewtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                 {\newtxt![#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
\newtxtargsty ... to do!
                                                                                          \bullet \texttt{ \  \  } [\texttt{Sub}] [\texttt{Sub}] [\texttt{Ext1}] \{\texttt{Arg}\} [\texttt{Ext2}] = \texttt{``Name}^{\sup}_{\sup} \texttt{Ext1} (\texttt{Arg}) \texttt{Ext2}" 
                                                                                         • \newtxtargsty{\rmfamily}[\sffamily][\sup][\sup][\sup][\sup][\sup][\st1]{\Arg}[\sup]="\Name\sup \sup \st1(\Arg)\st2"
                                                                                          • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NamesubExt1(Arg)Ext2"
                                                                                           \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                           \bullet \texttt{\newtxtargsty!} \{\texttt{\normall}[\texttt{\normall}[\texttt{\normall}] \{\texttt{\normall}[\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normall}][\texttt{\normal
                                                                                          • \newtxtargsty!{\rmfamily}[\ttfamily]{\Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                             325 \DeclareRobustCommand{\newtxtargsty}
                                                                             326 {\ifexclavar{\@snewtxtargsty}{\@newtxtargsty}}
                                                                              327 \DeclareRobustCommandx{\@newtxtargsty}[2][2=]
                                                                              328 {\newtxtarg[\defval{#2}{#1}]}
                                                                             329 \DeclareRobustCommandx{\@snewtxtargsty}[2][2=]
                                                                                                   {\newtxtarg![\defval{#2}{#1}]}
          \newtxtoarg ... to do!
                                                                                         • \mbox{\ensuremath{\text{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}^{sup}_{sub}(Arg)}
                                                                                         • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\texttt{"Name}}} \mbox{\ensuremath{\texttt{Sub}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sub}}} \mbox{\ensuremath{\texttt{Ing}}} = \mbox{\ensuremath{\texttt{"Name}}} \mbox{\ensuremath{\texttt{Sub}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sub}}} \mbox{\ensuremath{\texttt{Ing}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sub}}} \mbox{\ensuremath{\texttt{Ing}}} \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensure
                                                                                          • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name sub (Arg)"
                                                                                           \bullet \texttt{ \  \  } \texttt{[Name][Sub][Sup][Arg]} = \texttt{``Name}^{sup}_{sub}(Arg)"
```

• \newtxtoarg! [\sffamily] {Name} [sub] [sup] [Arg] = "Name_sub_(Arg)"

```
• \newtxtoarg! [\ttfamily] {Name} [sub] [sup] [Arg] = "Name sup (Arg)"
                                                                331 \DeclareRobustCommand{\newtxtoarg}
                                                                332 {\ifexclavar{\@snewtxtoarg}{\@newtxtoarg}}
                                                                333 \DeclareRobustCommandx{\@newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                334 {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
                                                                335 \DeclareRobustCommandx{\@snewtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                336 {\newtxtarg![#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                                                         • \mbox{\normalize} \{\mbox{\normalize}, \mbox{\normalize} \} \ [sub] [sup] [Arg] = "Name _{
m sub}^{
m sup} (\mbox{\normalize}, \mbox{\normalize})"
                                                                         • \newtxtoargsty{\rmfamily}[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                         • \newtxtoargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                          • \new txtoargsty! {\new [sub] [sub] [sup] [Arg] = "Name_{sub}^{sup} (Arg)"}
                                                                         • \new txtoargsty! {\new txt
                                                                          • \newtxtoargsty!{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                                                337 \DeclareRobustCommand{\newtxtoargsty}
                                                                338 {\ifexclavar{\@snewtxtoargsty}{\@newtxtoargsty}}
                                                                339 \DeclareRobustCommandx{\@newtxtoargsty}[2][2=]
                                                                340 {\newtxtoarg[\defval{#2}{#1}]}
                                                                341 \DeclareRobustCommandx{\@snewtxtoargsty}[2][2=]
                                                               342 {\newtxtoarg![\defval{#2}{#1}]}
                \newtxtpar ... to do!
                                                                          \bullet \texttt{ \  \  } \texttt{[Ext1] \{Par\}[Ext2]} = \texttt{``Name}^{\sup}_{\sup} \texttt{Ext1}[Par] \texttt{Ext2''} 
                                                                         • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                         • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                         • \newtxtpar! [\rmfamily] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name_sup_Ext1[Par] Ext2"
                                                                         • \newtxtpar![\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2"
                                                                          \bullet \texttt{ \  \  } \texttt{[Xttfamily][Name][sub][sup][Ext1][Par][Ext2]} = \texttt{``Name}^{sup}_{sub}\texttt{Ext1[Par]Ext2''} 
                                                                343 \DeclareRobustCommand{\newtxtpar}
                                                                344 {\ifexclavar{\@snewtxtpar}{\@newtxtpar}}
                                                                345 \DeclareRobustCommandx{\@newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                346 \quad {\texttt{\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}}
                                                                347 \DeclareRobustCommandx{\@snewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                               348 {\newtxt![#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
   \newtxtparsty ... to do!
                                                                         • \newtxtparsty{\rmfamily}{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{\rm sub}^{\rm sup}Ext1[Par]Ext2"
                                                                         • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[\Par]Ext2"
                                                                          \bullet \mathtt{Name}^{\sup}_{\mathrm{Sub}}[\mathrm{Sub}][\mathrm{Sup}][\mathrm{Ext1}] \\ + \mathrm{Par}_{\mathrm{Ext2}} = \mathtt{Name}^{\sup}_{\mathrm{Sub}} \\ + \mathrm{Ext2}_{\mathrm{Ext2}} = \mathtt{Ext2}_{\mathrm{Ext2}} \\ + \mathrm{Ext2}_{\mathrm{Ext2
                                                                          • \newtxtparsty!{\rmfamily}{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_{\text{sub}}^{\text{sup}}Ext1[Par]Ext2"
                                                                          • \newtxtparsty! {\rmfamily} [\sffamily] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name_sup_Ext1[Par]Ext2"
                                                                          \bullet \mathtt{Name}_{\mathrm{sub}}^{\mathrm{sup}}[\mathtt{Ext1}] \\ \{\mathtt{Par}_{\mathrm{Ext2}} = \mathtt{``Name}_{\mathrm{sub}}^{\mathrm{sup}}\mathtt{Ext1}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{``Name}_{\mathrm{Ext2}}^{\mathrm{sup}}\mathtt{Ext1}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{``Name}_{\mathrm{Ext2}}^{\mathrm{sup}}\mathtt{Ext2}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{``Name}_{\mathrm{Ext2}}^{\mathrm{sup}}\mathtt{Ext2}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{``Name}_{\mathrm{Ext2}}^{\mathrm{sup}}\mathtt{Ext2}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{``Name}_{\mathrm{Ext2}}^{\mathrm{sup}}\mathtt{Ext2}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{``Name}_{\mathrm{Ext2}}^{\mathrm{ext2}}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{```Name}_{\mathrm{Ext2}}^{\mathrm{ext2}}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{```Name}_{\mathrm{Ext2}}^{\mathrm{ext2}}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{```Name}_{\mathrm{Ext2}}^{\mathrm{e
                                                                349 \DeclareRobustCommand{\newtxtparsty}
                                                                350 {\ifexclavar{\@snewtxtparsty}{\@newtxtparsty}}
                                                                351 \DeclareRobustCommandx{\@newtxtparsty}[2][2=]
                                                                352 {\newtxtpar[\defval{#2}{#1}]}
                                                                353 \DeclareRobustCommandx{\@snewtxtparsty}[2][2=]
                                                               354 {\newtxtpar![\defval{#2}{#1}]}
            \newtxtopar ... to do!
                                                                          \bullet \texttt{ \  \  } \texttt{[Sub] [Sup] [Par]} = \texttt{``Name}^{\sup}_{\sup}[Par]" 
                                                                         • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
```

\newtxtopar[\ttfamily]{Name}[sub][sup][Par] = "Name sub [Par]"
 \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]"
                  355 \DeclareRobustCommand{\newtxtopar}
                  356 {\ifexclavar{\@snewtxtopar}{\@newtxtopar}}
                  357 \DeclareRobustCommandx{\@newtxtopar}[5][1=, 3=, 4=, 5=]
                  358 {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
                  359 \DeclareRobustCommandx{\@snewtxtopar}[5][1=, 3=, 4=, 5=]
                       {\newtxtpar![#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                    • \mbox{\ensuremath{\mbox{Name}} (Sub) [Sup] [Par] = "Name}_{sub} [Par]"}
                     • \newtxtoparsty{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Namesup[Par]"
                     • \newtxtoparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                    • \newtxtoparsty!{\rmfamily}{Name}[sub][sup][Par] = "Name_sub_[Par]"
                     • \newtxtoparsty!{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sub_Par]"
                    • \newtxtoparsty!{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                  361 \DeclareRobustCommand{\newtxtoparsty}
                      {\ifexclavar{\@snewtxtoparsty}{\@newtxtoparsty}}
                  363 \DeclareRobustCommandx{\@newtxtoparsty}[2][2=]
                  364 {\newtxtopar[\defval{#2}{#1}]}
                  365 \DeclareRobustCommandx{\@snewtxtoparsty}[2][2=]
                      {\newtxtopar![\defval{#2}{#1}]}
    \txtsubsup ... to do!
                    • \text{txtsubsup}\{\text{sub}\} = "sub"; \text{txtsubsup}\{\text{sup}\} = "sup"; \text{txtsubsup}\{\text{sub}\} (sup) = "sub";
                    • \t \ \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                    • \txtsubsup[\ttfamily]{Aa}{Bb} = \(\frac{\alpha Bb}{Aa}\)
                  367 \DeclareRobustCommand{\txtsubsup}[3][]
                      {\ensuremath{\empchk{#2}{_{\text{#1#2}}}\empchk{#3}{^{\text{#1#3}}}}}
                  \txt ... to do!
                    • \txt{Name}[sub][sup][Ext] = "Name_sub_Ext"
                    • \txt[\scshape]{Name}[sub][sup][Ext] = "NAME_SUP_EXT"
                     • \txt[\bfseries]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                    • \txt!{Name}[sub][sup][Ext] = "Name_sub_Ext"
                    • \txt! [\scshape] {Name} [sub] [sup] [Ext] = "NAME_SUB_EXT"
                     • \text{txt!}[\text{bfseries}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext"}
                  370 \DeclareRobustCommand{\txt}
                      {\ifexclavar{\newtxtsty!{\txtsty}}{\newtxtsty{\txtsty}}}
       \txtarg ... to do!
                    • \txtarg{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                    • \txtarg[\scshape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NAMESUBEXT1(ARG)EXT2"
                     • \txtarg[\bfseries] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_sub_Ext1(Arg)Ext2"
                    • \text{txtarg!}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}"
                    • \txtarg! [\scshape] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "NAMESUB EXT1(ARG)EXT2"
                     • \txtarg! [\bfseries] {\name} [\sub] [\sup] [\sut1] {\arg} [\set2] = "\name_{\sub} Ext1(\arg) Ext2"
                  372 \DeclareRobustCommand{\txtarg}
                      {\ifexclavar{\newtxtargsty!{\txtsty}}{\newtxtargsty{\txtsty}}}
      \txtoarg ... to do!
                    • \text{txtoarg{Name}[sub][sup][Arg]} = \text{"Name}_{\text{sub}}^{\text{sup}}(Arg)"
                    • \text{txtoarg[\scshape]} \{\text{Name}\} [\text{sub}] [\text{Arg}] = \text{"Name}_{\text{SUB}}^{\text{SUP}} (\text{Arg})"
```

```
• \text{txtoarg[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Arg}] = \text{"Name}_{\text{sub}}^{\text{sup}}(\text{Arg})"
                • \txtoarg!{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                 \qquad \qquad \bullet \ \texttt{[Name][Sub][Sup][Arg]} = \text{``Name}_{SUB}^{SUP}(ARG)\text{''} \\
                374 \DeclareRobustCommand{\txtoarg}
                 {\ifexclavar{\newtxtoargsty!{\txtsty}}{\newtxtoargsty{\txtsty}}}
    \txtpar ... to do!
                • \text{txtpar{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{Par}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[\text{Par}]\text{Ext2}"
                • \text{txtpar}[\schape]{Name}[\sub][\sup][\schape] = "Name$_{SUB}^{SUP}Ext1[\protect\scalebox{PAR}]Ext2"
                • \txtpar!{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                • \txtpar! [\scshape] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "NAME_SUP EXT1 [PAR] EXT2"
                • \txtpar![\bfseries]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
             376 \DeclareRobustCommand{\txtpar}
                  {\ifexclavar{\newtxtparsty!{\txtsty}}{\newtxtparsty{\txtsty}}}
   \txtopar ... to do!
                • \txtopar{Name}[sub][sup][Par] = "Name_sub_[Par]"
                • \txtopar[\scshape]{Name}[sub][sup][Par] = "NAME_SUB[PAR]"
                • \text{txtopar!}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Par}] = \text{"Name}_{\text{sub}}^{\text{sup}}[\text{Par}]"
                • \t \ [\scshape] {Name} [sub] [sup] [Par] = "NAME_{SUB}^{SUP} [PAR]"
                 \qquad \qquad \bullet \  \  \, \texttt{Name}[sub][sub][Par] = "Name_{sub}^{sup}[Par]" \\
             378 \DeclareRobustCommand{\txtopar}
                  {\ifexclavar{\newtxtoparsty!{\txtsty}}{\newtxtoparsty{\txtsty}}}
    \txtsty ... to do!
             380 \DeclareRobustCommand{\txtsty}
             381 {\mdseries\upshape\rmfamily}
             \cmdtxt ... to do!
                \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                  \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|_{SUB}^{SUP}Ext|
                  \verb|\txtNewCmd!{Name}[sub][sup][Ext]| = \verb|\Name|_{SUB}Ext|
             383 \DeclareRobustCommand{\cmdtxt}[1]
             384 {\csdef{txt#1}}%
                     {\protect\ifexclavar%
             385
                       {\tt \{\newtxtsty!{\tt csname txtsty\#1\nedcsname}\}\%}
             386
                       {\newtxtsty{\csname txtsty#1\endcsname}}}}
             387
 \cmdtxtarg ... to do!
                • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                  \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\Name|_{SUB}^{SUP}Ext1(Arg)Ext2|
                  \verb|\txtargNewCmd!{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\txtargNewEmd!{Arg}[Ext1](Arg)Ext2|
             388 \DeclareRobustCommand{\cmdtxtarg}[1]
                  {\csdef{txtarg#1}%
             390
                     {\protect\ifexclavar%
                       {\newtxtargsty!{\csname txtsty#1\endcsname}}%
             391
             392
                       {\newtxtargsty{\csname txtsty#1\endcsname}}}}
\cmdtxtoarg ... to do!
                \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                  \t \sum_{SUB} [Sub] [Sup] [Arg] = NAME_{SUB} (Arg)
```

```
393 \DeclareRobustCommand{\cmdtxtoarg}[1]
                                     394
                                                  {\csdef{txtoarg#1}%
                                     395
                                                         {\protect\ifexclavar%
                                                               {\newtxtoargsty!{\csname txtsty#1\endcsname}}%
                                    396
                                                               {\newtxtoargsty{\csname txtsty#1\endcsname}}}}
                                    397
  \cmdtxtpar ... to do!
                                           • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                \verb|\txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\txtparNewCmd{Name}[sub][sup][ext1]{Par}[ext2] = \verb|\txtparNewCmd{Name}[sub][sub][sub][ext1][ext2] = \verb|\txtparNewCmd{Name}[sub][sub][sub][ext1][ext2][sub][ext2][sub][sub][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][e
                                                398 \DeclareRobustCommand{\cmdtxtpar}[1]
                                                  {\csdef{txtpar#1}%
                                     399
                                                         {\protect\ifexclavar%
                                    400
                                                               {\newtxtparsty!{\csname txtsty#1\endcsname}}%
                                    401
                                                               {\newtxtparsty{\csname txtsty#1\endcsname}}}}
                                    402
\cmdtxtopar ... to do!
                                           • \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                \label{eq:local_local_local_local} $$ \operatorname{Local_{Name}[sub][sup][Par]} = \operatorname{Name_{SUB}^{SUP}[Par]} $$
                                                \txtoparNewCmd!{Name}[sub][sup][Par] = NAME_SUB_[PAR]
                                     403 \DeclareRobustCommand{\cmdtxtopar}[1]
                                                   {\csdef{txtopar#1}%
                                    404
                                                         {\protect\ifexclavar%
                                    405
                                                               {\newtxtoparsty!{\csname txtsty#1\endcsname}}%
                                    406
                                    407
                                                               {\newtxtoparsty{\csname txtsty#1\endcsname}}}}
   \cmdtxtall ... to do!
                                           • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                \mathsf{TXTNewCmd}\{\mathsf{Name}\}[\mathsf{sub}][\mathsf{Sup}][\mathsf{Ext}] = \mathsf{NAME}^{\mathsf{SUP}}_{\mathsf{SUB}}\mathsf{EXT}
                                                \txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_SUP_EXT1(ARG)EXT2
                                                \t Name [sub] [sup] [Arg] = Name_{SUB} (Arg)
                                                \texttt{\txtparNewCmd}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Par}\}[\texttt{Ext2}] = \texttt{Name}^{\texttt{SUP}}_{\texttt{SUB}}\texttt{Ext1}[\texttt{Par}]\texttt{Ext2}
                                                \t \ [sub] [sup] [Par] = Name<sub>SUB</sub> [Par]
                                    408 \DeclareRobustCommand{\cmdtxtall}[1]
                                                 {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
                                    \usrtxt ... to do!
                                           • \usrtxt{cmdName}{Suf}{};
                                                \colonerge{cmdName} = cmdName
                                                \cmdNameSuf* = cmdName*
                                                \usrtxt{cmdName}{Suf}{arg};
                                                \cmdNameSuf{Arg} = cmdName(Arg)
                                                 \colon 
                                                 \usrtxt{cmdName}{Suf}{par};
                                                 \cmdNameSuf{Par} = cmdName[Par]
                                                 \cmdNameSuf!{Par} = cmdName[Par]
                                            \usrtxt{cmdName}{Suf}{}[newName];
                                                 \c MameSuf = newName
                                                \c \mbox{\cmdNameSuf*} = \mbox{\cmdName *}
                                                \usrtxt{cmdName}{Suf}{arg}[newName];
                                                \c MameSuf{Arg} = newName(Arg)
                                                \cmdNameSuf!{Arg} = newName(Arg)
                                                \usrtxt{cmdName}{Suf}{par}[newName];
                                                \cmdNameSuf{Par} = newName[Par]
                                                \c MameSuf!{Par} = newName[Par]
                                    411 \DeclareRobustCommandx{\usrtxt}[4][4=]
                                                  {\csdef{#1#2}%
                                    412
                                                         {\protect\ifexclavar%
                                     413
                                                               {\csname txt#3\endcsname!{\defval{#4}{#1}}}%
                                     414
                                     415
                                                               {\csname txt#3\endcsname{\defval{#4}{#1}}}}
```

```
\newmth ... to do!
                                                                                                                                                                        • \newmth[mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup} Ext"
                                                                                                                                                                         • \newmth[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmth[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmth! [mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmth! [mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmth! [mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                420 \DeclareRobustCommand{\newmth}
                                                                                                                                                                                                    {\ifexclavar{\@snewmth}{\@newmth}}
                                                                                                                                                  422 \DeclareRobustCommandx{\Qnewmth}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                               {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
                                                                                                                                                424 \DeclareRobustCommandx{\@snewmth}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                               {\ensuremath{\csname#1\endcsname #2\mthsubsup{#3}{#4}#5}}
                             \newmthsty ... to do!
                                                                                                                                                                        • \newmthsty{mathrm}{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmthsty{mathrm}[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmthsty{mathrm}[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                         • \newmthsty! {mathrm} {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup} Ext"
                                                                                                                                                                         • \newmthsty! {mathrm} [mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                                                                          \bullet \ \texttt{\  \  } \ \texttt{\  \  \  } \ \texttt{\  \  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  \  } \ \texttt{\  \  \  } \ \texttt{\  \  \  } \ \texttt{\  \  } \ \texttt{\  \  \  \  } \ \texttt{\  \  \  \ } \ \texttt{\  \  \  \ } \ \texttt{\  \  \ } \ \texttt{\  \  \  \ } \ \texttt{\  \  \  \ } \ \texttt{\ 
                                                                                                                                                426 \DeclareRobustCommand{\newmthsty}
                                                                                                                                                                                            {\ifexclavar{\@snewmthsty}{\@newmthsty}}
                                                                                                                                                428 \DeclareRobustCommandx{\@newmthsty}[2][2=]
                                                                                                                                                                                                  {\text{\ensuremath}[\defval{#2}{\#1}]}
                                                                                                                                                  430 \DeclareRobustCommandx{\@snewmthsty}[2][2=]
                                                                                                                                                                                               {\newmth![\defval{#2}{#1}]}
                               \newmtharg ... to do!
                                                                                                                                                                         \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                         \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                432 \DeclareRobustCommand{\newmtharg}
                                                                                                                                                                                            {\ifexclavar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                                  434 \DeclareRobustCommandx{\@newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                            {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
                                                                                                                                                436 \DeclareRobustCommandx{\@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"
                                                                                                                                                                         • \newmthargsty{mathrm}[mathsf]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2" = "Name_{sub}^{sup}Ext1(Arg^{Ex})Ext2" = "Name_{sub}^{sup}Ext1(Arg^{Ex})Ext2" = "Name_{sub}^{sup}Ext1(Arg^{Ex})Ext2" = "Name_{sub}^{sup}Ext1(Arg^{Ex})Ext2" = "Name_{sub}^{sup}Ext1(Arg^{Ex})Ext2" = "Name_{sub}^{
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{
```

```
 \bullet \texttt{ \newmthargsty! \{mathrm\}\{Name\}[sub][sup][Ext1]\{Arg^{\{Ex^{\{Ex\}\}\}}[Ext2]} = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2" \} } \\
```

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

438 \DeclareRobustCommand{\newmthargsty}

- 439 {\ifexclavar{\@snewmthargsty}{\@newmthargsty}}
- 440 \DeclareRobustCommandx{\@newmthargsty}[2][2=]
- 441 {\newmtharg[\defval{#2}{#1}]}
- 442 \DeclareRobustCommandx{\@snewmthargsty}[2][2=]
- 443 {\newmtharg![\defval{#2}{#1}]}

\newmthoarg ... to do!

- \newmthoarg[mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})" = "Name_{sub}^{sub} (Arg^{Ex})" = "Name_{sub}^{
- $\bullet \ \texttt{\name} \ \texttt{\n$
- $\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{\$
- \newmthoarg! [mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
- \newmthoarg! [mathsf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
- $\bullet \ \texttt{\newmthoarg![mathtt]{Name}[sub][sup][Arg^{Ex^{}}{Ex}]} = "\texttt{\normalfoat} (Arg^{Ex^{Ex}})"$

444 \DeclareRobustCommand{\newmthoarg}

- 445 {\ifexclavar{\@snewmthoarg}{\@newmthoarg}}
- 446 \DeclareRobustCommandx{\@newmthoarg}[5][1=, 3=, 4=, 5=]
- 447 {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
- 448 \DeclareRobustCommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=]
- 449 {\newmtharg![#1]{#2}[#3][#4][]{#5}[]}

\newmthoargsty ... to do!

- \newmthoargsty{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
- $\bullet \ \texttt{\name} \ \texttt{\n$
- $\bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \$
- \newmthoargsty! {mathrm} {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
- $\bullet \verb| \newmthoargsty!{mathrm}[mathsf]{Name}[sub][sup][Arg^{Ex^{}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"$
- $\bullet \verb| \newmthoargsty!{mathrm}[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"$

450 \DeclareRobustCommand{\newmthoargsty}

- 451 {\ifexclavar{\@snewmthoargsty}{\@newmthoargsty}}
- 452 \DeclareRobustCommandx{\@newmthoargsty}[2][2=]
- 453 {\newmthoarg[\defval{#2}{#1}]}
- 454 \DeclareRobustCommandx{\@snewmthoargsty}[2][2=]
- 455 {\newmthoarg![\defval{#2}{#1}]}

\newmthpar ... to do!

- $\bullet \mathtt{Name}_{sub}^{sup} \mathtt{[Sub][sup][Ext1]} \mathtt{[Par^{Ex^{Ex}}]} \mathtt{[Ext2]} = \mathtt{``Name}_{sub}^{sup} Ext1 \mathtt{[} Par^{Ex^{Ex}} \mathtt{]} Ext2 \mathtt{''} \mathtt{[} Ext2 \mathtt{''} \mathtt{[} Par^{Ex^{Ex}} \mathtt{[} Par^{E$
- $\bullet \ \texttt{\newmthpar[mathsf]{Name}[sub][sub][Ext1]{Par^{Ex^{Ex}}}} \ [\texttt{Ext2}] = \texttt{``Name}_{sub}^{sup} Ext1 \Big[Par^{Ex^{Ex}} \Big] Ext2 \texttt{''}$
- $\bullet \texttt{ \newmthpar[mathtt] \{Name\}[sub] [sup] [Ext1] \{Par^{\{Ex^{}\}}\} [Ext2] = "Name_{sub}^{sup} Ext1 \Big[Par^{Ex^{Ex}} \Big] Ext2" } \\$
- $\bullet \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{$
- \newmthpar! [mathsf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name $_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2$ "
- $\bullet \texttt{ \newmthpar! [mathtt] \{Name\} [sub] [sup] [Ext1] \{Par^{\{Ex^{\{Ex\}\}}\} [Ext2] = "Name} \\ \underbrace{Ext1[Par^{Ex^{Ex}}]} Ext2" = "Name \\ \underbrace{Ex$

```
456 \DeclareRobustCommand{\newmthpar}
                                                                                                                   457 {\ifexclavar{\Osnewmthpar}{\Onewmthpar}}
                                                                                                                   458 \DeclareRobustCommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                   460 \DeclareRobustCommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                 {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
      \mbox{\ensuremath{\mbox{\sc hewmth}\sc parsty}}\ \dots\ \mbox{\ensuremath{\mbox{\sc to}}}\ \mbox{\ensuremath{\mbox{\sc do!}}}
                                                                                                                                    \bullet \texttt{\newmthparsty\{mathrm\}[mathsf]\{Name\}[sub][sup][Ext1]\{Par^{\{Ex^{\{Ex\}\}}}[Ext2] = \texttt{``Name}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2"] } \\
                                                                                                                                     \bullet \verb| \newmthparsty{mathrm}[mathtt]{Name}[sub][sup][Ext1]{Par^{Ex^{-}}[Ext2]} = "Name_{sub}^{sup}Ext1\Big[Par^{Ex^{-}Ex}\Big]Ext2" + (1-c)^{-1} + (1-c)^
                                                                                                                                       \bullet \mathtt{Name}_{sub}[\mathtt{Sub}][\mathtt{Sup}][\mathtt{Ext1}] \\ \{\mathtt{Par}^{\{\mathtt{Ex}^{\}}\}}[\mathtt{Ext2}] = \mathtt{``Name}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = \mathtt{``Name}_{sub}^{sup}Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{E
                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                    462 \DeclareRobustCommand{\newmthparsty}
                                                                                                                                                         {\ifexclavar{\@snewmthparsty}{\@newmthparsty}}
                                                                                                                   464 \DeclareRobustCommandx{\@newmthparsty}[2][2=]
                                                                                                                                                        {\newmthpar[\defval{#2}{#1}]}
                                                                                                                   466 \DeclareRobustCommandx{\@snewmthparsty}[2][2=]
                                                                                                                                                        {\newmthpar![\defval{#2}{#1}]}
                      \newmthopar ... to do!
                                                                                                                                    • \newmthopar[mathrm]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                     \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \  } \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ }} \ \texttt{\ \ \ } \ \texttt{\ \ \ }
                                                                                                                                    • \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}}]"
                                                                                                                                      • \newmthopar! [mathsf] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name _{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                                                                                                       \bullet \verb| \newmthopar! [mathtt] { Name } [sub] [sup] [Par^{Ex^*}[Ex^*]] = "Name^{\sup}_{sub} [Par^{Ex^{Ex}}]" 
                                                                                                                   468 \DeclareRobustCommand{\newmthopar}
                                                                                                                   469 {\ifexclavar{\@snewmthopar}{\@newmthopar}}
                                                                                                                   470 \DeclareRobustCommandx{\Qnewmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                                    {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                    472 \DeclareRobustCommandx{\@snewmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                                        {\newmthpar![#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                                                                    • \newmthoparsty{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                                                                                                    • \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}}]" = "Name_{sub}^{sup}[Par^{Ex}]" = "Name_{sub}^{sup}[Par^{Ex}]
                                                                                                                                       \bullet \verb| \newmthoparsty!{mathrm}[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name|_{sub}^{sup}[Par^{Ex^{Ex}}]" = "Name|_{sub}^{sup}[Par^{Ex}]" 
                                                                                                                   474 \DeclareRobustCommand{\newmthoparsty}
                                                                                                                                                         {\ifexclavar{\@snewmthoparsty}{\@newmthoparsty}}
                                                                                                                    476 \DeclareRobustCommandx{\@newmthoparsty}[2][2=]
                                                                                                                                                         {\newmthopar[\defval{#2}{#1}]}
                                                                                                                   478 \verb|\DeclareRobustCommandx{\Qsnewmthoparsty}[2][2=]
                                                                                                                                                    {\newmthopar![\defval{#2}{#1}]}
```

```
\mthsubsup \dots to \mathrm{do}!
                                                                  480 \DeclareRobustCommand{\mthsubsup}[2]
                                                                                           {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                                                   \mth ... to do!
                                                                                • \mathbb{E}_{sub}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                 • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                                 • \mathcal{E}_{sub}[Sub][Sup][Ext] = \mathcal{E}_{sub}[Sub][Sup][Ext]
                                                                                 • \mth!{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                 • \mth! [mathbf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                 • \mth! [mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                  483 \DeclareRobustCommand{\mth}
                                                                                           {\ifexclavar{\newmthsty!{\mthsty}}}{\newmthsty{\mthsty}}}
                \mtharg ... to do!
                                                                               • \mtharg[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{}}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2" = "Name_{sub}^{sub} Ext1 (Arg^{Ex}) Ext2" = "Name_{sub}^{sub} Ext1 
                                                                                 \bullet \  \  \, \texttt{`Mame}[Sub][Sub][Ext1] \{ \texttt{Arg}^{} \{ \texttt{Ex}^{} \} \} [\texttt{Ext2}] = "Name_{sub}^{sup} Ext1 (Arg^{Ex}^{Ex}) Ext2" \} = "Name_{sub}^{sup} Ext1 (Arg^{Ex}^{Ex}) Ext2 (Arg^{Ex}^{Ex}) Ext2 (Arg^{Ex}^{Ex}) = "Name_{sub}^{sup} Ext1 (Arg^{Ex}^{Ex}) Ext2 (Arg^{Ex}^{Ex}) = "Name_{sub}^{sup} Ext1 (Arg^{Ex}^{Ex}) Ext2 (Arg^{Ex}^{Ex}^{Ex}) = "Name_{sub}^{sup} Ext2 (Arg^{Ex}^{Ex}) = "Name_{sub}^{sup} Ext2 (Arg^{Ex}^{
                                                                                 \bullet \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ \ } \texttt{ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ } \texttt{ \ \ \ \ \ } \texttt{ \ \ \ \ 
                                                                                 485 \DeclareRobustCommand{\mtharg}
                                                                                         {\ifexclavar{\newmthargsty!{\mthsty}}}{\newmthargsty{\mthsty}}}
          \mthoarg ... to do!
                                                                               • \mthoarg{Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                • \mthoarg[mathbf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                • \mthoarg!{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                 • \mthoarg! [mathbf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                 \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{\  \  \  \  } \\ 
                                                                   487 \DeclareRobustCommand{\mthoarg}
                                                                                               {\c {\tt \c lavar{\tt \c mthsty}}} {\tt \c mthsty}} 
                \mthpar ... to do!
                                                                                \bullet \verb| \mathbb{Sub}[sub][sup][Ext1] \{ Par^{Ex^{Ex}} \} \} [Ext2] = "Name^{sup}_{sub} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2" \} 
                                                                                • \mthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2"
                                                                                 • \mthpar!{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{col}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2" = "Name_{col}^{sup}Ext1[Par^{Ex}]Ext2" = "Name_{col}^{sup}Ext1[Par^{Ex}]Ext2" = "Name_{col}^{sup}Ext2" = "Name_{co
                                                                                 489 \DeclareRobustCommand{\mthpar}
                                                                                           {\ifexclavar{\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{\normalfont{Mame}[sub][sub][Par^{Ex^{}}]} = \texttt{\normalfont{Name}} \left[ Par^{Ex^{Ex}} \right] \texttt{\normalfont{\normalfont{Name}}} \\
                                                        • \mthopar!{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                        • \mthopar! [mathbf] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                        • \mthopar! [mathtt] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name _{sub}^{sup} [Par^{Ex^{Ex}}]"
                                               491 \DeclareRobustCommand{\mthopar}
                                                                  {\ifexclavar{\newmthoparsty!{\mthsty}}}\newmthoparsty{\mthsty}}}
               \mthsty ... to do!
                                              493 \def\mthsty
                                               \cmdmth ... to do!
                                                        • \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                               \mbox{\t Name} [ \mbox{sup} ] [ \mbox{\t Ext} ] = \mbox{\t Name}_{sub}^{sup} Ext ]
                                                               \verb|\mbox| \verb| Mame| | [sub] [sup] [Ext] = \verb|\mbox| ame | sub | sub
                                               496 \DeclareRobustCommand{\cmdmth}[1]
                                               497 {\csdef{mth#1}%
                                                                         {\bf \{\protect\ifexclavar{\newmthsty!\{mthsty\#1\}}\}} \\
                                               498
   \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
                                               499 \DeclareRobustCommand{\cmdmtharg}[1]
                                                                  {\csdef{mtharg#1}%
                                                                          {\protect\ifexclavar{\newmthargsty!{mthsty#1}}}\newmthargsty{mthsty#1}}}
\cmdmthoarg ... to do!
                                                        • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                              \verb|\mbox| \verb|\mbox| | [sup] [Arg^{Ex^{Ex}}] = \verb|\mbox| | [sup] [Arg^{Ex^{Ex}}] = \verb|\mbox| | [sup] | [s
                                                               \verb|\mbox| \verb|\mbox| thoargNewCmd! {\tt Name} [sub] [sup] [\verb|\mbox| arg^{\{Ex^{\{Ex\}}\}}] = \verb|\mbox| arg^{Ex^{Ex}})
                                               502 \DeclareRobustCommand{\cmdmthoarg}[1]
                                               503 {\csdef{mthoarg#1}%
                                                                          {\protect\ifexclavar{\newmthoargsty!{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
                                               504
   \cmdmthpar ... to do!
                                                        • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                               \verb|\mathparNewCmd{Name}[sub][sup][Ext1]{Par^{Ex^{}}}[Ext2] = \verb|\mathparNewCmd{Name}[sub]Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2
                                                              505 \DeclareRobustCommand{\cmdmthpar}[1]
                                                              {\csdef{mthpar#1}%
                                               506
                                                                          {\protect\ifexclavar{\newmthparsty!{mthsty#1}}}\newmthparsty{mthsty#1}}}
                                               507
\cmdmthopar ... to do!
                                                        • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                              \verb|\mbox| \label{eq:lambda} $$ \mathbb{E}^{sup}[Par^{Ex^{Ex}}] = \mathbb{E}^{sup}[Par^{Ex^{Ex}}] $
                                                              \verb|\mbox| \verb|\mbox| ThoparNewCmd! {\tt Name} [sub] [sup] [Par^{\tt Ex^{\tt Ex}}] = \verb|\mbox| ame $^{sup}_{sub} [Par^{Ex^{\tt Ex}}] = |\mbox| ame $^{sup}_{sub} [Par^{\tt Ex^{\tt Ex^{
                                               508 \DeclareRobustCommand{\cmdmthopar}[1]
                                                               {\csdef{mthopar#1}%
                                                                          {\protect\ifexclavar{\newmthoparsty!{mthsty#1}}}{\newmthoparsty{mthsty#1}}}}
                                               510
```

```
• \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                \mathcal{E}_{sub} [sub] [sup] [Ext] = \mathcal{E}_{sub}
                                                                                                                               \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][arg^{*}][ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][arg^{*}][ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][arg^{*}][ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][arg^{*}][ext2][sub][sup][ext1][arg^{*}][ext2][sub][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][su
                                                                                                                                \verb|\mbox| $\operatorname{Sup}(\operatorname{Ext1}) = \operatorname{Name}_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \operatorname{Name}_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex^{Ex}} \Big] = \operatorname{Name}_{sub}^{sup} Ext2 \Big[ Par^{Ex} \Big] = \operatorname{Name}_{sub}^{sup} Ext2 \Big[ Par^{Ex} \Big] = \operatorname{Name}_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] = \operatorname{Name}_{sub}^{sup} Ext2 \Big[ Par^{Ex} \Big] = \operatorname{Name}_{sub}
                                                                                                                               \verb| mthparNewCmd! {Name} [sub] [sup] [Ext1] {Par^{Ex^{-}}{Ex}} [Ext2] = \verb| Name| | sub| | Ext1 [Par^{Ex^{-}}] | Ext2 | E
                                                                                                                               \label{eq:local_matter_exp} $$ \mathbf{Ex^{Ex}} = \mathbf{Name}_{sub}^{sup} \left[ Par^{Ex^{Ex}} \right] = \mathbf{Name}_{sub}^{sup} \left[ Par^{Ex} \right] = \mathbf{Name}_{sub}^{sup} \left[ Par^{E
                                                                                                                               \verb|\mbox| \label{eq:lambda} $$ \mathbb{E}^{sup}[Par^{Ex^{Ex}}] = \mathbb{E}^{sup}[Par^{Ex^{Ex}}] $$
                                                                                                    511 \DeclareRobustCommand{\cmdmthall}[1]
                                                                                                                                  {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
                                         \usrmth ... to do!
                                                                                                                   • \usrmth{cmdName}{Suf}{};
                                                                                                                                \c MameSuf = cmdName
                                                                                                                                 \column{4}{c} 
                                                                                                                                 \usrmth{cmdName}{Suf}{arg};
                                                                                                                                \label{eq:local_cond_name} $$ \operatorname{Arg^{Ex^{Ex}}}$ = cmdName \Big( Arg^{Ex^{Ex}} \Big) $$
                                                                                                                                \label{eq:cmdName} $$\operatorname{Lx}^{Ex}$ = cmdName(Arg^{Ex^{E}})$
                                                                                                                                \usrmth{cmdName}{Suf}{par};
                                                                                                                               \label{eq:cmdName} $$\operatorname{Par}^{Ex^{Ex}}$ = cmdName | Par^{Ex^{Ex}}$
                                                                                                                               \verb|\cmdNameSuf!{Par^{Ex^{Ex}}}| = cmdName[Par^{Ex^{Ex}}]|
                                                                                                                     \usrmth{cmdName}{Suf}{} [newName];
                                                                                                                                \verb|\cmdNameSuf| = newName|
                                                                                                                                 \c NameSuf* = newName*
                                                                                                                                 \usrmth{cmdName}{Suf}{arg}[newName];
                                                                                                                                \label{eq:cmdNameSuf} $$\operatorname{Arg}^{Ex^{Ex}}$$ = newName\left(Arg^{Ex^{Ex}}\right)$
                                                                                                                                \verb|\cmdNameSuf!{Arg^{Ex^{Ex}}}| = newName(Arg^{Ex^{Ex}})
                                                                                                                                \usrmth{cmdName}{Suf}{par}[newName];
                                                                                                                                \label{eq:cmdNameSuf} $$ \operatorname{Ex^{Ex}}$ = newName \left[Par^{Ex^{Ex}}\right] $$
                                                                                                                               \label{eq:cmdNameSuf!} $$\operatorname{Ex^{Ex}}$ = newName[Par^{Ex^{Ex}}]$
                                                                                                   514 \DeclareRobustCommandx{\usrmth}[4][4=]
                                                                                                   515 {\csdef{#1#2}%
                                                                                                   516
                                                                                                                                                    {\protect\ifexclavar%
                                                                                                                                                                 {\csname mth#3\endcsname!{\defval{#4}{#1}}}%
                                                                                                    517
                                                                                                                                                                 {\csname mth#3\endcsname{\defval{#4}{#1}}}}
\usrmthlatlow ... to do!
                                                                                                  520 \DeclareRobustCommandx{\usrmthlatlow}[4][4=]
                                                                                                                                      {\mbox{"1#2}{\#3}[\#4] \seqoflatlow{$\#1$}}
\usrmthlatupp ... to do!
                                                                                                    522 \DeclareRobustCommandx{\usrmthlatupp}[4][4=]
                                                                                                                               {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                                                                                    524 \DeclareRobustCommandx{\usrmthlatlet}[4][4=]
                                                                                                    525 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
```

 \c mdmthall ... to do!

```
\usrmthgrklow ... to do!
               526 \DeclareRobustCommandx{\usrmthgrklow}[4][4=]
               527 \quad \{ \text{\t wsrmth} \{\#1\} \{\#2\} \{\#3\} \, [\#4] \, \text{\t seqofgrklow} \{\#1\#2\} \{ \#3\} \} \}
\usrmthgrkupp ... to do!
               528 \DeclareRobustCommandx{\usrmthgrkupp}[4][4=]
               529 \{ \text{wsrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqofgrkupp \{ \#1 \#2 \} \{ \#3 \} \} \}
\usrmthgrklet ... to do!
               530 \DeclareRobustCommandx{\usrmthgrklet}[4][4=]
               531 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
   \usrmthlow ... to do!
               532 \DeclareRobustCommandx{\usrmthlow}[4][4=]
               533 \qquad \{\usrmth{\#1}{\#2}{\#3}[\#4] \seqoflow{\#1\#2}{mth\#3}\}
   \usrmthupp ... to do!
               534 \DeclareRobustCommandx{\usrmthupp}[4][4=]
               535 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
    \usrmthlet ... to do!
               536 \DeclareRobustCommandx{\usrmthlet}[4][4=]
               537 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
               542 \iftxtgen@
      \txtdef ... to do!
   \txtargdef
                  ullet \txtdef{Name}[sub][sup][Ext] = Name^{sup}_{sub}Ext
   \txtpardef
                  ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                  • \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
               543 %% Style for Definitions
               544 \cmdtxtall{def}
               545 \end{\text{\command}} \hbfseries\end{\text{\command}} \hbfseries\end{\text{\command}} \hbfseries\end{\command}
   \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
               546 \DeclareRobustCommandx{\cmdtxtdef}[2][2=]
               547 {\usrtxt{#1}{}{def}[#2]}
\cmdtxtargdef ... to do!
                  \cmdtxtargdef{cmdName};
                   \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
               548 \DeclareRobustCommandx{\cmdtxtargdef}[2][2=]
               549 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                  • \cmdtxtoargdef{cmdName};
                   \verb|\cmdName[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                  \cmdtxtoargdef{cmdName}[newName];
                   \verb|\cmdName[sub][sub][arg]| = newName_{sub}^{sub}(arg)
```

```
550 \DeclareRobustCommandx{\cmdtxtoargdef}[2][2=]
                                                                {\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
                                                    552 \DeclareRobustCommandx{\cmdtxtpardef}[2][2=]
                                                                {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                                                           • \cmdtxtopardef{cmdName};
                                                                 \colon = cmdName[sub][sub][par] = cmdName[sub][par]
                                                            \cmdtxtopardef{cmdName}[newName];
                                                                 \colon = newName[sub][sub][par] = newName[sub][par]
                                                    554 \DeclareRobustCommandx{\cmdtxtopardef}[2][2=]
                                                   555 {\usrtxt{#1}{}{opardef}[#2]}
                      \txtabr ... to do!
             \txtargabr
                                                           ullet \txtabr{Name}[sub][sup][Ext] = Name_{
m sub}^{
m sup}Ext
             \txtparabr
                                                            \bullet \ \texttt{\txtargabr{Name}[sub][sup][Ext1]{Arg}[Ext2]} = Name^{\sup}_{\sup} Ext1(Arg) Ext2 
                                                            \bullet \ \texttt{\txtparabr{Name}[sub][sup][Ext1]{Par}[Ext2]} = Name^{\sup}_{\sup} Ext1[Par]Ext2
                                                   556 \%\% Style for Abbreviations
                                                   557 \cmdtxtall{abr}
                                                   558 \DeclareRobustCommand{\txtstyabr}{\em}
             \cmdtxtabr ... to do!
                                                           • \cmdtxtabr{cmdName};
                                                                 \colon colon col
                                                           • \cmdtxtabr{cmdName} [newName];
                                                                 \colon colon col
                                                    559 \DeclareRobustCommandx{\cmdtxtabr}[2][2=]
                                                   560 {\usrtxt{#1}{}{abr}[#2]}
   \cmdtxtargabr ... to do!
                                                           • \cmdtxtargabr{cmdName};
                                                                 \cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                            • \cmdtxtargabr{cmdName}[newName];
                                                                 \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                                                    561 \DeclareRobustCommandx{\cmdtxtargabr}[2][2=]
                                                                {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                                                           • \cmdtxtoargabr{cmdName};
                                                                 \colon dName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                           • \cmdtxtoargabr{cmdName}[newName];
                                                                 \verb|\cmdName[sub][sub][arg]| = newName_{\rm sub}^{\rm sub}(arg)
                                                    563 \DeclareRobustCommandx{\cmdtxtoargabr}[2][2=]
                                                   564 {\usrtxt{#1}{}{oargabr}[#2]}
   \cmdtxtparabr ... to do!
                                                           • \cmdtxtparabr{cmdName};
                                                                 \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                                            • \cmdtxtparabr{cmdName}[newName];
                                                                 \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1[par]ext2|
```

```
565 \DeclareRobustCommandx{\cmdtxtparabr}[2][2=]
                                                                     {\usrtxt{#1}{}{parabr}[#2]}
   \cmdtxtoparabr ... to do!
                                                                \cmdtxtoparabr{cmdName};
                                                                     \verb|\cmdName[sub][sub][par]| = cmdName_{\rm sub}^{\rm sub}/par|
                                                                \cmdtxtoparabr{cmdName}[newName];
                                                                     \verb|\cmdName[sub][sub][par]| = newName_{\rm sub}^{\rm sub}/par|
                                                       567 \DeclareRobustCommandx{\cmdtxtoparabr}[2][2=]
                                                                   {\usrtxt{#1}{}{oparabr}[#2]}
                                                       \txtname ... to do!
             \txtargname
                                                                \bullet \ \texttt{\txtname{Name}[sub][sup][Ext]} = Name^{SUP}_{SUB}EXT 
             \txtparname
                                                               • \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}
                                                        570 %% Style for Names
                                                        571 \cmdtxtall{name}
                                                       572 \DeclareRobustCommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
             \cmdtxtname ... to do!
                                                               • \cmdtxtname{cmdName};
                                                                     \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
                                                                • \cmdtxtname{cmdName}[newName];
                                                                     573 \DeclareRobustCommandx{\cmdtxtname}[2][2=]
                                                                    {\usrtxt{#1}{}{name}[#2]}
   \cmdtxtargname ... to do!
                                                               • \cmdtxtargname{cmdName};
                                                                     \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
                                                                • \cmdtxtargname{cmdName}[newName];
                                                                     \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][ext1][ext2][ext2] = \verb|\newName[sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][
                                                       575 \DeclareRobustCommandx{\cmdtxtargname}[2][2=]
                                                       576 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                               • \cmdtxtoargname{cmdName};
                                                                     \colon 
                                                               • \cmdtxtoargname{cmdName}[newName];
                                                                     \verb|\cmdName[sub][sub][arg]| = NEWNAME_{SUB}^{SUB}(ARG)
                                                        577 \DeclareRobustCommandx{\cmdtxtoargname}[2][2=]
                                                                   {\usrtxt{#1}{}{oargname}[#2]}
   \cmdtxtparname ... to do!
                                                               • \cmdtxtparname{cmdName};
                                                                      \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2
                                                                • \cmdtxtparname{cmdName}[newName];
                                                                      \label{lem:lemman} $$ \operatorname{Sub}[\operatorname{sub}][\operatorname{ext1}]_{\operatorname{par}}[\operatorname{ext2}] = \operatorname{NEWNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}] \operatorname{EXT2} $$
                                                       579 \DeclareRobustCommandx{\cmdtxtparname}[2][2=]
                                                                     {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                                               • \cmdtxtoparname{cmdName};
                                                                     \label{eq:cmdName} $$ \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR] $$
                                                                \cmdtxtoparname{cmdName}[newName];
                                                                     \verb|\cmdName[sub][sub][par]| = \verb|\NEWNAME_{SUB}^{SUB}[PAR]|
```

```
581 \DeclareRobustCommandx{\cmdtxtoparname}[2][2=]
                             582 {\usrtxt{#1}{}{oparname}[#2]}
             \txtcom ... to do!
       \txtargcom
                                 • \txtcom{Name}[sub][sup][Ext] = NAME_SUBEXT
       \txtparcom
                                 • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                  • \txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_{SUB}^{SUP}EXT1[PAR]EXT2
                             583 %% Style for Complexities
                             584 \cmdtxtall{com}
                             585 \DeclareRobustCommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
       \cmdtxtcom ... to do!
                                 • \cmdtxtcom{cmdName};
                                    • \cmdtxtcom{cmdName} [newName];
                                    \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]|
                             586 \DeclareRobustCommandx{\cmdtxtcom}[2][2=]
                             587 {\usrtxt{#1}{}{com}[#2]}
 \cmdtxtargcom ... to do!
                                 • \cmdtxtargcom{cmdName};
                                    \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2][ext2] = \verb|\cmdName[sub][ext1][ext2][ext2][ext2][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]
                                  • \cmdtxtargcom{cmdName} [newName];
                                    \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                             588 \DeclareRobustCommandx{\cmdtxtargcom}[2][2=]
                             589 {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                  \cmdtxtoargcom{cmdName};
                                    \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                                 • \cmdtxtoargcom{cmdName}[newName];
                                     \colon = NEWNAME_{SUB}^{SUB}(ARG)
                             590 \DeclareRobustCommandx{\cmdtxtoargcom}[2][2=]
                             591 {\usrtxt{#1}{}{oargcom}[#2]}
 \cmdtxtparcom ... to do!
                                 • \cmdtxtparcom{cmdName}:
                                    \cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2
                                  • \cmdtxtparcom{cmdName} [newName];
                                    \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub][sub][ext1][PAR]EXT2|
                             592 \DeclareRobustCommandx{\cmdtxtparcom}[2][2=]
                                    {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                 • \cmdtxtoparcom{cmdName};
                                    \colon = CMDNAME_{SUB}^{SUB}[PAR]
                                 • \cmdtxtoparcom{cmdName}[newName];
                                    \colon = NEWNAME_{SUB}^{SUB}[PAR]
                             594 \DeclareRobustCommandx{\cmdtxtoparcom}[2][2=]
                                     {\usrtxt{#1}{}{oparcom}[#2]}
                             596 \fi
                             601 \ifmthgen@
```

```
\mthname ... to do!
    \mthargname
                     • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
    \mthparname
                     • \mthargname{\name}[\sub][\sup][\ext1]{\arg^{\infty}}[\ext2] = \mathcal{N} A \mathcal{M} \mathcal{E}^{\sup}_{\sub} E x t 1 \Big( A r g^{Ex^{Ex}} \Big) E x t 2
                      • \mthargname! {NAME} [sub] [sup] [Ext1] {Arg^{Ex^{}}} [Ext2] = \mathcal{NAME}^{sup}_{sub} Ext1(Arg^{Ex^{Ex}}) Ext2
                     • \mthparname! {NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2
                   602 %% Style for Names
                   603 \cmdmthall{name}
                   604 \DeclareRobustCommand{\mthstyname}{\mathcal}
          \AName ... to do!
             \ldots 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
                   605 \seqoflatupp{Name}{mthname}
    \cmdmthname ... to do!
                     • \cmdmthname{CMDNAME};
                        \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                     • \cmdmthname{cmdName}[NEWNAME];
                        \cmdNameName[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                   606 \DeclareRobustCommandx{\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];
                       \cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                   608 \DeclareRobustCommandx{\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)
                   610 \DeclareRobustCommandx{\cmdmthoargname}[2][2=]
                       {\usrmth{#1}{Name}{oargname}[#2]}
 \cmdmthparname ... to do!
                      \cmdmthparname{CMDNAME};
                       \verb|\CMDNAMEName[sub][sub][ext1]{par}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1[par]ext2
                      • \cmdmthparname{cmdName}[NEWNAME];
                       \cmdNameName[sub][sub][ext1]{par}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                   612 \DeclareRobustCommandx{\cmdmthparname}[2][2=]
                  613 {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                      • \cmdmthoparname{CMDNAME};
                       \CMDNAMEName[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                     • \cmdmthoparname{cmdName}[NEWNAME];
                       \cmdNameName[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                   614 \DeclareRobustCommandx{\cmdmthoparname}[2][2=]
                   615 {\usrmth{#1}{Name}{oparname}[#2]}
         \mthfam ... to do!
     \mthargfam
```

\mthparfam

```
• \mthargfam{NAME} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = \mathcal{N}\mathcal{A}\mathcal{M}\mathcal{E}_{sub}^{sup} Ext1 \Big(Arg^{Ex^{Ex}}\Big) Ext2
                         • \mthargfam! {NAME} [sub] [sup] [Ext1] {Arg^{Ex^{}}} [Ext2] = \mathcal{NAME}_{sub}^{sup} Ext1(Arg^{Ex^{Ex}}) Ext2
                        \bullet \  \  \, \texttt{ \mthparfam! \{NAME\}[sub][sup][Ext1] \{Par^{\{Ex^{\{Ex\}\}}\}[Ext2]} = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2]} = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                     616 %% Style for Families
                     617 \cmdmthall{fam}
                     618 \DeclareRobustCommand{\mthstyfam}{\mathscr}
            \AFam ... to do!
               \dots \, \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}
                     619 \seqoflatupp{Fam}{mthfam}
     \cmdmthfam ... to do!
                         \cmdmthfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext]
                        • \cmdmthfam{cmdName}[NEWNAME];
                           \cmdNameFam[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                     620 \DeclareRobustCommandx{\cmdmthfam}[2][2=]
                     621 {\usrmth{#1}{Fam}{fam}[#2]}
 \cmdmthargfam ... to do!
                        • \cmdmthargfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1]{arg}[ext2]
                         • \cmdmthargfam{cmdName}[NEWNAME];
                           \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1(arg)ext2
                     622 \DeclareRobustCommandx{\cmdmthargfam}[2][2=]
                     623 {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                         \cmdmthoargfam{CMDNAME};
                           \verb|\CMDNAMEFam[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][sub][arg]|
                         \cmdmthoargfam{cmdFam}[NEWNAME];
                           \verb|\cmdFamFam[sub][sub][arg]| = \mathscr{NEWNAME}^{sub}_{sub}(arg)
                     624 \DeclareRobustCommandx{\cmdmthoargfam}[2][2=]
                     625 {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                        \cmdmthparfam{CMDNAME};
                           \verb|\CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par][ext2]
                         • \cmdmthparfam{cmdName}[NEWNAME];
                           \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1[par]ext2
                     626 \DeclareRobustCommandx{\cmdmthparfam}[2][2=]
                          {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                         \cmdmthoparfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                         \cmdmthoparfam{cmdFam}[NEWNAME];
                           \verb|\cmdFamFam[sub][sub][par]| = \mathscr{NEWNAME}_{sub}^{sub}[par]
                     628 \DeclareRobustCommandx{\cmdmthoparfam}[2][2=]
                     629 {\usrmth{#1}{Fam}{oparfam}[#2]}
         \mthcls ... to do!
     \mthargcls
                        • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
     \mthparcls
```

```
• \mthargcls{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = NAME_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                  \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \  } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{
                                                  • \mthparcls{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                  • \mthparcls! {NAME} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = \mathcal{NAME}^{sup}_{coll} Ext1[Par^{Ex^{Ex}}] Ext2
                                           630 %% Style for Classes
                                           631 \cmdmthall{cls}
                                           632 \DeclareRobustCommand{\mthstycls}{\matheus}
                        \ACls ... to do!
                              \dots A, B, C, D, E, F, G, H, J, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                           633 \seqoflatupp{Cls}{mthcls}
          \cmdmthcls ... to do!
                                                  \cmdmthcls{CMDNAME};
                                                      \verb|\CMDNAMECls[sub][sub][ext]| = \verb|\CMDNAME| sub| ext|
                                                  • \cmdmthcls{cmdName}[NEWNAME];
                                                      \cmdNameCls[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                                           634 \DeclareRobustCommandx{\cmdmthcls}[2][2=]
                                           635 {\usrmth{#1}{Cls}{cls}[#2]}
  \cmdmthargcls ... to do!
                                                  • \cmdmthargcls{CMDNAME};
                                                       \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \mathbb{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                                                  • \cmdmthargcls{cmdName}[NEWNAME]:
                                                      \cmdNameCls[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                           636 \DeclareRobustCommandx{\cmdmthargcls}[2][2=]
                                                      {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                                  • \cmdmthoargcls{CMDNAME};
                                                      \CMDNAMECls[sub][sub] [arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                  • \cmdmthoargcls{cmdCls}[NEWNAME];
                                                      \cmdClsCls[sub] [sub] [arg] = NEWNAME_{sub}^{sub}(arg)
                                           638 \DeclareRobustCommandx{\cmdmthoargcls}[2][2=]
                                                      {\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|
                                           640 \DeclareRobustCommandx{\cmdmthparcls}[2][2=]
                                           641 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                  • \cmdmthoparcls{CMDNAME};
                                                      \CMDNAMECls[sub][sub][par] = \text{CMDNAME}_{sub}^{sub}[par]
                                                  • \cmdmthoparcls{cmdCls}[NEWNAME];
                                                      \verb|\cmdClsCls[sub][par]| = \verb|NEWNAME|_{sub}^{sub}[par]|
                                           642 \DeclareRobustCommandx{\cmdmthoparcls}[2][2=]
                                           643 {\usrmth{#1}{Cls}{oparcls}[#2]}
                   \mthsig ... to do!
           \mthargsig
                                                  • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}_{ame_{sub}}^{sup}Ext
           \mthparsig
                                                  • \mthargsig{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
```

```
• \mthargsig! {Name} [sub] [sup] [Ext1] {Arg^{Ex^{}}} [Ext2] = \Re me_{sub}^{sup} Ext1(Arg^{Ex^{Ex}}) Ext2
                                                              • \mthparsig{Name}[sub][sup][Ext1]{Par^{Ex^{-}}{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{-}}]Ext2
                                                              • \mthparsig! {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                                     644 %% Style for Signatures
                                                      645 \cmdmthall{sig}
                                                     646 \DeclareRobustCommand{\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
                                                     647 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
             \cmdmthsig ... to do!
                                                             • \cmdmthsig{cmdName};
                                                                   \cmdNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                              • \cmdmthsig{cmdName}[NewName];
                                                                   \colon d NameSig[sub][sub][ext] = \colon e \colon d \colon e \colon
                                                     648 \DeclareRobustCommandx{\cmdmthsig}[2][2=]
                                                                    {\usrmth{#1}{Sig}{sig}[#2]}
   \cmdmthargsig ... to do!
                                                             • \cmdmthargsig{cmdName};
                                                                   \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub}ext1(arg)ext2
                                                              • \cmdmthargsig{cmdName}[NewName];
                                                                   \cmdNameSig[sub][sub][ext1]{arg}[ext2] = \c NewName sub ext1(arg)ext2
                                                      650 \DeclareRobustCommandx{\cmdmthargsig}[2][2=]
                                                                   {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                             • \cmdmthoargsig{cmdName};
                                                                   \colon = cmdNameSig[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                              \cmdmthoargsig{cmdSig}[NewName];
                                                                   \verb|\cmdSigSig[sub][sub][arg]| = \textit{NewName}^{sub}_{sub}(arg)
                                                     652 \DeclareRobustCommandx{\cmdmthoargsig}[2][2=]
                                                                   {\usrmth{#1}{Sig}{oargsig}[#2]}
   \cmdmthparsig ... to do!
                                                             • \cmdmthparsig{cmdName};
                                                                   \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = cmd Name_{sub}^{sub} ext1[par] ext2
                                                              • \cmdmthparsig{cmdName}[NewName];
                                                                   \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{NewName}_{sub}^{sub}ext1[par]ext2
                                                     654 \DeclareRobustCommandx{\cmdmthparsig}[2][2=]
                                                     655 {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                              \cmdmthoparsig{cmdName};
                                                                   \verb|\cmdNameSig[sub][sub][par]| = \textit{cmdName}_{sub}^{sub}[par]|
                                                              • \cmdmthoparsig{cmdSig}[NewName];
                                                                   \verb|\cmdSigSig[sub][sub][par]| = \textit{NewName}^{sub}_{sub}[par]|
                                                      656 \DeclareRobustCommandx{\cmdmthoparsig}[2][2=]
                                                     657 {\usrmth{#1}{Sig}{oparsig}[#2]}
                       \mthstr ... to do!
              \mthargstr
                                                             ullet \mthstr{Name}[sub][sup][Ext] = \mathfrak{Name}_{sub}^{sup}Ext
              \mthparstr
                                                             \bullet \ \texttt{\ \ } [\texttt{Ext1}] \ \{\texttt{Arg}^{\texttt{\ }} \{\texttt{Ex}^{\texttt{\ }}\}\} \ [\texttt{Ext2}] \ = \ \mathfrak{Name}^{sup}_{sub} Ext1 \Big(Arg^{Ex^{Ex}}\Big) Ext2 \\ = \ \mathfrak{Name}^{sup}_{sub} Ext2 \\ = \ \mathfrak{Name}^{sub}_{sub} Ext2 \\
```

```
• \mthargstr!{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = \mathfrak{Name}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                         \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ \ 
                                                                          \bullet \  \  \, \texttt{ \mthparstr! \{Name\}[sub][sup][Ext1]\{Par^{\{Ex^{}\}}\}[Ext2]} = \mathfrak{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2]
                                                                658 %% Style for Structures
                                                                659 \cmdmthall{str}
                                                                660 \DeclareRobustCommand{\mthstystr}{\mathfrak}
                                             ... \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}, \mathfrak{g}
                                                            \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{I}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{D}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{G}, \mathfrak{T}, \mathfrak{U}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}
                                                            \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                               661 \seqoflatlet{Str}{mthstr}\seqofgrklow{Str}{mthstr}
                \cmdmthstr ... to do!
                                                                         • \cmdmthstr{cmdName};
                                                                                \cmdNameStr[sub][sub][ext] = cmdMame_{sub}^{sub}ext
                                                                          • \cmdmthstr{cmdName}[NewName];
                                                                                \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{NewName}_{sub}^{sub} ext|
                                                                662 \DeclareRobustCommandx{\cmdmthstr}[2][2=]
                                                                               {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                                         • \cmdmthargstr{cmdName};
                                                                                \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                          • \cmdmthargstr{cmdName}[NewName];
                                                                                \cmdNameStr[sub] [sub] [ext1] {arg} [ext2] = \mathfrak{NewName}_{sub}^{sub} ext1(arg) ext2
                                                                664 \DeclareRobustCommandx{\cmdmthargstr}[2][2=]
                                                                               {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                         • \cmdmthoargstr{cmdName};
                                                                                \colon dNameStr[sub][sub][arg] = cmd Mame_{sub}^{sub}(arg)
                                                                          • \cmdmthoargstr{cmdStr}[NewName];
                                                                                \verb|\cmdStrStr[sub][sub][arg]| = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                                666 \DeclareRobustCommandx{\cmdmthoargstr}[2][2=]
                                                                                {\usrmth{#1}{Str}{oargstr}[#2]}
   \cmdmthparstr ... to do!
                                                                         • \cmdmthparstr{cmdName};
                                                                                \verb|\cmdNameStr[sub][sub][ext1][par][ext2] = cmd \mathfrak{Name}_{sub}^{sub} ext1[par]ext2
                                                                          • \cmdmthparstr{cmdName} [NewName];
                                                                                \verb|\cmdNameStr[sub][sub][ext1][par][ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                                668 \DeclareRobustCommandx{\cmdmthparstr}[2][2=]
                                                                               {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                          \cmdmthoparstr{cmdName};
                                                                                \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]|
                                                                          • \cmdmthoparstr{cmdStr}[NewName];
                                                                                \c Manuel Manu
                                                                670 \DeclareRobustCommandx{\cmdmthoparstr}[2][2=]
                                                               671 {\usrmth{#1}{Str}{oparstr}[#2]}
                             \mthset ... to do!
                 \mthargset
                                                                         • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                \mthparset
                                                                         • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
```

```
• \mthargset!{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                    672 %% Style for Sets
                  673 \cmdmthall{set}
                  674 \DeclareRobustCommand{\mthstyset}{\mathrm}
    \mthargset 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
    \mthparset 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
                  675 \seqoflet{Set}{mthset}
    \cmdmthset ... to do!
                    • \cmdmthset{cmdName};
                       \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                     • \cmdmthset{cmdName}[NewName];
                       \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                  676 \DeclareRobustCommandx{\cmdmthset}[2][2=]
                  677 {\usrmth{#1}{Set}{set}[#2]}
 \cmdmthargset ... to do!
                    • \cmdmthargset{cmdName};
                       \cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                     • \cmdmthargset{cmdName}[NewName];
                       \colon = NewName (sub) [sub] [ext1] {arg} [ext2] = NewName (sub) ext1 (arg) ext2
                  678 \DeclareRobustCommandx{\cmdmthargset}[2][2=]
                       {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                    • \cmdmthoargset{cmdName};
                       \colon = cmdNameSet[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                    • \cmdmthoargset{cmdSet}[NewName];
                       \verb|\cmdSetSet[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                  680 \DeclareRobustCommandx{\cmdmthoargset}[2][2=]
                       {\usrmth{#1}{Set}{oargset}[#2]}
 \cmdmthparset ... to do!
                    • \cmdmthparset{cmdName};
                       \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                     • \cmdmthparset{cmdName}[NewName];
                       \colon = NewName_{sub}^{sub}[sub][ext1][par][ext2] = NewName_{sub}^{sub}ext1[par]ext2
                  682 \DeclareRobustCommandx{\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];
                       \verb|\cmdSetSet[sub][par]| = NewName_{sub}^{sub}[par]|
                  684 \DeclareRobustCommandx{\cmdmthoparset}[2][2=]
                      {\usrmth{#1}{Set}{oparset}[#2]}
```

```
\cmdmthsetext ... to do!
                      686 \DeclareRobustCommandx{\cmdmthsetext}[3][2=, 3=]
                      687 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                           \usrmthlet{\thestring}{Sym}{sym}
                      688
                                [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}}]%
                      689
                             \usrmthlet{\thestring}{Elm}{elm}
                      690
                                [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}}
                      691
          \mthrel ... to do!
     \mthargrel
                         • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
     \mthparrel
                         • \mthargrel{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                         \bullet \  \  \, \texttt{\bargrel!{Name}[sub][sub][Ext1]{Arg^{Ex^{*}}[Ext2]}} = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                          \bullet \ \texttt{\normalfine}[sub][sup][Ext1] \{ Par^{Ex^{f}} \} \} [Ext2] = Name_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 
                         • \mthparrel!{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                      692 %% Style for Relations
                      693 \cmdmthall{rel}
                      694 \DeclareRobustCommand{\mthstyrel}{\mathit}
            \aRel ... to do!
               \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                     A,\ B,\ \Gamma,\ \Delta,\ E,\ E,\ Z,\ H,\ \Theta,\ \Theta,\ I,\ K,\ K,\ \Lambda,\ M,\ N,\ \Xi,\ O,\ \Pi,\ \Pi,\ P,\ P,\ \Sigma,\ \Sigma,\ T,\ \varUpsilon,\ \varPhi,\ \varPhi,\ X,\ \Psi,\ \Omega
                      695 \seqoflet{Rel}{mthrel}
     \cmdmthrel ... to do!
                         • \cmdmthrel{cmdName};
                            \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                         • \cmdmthrel{cmdName}[NewName];
                            \verb|\cmdNameRel[sub][sub][ext]| = NewName_{sub}^{sub}ext
                      696 \DeclareRobustCommandx{\cmdmthrel}[2][2=]
                      697 {\usrmth{#1}{Rel}{rel}[#2]}
 \cmdmthargrel ... to do!
                         • \cmdmthargrel{cmdName};
                            \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargrel{cmdName}[NewName];
                            \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      698 \DeclareRobustCommandx{\cmdmthargrel}[2][2=]
                      699 {\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)
                      700 \DeclareRobustCommandx{\cmdmthoargrel}[2][2=]
                      701 {\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];
                            \colon dNameRel[sub][sub][ext1][par][ext2] = NewName_{sub}^{sub}ext1[par]ext2
                      702 \DeclareRobustCommandx{\cmdmthparrel}[2][2=]
                      703 {\usrmth{#1}{Rel}{parrel}[#2]}
```

```
\cmdmthoparrel ... to do!
                                                                                         • \cmdmthoparrel{cmdName};
                                                                                                  \cmdNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                        • \cmdmthoparrel{cmdRel}[NewName];
                                                                                                  \colon condRelRel[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                              704 \DeclareRobustCommandx{\cmdmthoparrel}[2][2=]
                                                                             705 {\usrmth{#1}{Rel}{oparrel}[#2]}
                                   \mthfun ... to do!
                    \mthargfun
                                                                                        • \mthfun{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                    \mthparfun
                                                                                        \bullet \  \, \texttt{\continuous} \ 
                                                                                         \bullet \  \  \, \texttt{\bar{Lxt1}[Sup][Ext1][Arg^{Ex^{-}}]} \  \  \, \texttt{\bar{Ext2}} \  \, = \  \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}(Arg^{Ex^{Ex}})} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Ext1}(Arg^{Ex^{Ex}})} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Ext2}(Arg^{Ex^{Ex}})} \  \, \texttt{\bar{Ext2}(Arg^
                                                                                        \bullet \  \  \, \texttt{Name} \  \  \, \texttt{[sub] [sup] [Ext1] \{Par^{\{Ex^{\{Ex\}}\}}\}[Ext2]} \  \, = \  \  \, \texttt{Name} \  \  \, \\ \text{$sub$ $Ext1$} \  \, \left[Par^{Ex^{Ex}}\right]Ext2] \  \, = \  \  \, \\ \text{$sub$ $ext2$} \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \right] \  \, \\ \text{$ext2$} \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \\ \text{$ext2$} \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \right] \  \, \\ \text{$ext2$} \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \right] \  \, \\ \text{$ext2$} \  \, \left[Par^{Ex^{Ex}}\right]Ext2 \  \, \left[Par^{Ex}\right]Ext2 \  \, \left[Par^
                                                                                        706 %% Style for Functions
                                                                              707 \cmdmthall{fun}
                                                                              708 \DeclareRobustCommand{\mthstyfun}{\mathsf}
                                           \aFun ... to do!
                                                      \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                         A,\,B,\,C,\,D,\,E,\,F,\,G,\,H,\,I,\,J,\,K,\,L,\,M,\,N,\,O,\,P,\,Q,\,R,\,S,\,T,\,U,\,V,\,W,\,X,\,Y,\,Z
                                                                         \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                                         A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                             709 \seqoflet{Fun}{mthfun}
                   \cmdmthfun ... to do!
                                                                                        • \cmdmthfun{cmdName};
                                                                                                 \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                                                                                         • \cmdmthfun{cmdName}[NewName];
                                                                                                 \cmbox{\cmdNameFun[sub][sub][ext]} = \cmbox{\cmdNameFun[sub]} = \cmbox{\cmdNameFun[sub]}
                                                                              710 \DeclareRobustCommandx{\cmdmthfun}[2][2=]
                                                                                              {\usrmth{#1}{Fun}{fun}[#2]}
    \cmdmthargfun ... to do!
                                                                                        • \cmdmthargfun{cmdName};
                                                                                                 \cmdNameFun[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arq)ext2
                                                                                        • \cmdmthargfun{cmdName}[NewName];
                                                                                                  \verb|\cmdNameFun[sub][sub][ext1]{arg}[ext2] = \verb|\NewName|^{sub}_{sub}ext1(arg)ext2
                                                                             712 \DeclareRobustCommandx{\cmdmthargfun}[2][2=]
                                                                             713 {\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)
                                                                             714 \DeclareRobustCommandx{\cmdmthoargfun}[2][2=]
                                                                             715 {\usrmth{#1}{Fun}{oargfun}[#2]}
    \cmdmthparfun ... to do!
                                                                                        • \cmdmthparfun{cmdName};
                                                                                                 \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName$| sub| ext1[par]ext2|
                                                                                         • \cmdmthparfun{cmdName} [NewName];
                                                                                                 \cmdNameFun[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                              716 \DeclareRobustCommandx{\cmdmthparfun}[2][2=]
                                                                              717 {\usrmth{#1}{Fun}{parfun}[#2]}
```

```
\cmdmthoparfun ... to do!
                                                                                               \cmdmthoparfun{cmdName};
                                                                                                        \verb|\cmdNameFun[sub][sub][par]| = \verb|\cmdNameSub|[par]|
                                                                                              • \cmdmthoparfun{cmdFun}[NewName];
                                                                                                        \cmbox{cmdFunFun[sub][sub][par]} = NewName_{sub}^{sub}[par]
                                                                                   718 \DeclareRobustCommandx{\cmdmthoparfun}[2][2=]
                                                                                  719 {\usrmth{#1}{Fun}{oparfun}[#2]}
                                     \mthsym ... to do!
                     \mthargsym
                                                                                              \bullet \ \texttt{\baselinestym}[\texttt{Sup}] \ [\texttt{Ext}] \ = \ \texttt{Name}^{sup}_{sub} Ext
                     \mthparsym
                                                                                               • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                               \bullet \  \  \, \texttt{\bare}[Sub][Sub][Ext1] \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \ \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \ \, \\ \  \ \, \\ \  \ \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \\ \  \  \, \, \\ \  \  \, \\ \  \  \, \, \\ \ \ \, \, \\ \ \ \, \, \\ \ \, \, \\ \  \ \, \, \\ \  \ \, \, \\ \  \, \, \\ \  \  \, 
                                                                                               \bullet \  \  \, \texttt{\bare}[Sub][Sub][Ext1] \  \, \{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \  \, = \  \, \texttt{\bare}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] \  \, = \  \, \texttt{\bare}^{sub}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2 \  \, = \  \, \texttt{\bare}^{sub}_{sub}Ext2[Par^{Ex^{Ex}}]Ext2 \  \, = \  \, \texttt{\bare}^{sub}_{sub}Ext2[Par^{Ex^{Ex}}]Ext2 \  \, = \  \, \texttt{\bare}^{sub}_{sub}Ext2[Par^{Ex^{Ex}}]Ext2 \  \, = \  \, \texttt{\bare}^{sub}_{sub}Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{E
                                                                                   720 %% Style for Symbols
                                                                                   721 \cmdmthall{sym}
                                                                                   722 \DeclareRobustCommand{\mthstysym}{\mathtt}
                                              \aSym ... to do!
                                                          ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                              A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                              \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{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
                                                                                 723 \seqoflet{Sym}{mthsym}
                    \cmdmthsym ... to do!
                                                                                              • \cmdmthsym{cmdName};
                                                                                                        \colon colon col
                                                                                               • \cmdmthsym{cmdName}[NewName];
                                                                                                        \colon colon col
                                                                                   724 \DeclareRobustCommandx{\cmdmthsym}[2][2=]
                                                                                                        {\usrmth{#1}{Sym}{sym}[#2]}
    \cmdmthargsym ... to do!
                                                                                              • \cmdmthargsym{cmdName};
                                                                                                        \cmdNameSym[sub][sub][ext1]{arg}[ext2] = cmdName<math>_{sub}^{sub}ext1(arq)ext2
                                                                                              • \cmdmthargsym{cmdName}[NewName];
                                                                                                        \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arq)ext2
                                                                                  726 \DeclareRobustCommandx{\cmdmthargsym}[2][2=]
                                                                                                        {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                                              \cmdmthoargsym{cmdName};
                                                                                                        • \cmdmthoargsym{cmdSym}[NewName];
                                                                                                        \c mdSymSym[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                                                  728 \DeclareRobustCommandx{\cmdmthoargsym}[2][2=]
                                                                                                      {\usrmth{#1}{Sym}{oargsym}[#2]}
    \cmdmthparsym ... to do!
                                                                                               \cmdmthparsym{cmdName};
                                                                                                        \cmdNameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                               • \cmdmthparsym{cmdName}[NewName];
                                                                                                        \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                                                   730 \DeclareRobustCommandx{\cmdmthparsym}[2][2=]
                                                                                                      {\usrmth{#1}{Sym}{parsym}[#2]}
```

```
\cmdmthoparsym ... to do!
                                                                                    \cmdmthoparsym{cmdName};
                                                                                             \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdNames|^{sub}_{sub}[par]|
                                                                                    • \cmdmthoparsym{cmdSym}[NewName];
                                                                                            732 \DeclareRobustCommandx{\cmdmthoparsym}[2][2=]
                                                                         733 {\usrmth{#1}{Sym}{oparsym}[#2]}
                                 \mthelm ... to do!
                   \mthargelm
                                                                                    \bullet \ \  \  \, \texttt{Name} \texttt{[sub][sup][Ext]} = Name_{sub}^{sup}Ext
                   \mthparelm
                                                                                    • \mthargelm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                                                    \bullet \  \, \texttt{\colored} \ 
                                                                                    \bullet \  \, \texttt{Name}[\texttt{Sub}][\texttt{Sup}][\texttt{Ext1}] \\ \{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \\ = Name_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] \\ = Name_{sub}^{sup}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[
                                                                                    \bullet \verb| \t Par^{Ex^{2}}| [Ext1] = Name_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2] = Name_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2[Par^{Ex^{Ex}}] Ext2[Par^{
                                                                         734 %% Style for Elements
                                                                         735 \cmdmthall{elm}
                                                                         736 \DeclareRobustCommand{\mthstyelm}{\mathnormal}
                                         \aElm ... to do!
                                                   \dots \ a,\, b,\, c,\, d,\, e,\, f,\, g,\, h,\, i,\, j,\, k,\, l,\, m,\, n,\, o,\, p,\, q,\, r,\, s,\, t,\, u,\, v,\, w,\, x,\, y,\, z
                                                                      A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                                     A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                                                        737 \seqoflet{Elm}{mthelm}
                  \cmdmthelm ... to do!
                                                                                    • \cmdmthelm{cmdName};
                                                                                            \colon dNameElm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                                    • \cmdmthelm{cmdName}[NewName];
                                                                                            \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                                                         738 \DeclareRobustCommandx{\cmdmthelm}[2][2=]
                                                                                         {\usrmth{#1}{Elm}{elm}[#2]}
    \cmdmthargelm ... to do!
                                                                                    • \cmdmthargelm{cmdName};
                                                                                            \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                                    • \cmdmthargelm{cmdName}[NewName];
                                                                                             \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                         740 \DeclareRobustCommandx{\cmdmthargelm}[2][2=]
                                                                                           {\usrmth{#1}{Elm}{argelm}[#2]}
\cmdmthoargelm ... to do!
                                                                                    • \cmdmthoargelm{cmdName};
                                                                                            \colon = cmdNameElm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                    • \cmdmthoargelm{cmdElm}[NewName];
                                                                                            \verb|\cmdElmElm[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                                                         742 \DeclareRobustCommandx{\cmdmthoargelm}[2][2=]
                                                                         743 {\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
                                                                         744 \DeclareRobustCommandx{\cmdmthparelm}[2][2=]
                                                                         745 {\usrmth{#1}{Elm}{parelm}[#2]}
```

```
\cmdmthoparelm ... to do!
                                                                                                              • \cmdmthoparelm{cmdName};
                                                                                                                       \colonerge{cmdNameElm[sub][sub][par]} = cmdName^{sub}_{sub}[par]
                                                                                                              • \cmdmthoparelm{cmdElm}[NewName];
                                                                                                                       \verb|\cmdElmElm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                                                                 746 \DeclareRobustCommandx{\cmdmthoparelm}[2][2=]
                                                                                                                       {\usrmth{#1}{Elm}{oparelm}[#2]}
                   \cmdmthsymelm ... to do!
                                                                                                              • \cmdmthsymelm{cmdName};
                                                                                                                       \colon colon col
                                                                                                                       \colonerge{cmdNameElm[sub][sub][ext]} = cmdName^{sub}_{sub}ext
                                                                                                              • \cmdmthsymelm{cmdName}[NewName];
                                                                                                                       \colon colon col
                                                                                                                       \cmdNameElm[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                                                 749 \DeclareRobustCommandx{\cmdmthsymelm}[2][2=]
                                                                                                                           {\cmdmthsym{#1}[#2]%
                                                                                                                           \cmdmthelm{#1}[#2]}
    \cmdmthargsymelm ... to do!
                                                                                                              \cmdmthargsymelm{cmdName};
                                                                                                                       \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|| sub|| ext1|| (arg)ext2||
                                                                                                                       \colone{condNameElm[sub][sub][ext1]{arg}[ext2]} = cmdName^{sub}_{sub}ext1(arg)ext2
                                                                                                              • \cmdmthargsymelm{cmdName}[NewName];
                                                                                                                       \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameSym[sub][ext1](arg)ext2|
                                                                                                                       \cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                                                 752 \DeclareRobustCommandx{\cmdmthargsymelm}[2][2=]
                                                                                                                            {\cmdmthargsym{#1}[#2]%
                                                                                                                           \cmdmthargelm{#1}[#2]}
                                                                                                754
\cmdmthoargsymelm ... to do!
                                                                                                              • \cmdmthoargsymelm{cmdName};
                                                                                                                       \colon 
                                                                                                                       \colon dNameElm[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                                                                                                              • \cmdmthoargsymelm{cmdName}[NewName];
                                                                                                                       \colon 
                                                                                                                       \cmdNameElm[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                                                                 755 \DeclareRobustCommandx{\cmdmthoargsymelm}[2][2=]
                                                                                                                            {\cmdmthoargsym{#1}[#2]%
                                                                                                                           \cmdmthoargelm{#1}[#2]}
                                                                                                757
    \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|\cmdNameSym[sub][ext1][par]ext2|
                                                                                                                       \cmdNameElm[sub] [sub] [ext1] {par} [ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                                                 758 \DeclareRobustCommandx{\cmdmthparsymelm}[2][2=]
                                                                                                                           {\cmdmthparsym{#1}[#2]%
                                                                                                                           \cmdmthparelm{#1}[#2]}
                                                                                                760
\c cmdmthoparsymelm ... to do!
                                                                                                              \cmdmthoparsymelm{cmdName};
                                                                                                                       \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdNames|^{sub}_{sub}[par]|
                                                                                                                       {\tt \cmdNameElm[sub][sub][par]} = cmdName^{sub}_{sub}[par]
```

```
• \cmdmthoparsymelm{cmdName}[NewName];
                                                                            \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewNamesub| | par||
                                                                            \verb|\cmdNameElm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                        761 \DeclareRobustCommandx{\cmdmthoparsymelm}[2][2=]
                                                                          {\cmdmthoparsym{#1}[#2]%
                                                                           \cmdmthoparelm{#1}[#2]}
                                                        \mthluop ... to do!
             \mthlbop
                                                                  ullet \mthluop{\oplus}[sub][sup][Ext] = \oplus_{sub}^{sup} Ext
                                                                   • \mthlbop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                                        765 %% Style for \LaTex Operators
                                                        766 \cmdmth{luop}
                                                         767 \DeclareRobustCommand{\mthstyluop}[1]{\textstyle\mathop{#1}}
                                                         768 \cmdmth{lbop}
                                                        769 \DeclareRobustCommand{\mthstylbop}[1]{\textstyle\mathbin{#1}}
\cmdmthluop ... to do!
\cmdmthlbop
                                                                   • \cmdmthluop{cmdName};
                                                                           \colon dNameUOp[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                    • \cmdmthluop{cmdName}[\oplus];
                                                                           \verb|\cmdNameUOp[sub][sub][ext]| = \oplus_{sub}^{sub} ext
                                                                    • \cmdmthlbop{cmdName};
                                                                           \colon dNameBOp[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                    • \cmdmthlbop{cmdName}[\oplus];
                                                                           \colon = \oplus_{sub}  [sub] [ext] = \oplus_{sub}  ext
                                                        770 \DeclareRobustCommandx{\cmdmthluop}[2][2=]
                                                        771 {\usrmth{#1}{U0p}{luop}[#2]}
                                                        772 \DeclareRobustCommandx{\cmdmthlbop}[2][2=]
                                                                        {\usrmth{#1}{BOp}{lbop}[#2]}
            \mthlrel ... to do!
                                                                   • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                        774 %% Style for \LaTex Relations
                                                         775 \cmdmth{lrel}
                                                        776 \DeclareRobustCommand{\mthstylrel}{\mathrel}
\cmdmthlrel ... to do!
                                                                   • \cmdmthlrel{cmdName};
                                                                           \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                    • \cmdmthlrel{cmdName}[\preceq];
                                                                           \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                                                        777 \DeclareRobustCommandx{\cmdmthlrel}[2][2=]
                                                         778 {\usrmth{#1}{Rel}{lrel}[#2]}
                                                        \mthsnt ... to do!
    \mthargsnt
                                                                   • \mathbb{E}_{sub}[sub][sup][Ext] = \mathsf{Name}_{sub}^{sup}Ext
    \mthparsnt
                                                                   \bullet \  \  \, \texttt{\bar{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}} \  \, [\texttt{Ext2}] \  \, = \  \, \texttt{\bar{Name}} \  \, Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \\ = \  \, \texttt{\bar{Name}} \  \, Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \\ = \  \, \texttt{\bar{Name}} \  \, Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \\ = \  \, \texttt{\bar{Name}} \  \, Ext2 \\ = \  \, \texttt{\bar{
                                                                   • \mthargsnt!{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                   \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par^{Ex^{2}}]} \  \, [\texttt{Ext2}] \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, [\texttt{Ext2}] \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}} \  \, ] \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]} \  \, \texttt{\bar{Ext2}[Par^{Ex^{Ex}}]}} \  \, \texttt{\bar{Ext2}[Par^{
                                                                    \bullet \  \  \, \texttt{\begin{tabular}{l} Name}[sub][sup][Ext1]{Par^{Ex^{}}}[Ext2] = \mathsf{\begin{tabular}{l} Name}^{sup}Ext1[Par^{Ex^{}}]Ext2] = \mathsf{\begin{tabular}{l} Name}^{sup}Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}}]Ext2[Par^{Ex^{}
                                                         780 %% Style for Sentences
                                                         781 \cmdmthall{snt}
                                                         782 \DeclareRobustCommand{\mthstysnt}{\mathsf}
```

```
\aSnt ... to do!
                          \dots \ a, \, b, \, c, \, d, \, e, \, f, \, g, \, h, \, i, \, j, \, k, \, l, \, m, \, n, \, o, \, p, \, q, \, r, \, s, \, t, \, u, \, v, \, w, \, x, \, y, \, z
                                  A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                  \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                  A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                    783 \seqoflet{Snt}{mthsnt}
         \cmdmthsnt ... to do!
                                          • \cmdmthsnt{cmdName};
                                              \colon dNameSnt[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                          • \cmdmthsnt{cmdName} [NewName];
                                              \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                     784 \DeclareRobustCommandx{\cmdmthsnt}[2][2=]
                                             {\usrmth{#1}{Snt}{snt}[#2]}
  \cmdmthargsnt ... to do!
                                          • \cmdmthargsnt{cmdName};
                                              \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                          • \cmdmthargsnt{cmdName}[NewName];
                                              \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdNameSnt[sub][sub][ext1][ext2] = \verb|\cmdNameSnt[sub][sub][ext1][ext2] = \verb|\cmdNameSnt[sub][sub][ext1][ext2][ext2] = \verb|\cmdNameSnt[sub][sub][sub][ext1][ext2][ext2] = \verb|\cmdNameSnt[sub][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][e
                                     786 \DeclareRobustCommandx{\cmdmthargsnt}[2][2=]
                                    787 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                                          \cmdmthoargsnt{cmdName};
                                              \colon = cmdNameSnt[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                          • \cmdmthoargsnt{cmdName}[NewName];
                                              \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                     788 \DeclareRobustCommandx{\cmdmthoargsnt}[2][2=]
                                              {\usrmth{#1}{Snt}{oargsnt}[#2]}
  \cmdmthparsnt ... to do!
                                          • \cmdmthparsnt{cmdName};
                                              \label{lem:lemma:sub:ext1} $$ \operatorname{CmdNameSnt}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}][\operatorname{par}][\operatorname{ext2}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                                          • \cmdmthparsnt{cmdName}[NewName];
                                              \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\NewName]^{sub}_{sub}ext1[par]ext2
                                    790 \DeclareRobustCommandx{\cmdmthparsnt}[2][2=]
                                             {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                          • \cmdmthoparsnt{cmdName};
                                              \verb|\cmdNameSnt[sub][par]| = \verb|\cmdNameSnt[sub][par]|
                                          • \cmdmthoparsnt{cmdName}[NewName];
                                              \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                                     792 \DeclareRobustCommandx{\cmdmthoparsnt}[2][2=]
                                    793 {\usrmth{#1}{Snt}{oparsnt}[#2]}
                \mthfrm ... to do!
         \mthargfrm
                                          \bullet \ \texttt{\ \ } [\mathtt{Sub}] \ [\mathtt{Ext}] = Name_{sub}^{sup} Ext
         \mthparfrm
                                          • \mthargfrm{Name} [sub] [sup] [Ext1] {Arg^{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^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                          • \mthparfrm! {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2
                                     794 %% Style for Formulae
                                     795 \cmdmthall{frm}
                                     796 \DeclareRobustCommand{\mthstyfrm}{\mathit}
```

```
\arrange ... to do!
                            \dots a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                     A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\varSigma,\,\varSigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                                       797 \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
                                        798 \DeclareRobustCommandx{\cmdmthfrm}[2][2=]
                                       799 {\usrmth{#1}{Frm}{frm}[#2]}
  \cmdmthargfrm ... to do!
                                              \cmdmthargfrm{cmdName};
                                                  \cmdNameFrm[sub] [sub] [ext1] {arg} [ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                              • \cmdmthargfrm{cmdName}[NewName];
                                                  \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                        800 \DeclareRobustCommandx{\cmdmthargfrm}[2][2=]
                                       801 {\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)
                                        802 \DeclareRobustCommandx{\cmdmthoargfrm}[2][2=]
                                       803 {\usrmth{#1}{Frm}{oargfrm}[#2]}
  \cmdmthparfrm ... to do!
                                             • \cmdmthparfrm{cmdName};
                                                  \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
                                        804 \DeclareRobustCommandx{\cmdmthparfrm}[2][2=]
                                                 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                                             • \cmdmthoparfrm{cmdName};
                                                  \cmdNameFrm[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                              • \cmdmthoparfrm{cmdName}[NewName];
                                                  \verb|\cmdNameFrm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                        806 \DeclareRobustCommandx{\cmdmthoparfrm}[2][2=]
                                        807 {\usrmth{#1}{Frm}{oparfrm}[#2]}
                                       \mthmat ... to do!
          \mthargmat
                                             • \mthmat{Name}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
          \mthparmat
                                             • \mthargmat{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathbf{Name}_{sub}^{sup}Ext1\left(Arg^{Ex^{Ex}}\right)Ext2
                                             \bullet \  \  \, \texttt{Name} \texttt{[sub][sub][Ext1]} \texttt{[Ext2]} = \mathbf{Name}^{sup}_{sub} Ext1(Arg^{Ex^{Ex}}) Ext2
                                              \bullet \  \  \, \texttt{Name}[sub][sup][Ext1][Par^{Ex^{Ex}}][Ext2] = \mathbf{Name}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2
                                              \bullet \  \, \texttt{\bar}[Sub][Sub][Sub][Ext1] \\ \{Par^{Ex^{-}}[Ext2] = \textbf{Name}_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] \\ Ext2] = \textbf{\bar}[Ext2] \\ = \textbf{\bar}[
```

```
809 %% Style for Matrices
                                             810 \cmdmthall{mat}
                                             811 \DeclareRobustCommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
                         \aMat ... to do!
                                ... a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                           A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                           \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                           A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                             812 \seqoflet{Mat}{mthmat}
           \verb|\cmdmthmat| \dots to do!
                                                    • \cmdmthmat{cmdName};
                                                         \colon dNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                    • \cmdmthmat{cmdName}[NewName];
                                                         \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName|^{sub}_{sub} ext|
                                             813 \DeclareRobustCommandx{\cmdmthmat}[2][2=]
                                             814 {\usrmth{#1}{Mat}{mat}[#2]}
  \cmdmthargmat ... to do!
                                                    \cmdmthargmat{cmdName};
                                                         \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1(arg)ext2
                                                    • \cmdmthargmat{cmdName}[NewName];
                                                         \cmdNameMat[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arq)ext2
                                             815 \DeclareRobustCommandx{\cmdmthargmat}[2][2=]
                                             816 {\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)
                                             817 \DeclareRobustCommandx{\cmdmthoargmat}[2][2=]
                                                         {\usrmth{#1}{Mat}{oargmat}[#2]}
  \cmdmthparmat ... to do!
                                                    • \cmdmthparmat{cmdName};
                                                         \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1[par]ext2|
                                                    • \cmdmthparmat{cmdName}[NewName];
                                                         \cmdNameMat[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                             819 \DeclareRobustCommandx{\cmdmthparmat}[2][2=]
                                                          {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                                    • \cmdmthoparmat{cmdName};
                                                         \cmdNameMat[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                    • \cmdmthoparmat{cmdName}[NewName];
                                                         \verb|\cmdNameMat[sub][sub][par]| = \verb|NewName|^{sub}_{sub}[par]|
                                             821 \DeclareRobustCommandx{\cmdmthoparmat}[2][2=]
                                             822 {\usrmth{#1}{Mat}{oparmat}[#2]}
                    \mthvec ... to do!
           \mthargvec
                                                   ullet \mthvec{Name} [sub] [sup] [Ext] = {\it Name}^{sup}_{sub} Ext
           \mthparvec
                                                    • \mthargvec{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                    \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \  } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt
                                                    • \mthparvec{Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 \left| Par^{Ex^{Ex}} \right| Ext2
```

```
• \mthparvec! {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2
                               823 %% Style for Vectors
                               824 \cmdmthall{vec}
                               825 \DeclareRobustCommand{\mthstyvec}[1]{\boldsymbol{\mathit{#1}}}
                 \aVec ... to do!
                     \dots \ a, \ b, \ c, \ d, \ e, f, \ g, \ h, \ i, \ j, \ k, \ l, \ m, \ n, \ o, \ p, \ q, \ r, \ s, \ t, \ u, \ v, \ w, \ x, \ y, \ z
                             A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                             \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                             A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,A,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                               826 \seqoflet{Vec}{mthvec}
        \cmdmthvec ... to do!
                                   • \cmdmthvec{cmdName};
                                       \verb|\cmdNameVec[sub][sub][ext]| = cmdName_{sub}^{sub}ext|
                                    • \cmdmthvec{cmdName} [NewName];
                                       \cmdNameVec[sub][sub][ext] = NewName_{sub}^{sub}ext
                               827 \DeclareRobustCommandx{\cmdmthvec}[2][2=]
                               828 {\usrmth{#1}{Vec}{vec}[#2]}
 \cmdmthargvec ... to do!
                                   \cmdmthargvec{cmdName};
                                       \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2|
                                    • \cmdmthargvec{cmdName} [NewName];
                                       \cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                               829 \DeclareRobustCommandx{\cmdmthargvec}[2][2=]
                               830 {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                    \cmdmthoargvec{cmdName};
                                       \colon = cmdName \col
                                    • \cmdmthoargvec{cmdName}[NewName];
                                       \colon = NewName^{sub}(arg) = NewName^{sub}(arg)
                               831 \DeclareRobustCommandx{\cmdmthoargvec}[2][2=]
                              832 {\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
                               833 \DeclareRobustCommandx{\cmdmthparvec}[2][2=]
                               834 {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                                    \cmdmthoparvec{cmdName};
                                       \cmdNameVec[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                   • \cmdmthoparvec{cmdName}[NewName];
                                       \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                               835 \DeclareRobustCommandx{\cmdmthoparvec}[2][2=]
                               836 {\usrmth{#1}{Vec}{oparvec}[#2]}
                               837\fi
```

842 \iftxt@

```
\dotcheck
                       • A\dotcheck A\dotcheck.A = A.A. A
                    843 \newrobustcmd{\dotcheck}
                    844 {\@ifnextchar.{}{.\@}}
                    \bullet \ \ \texttt{\ } \  \  \, \texttt{\ } \  \  \, adhoc = \mathit{ad} \ \mathit{hoc}
           \adhoc
                    846 \cmdtxtabr{adhoc} [ad hoc]
       \afortiori
                       • \arrange a fortiori
                    847 \cmdtxtabr{afortiori}[a fortiori]
         \apriori
                       • \apriori = a priori
                    848 \cmdtxtabr{apriori}[a priori]
    \aposteriori
                       • \arrowvertaposteriori = a\ posteriori
                    849 \cmdtxtabr{aposteriori}[a posteriori]
               \cf
                       • \backslash cf = cf.
                    850 \cmdtxtabr{cf}[cf.\@]
         \dedicto
                       • \dedicto = de \ dicto
                    851 \cmdtxtabr{dedicto}[de dicto]
                       • \del{defacto} = de \ facto
         \defacto
                    852 \cmdtxtabr{defacto}[de facto]
            \dere
                       • \forall ere = de re
                    853 \cmdtxtabr{dere}[de re]
 \divideetimpera
                        \bullet \ \verb+\divideetimpera = \mathit{divide et impera} \\
                    854 \cmdtxtabr{divideetimpera}[divide et impera]
               \eg
                       • \backslash eg = e.g.
                    855 \cmdtxtabr{eg}[e.g.\@]
            \ergo
                       • \ergo = ergo
                    856 \cmdtxtabr{ergo}
                       • \ensuremath{\backslash} errata = errata
          \errata
                    857 \cmdtxtabr{errata}
         \erratum
                       • \erratum = erratum
                     858 \cmdtxtabr{erratum}
            \etal
                       • \ensuremath{\backslash} \mathtt{etal} = et \ al.
                    859 \cmdtxtabr{etal}[et al.\@]
                       • \ensuremath{\backslash} \mathsf{etc} = etc.
              \etc
                    860 \cmdtxtabr{etc}[etc.\@]
               \ie
                       • \ie = i.e.
                    861 \cmdtxtabr{ie}[i.e.\@]
\mutatismutandis
                       • \mutatismutandis = mutatis mutandis
                    862 \cmdtxtabr{mutatismutandis} [mutatis mutandis]
                       • \percontra = per contra
       \percontra
```

863 \cmdtxtabr{percontra}[per contra]

```
\primafacie
                 • \primafacie = prima facie
               864 \cmdtxtabr{primafacie}[prima facie]
     \viceversa
                 • \viceversa = vice versa
               865 \cmdtxtabr{viceversa}[vice versa]
                 • \vert vs = vs.
               866 \cmdtxtabr{vs}[vs.\@]
          \viz
                 • \forall viz = viz.
               867 \cmdtxtabr{viz}[viz.\@]
               \Afortiori
                 • \Afortiori = A fortiori
               869 \cmdtxtabr{Afortiori}[A fortiori]
      \Apriori
                 • \Apriori = A priori
               870 \cmdtxtabr{Apriori}[A priori]
   \Aposteriori
                 • \Aposteriori = A posteriori
               871 \cmdtxtabr{Aposteriori}[A posteriori]
                 • \Dedicto = De \ dicto
      \Dedicto
               872 \cmdtxtabr{Dedicto} [De dicto]
                 \Defacto
               873 \cmdtxtabr{Defacto}[De facto]
                 • \Dere = De re
         \Dere
               874 \cmdtxtabr{Dere}[De re]
\Divideetimpera
                 ullet \Divideetimpera = Divide\ et\ impera
               875 \cmdtxtabr{Divideetimpera}[Divide et impera]
                 • \backslash Eg = E.g.
           \Eg
               876 \cmdtxtabr{Eg}[E.g.\@]
       \Errata
                 • \Errata = Errata
               877 \cmdtxtabr{Errata}
      \Erratum
                 \bullet \Erratum = Erratum
               878 \cmdtxtabr{Erratum}
                 ullet \Mutatismutandis = Mutatis\ mutandis
\Mutatismutandis
               879 \cmdtxtabr{Mutatismutandis} [Mutatis mutandis]
                 • \Percontra = Per contra
     \Percontra
               880 \cmdtxtabr{Percontra}[Per contra]
                 ullet \Primafacie = Prima\ facie
    \Primafacie
               881 \cmdtxtabr{Primafacie}[Prima facie]
     \Viceversa
                 • \forall viceversa = Vice versa
               882 \cmdtxtabr{Viceversa}[Vice versa]
```

```
\ala
      • \alphala = \grave{a} la
    886 \cmdtxtabr{ala}[\'a la]
      • \n naif = naif
\n
    887 \mbox{cmdtxtabr{naif}[na\"{i}f]}
\naive
      • \naive = na\"{i}ve
    888 \cmdtxtabr{naive}[na\"{i}ve]
\role
      • \role = r\hat{o}le
    889 \cmdtxtabr{role}[r\^{o}le]
    \Role
     • \Role = R\hat{o}le
    891 \cmdtxtabr{Role}[R\^{o}le]
    \aka
     • \again a.k.a.
    893 \cmdtxtabr{aka}[a.k.a.\@]
\contd
     • \contd = contd.
    894 \cmdtxtabr{contd}[contd.\@]
 \iff
      • \iff = iff
    895 \cmdtxtabr{iff}
 \iht
      • \ iht = i.h.t.
    896 \cmdtxtabr{iht}[i.h.t.\@]
 \stx
      • \ \ \ \ stx = s.t.
    897 \cmdtxtabr{stx}[s.t.\@]
\resp
      • \resp = resp.
    898 \cmdtxtabr{resp}[resp.\@]
     • \wrt = w.r.t.
 \wrt
    899 \cmdtxtabr{wrt}[w.r.t.\@]
     • \wdots w.l.o.g.
\wlogx
    900 \cmdtxtabr{wlogx}[w.l.o.g.\@]
    \Contd
      • \contd = Contd.
    902 \cmdtxtabr{Contd} [Contd.\@]
      • \Wlogx = W.l.o.g.
\Wlogx
    903 \cmdtxtabr{Wlogx}[W.l.o.g.\@]
    904 \fi
    909 \ifmth@
```

```
\defeq ...
            \seteq 911 \DeclareRobustCommand{\defeq}
                          912 {\ifstarvar%
                                       {\mthlbop{\stackrel{\text{\textup{def}}}{=}}}%
                          914
                                       {\mthlbop{\triangleq}}}
                          915 \DeclareRobustCommand{\seteq}
                                  {\ifstarvar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
                          \limp ...
          \verb|\localing| 918 \verb|\localing| 918 \verb|\localing| Power of the command of the comm
                          919 {\mthlbop{\rightarrow}}
                          920 \DeclareRobustCommand{\lcoimp}
                          921 {\mthlbop{\leftrightarrow}}
                          \implies ...
   \notimplies 923 \DeclareRobustCommand{\implies}
                          924 {\mthlrel{\Rightarrow}}
                          925 \DeclareRobustCommand{\notimplies}
                          926 {\mthlrel{\not\Rightarrow}}
        \implied ...
   \verb| notimplied 927 \verb| DeclareRobustCommand{implied}| \\
                          928 {\mthlrel{\Leftarrow}}
                          929 \DeclareRobustCommand{\notimplied}
                          930 {\mthlrel{\not\Leftarrow}}
     \coimplies ...
\verb|\notcoimplies| 931 \verb|\DeclareRobustCommand{\coimplies}|
                          932 {\mthlrel{\Leftrightarrow}}
                          933 \DeclareRobustCommand{\notcoimplies}
                          934 {\mthlrel{\not\!\Leftrightarrow}}
                          \cmodels ...
   \verb|\notemodels| 936 \verb|\DeclareRobustCommand{\cmodels}|
                          937 {\mthlrel{\models}}
                          938 \DeclareRobustCommand{\notcmodels}
                          939 {\mthlrel{\not\models}}
          \cequiv ...
     \verb|\notcequiv| 940 \verb|\DeclareRobustCommand{\cequiv}|
                          941 {\mthlrel{\equiv}}
                          942 \DeclareRobustCommand{\notcequiv}
                          943 {\mthlrel{\not\equiv}}
                          \denot ...
                          945 \DeclareRobustCommand{\denot}
                          946 {\ident}{\denot}
                          947 \DeclareRobustCommand{\Qdenot}[1]
                          948 {\bf \{\hat{l}\}}{\bf \{}\
                          949 \DeclareRobustCommand{\Qedenot}[1]
                                  {\mth!{\argmid{\llbracket}{#1}{\rrbracket}}}
```

```
\comp ...
                   \verb|\dual 952 \end{|} $952 \end{|} $0 = 300 \end{|} $0 = 
                     \adj 953 {\ifstarvar{\@scompdual}{\@compdual}}
                     \der 954 \DeclareRobustCommand{\dual}
                     \trn 955 {\ifstarvar{\@scompdual}{\@compdual}}
                                     956 \DeclareRobustCommand{\@compdual}[1]
                                     957 {\mth{\overline{#1}}}
                                     958 \DeclareRobustCommand{\@scompdual}[1]
                                                 {\mth{\widetilde{#1}}}
                                     960 \DeclareRobustCommand{\adj}[1]
                                                 {\mth{\mathring{#1}}}
                                     962 \DeclareRobustCommand{\der}[1]
                                                {\bf \{\mth{\widehat{\#1}}}
                                     964 \DeclareRobustCommand{\trn}[1]
                                     965 {\bf \{mth\{widetilde\{\#1\}\}\}}
                     \vec ...
                                      966 \DeclareRobustCommand{\vec}
                                                {\ifstarvar{\@svec}{\@vec}}
                                     968 \DeclareRobustCommand{\@vec}[1]
                                     969 {\mth{\mathaccent"017E{#1}}}
                                     970 \DeclareRobustCommand{\@svec}[1]
                                     971 {\mth{\overline{#1}}}
                                     \enumeration ...
                                     973 \DeclareRobustCommand{\enumeration}
                                     974 {\ifstarvar{\@senumeration}{\@enumeration}}
                                     975 \ \end{\mathbb{Q}enumeration}_{\hf{1}}_{,}_{,}_{}
                                     976 \varcmd{@senumeration}{\mth!}{}{;}{}}
       \sequence ...
     \sequencel 977 \DeclareRobustCommand{\sequence}
     \sequencer
                                    978 {\ifstarvar{\@ssequence}{\@sequence}}
                                     979 \DeclareRobustCommand{\@sequence}
                                     980 {\ifexclavar{\@e@sequence}{\@@sequence}}
                                     981 \DeclareRobustCommand{\@ssequence}
                                     982 {\ifexclavar{\@e@ssequence}{\@@ssequence}}
                                     983 \varcmd{@@sequence}{\mth}{\left[}{,}{\right]}{}
                                     984 \varcmd{@e@sequence}{\mth!}{[]{,}{]}{}
                                      985 \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{
                                      986 \varcmd{@e@ssequence}{\mth!}{[}{;}{]}{}
                                      987 \DeclareRobustCommand{\sequencel}
                                                   {\ifstarvar{\@ssequencel}{\@sequencel}}
                                      989 \DeclareRobustCommand{\@sequencel}
                                                   {\ifexclavar{\@e@sequencel}{\@@sequencel}}
                                      991 \DeclareRobustCommand{\@ssequencel}
                                                   {\ifexclavar{\@e@ssequencel}{\@@ssequencel}}
                                     993 \varcmd{@@sequencel}{\mth}{\left[}{,}{\right.}{}
                                     994 \ \varcmd{\text{QeOsequencel}{\mth!}{[}{,}{}}
                                     995 \label{left[}{;}{\colored} % $$ $$ \operatorname{Consequence}(\mathbb{T}_{;}}{\colored} % $$ $$ $$ $$
                                     996 \ \varcmd{@e@ssequencel}{\mth!}{[}{;}{}}
                                     997 \DeclareRobustCommand{\sequencer}
                                               {\ifstarvar{\@ssequencer}{\@sequencer}}
                                     999 \DeclareRobustCommand{\@sequencer}
                                                 {\ifexclavar{\@e@sequencer}{\@@sequencer}}
                                    1001 \DeclareRobustCommand{\@ssequencer}
                                                   {\ifexclavar{\@e@ssequencer}{\@@ssequencer}}
                                   1003 \varcmd{@@sequencer}{\mth}{\left.}{,}{\right]}{}
                                   1004 \varcmd{@e@sequencer}{\mth!}{}{,}{]}{}
                                   1005 \varcmd{@@ssequencer}{\mth}{\left.}{;}{\right]}{}
                                   1006 \varcmd{@e@ssequencer}{\mth!}{}{;}{]}{}
```

```
\tuple ...
\tuplel _{1007} \DeclareRobustCommand{\tuple}
\tupler 1008 {\ifstarvar{\@stuple}{\@tuple}}
        1009 \DeclareRobustCommand{\@tuple}
        1010 {\ifexclavar{\@e@tuple}{\@@tuple}}
        1011 \DeclareRobustCommand{\@stuple}
        1012 {\ifexclavar{\@e@stuple}{\@@stuple}}
        1013 \varcmd{@@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
        1014 \varcmd{@e@tuple}{\mth!}{\langle}{,}{\rangle}{}
        1015 \varcmd{@@stuple}{\mth}{\left\langle}{;}{\right\rangle}{}
        1016 \varcmd{@e@stuple}{\mth!}{\langle}{;}{\rangle}{}
        1017 \DeclareRobustCommand{\tuple1}
             {\ifstarvar{\@stuplel}{\@tuplel}}
        1019 \DeclareRobustCommand{\@tuplel}
        1020 \quad \{\texttt{\clavar}(\texttt{\clavar}\{\texttt{\clavar}\})\}
        1021 \DeclareRobustCommand{\@stuplel}
        1022 \quad \{\texttt{\equal}(\texttt{\equal}) \}
        1024 \c (@e@tuplel){\mth!}{\langle}{,}{}{}
        1025 \varcmd{@@stuplel}{\mth}{\left\langle}{;}{\right.}{}
        1026 \varcmd{@e@stuplel}{\mth!}{\langle}{;}{}{}
        1027 \DeclareRobustCommand{\tupler}
              {\ifstarvar{\@stupler}{\@tupler}}
        1029 \DeclareRobustCommand{\@tupler}
             {\ifexclavar{\@e@tupler}{\@@tupler}}
        1031 \DeclareRobustCommand{\@stupler}
             {\ifexclavar{\@e@stupler}{\@@stupler}}
        1033 \varcmd{@@tupler}{\mth}{\left.}{,}{\right\rangle}{}
        1034 \texttt{\ensuremod{@e@tupler}{\mth!}{},}{\ngle}{}
        1035 \varcmd{@@stupler}{\mth}{\left.}{;}{\right\rangle}{}
        1036 \varcmd{@e@stupler}{mth!}{}{;}{\rangle}{}
        \set ... \!\! \left\{1^2 \,\middle|\, 1^2\right\} \!\! \left\{1^2 \colon 1^2\right\} \!\! \left\{1^2 \,\middle|\, 1^2\right\} \!\! \left\{1^2 \colon 1^2\right\}
  \setl ...\{1^2 | 1^2 \}
 \setr ...\{1^2:1^2\}
       ...\{1^2 | 1^2\}
        ...\{1^2:1^2\}
        1038 \DeclareRobustCommand{\set}
        1039 {\ifstarvar{\@sset}{\@set}}
        1040 \DeclareRobustCommand{\@set}
             {\ifexclavar{\@e@xset{\vert}}{\@@xset{\vert}}}
        1042 \DeclareRobustCommand{\@sset}
        1043 {\ifexclavar{\@e@xset{\!:\!}}{\@@xset{.\!:\!}}}
        1044 \DeclareRobustCommand{\@@xset}[3]
              \label{left} $$ {\mathbf \pi_{\alpha}}_{\alpha}(\left(\frac{1}{\beta}\right)^{\#3}}{\ \vec{\theta}^{\alpha}} $$
        1046 \DeclareRobustCommand{\@e@xset}[3]
              {\mth!{\argmid{\lbrace}{\argsep{#2}{\,#1\,}{#3}}{\rbrace}}}
        1048 \DeclareRobustCommand{\set1}
              {\ifstarvar{\@ssetl}{\@setl}}
        1050 \DeclareRobustCommand{\@set1}
             {\ifexclavar{\@e@xsetl{\,\vert}}{\@@xsetl{\vert}}}
        1052 \DeclareRobustCommand{\@sset1}
             {\ifexclavar{\@e@xsetl{\!:}}{\@@xsetl{.\!\!:}}}
        1054 \DeclareRobustCommand{\@@xset1}[2]
             {\mth{\argmid{\left\lbrace}{#2}{\,\right#1}}}
        1056 \DeclareRobustCommand{\@e@xset1}[2]
             {\mth!{\argmid{\lbrace}{#2}{\,#1}}}
        1058 \DeclareRobustCommand{\setr}
             {\ifstarvar{\@setr}{\@setr}}
        1060 \DeclareRobustCommand{\@setr}
        1061 {\ifexclavar{\@e@setr}{\@@setr}}
```

```
1062 \DeclareRobustCommand{\@@setr}[1]
           {\mth{\argmid{\left.}{#1}{\right\rbrace}}}
       1064 \DeclareRobustCommand{\@e@setr}[1]
       1065 {\mth!{\argmid{}{#1}{\rbrace}}}
   \card ...
       1066 \DeclareRobustCommand{\card}
           {\ifexclavar{\@ecard}{\@card}}
       1068 \DeclareRobustCommand{\@card}[1]
       1069 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
       1070 \DeclareRobustCommand{\@ecard}[1]
       1071 {\bf \{\d}_{1}^{1} 
   \pow ...
       1072 \DeclareRobustCommand{\pow}
       1073 {\ifstarvar{\@spow}{\@pow}}
       1074 \DeclareRobustCommand{\@pow}[1]
       1076 \DeclareRobustCommand{\@spow}
       1077 {\ifexclavar{\@e@spow}{\@@spow}}
       1078 \verb|\DeclareRobustCommand{\QeQspow}[1]
       1079 {\mthargfun![mathscr]{P}{\defval{#1}{\cdot}}}
       1080 \DeclareRobustCommand{\@@spow}[1]
           {\mthargfun[mathscr]{P}{\defval{#1}{\cdot}}}
       \emptyrel ...
       1083 \DeclareRobustCommand{\emptyrel}
       1084 {\mth{\varnothing}}
       \dom ...
   \cod _{1086} \usrmth{dom}{}{argfun}
   \rng 1087 \usrmth{cod}{}{argfun}
   \img 1088 \usrmth{rng}{}{argfun}
       1089 \usrmth{img}{}{argfun}
   \deg ...
       1090 \usrmth{deg}{}{argfun}
       \prj ...
       1092 \DeclareRobustCommand{\prj}
       1093 {\mthlbop{\downarrow}}
   \rst ...
       1094 \DeclareRobustCommand{\rst}
           {\mthlbop{\upharpoonright}}
   \cmp ...
       1096 \DeclareRobustCommand{\cmp}
           {\mthlbop{\circ}}
       \emptyfun ...
       1099 \DeclareRobustCommand{\emptyfun}
          {\mth{\varnothing}}
```

```
\pto ...
\verb|\pmapsto||_{1102} \verb|\DeclareMathOperator{\pto}|
            {\ensuremath{\rightharpoonup}}
        1103
        1104 \DeclareMathOperator{\pmapsto}
             {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
        1106
               \kern-1.5ex\rightharpoonup}}}
        \fix ...
    \inf _{1108} \operatorname{usrmth} \{fix\} \{\} \{fun\}
    \gfp 1110 \usrmth{lfp}{\fun}
        1111 \usrmth{gfp}{}{fun}
        \Aomega ...
 1114 \usrmth{AOmega}{}{argset}[\Omega]
 \Atheta ...
 \ATheta 1115 \usrmth{Atheta}{}{argset}[\theta]
        1116 \usrmth{ATheta}{}{argset}[\Theta]
\Aomicron ...
\AOmicron 1117 \usrmth{Aomicron}{}{argset}[\omicron]
        1118 \usrmth{AOmicron}{}{argset}[\Omicron]
        \SetB ...
        1120 \DeclareRobustCommand{\SetB}
        1121 {\mthset[mathbb]{B}}
   \SetF ...
        1122 \DeclareRobustCommand{\SetF}
        1123 {\mthset[mathbb]{F}}
   \SetN ...
  \verb|\SetNI| 1124 \verb|\DeclareRobustCommand{\SetN}|
             {\mthset[mathbb]{N}}
        1126 \DeclareRobustCommand{\SetNI}[1][]
        1127 {\SetN[\infty #1]}
   \SetZ ...
  \verb|\SetZI| 1128 \verb|\DeclareRobustCommand{\SetZ}|
 \SetZPI_{1129} {\tt \{mthset[mathbb]{Z}\}}
 \SetZNI 1130 \DeclareRobustCommand{\SetZI}[1][]
             {\SetZ[\pm\infty #1]}
        1131
        1132 \verb|\DeclareRobustCommand{\SetZPI}[1][]
             {\SetZ[+\infty #1]}
        1134 \DeclareRobustCommand{\SetZNI}[1][]
             {\SetZ[-\infty #1]}
   \SetQ ...
  \P 1136 \ensuremath{\sc Vector}
 \SetQPI 1137 {\mbox{mthset[mathbb]{Q}}}
 \SetQNI 1138 \DeclareRobustCommand{\SetQI}[1][]
             {\SetQ[\pm\infty #1]}
        1140 \DeclareRobustCommand{\SetQPI}[1][]
             {\SetQ[+\infty #1]}
        1142 \DeclareRobustCommand{\SetQNI}[1][]
        1143 {\SetQ[-\infty #1]}
```

```
\SetR ...
 \verb|\SetRI| 1144 \\ \verb|\DeclareRobustCommand{\SetR}|
\P1145 \quad {\mathbf{R}}
\SetRNI 1146 \DeclareRobustCommand{\SetRI}[1][]
              1147 {\SetR[\pm\infty #1]}
              1148 \DeclareRobustCommand{\SetRPI}[1][]
              1149 {\SetR[+\infty #1]}
              1150 \DeclareRobustCommand{\SetRNI}[1][]
              1151 {\SetR[-\infty #1]}
   \SetC ...
 \verb|\SetCI||_{1152} \verb|\DeclareRobustCommand{\SetC}|
                        {\mthset[mathbb]{C}}
              1154 \DeclareRobustCommand{\SetCI}[1][]
              1155 {\SetC[\infty #1]}
              \num ...
 \numcc 1157 \DeclareRobustCommand{\num}[1]
 \numco 1158 {\mth{[#1]}}
 \numoc 1159 \DeclareRobustCommand{\numcc}[2]
 \numoo 1160 {\mth{[\argsep{#1}{,}{#2}]}}
              1161 \DeclareRobustCommand{\numco}[2]
              1162 {\mth{[\argsep{#1}{,}{#2})}}
              1163 \DeclareRobustCommand{\numoc}[2]
              1164 {\mth{(\argsep{#1}{,}{#2}]}}
              1165 \DeclareRobustCommand{\numoo}[2]
              1166 {\mth{(\argsep{#1}{,}{#2}))}}
              \abs ...
   \verb| norm | 1168 \verb| DeclareRobustCommand{\abs}|
              1169 {\ifexclavar{\@eabs}{\@abs}}
              1170 \DeclareRobustCommand{\@abs}[1]
              1171 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
              1172 \DeclareRobustCommand{\@eabs}[1]
              1173 {\mth!{\argmid{\lvert}{#1}{\rvert}}}
              1174 \DeclareRobustCommand{\norm}
              1175 {\ifexclavar{\@enorm}{\@norm}}
              1176 \DeclareRobustCommand{\@norm}[1]
              1177 {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
              1178 \DeclareRobustCommand{\@enorm}[1]
              1179 {\mth!{\argmid{\lVert}{#1}{\rVert}}}
 \floor ...
   \cite{Command} \cit
                        {\ifexclavar{\@efloor}{\@floor}}
              1182 \DeclareRobustCommand{\@floor}[1]
              1183 {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
              1184 \DeclareRobustCommand{\@efloor}[1]
                        {\mth!{\argmid{\lfloor}{#1}{\rfloor}}}
              1186 \DeclareRobustCommand{\ceil}
                        {\ifexclavar{\@eceil}{\@ceil}}
              1188 \DeclareRobustCommand{\@ceil}[1]
                         {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
              1190 \DeclareRobustCommand{\@eceil}[1]
                        {\mth!{\argmid{\lceil}{#1}{\rceil}}}
              \arg ...
              1193 \usrmth{arg}{}{fun}
```

```
\evn ...
       \verb| \odd |_{1194} \verb| \usrmth{evn}{{fun}} |
           1195 \sl \{0dd}{fun}
       \bst ...
     \argbst 1196 \usrmth{bst}{}{fun}
           1197 \usrmth{argbst}{}{fun}[arg\,bst]
       \min ...
       \max_{1198} \operatorname{limin}{fun}
     \argmin 1199 \usrmth{max}{}{fun}
     \argmax 1200 \usrmth{argmin}{}{fun}[arg\,min]
           1201 \usrmth{argmax}{}{fun}[arg\,max]
       \inf ...
       \sup_{1202} \operatorname{linf}{fun}
           1203 \mbox{ }\mbox{usrmth} \mbox{sup}{{fun}}
       \gcd ...
       \verb|\label{loss}| 1204 \usrmth{gcd}{fun}|
           1205 \operatorname{lcm}{\mathrm{lcm}}{\mathrm{fun}}
           \emptyseq ...
           1207 \DeclareRobustCommand{\emptyseq}
           1208 {\mth{\varepsilon}}
       \len ...
           1209 \DeclareRobustCommand{\len}
               {\ifexclavar{\@elen}{\@len}}
           1211 \DeclareRobustCommand{\@len}[1]
           1212 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
           1213 \DeclareRobustCommand{\@elen}[1]
           1214 {\mth!{\argmid{\lvert}{#1}{\rvert}}}
       \fst ...
       \lst 1215 \usrmth{fst}{}{argfun}
           1216 \usrmth{lst}{}{argfun}
           1217 \fi
           1222 \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)
           1223 \DeclareRobustCommandx{\defcomcls}[2][2=]
               {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
```

```
\defcomclsgrp{CompClass};
```

```
\CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
\CoCompClass[sub][sup][arg] = CoCompClass_{SUB}^{SUP}(ARG)
\CompClassE[sub][sup][arg] = COMPCLASS-EASY_{SUB}^{SUP}(ARG)
\verb|\CoCompClassE[sub][sup][arg]| = CoCompClass-Easy_{SUB}^{SUP}(ARG)
\verb|\CompClassH[sub][sup][arg]| = CompClass-Hard_{SUB}^{SUP}(ARG)
\verb|\CoCompClassH[sub][sup][arg]| = \operatorname{CoCompClass-HARD}^{SUP}_{SUB}(ARG)
\CompClassC[sub][sup][arg] = COMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
\verb|\CoCompClassC[sub][sup][arg]| = CoCompClass-complete_{SUB}^{SUP}(ARG)
\verb|\DCompClass[sub][sup][arg]| = DCompClass[sub](ARG)
\verb|\CoDCompClass[sub][sup][arg]| = CoDCompClass_{SUB}^{SUP}(ARG)
\verb|\DCompClassE[sub][sup][arg]| = DComPCLASS-EASY_{SUB}^{SUP}(ARG)
\verb|\CoDCompClassE[sub][sup][arg]| = CoDCompClass-EASY_{SUB}^{SUP}(ARG)
\label{eq:decompClassH} $$ \D{\compClassH[sub][sup][arg]} = D{\ccompClass-Hard}^{SUP}_{SUB}(ARG) 
\CodCompClassH[sub][sup][arg] = CodCompClass-Hard_{SUB}^{SUP}(Arg)
\DCompClassC[sub][sup][arg] = DComPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
\CoDCompClassC[sub][sup][arg] = CoDCompClass-CompLete_{SUB}^{SUP}(ARG)
\verb|\NCompClass[sub][sup][arg]| = NCOMPCLASS_{SUB}^{SUP}(ARG)
\ConCompClass[sub][sup][arg] = ConCompClass_{SUB}^{SUP}(ARG)
\NCompClassE[sub][sup][arg] = NCompClass-Easy_{SUB}^{SUP}(ARG)
\verb|\CoNCompClassE[sub][sup][arg]| = CoNCompClass-EASY_{SUB}^{SUP}(ARG)
\label{eq:lasshard_sub} $$\N{\compClassHard}_{SUB}^{SUP}(ARG) = NCOMPCLASS-HARD_{SUB}^{SUP}(ARG)$
\verb|\ConCompClassH[sub][sup][arg]| = ConCompClass-Hard_{Sub}^{SUP}(ARG)
\NCompClassC[sub][sup][arg] = NCompClass-CompLete_{Sub}^{SUP}(ARG)
\verb|\ConCompClassC[sub][sup][arg]| = ConCompClass-Complete_{SUB}^{SUP}(ARG)
\UCompClass[sub][sup][arg] = UCompCLASS_{SUB}^{SUP}(ARG)
\CoulompClass[sub][sup][arg] = CoUCOMPCLASS_{SUB}^{SUP}(ARG)
\label{eq:UCompClassEsub} $$ [\sup] [arg] = UCOMPCLASS-EASY_{SUB}^{SUP}(ARG) $$
\CoUCompClassE[sub][sup][arg] = CoUCompClass-Easy_{SUB}^{SUP}(ARG)
\verb|\UCompClassH[sub][sup][arg]| = UCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
\CoUCompClassH[sub][sup][arg] = CoUCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
\verb|\CoUCompClassC[sub][sup][arg]| = CoUCompClass-complete_{SUB}^{SUP}(ARG)
\label{eq:accompClass} $$ [\sup] [\sup] = ACOMPCLASS_{SUB}^{SUP}(ARG) $$
\verb|\CoACompClass[sub][sup][arg]| = CoACompClass_{SUB}^{SUP}(ARG)
```

 $\triangle CompClassE[sub][sup][arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)$ $\CoACompClassE[sub][sup][arg] = CoACompClass-Easy_{SUB}^{SUP}(ARG)$ $\verb|\ACompClassH[sub][sup][arg]| = ACOMPCLASS-HARD_{SUB}^{SUP}(ARG)$ $\verb|\CoACompClassH[sub][sup][arg]| = CoACompClass-Hard_{SUB}^{SUP}(ARG)$ $\verb|\ACompClassC[sub][sup][arg]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)$ $\verb|\CoACompClassC[sub][sup][arg]| = CoACompClass-CompLete_{SUB}^{SUP}(ARG)$

• \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}^{SUP}(ARG)
\verb|\CompClassH[sub][sup][arg]| = NewClass-Hard_{SUB}^{SUP}(ARG)
\CoCompClassH[sub][sup][arg] = CoNewClass-Hard_{SUB}^{SUP}(Arg)
\label{local_complex_complex} $$\operatorname{CompClassC[sub][sup][arg]} = \operatorname{NewClass-ComplexE}_{SUB}^{SUP}(ARG)
\verb|\CoCompClassC[sub][sup][arg]| = CoNewClass-complete_{Sub}^{SUP}(ARG)
\verb|\DCompClass[sub][sup][arg]| = DNEWCLASS^{SUP}_{SUB}(ARG)
\CoDCompClass[sub][sup][arg] = CoDNewClass_{SUB}^{SUP}(ARG)
\label{eq:decompClassE} $$\D{\compClassE[sub][sup][arg]} = DNEWCLASS-EASY_{SUB}^{SUP}(ARG)
\verb|\CoDCompClassE[sub][sup][arg]| = CoDNewClass-EASY_{SUB}^{SUP}(ARG)
\label{eq:decompClassH} $$\DCompClassH[sub][sup][arg] = DNEWCLASS-HARD_{SUB}^{SUP}(ARG)$
\verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{SUB}^{SUP}(ARG)
\DCompClassC[sub][sup][arg] = DNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\NCompClass[sub][sup][arg] = NNEWCLASS_{SUB}^{SUP}(ARG)
                              \ConCompClass[sub][sup][arg] = ConNewClass_{SUB}^{SUP}(ARG)
                              \NCompClassE[sub][sup][arg] = NNEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \verb|\ConCompClassE[sub][sup][arg]| = ConNewClass-Easy_{sub}^{SUP}(ARG)
                              \verb|\NCompClassH[sub][sup][arg]| = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \verb|\ConCompClassH[sub][sup][arg]| = ConNewClass-Hard_{SUB}^{SUP}(ARG)
                              \NCompClassC[sub][sup][arg] = NNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                              \ConCompClassC[sub][sup][arg] = ConNewClass-Complete_{Sub}^{SUP}(Arg)
                              \UCompClass[sub][sup][arg] = UNEWCLASS_{SUB}^{SUP}(ARG)
                              \Coulomb Class[sub][sup][arg] = CoUNEW CLASS_{SUB}^{SUP}(ARG)
                              \verb|\UCompClassE[sub][sup][arg]| = UNEWCLASS-EASY_{SUB}^{SUP}(ARG)
                              \verb|\CoUCompClassE[sub][sup][arg]| = CoUNewClass-easy_{SUB}^{SUP}(ARG)
                              \label{eq:UCompClassH} $$ \UCompClassH[sub] [sup] [arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
                              \Coulomb ClassH[sub][sup][arg] = CoUNEW CLASS-HARD_{SUB}^{SUP}(ARG)
                              \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                              \Coulomb Class C[sub][sup][arg] = Council Co
                              \verb|\ACompClass[sub][sup][arg]| = ANEWCLASS_{SUB}^{SUP}(ARG)
                              \CoACompClass[sub][sup][arg] = CoANEWCLASS_{SUB}^{SUP}(ARG)
                              \triangle CompClassE[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)
                              \triangle CompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                              \CoACompClassC[sub][sup][arg] = CoANewClass-Complete_{SUB}^{SUP}(ARG)
                    1225 \DeclareRobustCommandx{\defcomclsgrp}[2][2=]
                                {\defcomclsgrpsem{#1}{\defval{#2}{#1}}}%
                                1228 \DeclareRobustCommandx{\defcomclsgrpsem}[3][3=]
                    1229
                               {\defcomclsgrpred{#3#1}{#2}[#3]%
                               \defcomclsgrpred{#3D#1}{#2}[#3D]%
                    1230
                               \defcomclsgrpred{#3N#1}{#2}[#3N]%
                    1231
                               \defcomclsgrpred{#3U#1}{#2}[#3U]%
                    1232
                               \defcomclsgrpred{#3A#1}{#2}[#3A]}
                    1234 \DeclareRobustCommandx{\defcomclsgrpred}[3][3=]
                               {\defcomclsgrpcmd{#1}{#2}[#3]%
                                \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                    1237
                                \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                                \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                     1239 \DeclareRobustCommandx{\defcomclsgrpcmd}[4][3=, 4=]
                               {\csdef{#1}{\txtoargcom{#3#2#4}}}
                    1240
\defcomhrc ... to do!
                           • \defcomhrc{CompHierarchy};
                              CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                           • \defcomhrc{CompHierarchy} [NewHierarchy];
                              {\tt CompHierarchy[sub][sup][par]} = {\tt NEWHIERARCHY^{SUP}_{SUB}[PAR]}
                    1241 \DeclareRobustCommandx{\defcomhrc}[2][2=]
                              {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
                    \Easy
         \verb|\Hard |_{1244} \verb|\cmdtxtcom{Easy}|
 \Complete 1245 \cmdtxtcom{Hard}
                    1246 \cmdtxtcom{Complete}
```

 $\verb|\CoDCompClassC[sub][sup][arg]| = CoDNewClass-Complete_{SUB}^{SUP}(ARG)$

```
\FPT
                                          • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
                     \FPLin
                                          \bullet \ \texttt{\fPLin[sub][sup][arg]} = \mathrm{FPL}^{\text{\tiny SUP}}_{\text{\tiny SUB}}(\text{\tiny ARG})
                     \FPQdr
                                          ullet \FPQdr[sub][sup][arg] = \mathrm{FPQ}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                     \FPCub
                                          1248 \defcomcls{FPT}
                                   1249 \defcomcls{FPLin}[FPL]
                                   1250 \defcomcls{FPQdr}[FPQ]
                                   1251 \defcomcls{FPCub}[FPC]
                                   \Time(E/H/C)
                                          TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
      \DTime(E/H/C)
                                              \verb| TimeH[sub] [sup] [arg] = TIME-HARD_{SUB}^{SUP}(ARG)
      \NTime(E/H/C)
                                              TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
      \UTime(E/H/C)
                                          \bullet \ \ \texttt{\baseline}[\mathtt{sub}][\mathtt{sup}][\mathtt{arg}] = \mathrm{DTime}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathtt{ARG})
      \ATime(E/H/C)
                                               \verb|\DTimeE[sub][sup][arg]| = \mathrm{DTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                                               \verb|\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)
                                               \NTimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
                                              \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                                              \texttt{NTimeC[sub][sup][arg]} = \text{NTIME-COMPLETE}_{\text{SUB}}^{\text{SUP}}(\text{ARG})
                                          • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
                                               \UTimeE[sub][sup][arg] = UTIME-EASY_{SUB}^{SUP}(ARG)
                                               \verb|\UTimeH[sub][sup][arg]| = \mathrm{UTIME-HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                                              \verb|\UTimeC[sub][sup][arg]| = \mathrm{UTIME\text{-}COMPLETE}^{SUP}_{SUB}(ARG)
                                          • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
                                               \Delta TimeE[sub][sup][arg] = ATIME-EASY_{SUB}^{SUP}(ARG)
                                              \Delta TimeH[sub][sup][arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
                                              \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                                   1253 \defcomclsgrp{Time}
                                          • Space[sub][sup][arg] = Space[Sub](ARG)
      \Space(E/H/C)
                                               \verb|SpaceE[sub][sup][arg]| = SPACE-EASY_{SUB}^{SUP}(ARG)
    \DSpace(E/H/C)
                                               \SpaceH[sub][sup][arg] = SPACE-HARD_{SUB}^{SUP}(ARG)
    \NSpace(E/H/C)
                                               \SpaceC[sub][sup][arg] = SPACE-COMPLETE_{SUB}^{SUP}(ARG)
    \USpace(E/H/C)
                                           \bullet \ \texttt{\backless{top}[sub][sup][arg]} = \mathrm{DSPACE}^{SUP}_{SUB}(ARG) 
    \ASpace(E/H/C)
                                               \texttt{\DSpaceE[sub][sup][arg]} = \mathrm{DSPACE\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                                               \texttt{\DSpaceH[sub][sup][arg]} = \mathrm{DSPACE\text{-}HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                                               \DSpaceC[sub][sup][arg] = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                          • \NSpace[sub][sup][arg] = NSPACE_{SUB}^{SUP}(ARG)
                                               \verb|\NSpaceE[sub][sup][arg]| = NSPACE-EASY_{SUB}^{SUP}(ARG)
                                               \verb|\NSpaceH[sub][sup][arg]| = NSPACE-HARD_{SUB}^{SUP}(ARG)
                                               \NSpaceC[sub][sup][arg] = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                          • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
                                               \USpaceE[sub][sup][arg] = USPACE-EASY_{SUB}^{SUP}(ARG)
                                               \USpaceH[sub][sup][arg] = USPACE-HARD_{SUB}^{SUP}(ARG)
                                               \USpaceC[sub][sup][arg] = USPACE-COMPLETE_{SUR}^{SUP}(ARG)
                                          • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                                               \verb|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)
                                   1254 \ensuremath{\mbox{\sc loss}}\ensuremath{\mbox{\sc l
                                           \bullet \ \texttt{\logTime[sub][sup][arg]} = \mathrm{LogTime}^{SUP}_{SUB}(ARG) 
 \LogTime(E/H/C)
                                              \verb|\LogTimeE[sub][sup][arg]| = \operatorname{LogTime-EASY}^{SUP}_{SUB}(ARG)
\DLogTime(E/H/C)
                                               \LogTimeH[sub][sup][arg] = LogTime-Hard_{SUB}^{SUP}(Arg)
\NLogTime(E/H/C)
                                               \verb|\LogTimeC[sub][sup][arg]| = \operatorname{LogTime-COMPLETE}^{SUP}_{SUB}(ARG)
\ULogTime(E/H/C)
```

\ALogTime(E/H/C)

```
\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)
                             \label{eq:nlogTimeE} $$\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)
                             \ULogTimeE[sub][sup][arg] = ULogTime-EASY_{SUB}^{SUP}(ARG)
                             \ULogTimeH[sub][sup][arg] = ULogTime-HARD_{SUB}^{SUP}(ARG)
                             \ULogTimeC[sub][sup][arg] = ULogTime-COMPLETE_{SUB}^{SUP}(ARG)
                          • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                             \verb|\ALogTimeE[sub][sup][arg]| = \mathrm{ALogTime\text{-}EASY}^{SUP}_{SUB}(ARG)
                             \verb|\ALogTimeH[sub][sup][arg]| = ALOGTIME-HARD_{SUB}^{SUP}(ARG)
                             ALogTimeC[sub][sup][arg] = ALogTime-Complete_{SUB}^{SUP}(ARG)
                      1255 \defcomclsgrp{LogTime}
                          • LogSpace[sub][sup][arg] = LogSpace_{SUB}^{SUP}(ARG)
 \LogSpace(E/H/C)
                             \LogSpaceE[sub][sup][arg] = LogSpace-Easy_{SUB}^{SUP}(ARG)
\DLogSpace(E/H/C)
                             \LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(ARG)
\NLogSpace(E/H/C)
                             LogSpaceC[sub][sup][arg] = LogSpace-Complete_{Sub}^{SUP}(ARG)
\ULogSpace(E/H/C)
                          • \DLogSpace[sub][sup][arg] = DLogSpace_{SUB}^{SUP}(ARG)
\ALogSpace(E/H/C)
                             \verb|\DLogSpaceE[sub][sup][arg]| = DLogSpace-Easy_{SUB}^{SUP}(ARG)
                             \verb|\DLogSpaceH[sub][sup][arg]| = DLogSpace-Hard_{SUB}^{SUP}(ARG)
                             \DLogSpaceC[sub][sup][arg] = DLogSpace-Complete_{SUB}^{SUP}(ARG)
                          • \NLogSpace[sub][sup][arg] = NLogSpace[sub](ARG)
                             \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                             \NLogSpaceH[sub][sup][arg] = NLogSpace-Hard_{SUB}^{SUP}(ARG)
                             \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(ARG)
                          • \ULogSpace[sub][sup][arg] = ULogSpace_{SUB}^{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)
                          • ALogSpace[sub][sup][arg] = ALogSpace_{SUB}^{SUP}(ARG)
                             \ALogSpaceE[sub][sup][arg] = ALogSpace-Easy_{SUB}^{SUP}(ARG)
                             \verb|\ALogSpaceH[sub][sup][arg]| = ALogSpace-Hard_{SUB}^{SUP}(ARG)
                             ALogSpaceC[sub][sup][arg] = ALogSpace-Complete_{Sub}^{SUP}(Arg)
                      1256 \defcomclsgrp{LogSpace}
                          • \P [sub] [sup] [arg] = PTIME_{SUB}^{SUP}(ARG)
    \PTime(E/H/C)
                             \label{eq:ptimeEsub} $$ \Pr[\sup] [arg] = \Pr[ME-EASY_{SUB}^{SUP}(ARG)] $$
   \DPTime(E/H/C)
                             \verb|\PTimeH[sub][sup][arg]| = PTime-HARD_{SUB}^{SUP}(ARG)
   \NPTime(E/H/C)
                             \P [sub] [sup] [arg] = P TIME-COMPLETE ^{SUP}_{SUB} (ARG)
   \UPTime(E/H/C)
                          • \DPTime[sub][sup][arg] = DPTIME_{SUB}^{SUP}(ARG)
   \APTime(E/H/C)
                             \DPTimeE[sub][sup][arg] = DPTIME-EASY_{SUB}^{SUP}(ARG)
                             \verb|\DPTimeH[sub][sup][arg]| = \mathrm{DPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                             \texttt{DPTimeC[sub][sup][arg]} = \text{DPTIME-COMPLETE}_{\text{SUB}}^{\text{SUP}}(\text{ARG})
                          • \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                            \label{eq:nptimeEsub} $$ \PTIME-EASY_{SUB}^{SUP}(ARG) = NPTIME-EASY_{SUB}^{SUP}(ARG) $$
                             \verb|\NPTimeH[sub][sup][arg]| = NPTIME-HARD_{SUB}^{SUP}(ARG)
                            \verb|\NPTimeC[sub][sup][arg]| = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          • \UPTime[sub][sup][arg] = UPTIME_{SUB}^{SUP}(ARG)
                             \verb|\UPTimeE[sub][sup][arg]| = \mathrm{UPTIME\text{-}EASY}^{SUP}_{SUB}(ARG)
                             \verb|\UPTimeH[sub][sup][arg]| = UPTIME-HARD_{SUB}^{SUP}(ARG)
                             \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          • APTime[sub][sup][arg] = APTIME_{SUB}^{SUP}(ARG)
                             \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(\operatorname{ARG})
                            \APTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                            \verb| APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      1257 \defcomclsgrp{PTime}
```

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

 $\verb|\DLogTimeE[sub][sup][arg]| = DLogTime-EASY_{SUB}^{SUP}(ARG)$

```
\PSpace(E/H/C)
                           • \PSpace[sub][sup][arg] = PSPACE_{SUB}^{SUP}(ARG)
                             \verb|\PSpaceE[sub][sup][arg]| = PSPACE-EASY_{SUB}^{SUP}(ARG)
 \DPSpace(E/H/C)
                             \label{eq:pspaceH} $$ \PSpaceH[sub] [sup] [arg] = PSpace-HARD_{SUB}^{SUP}(ARG) 
 \NPSpace(E/H/C)
                             \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
 \UPSpace(E/H/C)
                           • \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
 \APSpace(E/H/C)
                             \label{eq:decomposition} $$ \DPSpaceE[sub][sup][arg] = DPSpace-EASY_{SUB}^{SUP}(ARG) $$
                             \label{eq:decomposition} $$ \DPSpaceH[sub][sup][arg] = DPSpace-HARD_{SUB}^{SUP}(ARG) $$
                             \label{eq:def:DPSpaceC[sub] sup of the definition} \begin{center} [\tt Sup] [\tt arg] = DPSPACE-COMPLETE^{SUP}_{SUB}(ARG) \end{center}
                           • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                             \NPSpaceE[sub][sup][arg] = NPSPACE-EASY_{SUB}^{SUP}(ARG)
                             \label{eq:NPSpaceH} $$ \NPSpaceH[sub] [sup] [arg] = NPSpace-HARD_{SUB}^{SUP}(ARG) $$
                             \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                           • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                             \label{eq:upspace} $$ \UPSPACE-EASY_{SUB}^{SUP}(ARG) = UPSPACE-EASY_{SUB}^{SUP}(ARG) $$
                             \verb|VPSpaceH[sub][sup][arg]| = UPSPACE-HARD_{SUB}^{SUP}(ARG)
                             \UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                           \bullet \ \ \texttt{APSpace[sub][sup][arg]} = \mathrm{APSpace}^{SUP}_{SUB}(ARG)
                             \verb|\APSpaceE[sub][sup][arg]| = APSPACE-EASY_{SUB}^{SUP}(ARG)
                             \verb|\APSpaceH[sub][sup][arg]| = APSPACE-HARD_{SUB}^{SUP}(ARG)
                             \label{eq:apsilon} $$ APSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                       1258 \defcomclsgrp{PSpace}
                           • \QPTime[sub][sup][arg] = QPTIME_{SUB}^{SUP}(ARG)
  \QPTime(E/H/C)
                             \label{eq:QPTimeEsub} $$ \PTIME-EASY_{SUB}^{SUP}(ARG) = QPTIME-EASY_{SUB}^{SUP}(ARG) $$
 \DQPTime(E/H/C)
                             \verb|\QPTimeH[sub][sup][arg]| = \mathrm{QPTIME}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
 \NQPTime(E/H/C)
                             \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
 \UQPTime(E/H/C)
 \AQPTime(E/H/C)
                           • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                             \verb|\DQPTimeE[sub][sup][arg]| = DQPTIME-EASY_{SUB}^{SUP}(ARG)
                             \verb|\DQPTimeH[sub][sup][arg]| = \mathrm{DQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                             \DQPTimeC[sub][sup][arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                           • \NQPTime[sub][sup][arg] = NQPTIME_{SUB}^{SUP}(ARG)
                             \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                             \verb|\NQPTimeH[sub][sup][arg]| = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                             \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                           \verb|VQPTimeE[sub][sup][arg]| = \mathrm{UQPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                             \verb|VQPTimeH[sub][sup][arg]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                             \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                           • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                             \texttt{AQPTimeE[sub][sup][arg]} = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                             \Lambda QPTimeH[sub][sup][arg] = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                             \AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      1259 \defcomclsgrp{QPTime}
                           • \QPSpace[sub][sup][arg] = QPSPACE_{SUB}^{SUP}(ARG)
 \QPSpace(E/H/C)
                             \label{eq:QPSpace} $$ \QPSpace[sub] [sup] [arg] = QPSpace-EASY_{SUB}^{SUP}(ARG) $$
\DQPSpace(E/H/C)
                             \verb|\QPSpaceH[sub][sup][arg]| = QPSPACE-HARD_{SUB}^{SUP}(ARG)
\NQPSpace(E/H/C)
                             \label{eq:QPSpaceCsub} $$ \PPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
\UQPSpace(E/H/C)
\AQPSpace(E/H/C)
                           • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                             \verb|\DQPSpaceE[sub][sup][arg]| = \mathrm{DQPSPACE\text{-}EASY}^{SUP}_{SUB}(ARG)
                             \verb|\DQPSpaceH[sub][sup][arg]| = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                             \DQPSpaceC[sub][sup][arg] = DQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                           • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                             \verb|NQPSpaceE[sub][sup][arg]| = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                             \NQPSpaceH[sub][sup][arg] = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                             \NQPSpaceC[sub][sup][arg] = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                           • \UQPSpace[sub][sup][arg] = UQPSPACE_{SUB}^{SUP}(ARG)
                             \verb|VQPSpaceE[sub][sup][arg]| = \mathrm{UQPSPACE\text{-}EASY}^{SUP}_{SUB}(ARG)
                             \UQPSpaceH[sub][sup][arg] = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                             \UQPSpaceC[sub][sup][arg] = UQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
```

```
\verb|\AQPSpaceH[sub][sup][arg]| = AQPSpace-Hard_{SUB}^{SUP}(ARG)
                            \texttt{AQPSpaceC[sub][sup][arg]} = AQPSPACE\text{-}COMPLETE^{SUP}_{SUB}(ARG)
                      1260 \defcomclsgrp{QPSpace}
  \ExpTime(E/H/C)
                          \bullet \ \texttt{\baseline{targ}[sub][sup][arg]} = \mathrm{ExpTime}^{SUP}_{SUB}(ARG)
                            \texttt{\colored}[sub][sup][arg] = EXPTIME-EASY_{SUB}^{SUP}(ARG)
 \DExpTime(E/H/C)
                            \texttt{\colored}[sub][sup][arg] = EXPTIME-HARD_{SUB}^{SUP}(ARG)
 \NExpTime(E/H/C)
                            \ExpTimeC[sub][sup][arg] = EXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
 \UExpTime(E/H/C)
 \AExpTime(E/H/C)
                          • \DExpTime[sub][sup][arg] = DEXPTIME_{SUB}^{SUP}(ARG)
                            \texttt{DExpTimeE[sub][sup][arg]} = DEXPTIME-EASY_{SUB}^{SUP}(ARG)
                            \DExpTimeH[sub][sup][arg] = DEXpTIME-HARD_{SUB}^{SUP}(ARG)
                            \DExpTimeC[sub][sup][arg] = DEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          • \NExpTime[sub][sup][arg] = NEXPTIME_{SUB}^{SUP}(ARG)
                            \label{eq:new_new_sup} $$ \NEXPTIME-EASY_{SUB}^{SUP}(ARG) = NEXPTIME-EASY_{SUB}^{SUP}(ARG) $$
                            \NExpTimeH[sub][sup][arg] = NEXPTIME-HARD_{SUB}^{SUP}(ARG)
                            \NExpTimeC[sub][sup][arg] = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          \UExpTimeE[sub][sup][arg] = UEXPTIME-EASY_{SUB}^{SUP}(ARG)
                            \UExpTimeH[sub][sup][arg] = UEXPTIME-HARD_{SUB}^{SUP}(ARG)
                            \UExpTimeC[sub][sup][arg] = UEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          \bullet \ \texttt{\ \ } \texttt{LargTime[sub][sup][arg]} = AEXPTIME^{SUP}_{SUB}(ARG)
                            \verb|\AExpTimeE[sub][sup][arg]| = AEXPTIME-EASY_{SUB}^{SUP}(ARG)
                            \Delta ExpTimeH[sub][sup][arg] = AEXPTIME-HARD_{SUB}^{SUP}(ARG)
                            \triangle ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      1261 \defcomclsgrp{ExpTime}
                          \bullet \ \texttt{\backless{lemb}[sup][arg]} = \mathrm{ExpSpace[Sup](ARG)}
\ExpSpace(E/H/C)
                            \ExpSpaceE[sub][sup][arg] = ExpSpace-Easy_{SUB}^{SUP}(ARG)
\DExpSpace(E/H/C)
                            \ExpSpaceH[sub][sup][arg] = ExpSpace-Hard_{SUB}^{SUP}(ARG)
\NExpSpace(E/H/C)
                            \ExpSpaceC[sub][sup][arg] = ExpSpace-Complete_{SUB}^{SUP}(ARG)
\UExpSpace(E/H/C)
\AExpSpace(E/H/C)
                          \bullet \ \ \texttt{\ \ } \texttt{[sup][arg]} = DExpSpace[\texttt{Sup}(Arg)
                            \label{eq:decomposition} $$ \DExpSpaceE[sub][sup][arg] = DExpSpace-Easy_{SUB}^{SUP}(ARG) $$
                            \verb|\DExpSpaceH[sub][sup][arg]| = DEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                            \label{eq:decomplete_sup} $$ \DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                          \bullet \ \ \texttt{NExpSpace[sub][sup][arg]} = \ \ \texttt{NExpSpace}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{Arg})
                            \NExpSpaceE[sub][sup][arg] = NEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                            \NExpSpaceH[sub][sup][arg] = NEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                            \label{eq:new_power_sub} $$ \NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                          • \UExpSpace[sub][sup][arg] = UExpSpace_{SUB}^{SUP}(ARG)
                            \UExpSpaceE[sub][sup][arg] = UExpSpace-Easy_{SUB}^{SUP}(ARG)
                            \label{eq:uexpSpaceH} $$ \UExpSpaceH[sub][sup][arg] = UExpSpace-HARD_{SUB}^{SUP}(ARG) $$
                            \label{eq:uexpspaceC} $$ \UExpSpaceC[sub][sup] [arg] = UExpSpace-Complete_{SUB}^{SUP}(ARG) $$
                          • \Delta ExpSpace[sub][sup][arg] = AExpSpace_{SUB}^{SUP}(ARG)
                            \Delta ExpSpaceE[sub][sup][arg] = AEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                            \Delta ExpSpaceH[sub][sup][arg] = AExpSpace-Hard_{SUB}^{SUP}(ARG)
                            \AExpSpaceC[sub][sup][arg] = AExpSpace-Complete_{Sub}^{SUP}(Arg)
                      1262 \defcomclsgrp{ExpSpace}
                      \PH
                          • \PH[sub][sup][par] = PH<sup>SUP</sup><sub>SUB</sub>[PAR]
                      1264 \defcomhrc{PH}
                          \WH
                      1265 \defcomhrc{WH}[W]
                 \AH
                          ullet \AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
```

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

 $\verb|AQPSpaceE[sub][sup][arg]| = AQPSPACE-EASY_{SUB}^{SUP}(ARG)$

1266 \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}]
      1267 \defcomhrc{DLH}[{\mth{\Delta}}]
      1268 \defcomhrc{DBH}[{\mth[mathbf]{\Delta}}]
        ullet \ELH[sub][sup][par] = \Sigma_{
m SUB}^{
m SUP}[{
m PAR}]
  \ELH
  \EBH
        ullet \EBH[sub][sup][par] = oldsymbol{\Sigma}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
      1269 \defcomhrc{ELH}[{\mth{\Sigma}}]
      1270 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
        ullet \ULH[sub][sup][par] = \Pi^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
  \ULH
  \UBH
        ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
      1271 \defcomhrc{ULH}[{\mth{\Pi}}]
      1272 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
      1273 \fi
      1278 \ifgrp@
      \GrpName ...
   ··· 1280 \newcommand{\grpname}{G}
      1281 \usrmthlatupp{Grp}{Name}{name}[\grpname]
\VerSet ...
   ··· 1282 \newcommand{\versym}{v}
      1283 \newcommand{\verset}{V}
      1284 \cmdmthsetext{Ver}[\verset][\versym]
      1285 \cmdmthsymelm{iver}[\versym_{I}]
      1286 \cmdmthsymelm{fver}[\versym_{F}]
\EdgRel ...
      1287 \newcommand{\edgrel}{E}
      1288 \cmdmthrel{Edg}[\edgrel]
      \PthSet ...
\pthFun _{1290} \newcommand{\pthsym}{\pi}
      1291 \neq \{Pth\}
      1292 \cmdmthsetext{Pth} [\pthset] [\pthsym]
      1293 \usrmth{path}{}{argfun}
  \pre ...
   \suc _{1294} \usrmth{pre}{}{oargfun}
      1295 \usrmth{suc}{}{oargfun}
      1296 \fi
      1299 %%** Macros for Games *************************
      1301 \ifgam@
```

```
\SATG ...
                 \cdots 1303 %% Satisfiability Games
                           1304 \cmdtxtoparname{SATG}[Sat]
                           1306\ \mbox{\em \%}\ \mbox{\em Validity Games}
                           1307 \cmdtxtoparname{VALG}[Val]
                           1308
                           1309 %% Evaluation Games
                           1310 \cmdtxtoparname{EVLG}[Evl]
                           1311
                           1312 %% Synthesis Games
                           1313 \cmdtxtoparname{SYNG}[Syn]
                           1315 %% Model-Checking Games
                           1316 \verb|\cmdtxtoparname{MCG}| [MC]|
                           1318 %% Ehrenfeucht-Fraisse Games
                           1319 \cmdtxtoparname{EFG}[EF]
                           \PlrSym ...
      \position 1321 \pos
                           1322 \cmdmthsym{Plr}[\plrsym]
                           1323 \newcommand{\oppsym}{A}
                           1324 \cmdmthsym{Opp}[\oppsym]
\ArenaName ...
                 \cdots 1325 \newcommand{\arenaname}{A}
                           1326 \verb|\arena| \{ \texttt{Name} \} \{ \texttt{(name)} \} [ \texttt{(name)} \} [ \texttt{(name)} \} [ \texttt{(name)} ]
       \PosSet ...
                 \cdots 1327 \newcommand{\possym}{v}
                           1328 \mbox{ \newcommand{\posset}{Ps}}
                           1329 \cmdmthsetext{Pos}[\posset][\possym]
                           1330 \verb|\cmdmthsymelm{ipos}[\possym_{I}]|
                           1331 \cmdmthsymelm{fpos}[\possym_{F}]
                           1332 \verb|\cmdmthset{PPos}[\posset_{\prop}]
                           1333 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                           1334 \cmdmthset{OPos}[\posset_{\OppSym}]
                           1335 \cmdmthsymelm{opos}[\possym_{\OppSym}]
      \PlrFun ...
                           1336 \newcommand{\plrfun}{pl}
                           1337 \cmdmthfun{plr}[\plrfun]
       \MovRel ...
                           1338 \newcommand{\movrel}{Mv}
                           1339 \cmdmthrel{Mov}[\movrel]
  \GameName ...
                 · · · 1340 \newcommand{\gamename}{\Game}
                           1341 \usrmthlatupp{Game}{Name}{name}[\gamename]
       \WinSet ...
                           1342 \newcommand{\winset}{Wn}
                           1343 \cmdmthset{Win}[\winset]
       \ObsSet ...
       \obsFun _{1344} \newcommand{\obsset}{0b}
                           1345 \cmdmthset{Obs}[\obsset]
                           1346 \cmdmthfun{obs}
```

```
\HstSet ...
     · · · 1348 \newcommand{\hstsym}{\varpi}
        1349 \newcommand{\hstset}{Hst}
        1350 \cmdmthsetext{Hst}[\hstset][\hstsym]
        1351 \cmdmthset{PHst}[\hstset_{\PlrSym}]
        1352 \verb|\cmdmthsymelm{phst}[\hstsym_{\propto}]|
        1353 \cmdmthset{OHst}[\hstset_{\OppSym}]
        1354 \cmdmthsymelm{ohst}[\hstsym_{\cmdmthsymelm}]
        1355 \usrmth{play}{}{argfun}
\PlaySet ...
\verb|\playFun $_{1356} \le \mbox{\playsym}{\pi} 
        1357 \mbox{\newcommand{\playset}{Play}}
        1358 \verb|\cmdmthsetext{Play}[\playset][\playsym]|
        1359 \usrmth{hst}{}{argfun}
\StrSet ...
     ··· 1360 \newcommand{\strsym}{\sigma}
        1361 \newcommand{\strset}{Str}
        1362 \cmdmthsetext{Str}[\strset][\strsym]
        1363 \cmdmthset{PStr}[\strset_{\PlrSym}]
        1364 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
         1365 \cmdmthset{OStr}[\strset_{\OppSym}]
        1366 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet ...
 \prfFun _{1367} \newcommand{\prfsym}{\xi}
        1368 \newcommand{\prfset}{Prf}
        1369 \cmdmthsetext{Prf}[\prfset][\prfsym]
    \ent ...
    \esc _{1370} \usrmth{ent}{}{oargfun}
        1371 \usrmth{esc}{}{oargfun}
    \int ...
    \out 1372 \usrmth{int}{}{oargfun}
        1373 \usrmth{out}{}{oargfun}
    \atr ...
   \rch _{1374} \ \text{usrmth} \{atr} \{\} \{oargfun\}
        1375 \usrmth{rch}{}{oargfun}
  \lift ...
        1376 \usrmth{lift}{}{oargfun}
    \sol ...
        1377 \usrmth{sol}{}{oargfun}
        \BG ...
     · · · 1379 %% Buchi Games
        1380 \cmdtxtoparname{BG}
        1381
        1382 %% Co-Buchi Games
        1383 \cmdtxtoparname{CG}
        1384
        1385 %% Parity Games
        1386 \cmdtxtoparname{PG}
        1388 %% Rabin Games
```

```
1389 \cmdtxtoparname{RG}
    1391 %% Streett Games
    1392 \cmdtxtoparname{SG}
    1394 %% Muller Games
    1395 \cmdtxtoparname{MG}
    \EvnSym ...
\verb|\dSym|_{1397} \verb|\newcommand{\evnsym}{0}|
    1398 \cmdmthsym{Evn}[\evnsym]
    1399 \newcommand{\oddsym}{1}
    1400 \cmdmthsym{Odd}[\oddsym]
\PrtSet ...
\label{lem:prtFun} $$ \prod_{1401} \geq {\rm mand}{\rm prtsym}\{p\}$
    1402 \mbox{ \newcommand{\prtset}{Pr}}
    1403 \mbox{ \cmdmthsetext{Prt} [\prtset] [\prtsym]}
    1404 \cmdmthfun{prt}[pr]
    \EG ...
  · · · 1407 %% Energy Games
    1408 \cmdtxtoparname{EG}
    1410 %% Mean-Payoff Games
    1411 \cmdtxtoparname{MPG}
    1412
    1413 %% Discounted-Payoff Games
    1414 \cmdtxtoparname{DPG}
    \MaxSym ...
1417 \cmdmthsym{Max}[\maxsym]
    1418 \mbox{ \newcommand{\minsym}{\boxminus}}
    1419 \cmdmthsym{Min}[\minsym]
\WghSet ...
1421 \mbox{newcommand{\wghset}{\wg}}
    1422 \verb|\cmdmthsetext{Wgh}| [\verb|\wghset|]| [\verb|\wghsym|]|
    1423 \cmdmthfun{wgh}[wg]
    1425 \fi
    1430 \iflog@
```

```
\BF ...
   \QBF _{1432} % Boolean Formulae
    · · · 1433 \cmdtxtoparname{BF}
         1435\ \% Quantified Boolean Formulae
         1436 \DeclareRobustCommand{\QBF}
              {\{\text{txtname}\{Q\}\}\setminus BF\}}
         1438 \DeclareRobustCommand{\EBF}
               {\ensuremath{\exists}\BF}
         1440 \DeclareRobustCommand{\UBF}
              {\ensuremath{\forall}\BF}
         \LogSig ...
    \cdots 1443 \newcommand{\logsig}{L}
         1444 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
    \Tt ...
    \label{final} $$ \P_{1445 \rightarrow 1445} \rightarrow {\tilde{\tau}}_{1445} \
         1446 \operatorname{Tt}{sym}[\operatorname{ttsym}]
         1447 \newcommand{\ffsym}{\bot}
         1448 \operatorname{ff}{sym}[fsym]
  \LNeg ...
  \LNot _{1449} \ensuremath{\lngsym}{\lng}
         1450 \usrmth{LNeg}{}{luop}[\lnegsym]
         1451 \mbox{ }\mbox{lnotsym}{\mbox{sim}}
         1452 \usrmth{LNot}{}{luop}[\lnotsym]
  \LCon ...
  \LDis _{1453} \rightarrow _{1453} \rightarrow _{1453}
         1454 \usrmth{LCon}{}{lbop}[\lconsym]
         1455 \mbox{ \newcommand{\ldissym}{\lor}}
         1456 \verb|\usrmth{LDis}{{}}[\dissym]
  \LImp ...
  \verb|\LCoi|_{1457} \verb|\newcommand{\limpsym}{{\newcommand}}
         1458 \usrmth{LImp}{}{lbop}[\limpsym]
         1459 \newcommand{\lcoisym}{\leftrightarrow}
         1460 \usrmth{LCoi}{}{lbop}[\lcoisym]
  \LExs ...
  \LAll _{1461} \rightarrow _{1461} \rightarrow _{1461}
         1462 \usrmth{LExs}{}{luop}[\lexssym]
         1463 \newcommand{\lallsym}{\forall}
         1464 \usrmth{LAll}{}{luop}[\lallsym]
 \APSet ...
    \cdots 1465 \newcommand{\apsym}{p}
         1466 \mbox{ } \mbox{apset}{AP}
         1467 \cmdmthsetext{AP}[\apset][\apsym]
         1468 \usrmth{ap}{}{argfun}
   \sub ...
         1469 \mbox{ \norm} {sub}{{argfun}}
   \Cnt ...
   \Qnt_{1470} \sym{Cnt}{sym}[C]
   \S_{1471 \setminus Sym 1471 \setminus Sym}[Q]
         1472 \operatorname{Sym}{{\text{sym}}[\cdot]}
```

```
\QAE ...
   \label{eq:QEA} $$ \QEA _{1473} \xspace $$ 1473 \xspace $$ (QAE)_{sym}[\xspace ] $$
       1474 \verb|\usrmth{QEA}{{}} sym{[\exists\forall]}
\QntSet ...
    · · · 1475 \newcommand{\qntsym}{\wp}
       1476 \mbox{ } \mbox{qntset}{Qn}
       1477 \cmdmthsetext{Qnt}[\qntset][\qntsym]
  \free ...
 \bound _{1478} \usrmth{free}{}{argfun}
       1479 \usrmth{bound}{}{argfun}
   \dep ...
   \alt _{1480} \t ep}{{argfun}}
       1481 \usrmth{alt}{}{argfun}
   \cnf ...
   \dnf _{1482} \cmdtxtabr{cnf}
    ... 1483 \cmdtxtabr{dnf}
       1484 \cmdtxtabr{pnf}
       1485 \cmdtxtabr{nnf}
       \LogStr ...
    · · · 1487 \newcommand{\logstr}{L}
       1488 \usrmthlatupp{Log}{Str}{str}[\logstr]
\ValSet ...
    · · · 1489 \newcommand{\valsym}{\xi}
        1490 \newcommand{\valset}{Val}
       1491 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet ...
    \cdots 1492 \verb|\newcommand{\asgsym}{\chi}|
       1493 \newcommand{\asgset}{Asg}
       1494 \cmdmthsetext{Asg}[\asgset][\asgsym]
       \FOL ...
    · · · 1496 % First-Order Logic
       1497 \cmdtxtoparname{FOL}[Fol]
       1498 \cmdtxtoparname{F0}[F0]
       1500 % Monadic First-Order Logic
       1501 \DeclareRobustCommand{\MFOL}
       1502 \quad \{\{\text{txtname}\{M\}\}\} \setminus FOL\}
       1503 \DeclareRobustCommand{\MFO}
       1504 \quad \{\{\text{txtname}\{M\}\}\} \}
       \VarSig ...
    · · · 1506 \newcommand{\varsig}{V}
       1507 \verb|\usrmth|| atupp{\Var}{Sig}{sig}[\varsig]
       1508 \newcommand{\varsym}{x}
       1509 \newcommand{\varset}{Vr}
       1510 \cmdmthsetext{Var}[\varset][\varsym]
       1511 \usrmth{var}{}{argfun}[vr]
       1512 \usrmth{dim}{}{argfun}[dm]
```

```
\ConSig ...
    \cdots 1513 \newcommand{\consig}{C}
       1514 \usrmthlatupp{Con}{Sig}{sig}[\consig]
       1515 \newcommand{\consym}{c}
       1516 \newcommand{\conset}{Cn}
        1517 \cmdmthsetext{Con}[\conset][\consym]
       1518 \usrmth{con}{}{argfun}[cn]
\FunSig ...
    · · · 1519 \newcommand{\funsig}{F}
       1520 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
       1521 \newcommand{\int funsym}{f}
        1522 \mbox{ \newcommand{\funset}{Fn}}
        1523 \cmdmthsetext{Fun}[\funset][\funsym]
        1524 \usrmth{fun}{}{argfun}[fn]
        1525 \usrmth{art}{}{argfun}[ar]
\TerSig ...
    \cdots 1526 \newcommand{\tersig}{T}
        1527 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
        1528 \mbox{ } \mbox{newcommand{\tersym}{t}}
        1529 \newcommand{\terset}{Tr}
        1530 \cmdmthsetext{Ter}[\terset][\tersym]
        1531 \usrmth{ter}{}{argfun}
\RelSig ...
    · · · 1532 \newcommand{\relsig}{R}
        1533 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
        1534 \mbox{ } \mbox{newcommand{\relsym}{r}}
        1535 \newcommand{\relset}{Rl}
        1536 \cmdmthsetext{Rel}[\relset][\relsym]
        1537 \usrmth{rel}{}{argfun}[rl]
   \skm ...
        1538 \usrmth{skm}{}{argfun}
        \verb|\ConStr ...
    \cdots 1540 \newcommand{\constr}{C}
        1541 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr ...
    \cdots 1542 \newcommand{\funstr}{F}
        1543 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr ...
    ··· 1544 \newcommand{\terstr}{T}
        1545 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr ...
    \cdots 1546 \newcommand{\relstr}{R}
        1547 \usrmthlatupp{Rel}{Str}{str}[\relstr]
        \DF ...
    \IF 1549 % Dependence-Friendly Logic
    · · · 1550 \cmdtxtoparname{DF}
        1552 % Independence-Friendly Logic
        1553 \cmdtxtoparname{IF}
        1554
```

```
1555 % Dependence/Independence-Friendly Logic
      1556 \cmdtxtoparname{DIF}
      1557
      1558 % Dependence Logic
      1559 \cmdtxtoparname{DL}
     1560
      1561 % Team Logic
      1562 \cmdtxtoparname{TL}
      1564 % Alternating Dependence-Friendly Logic
      1565 \cmdtxtoparname{ADF}
      1567 % Alternating Independence-Friendly Logic
      1568 \cmdtxtoparname{AIF}
     1569
      1570\ \% Alternating Dependence/Independence-Friendly Logic
      1571 \cmdtxtoparname{ADIF}
      \LEExs ...
\LAAll _{1573} \newcommand{\leexssym}{\Sigma}
      1574 \usrmth{LEExs}{}{luop}[\leexssym]
      1575 \newcommand{\laallsym}{\Pi}
      1576 \usrmth{LAA11}{}{luop}[\laallsym]
      \SOL ...
  · · · 1579 % Second-Order Logic
      1580 \cmdtxtoparname{SOL}[Sol]
      1581 \cmdtxtoparname{SO}
      1583 % Weak Second-Order Logic
      1584 \DeclareRobustCommand{\WSOL}
          {{\txtname{W}}\SOL}
      1586 \DeclareRobustCommand{\WSO}
          {\{\text{txtname}\{W\}}\S0\}
     1587
      1588
      1589 % coWeak Second-Order Logic
      1590 \DeclareRobustCommand{\coWSOL}
           {{\txtname{coW}}\SOL}
      1592 \DeclareRobustCommand{\coWSO}
      1593
          {{\txtname{coW}}\SO}
      1594
      1595 % Monadic Second-Order Logic
      1596 \DeclareRobustCommand{\MSOL}
           {{\txtname{M}}\SOL}
      1598 \DeclareRobustCommand{\MSO}
           {{\txtname{M}}\SO}
     1599
      1601 % Weak Monadic Second-Order Logic
      1602 \DeclareRobustCommand{\WMSOL}
          {{\txtname{W}}\MSOL}
      1604 \DeclareRobustCommand{\WMSO}
           {{\txtname{W}}\MSO}
      1605
      1607 % coWeak Monadic Second-Order Logic
      1608 \verb|\DeclareRobustCommand{\coWMSOL}|
          {{\txtname{coW}}\MSOL}
```

```
1610 \DeclareRobustCommand{\coWMSO}
            {{\txtname{coW}}\MSO}
        \FVarSet ...
    · · · 1613 \newcommand{\fvarsym}{x}
        1614 \newcommand{\fvarset}{FVr}
        1615 \cmdmthsetext{FVar} [\fvarset] [\fvarsym]
\SVarSet ...
    · · · 1616 \newcommand{\svarsym}{X}
        1617 \newcommand{\svarset}{SVr}
        1618 \cmdmthsetext{SVar}[\svarset][\svarsym]
        \TL ...
    \CL _{1621}\,\% Tree Logic
    \label{eq:pl_1622} $$ \PL = 1622 \cmdtxtoparname{TL}
    ... 1623
        1624 % Weak Tree Logic
        1625 \DeclareRobustCommand{\WTL}
             {{\txtname{W}}\TL}
        1626
        1627
        1628 % coWeak Tree Logic
        1629 \DeclareRobustCommand{\coWTL}
            {{\txtname{coW}}\TL}
        1631
        1632 % Monadic Tree Logic
        1633 \DeclareRobustCommand{\MTL}
            {\{\text{txtname}\{M\}}\TL\}
        1634
        1635
        1636 % Weak Monadic Tree Logic
        1637 \DeclareRobustCommand{\WMTL}
            {{\txtname{W}}\MTL}
        1638
        1639
        1640 % coWeak Monadic Tree Logic
        1641 \DeclareRobustCommand{\coWMTL}
        1642
            {{\txtname{coW}}\MTL}
        1643
        1644 % Chain Logic
        1645 \cmdtxtoparname{CL}
        1647 % Weak Chain Logic
        1648 \DeclareRobustCommand{\WCL}
             {{\txtname{W}}\CL}
        1651 % coWeak Chain Logic
        1652 \DeclareRobustCommand{\coWCL}
            {{\txtname{coW}}\CL}
        1653
        1655 % Monadic Chain Logic
        1656 \DeclareRobustCommand{\MCL}
        1657
             {{\txtname{M}}\CL}
        1659 % Weak Monadic Chain Logic
        1660 \DeclareRobustCommand{\WMCL}
        1661
             {{\txtname{W}}\MCL}
        1662
        1663 % coWeak Monadic Chain Logic
```

```
1664 \DeclareRobustCommand{\coWMCL}
             1665
                         {{\txtname{coW}}\MCL}
             1666
             1667 % Path Logic
             1668 \cmdtxtoparname{PL}
             1670 % Weak Path Logic
             1671 \DeclareRobustCommand{\WPL}
                        {\{\text{txtname}\{W\}}\PL\}
             1674 % coWeak Path Logic
             1675 \verb|\DeclareRobustCommand{\coWPL}|
                         {{\txtname{coW}}\PL}
             1678 % Monadic Path Logic
             1679 \verb|\DeclareRobustCommand{\MPL}|
                         {\{\text{txtname}\{M\}}\PL\}
             1680
             1681
             1682 % Weak Monadic Path Logic
             1683 \DeclareRobustCommand{\WMPL}
             1684
                          {{\txtname{W}}\MPL}
             1686 % coWeak Monadic Path Logic
             1687 \DeclareRobustCommand{\coWMPL}
                        {{\txtname{coW}}\MPL}
             \ML ...
  \GML _{1692}\,\% Modal Logic
     · · · 1693 \cmdtxtoparname{ML}
             1695 % Graded Modal Logic
             1696 \DeclareRobustCommand{\GML}
                          {\{\text{txtname}\{G\}\}\setminus ML\}}
             1697
             1698
             1699 % Quantified Modal Logic
             1700 \DeclareRobustCommand{\QML}
                          {{\txtname{Q}}\ML}
             1702 \DeclareRobustCommand{\EML}
                         {\ensuremath{\exists}\ML}
             1704 \DeclareRobustCommand{\UML}
                        {\ensuremath{\forall}\ML}
             \Opr ...
             1707 \usrmth{Opr}{}{sym}[Op]
\DMod ...
\label{local_bound_problem} $$ \BMod_{1708 \usrmth{DMod}_{1708} \usrmth{DMod}_{1708} \normalfont{\columnwidth} $$ \columnwidth{\columnwidth} $$ \columnwidth, \col
             1709 \operatorname{Mod}{{\rm BMod}}{{\rm Sym}[Box]}
  \Exs ...
  \All _{1710} \DeclareRobustCommand{\Exs}
             1711 {\ifstarvar{\@sexs}{\@exs}}
             1712 \DeclareRobustCommand{\@sexs}[1]
             1713 {\mth{\DMod}[#1]}
```

```
1714 \DeclareRobustCommand{\@exs}[1]
            {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}}
       1716 \DeclareRobustCommand{\All}
       1717 {\ifstarvar{\@sall}{\@all}}
       1718 \DeclareRobustCommand{\@sall}[1]
       1719 {\mth{\BMod}[#1]}
       1720 \DeclareRobustCommand{\@all}[1]
            {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
       \KrpStr ...
    ··· 1723 \newcommand{\krpstr}{K}
       1724 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
\WrlSet ...
    \cdots 1725 \newcommand{\wrlsym}{w}
       1726 \newcommand{\wrlset}{W}
       1727 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
       1728 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel ...
\verb| TrnRel |_{1729} \verb| newcommand{\accsym}{R}|
       1730 \cmdmthrel{Acc}[\accsym]
       1731 \cmdmthrel{Trn}[\accsym]
\labFun ...
        1732 \mbox{ \newcommand{\labsym}{\labsym}{\labsym}}
       1733 \cmdmthfun{lab}[\labsym]
\PthSet ...
    · · · 1734 \providecommand{\pthsym}{\pi}
        1735 \providecommand{\pthset}{Pth}
       1736 \cmdmthsetext{Pth} [\pthset] [\pthsym]
       1737 \usrmth{path}{}{argfun}
       \MC ...
   \GMC _{1739} % Mu Calculus
    · · · 1740 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
       1742 % Graded Mu Calculus
       1743 \DeclareRobustCommand{\GMC}
            {\{\text{txtname}\{G\}\}\setminus MC\}}
       1744
       1745
       1746 % Quantified Mu Calculus
       1747 \DeclareRobustCommand{\QMC}
       1748 {{\txtname{Q}}\MC}
       1749 \DeclareRobustCommand{\EMC}
       1750 {\ensuremath{\exists}\MC}
       1751 \DeclareRobustCommand{\UMC}
       1752
             {\ensuremath{\forall}\MC}
       1753
       1754 % Alternation-Free Mu Calculus
       1755 \DeclareRobustCommand{\AFMC}
             {{\txtname{AF}}\MC}
       1756
       1757
       1758 % Alternation-Free Graded Mu Calculus
       1759 \DeclareRobustCommand{\AFGMC}
             {{\txtname{AF}}\GMC}
       1760
       1761
       1762 % Quantified Alternation-Free Mu Calculus
       1763 \DeclareRobustCommand{\QAFMC}
```

```
1764 \{\{\text{txtname}\{Q\}\}\setminus AFMC\}
   1765 \DeclareRobustCommand{\EAFMC}
   1766 {\ensuremath{\exists}\AFMC}
   1767 \DeclareRobustCommand{\UAFMC}
   1768 {\ensuremath{\forall}\AFMC}
   \PTL ...
\LTL _{1773} % Propositional Temporal Logic
· · · 1774 \cmdtxtoparname{PTL}
   1775
   1776 % Quantified Propositional Temporal Logic
   1777 \DeclareRobustCommand{\QPTL}
       {{\txtname{Q}}\PTL}
   1779 \DeclareRobustCommand{\EPTL}
       {\ensuremath{\exists}\PTL}
   1781 \DeclareRobustCommand{\UPTL}
       {\ensuremath{\forall}\PTL}
   1784 % Linear Temporal Logic
   1785 \cmdtxtoparname{LTL}
   1787 % Quantified Linear Temporal Logic
   1788 \DeclareRobustCommand{\QLTL}
   1789 \{\{\text{txtname}\{Q\}\}\}\
   1790 \DeclareRobustCommand{\ELTL}
   1791 {\ensuremath{\exists}\LTL}
   1792 \DeclareRobustCommand{\ULTL}
   1793 {\ensuremath{\forall}\LTL}
   \X ...
· · · 1795 \usrmth{X}{}{sym}[X\,]
   1796 \usrmth{F}{}{sym}[F\,]
   1797 \usrmth{G}{}{sym}[G\,]
   1798 \usrmth{U}{sym}[\,U\,]
   1799 \usrmth{R}{}{sym}[\,R\,]
 \Y ...
· · · 1800 \usrmth{Y}{}{sym}[G\,]
   1801 \t P}{}{sym}[P\,]\t SavePilcrow\P
   1802 \operatorname{H}{H}{sym}[H\,]\left(SaveDoubleAcute\H\right)
   1803 \space{1}{sym}[\,S\,]\let\SaveSectionSymbol\S
   1804 \usrmth{B}{}{sym}[\,B\,]
   \PDL ...
\CTL 1807 % Propositional Dynamic Logic
... 1808 \cmdtxtoparname{PDL}
   1810 % Computation Tree Logic
   1811 \cmdtxtoparname{CTL}
```

```
1812
    1813 % Weak Computation Tree Logic
    1814 \DeclareRobustCommand{\WCTL}
         {{\txtname{W}}\CTL}
    1815
    1816
    1817 % Quantified Computation Tree Logic
    1818 \DeclareRobustCommand{\QCTL}
         {\{\texttxtname}_{Q}}\
    1820 \DeclareRobustCommand{\ECTL}
         {\ensuremath{\exists}\CTL}
    1822 \DeclareRobustCommand{\UCTL}
         {\ensuremath{\forall}\CTL}
    1824
    1825\;\mbox{\ensuremath{\%}} 
 Improved Computation Tree Logic
    1826 \cmdtxtoparname{CTLP}[CTL$^{+}$]
    1828 % Weak Improved Computation Tree Logic
    1829 \DeclareRobustCommand{\WCTLP}
         {{\txtname{W}}\CTLP}
    1830
    1832 % Quantified Improved Computation Tree Logic
    1833 \DeclareRobustCommand{\QCTLP}
    1834
         {{\txtname{Q}}\CTLP}
    1835 \DeclareRobustCommand{\ECTLP}
         {\ensuremath{\exists}\CTLP}
    1837 \DeclareRobustCommand{\UCTLP}
         {\ensuremath{\forall}\CTLP}
    1838
    1840 % Full Computation Tree Logic
    1841 \cmdtxtoparname{CTLS}[CTL*]
    1843 % Weak Full Computation Tree Logic
    1844 \DeclareRobustCommand{\WCTLS}
         {{\txtname{W}}\CTLS}
    1846
    1847 % Quantified Full Computation Tree Logic
    1848 \DeclareRobustCommand{\QCTLS}
         {{\txtname{Q}}\CTLS}
    1850 \DeclareRobustCommand{\ECTLS}
         {\ensuremath{\exists}\CTLS}
    1852 \DeclareRobustCommand{\UCTLS}
         {\ensuremath{\forall}\CTLS}
    \E ...
 \A _{1855} \sym{E}{{\rm Sym}}
    1856 \usrmth{A}{}{sym}
    \ATL ...
 \cdots 1859 % Alternating Temporal Logic
    1860 \cmdtxtoparname{ATL}
    1861
    1862 % Weak Alternating Tree Logic
    1863 \DeclareRobustCommand{\WATL}
    1864
         {{\txtname{W}}\ATL}
    1866 % Quantified Alternating Temporal Logic
    1867 \DeclareRobustCommand{\QATL}
         {\{\text{txtname}\{Q\}\}\setminus ATL\}}
```

```
1869 \DeclareRobustCommand{\EATL}
            {\ensuremath{\exists}\ATL}
       1871 \DeclareRobustCommand{\UATL}
            {\ensuremath{\forall}\ATL}
       1872
       1873
       1874 % Improved Alternating Temporal Logic
       1875 \cmdtxtoparname{ATLP}[ATL$^{+}$]
       1877 % Weak Improved Alternating Tree Logic
       1878 \DeclareRobustCommand{\WATLP}
             {{\txtname{W}}\ATLP}
       1881 % Quantified Improved Alternating Temporal Logic
       1882 \DeclareRobustCommand{\QATLP}
            {{\txtname{Q}}\ATLP}
       1884 \DeclareRobustCommand{\EATLP}
            {\ensuremath{\exists}\ATLP}
       1886 \DeclareRobustCommand{\UATLP}
       1887
             {\ensuremath{\forall}\ATLP}
       1889 % Full Alternating Temporal Logic
       1890 \cmdtxtoparname{ATLS}[ATL*]
       1891
       1892 % Weak Full Alternating Tree Logic
       1893 \DeclareRobustCommand{\WATLS}
             {{\txtname{W}}\ATLS}
       1894
       1895
       1896 % Quantified Full Alternating Temporal Logic
       1897 \DeclareRobustCommand{\QATLS}
       1898 \{\{\text{txtname}\{Q\}\}\} ATLS\}
       1899 \DeclareRobustCommand{\EATLS}
            {\ensuremath{\exists}\ATLS}
       1901 \DeclareRobustCommand{\UATLS}
       1902 {\ensuremath{\forall}\ATLS}
       \EExs ...
 \verb|\AAll | 1904 \verb|\DeclareRobustCommand{\EExs}[1]|
            {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
       1906 \DeclareRobustCommand{\AAll}[1]
            {\mth{\argmid{\left[\left[\}{\defval{#1}{\emptyset}}{\right]\right]}}}
       \CGS ...
       1909 \cmdtxtname{CGS}
\CGSStr ...
   ··· 1910 \newcommand{\cgsstr}{G}
       1911 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet ...
   \cdots 1912 \newcommand{\agnsym}{a}
       1913 \newcommand{\agnset}{Ag}
       1914 \cmdmthsetext{Agn}[\agnset][\agnsym]
\ActSet ...
   \cdots 1915 \newcommand{\actsym}{c}
       1916 \newcommand{\actset}{Ac}
       1917 \cmdmthsetext{Act}[\actset][\actsym]
\PosSet ...
   ··· 1918 \providecommand{\possym}{v}
```

```
1919 \providecommand{\posset}{Ps}
                    1920 \cmdmthsetext{Pos}[\posset][\possym]
                    1921 \cmdmthsymelm{ipos}[\possym_{I}]
                    1922 \mbox{ $\mbox{melm{fpos} [\possym_{F}]}
                    1923 \cmdmthset{PPos}[\posset_{\PlrSym}]
                    1924 \verb|\cmdmthsymelm{ppos}[\possym_{\PlrSym}]|
                    1925 \cmdmthset{OPos}[\posset_{\OppSym}]
                    1926 \cmdmthsymelm{opos}[\possym_{\OppSym}]
  \SttSet ...
           \cdots 1927 \texttt{\newcommand{\sttsym}{s}}
                    1928 \verb|\newcommand{\sttset}{St}|
                    1929 \cmdmthsetext{Stt}[\sttset][\sttsym]
                    1930 \cmdmthset{IStt}[\sttset_{I}]
                    1931 \cmdmthsymelm{istt}[\sttsym_{I}]
                    1932 \cmdmthset{FStt}[\sttset_{F}]
                    1933 \cmdmthsymelm{fstt}[\sttsym_{F}]
  \DecSet ...
           \cdots 1934 \newcommand{\decsym}{d}
                    1935 \newcommand{\decset}{Dc}
                    1936 \cmdmthsetext{Dec} [\decset] [\decsym]
  \movFun ...
  \verb|\movRel| 1937 \verb|\newcommand{\movsym}{{\tt tau}}|
                    1938 \cmdmthfun{mov}[\movsym]
                    1939 \cmdmthrel{mov}[\movsym]
  \trnFun ...
  \verb|\trnRel| 1940 \verb|\newcommand{\trnsym}{\delta}|
                    1941 \cmdmthfun{trn}[\trnsym]
                    1942 \cmdmthrel{trn}[\trnsym]
  \PrfSet ...
                    1943 \providecommand{\prfsym}{\xi}
                    1944 \providecommand{\prfset}{Prf}
                    1945 \cmdmthsetext{Prf}[\prfset][\prfsym]
  \HstSet ...
           · · · 1946 \providecommand{\hstsym}{\varpi}
                    1947 \providecommand{\hstset}{Hst}
                    1948 \cmdmthsetext{Hst}[\hstset][\hstsym]
                    1949 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                    1950 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                    1951 \cmdmthset{OHst}[\hstset_{\OppSym}]
                    1952 \verb|\cmdmthsymelm{ohst}[\hstsym_{\colored}]|
                    1953 \mbox{ } \mbox
\PlaySet ...
           ··· 1954 \providecommand{\playsym}{\pi}
                    1955 \providecommand{\playset}{Play}
                    1956 \cmdmthsetext{Play}[\playset][\playsym]
                    1957 \usrmth{play}{}{argfun}
  \PlnSet ...
            ··· 1958 \providecommand{\plnsym}{\rho}
                    1959 \providecommand{\plnset}{Pln}
                    1960 \cmdmthsetext{Pln}[\plnset][\plnsym]
                    1961 \cmdmthset{PPln}[\plnset_{\PlrSym}]
                    1962 \cmdmthsymelm{pPln}[\plnsym_{\PlrSym}]
                    1963 \cmdmthset{OPln}[\plnset_{\OppSym}]
                    1964 \cmdmthsymelm{oPln}[\plnsym_{\OppSym}]
```

```
\StrSet ...
    ··· 1965 \providecommand{\strsym}{\sigma}
        1966 \providecommand{\strset}{Str}
       1967 \cmdmthsetext{Str}[\strset][\strsym]
       1968 \cmdmthset{PStr}[\strset_{\PlrSym}]
       1969 \verb|\cmdmthsymelm{pstr}[\strsym_{\prox m}]|
       1970 \cmdmthset{OStr}[\strset_{\OppSym}]
       1971 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
       \PL ...
    · · · 1973 % Plan Logic
       1974 \cmdtxtoparname{PL}
       1975
       1976 \DeclareRobustCommand{\EPL}
             {\ensuremath{\exists}\PL}
        1978 \DeclareRobustCommand{\UPL}
       1979
             {\ensuremath{\forall}\PL}
       1980
       1981 \DeclareRobustCommand{\FPL}
             {\{\text{txtname}\{F\}}\PL\}
       1982
       1983
       1984 \DeclareRobustCommand{\EFPL}
             {\ensuremath{\exists}\FPL}
       1986 \DeclareRobustCommand{\UFPL}
             {\ensuremath{\forall}\FPL}
       1987
       1989 % One-Goal Plan Logic
       1990 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
             {\PL[#1][#2][1g\arglef{,}{#3}]}
       1991
       1992
       1993 \DeclareRobustCommand{\EOGPL}
             {\ensuremath{\exists}\OGPL}
       1994
       1995 \DeclareRobustCommand{\UOGPL}
             {\ensuremath{\forall}\OGPL}
       1996
       1998 \DeclareRobustCommand{\FOGPL}
       1999
             {{\txtname{F}}\OGPL}
       2000
       2001 \DeclareRobustCommand{\EFOGPL}
            {\ensuremath{\exists}\FOGPL}
       2003 \DeclareRobustCommand{\UFOGPL}
            {\ensuremath{\forall}\FOGPL}
       2006 % Conjunctive-Goal Plan Logic
       2007 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
             {\PL[#1][#2][cg\arglef{,}{#3}]}
       2010 \DeclareRobustCommand{\ECGPL}
             {\ensuremath{\exists}\CGPL}
       2012 \DeclareRobustCommand{\UCGPL}
       2013
             {\ensuremath{\forall}\CGPL}
       2014
       2015 \DeclareRobustCommand{\FCGPL}
             {{\txtname{F}}\CGPL}
       2016
       2017
       2018 \DeclareRobustCommand{\EFCGPL}
             {\ensuremath{\exists}\FCGPL}
       2020 \DeclareRobustCommand{\UFCGPL}
       2021
             {\ensuremath{\forall}\FCGPL}
       2022
       2023 % Disjunctive-Goal Plan Logic
```

2024 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]

```
2025
      {\PL[#1][#2][dg\arglef{,}{#3}]}
2026
2027 \DeclareRobustCommand{\EDGPL}
2028
      {\ensuremath{\exists}\DGPL}
2029 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
2030
2031
2032 \DeclareRobustCommand{\FDGPL}
2033
      {{\txtname{F}}\DGPL}
2035 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
2037 \DeclareRobustCommand{\UFDGPL}
      {\ensuremath{\forall}\FDGPL}
2038
2039
2040 % Alternating-Goal Plan Logic
2041 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][ag\arglef{,}{#3}]}
2043
2044 \DeclareRobustCommand{\EAGPL}
      {\ensuremath{\exists}\AGPL}
2046 \DeclareRobustCommand{\UAGPL}
2047
      {\ensuremath{\forall}\AGPL}
2048
2049 \DeclareRobustCommand{\FAGPL}
      {\{\text{txtname}\{F\}\}\setminus AGPL}
2050
2051
2052 \DeclareRobustCommand{\EFAGPL}
      {\ensuremath{\exists}\FAGPL}
2054 \DeclareRobustCommand{\UFAGPL}
      {\ensuremath{\forall}\FAGPL}
2055
2057 % Extended-Goal Plan Logic
2058 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
2059
      {\PL[#1][#2][eg\arglef{,}{#3}]}
2060
2061 \DeclareRobustCommand{\EEGPL}
      {\ensuremath{\exists}\EGPL}
2063 \DeclareRobustCommand{\UEGPL}
      {\ensuremath{\forall}\EGPL}
2066 \DeclareRobustCommand{\FEGPL}
2067
      {\{\text{txtname}\{F\}\}\setminus EGPL\}}
2068
2069 \DeclareRobustCommand{\EFEGPL}
     {\ensuremath{\exists}\FEGPL}
2071 \DeclareRobustCommand{\UFEGPL}
     {\ensuremath{\forall}\FEGPL}
2072
2074 % Boolean-Goal Plan Logic
2075 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][bg\arglef{,}{#3}]}
2078 \DeclareRobustCommand{\EBGPL}
      {\ensuremath{\exists}\BGPL}
2080 \DeclareRobustCommand{\UBGPL}
2081
      {\ensuremath{\forall}\BGPL}
2082
2083 \DeclareRobustCommand{\FBGPL}
      {\{\texttxtname}_{F}\}\BGPL}
2084
2085
2086 \DeclareRobustCommand{\EFBGPL}
      {\ensuremath{\exists}\FBGPL}
```

```
2088 \DeclareRobustCommand{\UFBGPL}
    2089
          {\ensuremath{\forall}\FBGPL}
    2090
    2091 % Undefined-Goal Plan Logic
    2092 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
          {\PL[#1][#2][xg\arglef{,}{#3}]}
    2094
    2095 \DeclareRobustCommand{\EXGPL}
    2096 {\ensuremath{\exists}\XGPL}
    2097 \DeclareRobustCommand{\UXGPL}
         {\ensuremath{\forall}\XGPL}
    2100 \DeclareRobustCommand{\FXGPL}
         {\{\text{txtname}\{F\}\}\setminus XGPL\}}
    2101
    2102
    2103 \DeclareRobustCommand{\EFXGPL}
         {\ensuremath{\exists}\FXGPL}
    2105 \DeclareRobustCommand{\UFXGPL}
         {\ensuremath{\forall}\FXGPL}
\SL ...
\cdots 2107 % Strategy Logic
    2108 \cmdtxtoparname{SL}
    2109
    2110 \DeclareRobustCommand{\ESL}
         {\ensuremath{\exists}\SL}
    2111
    2112 \DeclareRobustCommand{\USL}
         {\ensuremath{\forall}\SL}
    2114
    2115 \DeclareRobustCommand{\FSL}
          {\{\text{txtname}\{F\}\}\SL\}}
    2118 \DeclareRobustCommand{\EFSL}
         {\ensuremath{\exists}\FSL}
    2120 \DeclareRobustCommand{\UFSL}
         {\ensuremath{\forall}\FSL}
    2121
    2122
    2123 % One-Goal Strategy Logic
    2124 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
          {\SL[#1][#2][1g\arglef{,}{#3}]}
    2126
    2127 \DeclareRobustCommand{\EOGSL}
         {\ensuremath{\exists}\OGSL}
    2129 \DeclareRobustCommand{\UOGSL}
         {\ensuremath{\forall}\OGSL}
    2130
    2131
    2132 \DeclareRobustCommand{\FOGSL}
         {{\txtname{F}}\OGSL}
    2133
    2134
    2135 \DeclareRobustCommand{\EFOGSL}
    2136 {\ensuremath{\exists}\FOGSL}
    2137 \DeclareRobustCommand{\UFOGSL}
         {\ensuremath{\forall}\FOGSL}
    2139
    2140\ \% Conjunctive-Goal Strategy Logic
    2141 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
          {\SL[#1][#2][cg\arglef{,}{#3}]}
    2142
    2143
    2144 \DeclareRobustCommand{\ECGSL}
          {\ensuremath{\exists}\CGSL}
    2146 \DeclareRobustCommand{\UCGSL}
          {\ensuremath{\forall}\CGSL}
    2149 \DeclareRobustCommand{\FCGSL}
```

```
2150
      {{\txtname{F}}\CGSL}
2151
2152 \DeclareRobustCommand{\EFCGSL}
2153
     {\ensuremath{\exists}\FCGSL}
2154 \DeclareRobustCommand{\UFCGSL}
      {\ensuremath{\forall}\FCGSL}
2155
2156
2157 % Disjunctive-Goal Strategy Logic
2158 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2160
2161 \DeclareRobustCommand{\EDGSL}
     {\ensuremath{\exists}\DGSL}
2163 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
2164
2165
2166 \DeclareRobustCommand{\FDGSL}
      {{\txtname{F}}\DGSL}
2167
2168
2169 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
2171 \DeclareRobustCommand{\UFDGSL}
2172
      {\ensuremath{\forall}\FDGSL}
2173
2174 % Alternating-Goal Strategy Logic
2175 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
2176
      {\SL[#1][#2][ag\arglef{,}{#3}]}
2177
2178 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
2180 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
2183 \DeclareRobustCommand{\FAGSL}
     {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2184
2185
2186 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
2188 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
2191 % Extended-Goal Strategy Logic
2192 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][eg\arglef{,}{#3}]}
2194
2195 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
2196
2197 \DeclareRobustCommand{\UEGSL}
     {\ensuremath{\forall}\EGSL}
2198
2199
2200 \DeclareRobustCommand{\FEGSL}
      {{\txtname{F}}\EGSL}
2203 \DeclareRobustCommand{\EFEGSL}
     {\ensuremath{\exists}\FEGSL}
2205 \DeclareRobustCommand{\UFEGSL}
2206
     {\ensuremath{\forall}\FEGSL}
2207
2208 % Boolean-Goal Strategy Logic
2209 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][bg\arglef{,}{#3}]}
2210
2211
2212 \DeclareRobustCommand{\EBGSL}
```

```
{\ensuremath{\exists}\BGSL}
       2214 \DeclareRobustCommand{\UBGSL}
       2215
           {\ensuremath{\forall}\BGSL}
       2216
       2217 \DeclareRobustCommand{\FBGSL}
           {\{\text{txtname}\{F\}\}\setminus BGSL\}}
       2218
       2219
       2220 \DeclareRobustCommand{\EFBGSL}
       2221 {\ensuremath{\exists}\FBGSL}
       2222 \DeclareRobustCommand{\UFBGSL}
           {\ensuremath{\forall}\FBGSL}
       2225 % Nested-Goal Strategy Logic
       2226 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
            {\SL[#1][#2][ng\arglef{,}{#3}]}
       2228
       2229 \DeclareRobustCommand{\ENGSL}
            {\ensuremath{\exists}\NGSL}
       2230
       2231 \DeclareRobustCommand{\UNGSL}
            {\ensuremath{\forall}\NGSL}
       2233
       2234 \DeclareRobustCommand{\FNGSL}
       2235
            {{\txtname{F}}\NGSL}
       2236
       2237 \DeclareRobustCommand{\EFNGSL}
           {\ensuremath{\exists}\FNGSL}
       2238
       2239 \DeclareRobustCommand{\UFNGSL}
           {\ensuremath{\forall}\FNGSL}
       2241
       2242 % Undefined-Goal Strategy Logic
       2243 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
            {\SL[#1][#2][xg\arglef{,}{#3}]}
       2245
       2246 \DeclareRobustCommand{\EXGSL}
       2247
           {\ensuremath{\exists}\XGSL}
       2248 \DeclareRobustCommand{\UXGSL}
            {\ensuremath{\forall}\XGSL}
       2249
       2250
       2251 \DeclareRobustCommand{\FXGSL}
       2252
            {\{\text{txtname}\{F\}\}\setminus XGSL\}}
       2254 \DeclareRobustCommand{\EFXGSL}
       2255 {\ensuremath{\exists}\FXGSL}
       2256 \DeclareRobustCommand{\UFXGSL}
           {\ensuremath{\forall}\FXGSL}
       \BndSet ...
   · · · 2259 \newcommand{\bndsym}{\flat}
       2260 \newcommand{\bndset}{Bn}
       2261 \cmdmthsetext{Bnd}[\bndset][\bndsym]
       2262 \cmdmthsymelm{idbnd}[\bndsym_{\text{id}}]
       2263 \usrmth{bnd}{}{argfun}
  \psn ...
       2264 \usrmth{psn}{}{argfun}
       \nxt ...
       2266 \operatorname{nxt}{nxt}{{argfun}}
```

```
2272 \ifaut@
                                      \DFA ...
                     \cdots 2274 \verb|\cmdtxtoparname{DFA}\\ cmdtxtoparname{AFA} \\
                                     2276 \verb|\cmdtxtoparname{NWA}\cmdtxtoparname{UWA}\cmdtxtoparname{AWA}|
                                     2278 \cmdtxtoparname{DFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}
                                     2279 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}
                                     2280 \cmdtxtoparname{DBW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
                                     2281 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{UCW}\cmdtxtoparname{ACW}|
                                     2282 \verb|\cmdtxtoparname{NPW}| cmdtxtoparname{MPW}| cmdtxtoparname{MPW}|
                                     2283 \verb|\cmdtxtoparname{NRW}| cmdtxtoparname{URW}| cmdtxtoparname{ARW}| cmdtxtoparname{ARW}|
                                      2284 \verb|\cmdtxtoparname{NSW}| cmdtxtoparname{USW}\\ cmdtxtoparname{ASW}| cmdtxtoparname{ASW}|
                                     2285 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
                 \GFG ...
                     ··· 2286 \cmdtxtoparname{GFG}
                                     2288 \cmdtxtoparname{PD}
                                     2289 \cmdtxtoparname{PN}
                                     2290
                                     2291 \cmdtxtoparname{LD}
                                     2292 \verb|\cmdtxtoparname{LN}|
                                      \AutName ...
                     \cdots 2294 \newcommand{\autname}{A}
                                      2295 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                      2296 \newcommand{\autset}{Aut}
                                      2297 \cmdmthset{Aut}[\autset]
\WAutSet ...
                                      2298 \newcommand{\wautset}{WAut}
                                     2299 \cmdmthset{WAut}[\wautset]
    \SymSet ...
                     · · · 2300 \newcommand{\symsym}{\sigma}
                                      2301 \newcommand{\symset}{\Sigma}
                                      2302 \cmdmthsetext{Sym}[\symset][\symsym]
    \SttSet ...
                     ··· 2303 \providecommand{\sttsym}{q}
                                      2304 \providecommand{\sttset}{Q}
                                      2305 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                      2306 \cmdmthset{IStt}[\sttset_{I}]
                                      2307 \cmdmthsymelm{istt}[\sttsym_{I}]
                                      2308 \cmdmthset{FStt}[\sttset_{F}]
                                      2309 \cmdmthsymelm{fstt}[\sttsym_{F}]
    \trnFun ...
    \trnRel 2310 \providecommand{\trnsym}{\delta}
                                      2311 \cmdmthfun{trn}[\trnsym]
                                      2312 \cmdmthrel{trn}[\trnsym]
```

```
\WrdSet ...
           ··· 2314 \newcommand{\wrdsym}{w}
                    2315 \mbox{ \newcommand{\wrdset}{Wr}}
                    2316 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
       \Lang ...
                    2317 \usrmth{Lang}{}{argfun}[L]
                    \DTA ...
           \cdots \ 2319 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}|
                    2321 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                    2322 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}\cmdtxtoparname{UWT}\cmdtxtoparname{AWT}
                    2323 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                    2324 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                    2325 \cmdtxtoparname{DPT}\cmdtxtoparname{MPT}\cmdtxtoparname{MPT}\cmdtxtoparname{APT}
                    2326 \verb|\cmdtxtoparname{NRT}| cmdtxtoparname{URT}| cmdtxtoparname{ART}| cmdtxtoparname{ART}|
                    2327 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{MST}| cmdtxtoparname{AST}| 
                    2328 \verb|\cmdtxtoparname{NMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
                    \TAutSet ...
                    2330 \newcommand{\tautset}{TAut}
                    2331 \cmdmthset{TAut}[\tautset]
  \DirSet ...
           · · · 2332 \newcommand{\dirsym}{d}
                    2333 \newcommand{\dirset}{\Lambda}
                    2334 \cmdmthsetext{Dir}[\dirset][\dirsym]
                    \TreeSet ...
            · · · 2336 \newcommand{\treesym}{T}
                    2337 \newcommand{\treeset}{Tr}
                    2338 \cmdmthsetext{Tree} [\treeset] [\treesym]
         \wot. ...
                    2339 \usrmth{wot}{}{argfun}
                    2340 \fi
                    2345 \iffrm@
                    2346 \RequirePackage{multicol}
                    2347 %%...
                    2348 \fi
                    2353 \iffig@
                    2354 \RequirePackage{tikz}
                    2355 \usetikzlibrary{calc,arrows,shapes,patterns,graphs,matrix}
```

```
2357 [draw = none, fill = none, black, thin]
       2358 \tikzstyle{every edge} +=
       2359 [black, thick]
       2360 \tikzstyle{noall} =
       2361 [draw = none, fill = none]
       2362 \text{ } \text{tikzstyle} \{ \text{nodraw} \} =
       2363 [draw = none, fill = white]
      2364 \tikzstyle{nofill} =
      2365 [draw = black, fill = none]
      2366 \ifwrpfig@
       2367 % Wrapfig Package
          \RequirePackage{wrapfig}
       2368
       2369 \fi
       2370 \fi
      2375 \iftab@
    2376 %%...
      2377 \fi
       2382 \ifalg@
       2383 \RequirePackage[ruled,vlined]{algorithm2e}
       2384 \DontPrintSemicolon
       2385 \SetInd{0.25em}{0.5em}
      2386 \setlength{\algomargin}{1.25em}
\Signature ...
       2387 \SetKw{Signature}{signature}
  \Macro ...
\Function _{2388} \ \text{Macro}{\text{macro}}{}
\Procedure 2389 \SetKwFor{Function}{function}{}}
       2390 \SetKwFor{Procedure}{procedure}{}{
   \Let ...
      2391 \SetKwFor{Let}{let}{in}{}
   \True ...
  \False _{2392} \SetKw{True}{true}
      2393 \SetKw{False}{false}
   \From ...
    \To 2394 \SetKw{From}{from}
  \DownTo 2395 \SetKw{To}{to}
       2396 \SetKw{DownTo}{downto}
   \GoTo ...
  \Break 2397 \SetKw{GoTo}{goto}
\Continue 2398 \SetKw{Break}{break}
      2399 \SetKw{Continue}{continue}
```

2356 \tikzstyle{every node} =

2 Change History

v0.0	v0.24
General: First public release 1	General: Correction of fragile macros 1
v0.1	v0.25
General: Algorithm tricks $\dots \dots 1$	General: Few additions and corrections 1
v0.10	v0.26
General: Small refinements 1	General: Few additions
v0.11	v0.27
General: Few additions and corrections 1	General: Small addition to 'Algorithm tricks' 1
v0.12	v0.28
General: New starred variants 1	General: Few additions
v0.13	v0.29
General: Further starred variants 1	
v0.14	General: Correction of fragile macros 1
General: Few additions and corrections 1	v0.3
v0.15	General: Few problems solved 1
General: Refactoring of dtx sources 1	v0.30
v0.16	General: Improvements and new command
General: Small refinements and few additions 1	variants
v0.17	v0.31
General: Few additions	General: Small improvements 1
v0.18	v0.4
General: Few new starred variants	General: Refactoring, corrections, and
	extensions 1
General: Additional starred variants 1 v0.2	v0.5
General: Changes in 'Auxiliary tricks' 1	General: Figure tricks
v0.20	v0.6
General: New binary operators	General: Small refinements 1
v0.21	v0.7
General: Refactoring of function macros 1	General: Refinements, corrections, and
v0.22	extensions
General: Few additions	v0.8
v0.23	General: Few refinements and corrections 1
General: New 'Graphs' section and small	v0.9
improvements	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.

```
Symbols
                                                                    \@@sequencel ..... 990
                                         1506, 1513, 1519, 1526,
\! 435, 459, 934, 1043, 1053, 1905
                                         <u>1532</u>, <u>1540</u>, <u>1542</u>, <u>1544</u>,
                                                                    \@@sequencer .... 1000
                                         <u>1546</u>, <u>1549</u>, <u>1579</u>, <u>16</u>13,
                                                                    \@@setr ..... 1061, 1062
   . . . . . . . . . . . . . . . . . . 887, 888
                                                                    \@@spow ..... 1077, 1080
                                         1616, 1621, 1692, 1723,
   1725, 1734, 1739, 1773,
                                                                    \@@ssequence ..... 982
   ..... 1045, 1047,
                                         <u>1795</u>, <u>1800</u>, <u>1807</u>, <u>1859</u>,
                                                                    \@@ssequencel ..... 992
      1051,\,1055,\,1057,\,1197,\,
                                         <u>1910</u>, <u>1912</u>, <u>1915</u>, <u>1918</u>,
                                                                    \@@ssequencer ..... 1002
      1200, 1201, 1795, 1796,
                                         <u>1927</u>, <u>1934</u>, <u>1946</u>, <u>1954</u>,
                                                                    \@@stuple ..... 1012
      1797, 1798, 1799, 1800,
                                         1958, 1965, 1973, 2107,
                                                                    1801, 1802, 1803, 1804
                                         2259, 2274, 2286, 2294,
                                                                    \@@stupler .... 1032
1... 144, 605, 619,
                                         2300, 2303, 2314, 2319,
                                                                    \@@tuple ..... 1010
      633, 647, 661, 695, 709,
                                         2332, 2336, 2347, 2376
                                                                    \@@tuplel ..... 1020
       <u>723, 737, 783, 797, 812,</u>
                                      ..... 844, 850,
                                  \@
                                                                    \@@tupler ..... 1030
       <u>826</u>, <u>1280</u>, <u>1282</u>, <u>1303</u>,
                                         855, 859, 860, 861, 866,
                                                                    \000xset .... 1041, 1043, 1044
       1325, 1327, 1340, 1348,
                                         867, 876, 893, 894, 896,
                                                                    \@@xsetl .... 1051, 1053, 1054
       1360, 1379, 1407, 1432,
                                         897, 898, 899, 900, 902, 903
                                                                    \@abs ..... 1169, 1170
       1443, 1465, 1475, 1482,
       1487, 1489, 1492, 1496,
                                                                    \@all ..... 1717, 1720
                                  \@@sequence ..... 980
```

\@card 1067, 1068	\@set 1039, 1040	\AgnSet <u>1912</u>
\@ceil 1187, 1188	\@setl 1049, 1050	\agnset 1913, 1914
\@compdual 953, 955, 956	\@setr 1059, 1060	\agnsym 1912, 1914
\@denot 946, 947	\@sexs 1711, 1712	\AGPL 2041, 2045, 2047, 2050
\@e@sequence 980	\@snewmth 421, 424	\AGSL 2175, 2179, 2181, 2184
\@e@sequencel 990	\@snewmtharg 433, 436	\AH <u>1266</u>
\@e@sequencer 1000	\@snewmthargsty \dots 439, 442	\aka 893
\@e@setr 1061, 1064	\@snewmthoarg 445, 448	\ala 886
\@e@spow 1077, 1078	\@snewmthoargsty 451, 454	\alg@false 126, 128
\@e@ssequence 982	\@snewmthopar 469, 472	\alg@true 127
\@e@ssequencel 992	\@snewmthoparsty 475, 478	\algomatgin 2386
\@e@ssequencer 1002	\@snewmthpar 457, 460	\All 1710
-	\@snewmthparsty 463, 466	
\@e@stuple 1012	\@snewmthsty 427, 430	\AllGuess
\@e@stuple1 1022	\@snewtxt 308, 311	\allowbreak 176
\@e@stupler 1032	\@snewtxtarg 320, 323	\ALogSpace(E/H/C) <u>1256</u>
\@e@tuple 1010	\\\ \(\text{0snewtxtargsty} \\ \\ \\ 326, \\ 329 \\\ \\ \\ \\ \\ 326, \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	$\ALogTime(E/H/C) \dots \underline{1255}$
\@e@tuplel 1020	3 3	\Alpha <u>144</u>
\@e@tupler 1030	\\0 snewtxtoarg \\\. \\\. \\\ \\ \\ \\ \\ \\ \\ \\ \\ \	\alt <u>1480</u>
\@e@xset 1041, 1043, 1046	\Qsnewtxtoargsty 338, 341	\aMat <u>812</u>
\@e@xsetl 1051, 1053, 1056	\@snewtxtopar 356, 359	\amsdef@false 17
\@eabs 1169, 1172	\@snewtxtoparsty 362, 365	\amsdef@true 16
\@ecard 1067, 1070	\@snewtxtpar 344, 347	\amsthm@false 21
\@eceil 1187, 1190	\@snewtxtparsty 350 , 353	\amsthm@true 20
\@edenot 946, 949	\@snewtxtsty 314, 317	\AName 605
\@efloor 1181, 1184	\@spow 1073, 1076	\AOmega 1113
\@elen 1210, 1213	\@ssequence 978, 981	\Aomega 1113
\@enorm 1175, 1178	\@ssequencel 988, 991	\AOmicron
\@enumeration 974	\@ssequencer 998, 1001	\Aomicron
\@exs 1711, 1714	\@sset 1039, 1042	\Aposteriori
\@firstoftwo 169, 171	\@ssetl 1049, 1052	0.10
\@floor 1181, 1182	\@stuple 1008, 1011	
\@for 184, 188	\@stuplel 1018, 1021	-
\@ifnextchar 169, 171, 844	\@stupler 1028, 1031	\apriori
(elinextchar 103, 171, 044	\@svec 967, 970	\APSet <u>1465</u>
\@ifator 167	(02:00 :::::::::::::::::::::::::::::::::	1400 1407
\@ifstar 167	\@tuple 1008, 1009	\apset 1466, 1467
\@len 1210, 1211	· · · · · · · · · · · · · · · · · · ·	\APSpace(E/H/C) <u>1258</u>
\@len 1210, 1211 \@newmth 421, 422	\@tuple 1008, 1009	\APSpace(E/H/C) <u>1258</u> \apsym 1465, 1467
\@len	\@tuple 1008, 1009 \@tuple1 1018, 1019	\APSpace(E/H/C)
\@len	\@tuple	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\@len	\@tuple 1008, 1009 \@tuple1 1018, 1019 \@tupler 1028, 1029 \@vec 967, 968	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\@len	\@tuple \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\@len 1210, 1211 \@newmth 421, 422 \@newmtharg 433, 434 \@newmthargsty 439, 440 \@newmthoarg 445, 446 \@newmthoargsty 451, 452 \@newmthopar 469, 470	\@tuple \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\APSpace(E/H/C)
\@len 1210, 1211 \@newmth 421, 422 \@newmtharg 433, 434 \@newmthargsty 439, 440 \@newmthoarg 445, 446 \@newmthoargsty 451, 452 \@newmthopar 469, 470 \@newmthoparsty 475, 476	\@tuple \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\APSpace(E/H/C)
\@len 1210, 1211 \@newmth 421, 422 \@newmtharg 433, 434 \@newmthargsty 439, 440 \@newmthoarg 445, 446 \@newmthoargsty 451, 452 \@newmthopar 469, 470 \@newmthoparsty 475, 476 \@newmthpar 457, 458	\@tuple \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\APSpace(E/H/C)
\@len 1210, 1211 \@newmth 421, 422 \@newmtharg 433, 434 \@newmthargsty 439, 440 \@newmthoarg 445, 446 \@newmthoargsty 451, 452 \@newmthopar 469, 470 \@newmthoparsty 475, 476 \@newmthpar 457, 458 \@newmthparsty 463, 464	\@tuple	\APSpace(E/H/C)
\@len	\text{\te\tin\text{\tex{\tex	\aPSpace(E/H/C)
\@len	\@tuple	\aPspace(E/H/C)
\@len	\@tuple	\aPSpace(E/H/C)
\@len	\text{\te\tint{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\ti}}\tet	\APSpace(E/H/C)
\@len	\text{\te\tinx{\text{\texi{\text{\text{\text{\text{\text{\text{\text{\text{\ti}\tex{	\APSpace(E/H/C)
\@len	\text{\te\tin\text{\tex{\tex	\APSpace(E/H/C)
\@len	\text{Qtuple} \text{1008, 1009} \text{\text{\text{Qtupler}}} \text{1018, 1019} \text{\text{\text{Qtupler}}} \text{1028, 1029} \text{\text{\text{\text{Qvec}}}} \text{967, 968} \text{\til\text{\	\APSpace(E/H/C)
\@len	\text{Qtuple} \text{1008, 1009} \text{\text{\text{Qtuple}}} \text{1018, 1019} \text{\text{\text{\text{Qtuple}}}} \text{1028, 1029} \text{\text{\text{\text{Qvec}}}} \text{967, 968} \text{\te\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	\APSpace(E/H/C)
\@len	\text{Qtuple} \tag{000}, 1008, 1009 \text{\text{\text{Qtupler}}} \tag{1018}, 1019 \text{\text{\text{\text{\text{\text{Qtable}}}}} \text{\te}\text{\tex	\aPspace(E/H/C)
\@len	\text{Qtuple} \ \ \ \text{1008}, \ \ \text{1019} \ \text{Qtupler} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\APSpace(E/H/C)
\\(\text{Qlen} \) \\(\text{Qlen} \) \\(\text{Qlenewmth} \) \\(\text{421}, 422 \) \\\(\text{Qnewmtharg} \) \\(\text{433}, 434 \) \\\(\text{Qnewmthargsty} \) \\(439, 440 \) \\(\text{Qnewmthoarg} \) \\(445, 446 \) \\(\text{Qnewmthoargsty} \) \\(451, 452 \) \\(\text{Qnewmthopar} \) \\(469, 470 \) \\(\text{Qnewmthoparsty} \) \\(475, 476 \) \\(\text{Qnewmthoparsty} \) \\(463, 464 \) \\(\text{Qnewmthparsty} \) \\(463, 464 \) \\(\text{Qnewmthsty} \) \\(427, 428 \) \\(\text{Qnewmthsty} \) \\(427, 428 \) \\(\text{Qnewtxt} \) \\(308, 309 \) \\(\text{Qnewtxtarg} \) \\(320, 321 \) \\(\text{Qnewtxtargsty} \) \\(326, 327 \) \\(\text{Qnewtxtoargsty} \) \\(338, 339 \) \\(\text{Qnewtxtoargsty} \) \\(338, 339 \) \\(\text{Qnewtxtopar} \) \\(356, 357 \) \\(\text{Qnewtxtoparsty} \) \\(362, 363 \) \\(\text{Qnewtxtoparsty} \) \\(362, 363 \) \\(\text{Qnewtxtoparsty} \) \\(350, 351 \) \\(\text{Qnewtxtsty} \) \\(314, 315 \) \\(\text{Qnorm} \) \\(1175, 1176 \) \end{array}	\text{Qtuple} \text{1008}, \text{1009} \\ \text{Qtupler} \text{1018}, \text{1019} \\ \text{Qtupler} \text{1028}, \text{1029} \\ \text{Qvec} \text{967}, \text{968} \\ \cdot \text{889}, \text{891} \\ \cdot \text{886} \\ \text{A} \text{1855} \\ \text{AA11} \text{168} \\ \text{AccRe1} \text{1729} \\ \text{261} \text{1729} \\ \text{2730}, \text{1729} \\ \text{2730}, \text{1729} \\ \text{2730}, \text{2731} \\ \text{261} \q	\APSpace(E/H/C)
\\(\text{Qlen} \) \\(\text{Qlen} \) \\(\text{Qlenwmth} \) \\(\text{Qlenwmtharg} \) \\(\text{Qlenwmthargsty} \) \\(\text{Qlenwmthargsty} \) \\(\text{Qlenwmthargsty} \) \\(\text{Qlenwmthoarg} \) \\(\text{Qlenwmthoargsty} \) \\(\text{Qlenwmthopar} \) \\(\text{Qlenwmthopar} \) \\(\text{Qlenwmthoparsty} \) \\(\text{Qlenwmomthoparsty} \) \\(\text{Qlenwmthoparsty} \) \\(\text{Qlenwmomthoparsty} \) \\(\text{Qlenwmthoparsty} \) \\(Qlenwmt	\text{Qtuple} \text{1008}, \text{1009} \\ \text{Qtupler} \text{1018}, \text{1019} \\ \text{Qtupler} \text{1028}, \text{1029} \\ \text{Qvec} \text{967}, \text{968} \\ \cdot \text{889}, \text{891} \\ \cdot \text{886} \\ \text{A} \text{1855} \\ \text{AA11} \text{168} \\ \text{AccRe1} \text{1729} \\ \text{261} \text{1729} \\ \text{2730}, \text{1731} \\ \text{AC1s} \qu	\APSpace(E/H/C)
\@len	\text{Qtuple} \ \ \ \text{1008}, \ \ \text{1019} \ \text{Qtupler} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\APSpace(E/H/C)
\@len	\text{Qtuple} \ \ \ \text{1008}, \ \ \text{1019} \ \text{Qtupler} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\APSpace(E/H/C)
\@len	\text{Qtuple} \text{1008, 1009} \text{\text{Qtupler}} \text{1018, 1019} \text{\text{Qtupler}} \text{1028, 1029} \text{\text{\text{Qvec}}} \text{.029} \text{\text{\text{Qvec}}} \text{.029} \text{.088, 891} \text{.0886} .0	\APSpace(E/H/C)
\@len	\text{Qtuple} \text{1008, 1009} \text{\text{Qtupler}} \text{1018, 1019} \text{\text{Qtupler}} \text{1028, 1029} \text{\text{\text{Qvec}}} \text{.029} \text{\text{\text{Qvec}}} \text{.029} \text{.088, 891} \text{.0886} .0	\APSpace(E/H/C)

\aSet <u>675</u>	\cmdmthall $\frac{511}{603}$, $\frac{603}{617}$, $\frac{631}{631}$,	\cmdmthpar $\dots \dots \underline{505}, 512$
\AsgSet	645, 659, 673, 693, 707,	\cmdmthparcls $\underline{640}$
\asgset 1493, 1494	721, 735, 781, 795, 810, 824	\cmdmthparelm $\underline{744}$, 760
\asgsym 1492, 1494	\cmdmtharg 499, 512	\cmdmthparfam $\dots \dots \underline{626}$
\aSig <u>647</u>	\cmdmthargcls 636	\cmdmthparfrm $\dots \dots \underline{804}$
\aSnt <u>783</u>	\cmdmthargelm $\dots \frac{740}{754}$	\cmdmthparfun 716
\ASpace(E/H/C) <u>1254</u>	\cmdmthargfam 622	\cmdmthparmat 819
\aStr <u>661</u>	\cmdmthargfrm <u>800</u>	\cmdmthparname $\underline{612}$
\aSym <u>723</u>	\cmdmthargfun	\cmdmthparrel 702
\ATheta <u>1115</u>	\cmdmthargmat <u>815</u>	\cmdmthparset $\underline{682}$
\Atheta <u>1115</u>	\cmdmthargname 608	\cmdmthparsig $\underline{654}$
\ATime(E/H/C) <u>1253</u>	\cmdmthargrel 698	\cmdmthparsnt <u>790</u>
\ATL <u>1859</u>	\cmdmthargset 678	\cmdmthparstr <u>668</u>
\ATLP 1879, 1883, 1885, 1887	\cmdmthargsig <u>650</u> \cmdmthargsnt <u>786</u>	\cmdmthparsym $\dots \frac{730}{759}$
\ATLS 1894, 1898, 1900, 1902	\cmdmthargstr 664	\cmdmthparsymelm 758
\atr <u>1374</u>	\cmdmthargsym \frac{726}{753}	\cmdmthparvec 833
\aut@false 56, 62, 98, 100	\cmdmthargsymelm 752	\cmdmthrel
\aut@true	\cmdmthargvec 829	<u>696,</u> 1288, 1339, 1730,
\AutName	\cmdmthcls 634	1731, 1939, 1942, 2312
\autname 2294, 2295	\cmdmthelm 738, 751	\cmdmthset <u>676</u> ,
\autset 2296, 2297	\cmdmthfam 620	687, 1332, 1334, 1343, 1345, 1351, 1353, 1363
\aux@false 11, 13	\cmdmthfrm	1345, 1351, 1353, 1363, 1365, 1923, 1925, 1930,
\aux@true	\cmdmthfun 710,	1932, 1949, 1951, 1961,
\aVec <u>826</u>	1337, 1346, 1404, 1423,	1932, 1949, 1931, 1901, 1963, 1968, 1970, 2297,
В	1733, 1938, 1941, 2311	2299, 2306, 2308, 2331
\BF	\cmdmthlbop <u>770</u>	\cmdmthsetext
\bfseries	\cmdmthlrel <u>777</u>	<u>686</u> , 1284, 1292,
\BG1379	\cmdmthluop <u>770</u>	1329, 1350, 1358, 1362,
\BGPL 2075, 2079, 2081, 2084	$\verb \cmdmthmat \dots \dots \underline{813}$	1369, 1403, 1422, 1467,
\bgroup 179	\cmdmthname $\underline{606}$	1477, 1491, 1494, 1510,
\BGSL 2209, 2213, 2215, 2218	\cmdmthoarg $\underline{502}$, 512	1517, 1523, 1530, 1536,
\BMod <u>1708</u> , 1719, 1721	\cmdmthoargcls $\underline{638}$	1615, 1618, 1727, 1736,
\BndSet 2259	\cmdmthoargelm $\dots \frac{742}{757}$	1914, 1917, 1920, 1929,
\bndset 2260, 2261	\cmdmthoargfam 624	1936, 1945, 1948, 1956,
\bndsym 2259, 2261, 2262	\cmdmthoargfrm $\dots \dots \underbrace{802}_{714}$	1960, 1967, 2261, 2302,
\boldsymbol 811, 825	\cmdmthoargfun 714	2305, 2316, 2334, 2338
\bot 1447	\cmdmthoargmat 817	\cmdmthsig
\bound 1478	\cmdmthoargname 610	\cmdmthsnt
\Box 1709	$\label{eq:cmdmthoargrel} $$\operatorname{cmdmthoargrel} \ \ldots \ \underline{700}$$$	\cmdmthstr <u>662</u>
\boxminus 1418	\cmdmthoargsig 652	\cmdmthsym
\Break <u>2397</u>	<u> </u>	
	\cmdmthoargsnt 788	. <u>724,</u> 750, 1322, 1324,
\bst <u>1196</u>	\cmdmthoargsnt	1398, 1400, 1417, 1419
	\cmdmthoargstr <u>666</u>	1398, 1400, 1417, 1419 \cmdmthsymelm
\bst <u>1196</u> C	$\label{eq:cmdmthoargstr} $$\operatorname{cmdmthoargsym} $$ \ldots $$\frac{666}{756}$$	1398, 1400, 1417, 1419 \cmdmthsymelm \cdots \frac{749}{1285}, 1286,
C \card <u>1066</u>	\cmdmthoargstr <u>666</u>	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card <u>1066</u>	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C \card 1066 \caselower 687 \cdot 1075, 1079, 1081 \ceil 1180 \cequiv 940 \cf 850	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthopar 508, 512 \cmdmthoparcls 642 \cmdmthoparelm 746, 763	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthopar 508, 512 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card 1066 \caselower 687 \cdot 1075, 1079, 1081 \ceil 1180 \cequiv 940 \cf 850 \CGPL 2007, 2011, 2013, 2016 \CGS 1909	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthopar 508, 512 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfrm 806	1398, 1400, 1417, 1419 \cmdmthsymelm
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthopar 508, 512 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfrm 806 \cmdmthoparfun 718 \cmdmthoparmat 821 \cmdmthoparname 614	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfum 718 \cmdmthoparfun 806 \cmdmthoparmat 821 \cmdmthoparrel 704	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthopar 508, 512 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfun 718 \cmdmthoparfun 806 \cmdmthoparmat 821 \cmdmthoparname 614 \cmdmthoparrel 704 \cmdmthoparset 684	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfun 718 \cmdmthoparmat 821 \cmdmthoparname 614 \cmdmthoparrel 704 \cmdmthoparset 684 \cmdmthoparsig 656	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfrm 806 \cmdmthoparfun 718 \cmdmthoparmat 821 \cmdmthoparrel 704 \cmdmthoparset 684 \cmdmthoparsig 656 \cmdmthoparsnt 792	$\begin{array}{c} 1398,\ 1400,\ 1417,\ 1419\\ \verb \cmdmthsymelm $
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfrm 806 \cmdmthoparfun 718 \cmdmthoparname 614 \cmdmthoparrel 704 \cmdmthoparset 684 \cmdmthoparsig 656 \cmdmthoparst 792 \cmdmthoparst 670	$\begin{array}{c} 1398,\ 1400,\ 1417,\ 1419\\ \verb \cmdmthsymelm $
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfrm 806 \cmdmthoparfun 718 \cmdmthoparmat 821 \cmdmthoparrame 614 \cmdmthoparrel 704 \cmdmthoparset 684 \cmdmthoparsig 656 \cmdmthoparstr 792 \cmdmthoparsym 732, 762	$\begin{array}{c} 1398,\ 1400,\ 1417,\ 1419\\ \verb \cmdmthsymelm $
C \card	\cmdmthoargstr 666 \cmdmthoargsym 728, 756 \cmdmthoargsymelm 755 \cmdmthoargvec 831 \cmdmthoparcls 642 \cmdmthoparelm 746, 763 \cmdmthoparfam 628 \cmdmthoparfrm 806 \cmdmthoparfun 718 \cmdmthoparname 614 \cmdmthoparrel 704 \cmdmthoparset 684 \cmdmthoparsig 656 \cmdmthoparst 792 \cmdmthoparst 670	$\begin{array}{c} 1398,\ 1400,\ 1417,\ 1419\\ \verb \cmdmthsymelm $

897, 898, 899, 900, 902,	\Continue <u>2397</u>	1038, 1040, 1042, 1044,
903, 1482, 1483, 1484, 1485	\coWCL 1652	1046, 1048, 1050, 1052,
\cmdtxtall 408, 544, 557, 571, 584	\coWMCL 1664	1054, 1056, 1058, 1060,
\cmdtxtarg <u>388</u> , 409	\coWMPL 1687	1062, 1064, 1066, 1068,
\cmdtxtargabr 561	\coWMSO 1610	1070, 1072, 1074, 1076,
\cmdtxtargcom <u>588</u>	\coWMSOL 1608	1078, 1080, 1083, 1092,
\cmdtxtargdef 548	\coWMTL 1641	1094, 1096, 1099, 1120,
\cmdtxtargname 575	\coWPL 1675	1122, 1124, 1126, 1128,
\cmdtxtcom 586, 1244, 1245, 1246	\coWSO 1592	1130, 1132, 1134, 1136,
\cmdtxtdef 546	\coWSOL 1590	1138, 1140, 1142, 1144,
\cmdtxtname 573, 1909	\coWTL 1629	1146, 1148, 1150, 1152,
\cmdtxtoarg <u>393</u> , 409	\crv@false 40	1154, 1157, 1159, 1161,
_	\crv@true 41	1163, 1165, 1168, 1170,
• =	\csdef 143, 144, 145, 146, 147,	1172, 1174, 1176, 1178,
\cmdtxtoargcom <u>590</u> \cmdtxtoargdef <u>550</u>	384, 389, 394, 399, 404,	1180, 1182, 1184, 1186,
<u> </u>	412, 497, 500, 503, 506,	1188, 1190, 1207, 1209,
\cmdtxtoargname 577	509, 515, 1224, 1240, 1242	1211, 1213, 1436, 1438,
\cmdtxtopar <u>403</u> , 409	\csedef 185, 189	1440, 1501, 1503, 1584,
\cmdtxtoparabr 567	\csname . 174, 175, 177, 178,	1586, 1590, 1592, 1596,
\cmdtxtoparcom <u>594</u>	179, 180, 181, 186, 190,	1598, 1602, 1604, 1608,
\cmdtxtopardef <u>554</u>	386, 387, 391, 392, 396,	1610, 1625, 1629, 1633,
$\column{2}{c}$ \cmdtxtoparname $\frac{581}{}$,	397, 401, 402, 406, 407,	1637, 1641, 1648, 1652,
1304, 1307, 1310, 1313,	414, 415, 423, 425, 517, 518	1656, 1660, 1664, 1671,
1316, 1319, 1380, 1383,	\CTL 1807	1675, 1679, 1683, 1687,
1386, 1389, 1392, 1395,	\CTLP 1830, 1834, 1836, 1838	1696, 1700, 1702, 1704,
1408, 1411, 1414, 1433,	\CTLS 1845, 1849, 1851, 1853	1710, 1712, 1714, 1716,
1497, 1498, 1550, 1553,	\CurrentOption	1718, 1720, 1743, 1747,
1556, 1559, 1562, 1565,	(Currentoption	1749, 1751, 1755, 1759,
1568, 1571, 1580, 1581,	D	1763, 1765, 1767, 1777,
1622, 1645, 1668, 1693,	\DBH 1267	1779, 1781, 1788, 1790,
1740, 1774, 1785, 1808,	\DeclareMathAlphabet	1792, 1814, 1818, 1820,
1811, 1826, 1841, 1860,	299, 300, 301, 302	1822, 1829, 1833, 1835,
1875, 1890, 1974, 2108,	\DeclareMathOperator 1102, 1104	1837, 1844, 1848, 1850,
2274, 2276, 2278, 2279,	\DeclareOption 12, 13, 17, 21,	
2280, 2281, 2282, 2283,	25, 29, 33, 37, 41, 45,	1852, 1863, 1867, 1869, 1871, 1878, 1882, 1884,
2284, 2285, 2286, 2288,	49, 54, 55, 60, 61, 67,	1886, 1893, 1897, 1899,
2289, 2291, 2292, 2319,	68, 72, 73, 78, 79, 84,	
2321, 2322, 2323, 2324,	85, 89, 90, 94, 95, 99,	1901, 1904, 1906, 1976,
2325, 2326, 2327, 2328	100, 105, 106, 111, 112,	1978, 1981, 1984, 1986, 1993, 1995, 1998, 2001,
\cmdtxtpar $398, 409$	116, 121, 122, 127, 128, 131	2003, 2010, 2012, 2015,
\c \cmdtxtparabr $\underline{565}$		2018, 2020, 2027, 2029,
$\verb \cmdtxtparcom \underline{592}$		2018, 2020, 2027, 2029, 2032, 2035, 2037, 2044,
$\verb \cmdtxtpardef \underline{552} $	307, 313, 319, 325, 331, 337, 343, 349, 355, 361,	2046, 2049, 2052, 2054,
\cmdtxtparname 579	367, 370, 372, 374, 376,	2040, 2049, 2052, 2054, 2061, 2063, 2066, 2069,
\cmodels <u>936</u>	378, 380, 383, 388, 393,	2001, 2003, 2000, 2009, 2071, 2078, 2080, 2083,
\cmp <u>1096</u>	398, 403, 408, 420, 426,	2086, 2088, 2095, 2097,
\cnf <u>1482</u>	432, 438, 444, 450, 456,	2100, 2103, 2105, 2110,
\Cnt <u>1470</u>	462, 468, 474, 480, 483,	
$\cod \dots \underline{1086}$	485, 487, 489, 491, 496,	2112, 2115, 2118, 2120,
\coimplies <u>931</u>		2127, 2129, 2132, 2135,
\Coloneqq 916	499, 502, 505, 508, 511, 545, 558, 572, 585, 604,	2137, 2144, 2146, 2149,
\coloneqq 916	618, 632, 646, 660, 674,	2152, 2154, 2161, 2163, 2166, 2169, 2171, 2178,
\com@false 56, 77, 79		
\com@true 78	694, 708, 722, 736, 767,	2180, 2183, 2186, 2188,
\comp 952	769, 776, 782, 796, 811, 825, 911, 915, 918, 920,	2195, 2197, 2200, 2203, 2205, 2212, 2214, 2217
\Complete 1244		2205, 2212, 2214, 2217,
\conset 1516, 1517	923, 925, 927, 929, 931,	$2220, 2222, 2229, 2231, \\ 2234, 2237, 2230, 2246$
\ConSig	933, 936, 938, 940, 942,	2234, 2237, 2239, 2246,
\consig	945, 947, 949, 952, 954,	2248, 2251, 2254, 2256
\ConStr	956, 958, 960, 962, 964,	\DoclarsPohus+Comms
	966, 968, 970, 973, 977,	\DeclareRobustCommandx 309,
\constr 1540, 1541 \consym 1515, 1517	979, 981, 987, 989, 991,	311, 315, 317, 321, 323,
		חפפ שפפ חפפ קפע
\Con+d	997, 999, 1001, 1007,	327, 329, 333, 335, 339,
\Contd 902 \contd 894	997, 999, 1001, 1007, 1009, 1011, 1017, 1019, 1021, 1027, 1029, 1031,	327, 329, 333, 335, 339, 341, 345, 347, 351, 353, 357, 359, 363, 365, 411,

422, 424, 428, 430, 434,	1715, 1721, 1905, 1907	\EEGSL 2195
436, 440, 442, 446, 448,	\deg <u>1090</u>	\EExs <u>1904</u>
452, 454, 458, 460, 464,	\Delta 1267, 1268	\EFAGPL 2052
466, 470, 472, 476, 478,	\delta 1940, 2310	\EFAGSL 2186
514, 520, 522, 524, 526,	\denot 945	\EFBGPL 2086
528, 530, 532, 534, 536,	\dep 1480	\EFBGSL 2220
546, 548, 550, 552, 554,	\der 952	
	\Dere 874	\EFCGPL 2018
559, 561, 563, 565, 567,	·	\EFCGSL 2152
573, 575, 577, 579, 581,	\dere	\EFDGPL 2035
586, 588, 590, 592, 594,	\DExpSpace(E/H/C) <u>1262</u>	\EFDGSL 2169
606, 608, 610, 612, 614,	\DExpTime(E/H/C) <u>1261</u>	\EFEGPL 2069
620, 622, 624, 626, 628,	\DF <u>1549</u>	\EFEGSL 2203
634, 636, 638, 640, 642,	\DFA <u>2274</u>	\EFNGSL 2237
648, 650, 652, 654, 656,	\DGPL 2024, 2028, 2030, 2033	\EFOGPL 2001
662, 664, 666, 668, 670,	\DGSL 2158, 2162, 2164, 2167	\EFOGSL
676, 678, 680, 682, 684,	\Diamond 1708	
686, 696, 698, 700, 702,	\DirSet 2332	\EFPL 1984
704, 710, 712, 714, 716,	\dirset 2333, 2334	\EFSL 2118
718, 724, 726, 728, 730,	\dirsym 2332, 2334	\EFXGPL 2103
		\EFXGSL 2254
732, 738, 740, 742, 744,	\Divideetimpera 875	\EG
746, 749, 752, 755, 758,	\divideetimpera 854	\Eg <u>876</u>
761, 770, 772, 777, 784,	\DLH <u>1267</u>	\eg <u>855</u>
786, 788, 790, 792, 798,	\DLogSpace(E/H/C) <u>1256</u>	\EGPL 2058, 2062, 2064, 2067
800, 802, 804, 806, 813,	\DLogTime(E/H/C) <u>1255</u>	· · · · · · · · · · · · · · · · · · ·
815, 817, 819, 821, 827,	\DMod <u>1708</u> , 1713, 1715	\EGSL 2192, 2196, 2198, 2201
829, 831, 833, 835, 1223,	\dnf 1482	\ELH <u>1269</u>
1225, 1228, 1234, 1239,	\do 184, 188	\else 153, 155, 164, 271, 285
1241, 1990, 2007, 2024,	\dom 1086	\ELTL 1790
2041, 2058, 2075, 2092,	\DontPrintSemicolon 2384	\em 545, 558
2124, 2141, 2158, 2175,		\EMC 1749
		\EML 1702
2192, 2209, 2226, 2243	\downarrow 1093	\empchk <u>152</u> , 158, 160,
\DecSet <u>1934</u>	\DownTo	162, 176, 368, 481, 689, 691
\decset 1935, 1936	\DPSpace(E/H/C) <u>1258</u>	
\decset 1935, 1936 \decsym 1934, 1936	\DPTime(E/H/C) \frac{1258}{1257}	\emptyfun <u>1099</u>
\decsym 1934, 1936	-	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto <u>872</u>	$ \begin{array}{cccc} \text{DPTime}(E/H/C) & \dots & \overline{1257} \end{array} $	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto	$\label{eq:def:DPTime} $$ \DQPSpace(E/H/C) \dots \frac{1257}{260} $$$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{1259}} \DQPTime(E/H/C) \ \frac{1259}{\DSpace(E/H/C) \ \frac{1254}{2319}} \\	$\begin{array}{llllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{\DQPTime(E/H/C) \ \frac{1259}{\DSpace(E/H/C) \ \frac{2319}{\DTime(E/H/C) \ \frac{2319}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1257}{\DTime(E/H/C) \} \} \} \}	\emptyfun
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{1259}} \DQPTime(E/H/C) \ \frac{1259}{\DSpace(E/H/C) \ \frac{1254}{2319}} \\	\emptyfun
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{\DQPTime(E/H/C) \ \frac{1259}{\DSpace(E/H/C) \ \frac{2319}{\DTA \ \DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{952}{\DTa} \}	\emptyfun
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 873 \defacto 852 \defcomcls 1223, 1248, 1249, 1250, 1251	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{1259}} \DQPTime(E/H/C) \ \frac{1259}{\DTA \ \DTime(E/H/C) \ \frac{2319}{\DTime(E/H/C) \ \frac{1253}{\dual \ \DTime(E/H/C) \ \frac{952}{\DTA \ \DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \DTime(E/H/C) \ \DTime(E/H/C) \ \frac{1253}{\DTime(E/H/C) \ \DTime(E/H/C) \ \DTi	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{1260} \\DQPSpace(E/H/C) \ \frac{1260}{1259} \\DSpace(E/H/C) \ \frac{1254}{1254} \\DTA \ \frac{2319}{1253} \\dual \ \frac{1253}{1253} \\dual \ \frac{1253}{1252} \\End{bmatrix}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223, 1248, 1249, 1250, 1251 \defcomclsgrp	\DPTime(E/H/C) \ \frac{1257}{1260} \\DQPSpace(E/H/C) \ \frac{1260}{1259} \\DSpace(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{1253} \\dual \ \frac{1253}{1253} \\dual \ \dual \ \frac{1253}{1253} \\dual \ \dual \ \dual \ \frac{1253}{1253} \\dual \ \dual \dual \ \dual \dual \ \dual \d	\emptyfun
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{1259}} \\DQPTime(E/H/C) \ \frac{1259}{1259} \\DSpace(E/H/C) \ \frac{1254}{2319} \\DTime(E/H/C) \ \frac{1253}{1253} \\dual \ \frac{952}{2319} \\Eactrack{EAFMC} \ \frac{1855}{1765} \\EagPL \ \Lagphi	\emptyfun
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{1259}} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C) \ \frac{1253}{1253}} \\dual \ \frac{1253}{\dual \ \frac{1253}{1253}} \\Earrow E \\Earrow E \\Earrow \frac{1855}{1765} \\Earrow EAGPL \ \frac{2044}{\EagSL} \\Earrow \frac{2044}{2178} \\Earrow \frac{1257}{2178} \\\Earrow \frac{1257}{2178} \\\Earrow \frac{1257}{2178} \\\Earrow \frac{1257}{2178} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\emptyfun
\decsym	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1259} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{52}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1765} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1244}{\dual} \\Easy \ \frac{1259}{\dual} \\Easy \quall \frac{1259}{\dual} \\Easy \quall \frac{1259}{\dual} \\Easy \quall \frac{1253}{\dual} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223, 1248, 1249, 1250, 1251 \defcomclsgrp	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C) \ \frac{1260}{1259}} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C) \ \frac{1253}{1253}} \\dual \ \frac{1253}{\dual \ \frac{1253}{1253}} \\Earrow E \\Earrow E \\Earrow \frac{1855}{1765} \\Earrow EAGPL \ \frac{2044}{\EagSL} \\Earrow \frac{2044}{2178} \\Earrow \frac{1257}{2178} \\\Earrow \frac{1257}{2178} \\\Earrow \frac{1257}{2178} \\\Earrow \frac{1257}{2178} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\emptyfun
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1259} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{52}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1765} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1253}{\dual} \\Easy \ \frac{1253}{1253} \\Easy \ \frac{1244}{\dual} \\Easy \ \frac{1259}{\dual} \\Easy \quall \frac{1259}{\dual} \\Easy \quall \frac{1259}{\dual} \\Easy \quall \frac{1253}{\dual} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223, 1248, 1249, 1250, 1251 \defcomclsgrp	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{1253}{\dual} \\end{aligned} \text{E} \\\E \ \frac{1855}{\EAFMC} \ \frac{1765}{\EAGPL} \\EAGSL \ \frac{2178}{\Easy} \\Easy \ \frac{1244}{\EATL} \\\EATL \ \end{aligned}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DSpace(E/H/C) \ \frac{1254}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{\dual} \\\ \frac{E}{\EAFMC} \ \frac{1855}{1765} \\EAFMC \ \frac{1765}{\EAGPL} \\ \EAGSL \ \frac{2044}{\EAGSL} \\\ \EATL \ \ \EATL \ \ 1869 \\EATLP \ \ 1884	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DSpace(E/H/C) \ \frac{1254}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{952}{2} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{\dual} \\\DTime(E/H/C) \ \frac{1253}{253} \\dual \ \frac{855}{252} \\\EAFMC \ \frac{1855}{1765} \\EAGPL \ \frac{2044}{\EAGSL} \\EASY \ \frac{1244}{\EAGSL} \\EATL \ \ \frac{1869}{\EATLP} \\EATLL \ \frac{1869}{1884} \\EATLS \ \frac{1899}{\EBF} \\EBF \ \frac{1438}{\EATLS} \\\EAFMC \ \frac{1438}{\EATLS} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1259} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{952}{\dual} \\ESSE \ \frac{E}{\Armone{E}} \\\ESSE \ \frac{1855}{\Armone{E}} \\\EAGPL \ \frac{2044}{\Armone{E}} \\\EAGSL \ \frac{2178}{\Armone{E}} \\\EATL \ \ \frac{1244}{\Armone{E}} \\\EATL \ \ \frac{1869}{\Armone{E}} \\\EATL \ \ \ \frac{1869}{\Armone{E}} \\\EATL \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{952}{\dual} \\ESSE \ \frac{E}{\Armone{E}} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{tabular}{ l l l l l l l l l l l l l l l l l l l$
\decsym	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1259} \\DSpace(E/H/C) \ \frac{1254}{1254} \\DTA \ \frac{2319}{\DTime(E/H/C)} \ \frac{1253}{1253} \\dual \ \frac{952}{\Quad EAFMC} \ \frac{1855}{1765} \\EAFMC \ \frac{1765}{\EAGPL} \ \frac{2044}{\EAGSL} \ \frac{2178}{\Easy} \ \frac{1244}{\EATLS} \ \frac{1869}{\EATLP} \ \frac{1885}{\EAFMC} \ \frac{1885}{\EAFMC} \ \frac{1889}{\EATL} \ \frac{1884}{\EATLS} \ \frac{1889}{\EATLS} \ \frac{1889}{\EAFMC} \ \frac{1869}{\EAFMC} \ \frac{1869}{\EAGGL} \ \frac{1269}{\EAGGPL} \ \frac{1269}{\ECGPL} \ \frac{1269}{\ECGPL} \ \frac{1269}{\ECGPL} \ \frac{12010}{\ECGPL} \ \frac{12010}{\ECGPL} \ \frac{12010}{\ECGPL} \ \frac{12010}{\ECGPL} \ \frac{12010}{\ECGPL} \\ \frac{12010}{\ECGPL	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	\DPTime(E/H/C) \ \frac{1257}{\DQPSpace(E/H/C)} \ \frac{1260}{1260} \\DQPTime(E/H/C) \ \frac{1259}{1259} \\DSpace(E/H/C) \ \frac{1254}{1254} \\DTA \ \frac{2319}{1253} \\dual \ \frac{952}{1253} \\dual \ \frac{952}{1253} \\dual \ \frac{1253}{952} \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	\DPTime(E/H/C) \ \frac{1257} \DQPSpace(E/H/C) \ \frac{1260} \DQPTime(E/H/C) \ \frac{1259} \DSpace(E/H/C) \ \frac{1254} \DTA \ \frac{2319} \DTime(E/H/C) \ \frac{1253} \dual \ \frac{952} \textbf{E} \textbf{E} \textbf{E} \textbf{AFMC} \ \frac{1855}{1765} \textbf{EAGPL} \ \frac{2044}{2044} \textbf{EAGSL} \ \frac{2178}{2178} \textbf{Easy} \ \frac{1244}{244} \textbf{EATL} \ \ 1869 \textbf{EATLP} \ \ 1884 \textbf{EATLS} \ \ 1899 \textbf{EBF} \ \ 1438 \textbf{EBGPL} \ \ 2078 \textbf{EBGSL} \ \ 2212 \textbf{EBH} \ \ \ 1269 \textbf{ECGPL} \ \ 2010 \textbf{ECGSL} \ \ 2144 \textbf{ECTL} \ \ 1820	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	\DPTime(E/H/C) \ \frac{1257} \DQPSpace(E/H/C) \ \frac{1260} \DQPTime(E/H/C) \ \frac{1259} \DSpace(E/H/C) \ \frac{1254} \DTA \ \frac{2319} \DTime(E/H/C) \ \frac{1253} \dual \ \frac{952} \textbf{E} \textbf{E} \textbf{E} \textbf{AFMC} \ \frac{1855}{1765} \textbf{EAGPL} \ \frac{2044}{2044} \textbf{EAGSL} \ \frac{2178}{2178} \textbf{Easy} \ \frac{1244}{244} \textbf{EATL} \ \ \frac{1869}{286} \textbf{EATLP} \ \ \frac{1889}{286} \textbf{EBF} \ \ \frac{1438}{2178} \textbf{EBGPL} \ \ \frac{2010}{2010} \textbf{ECGSL} \ \ \frac{2144}{2144} \textbf{ECTL} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{ll} & & & & & & & & & & & & & & & & & & $
\decsym	\text{DPTime(E/H/C)} \text{1257} \text{\DQPSpace(E/H/C)} \text{1260} \text{\DQPTime(E/H/C)} \text{1259} \text{\DSpace(E/H/C)} \text{1254} \text{\DTA} \text{2319} \text{\DTime(E/H/C)} \text{1253} \text{\dual} \text{\general} \text{\general} \text{\Easy} \text{\substack} \text{\EasFMC} \text{1765} \text{\EasFMC} \text{2178} \text{\Easy} \text{\general} \text{244} \text{\Easy} \text{\general} \text	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\decsym	\text{DPTime(E/H/C)} \text{1257} \text{\DQPSpace(E/H/C)} \text{1260} \text{\DQPTime(E/H/C)} \text{1259} \text{\DSpace(E/H/C)} \text{1254} \text{\DTA} \text{2319} \text{\DTime(E/H/C)} \text{1253} \text{\dual} \text{\dual} \text{\general} \text{252} \text{\dual} \text{\general} \ge	$\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{ll} & & & & & & & & & & & & & & & & & & $
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223,	\text{DPTime(E/H/C)} \text{1257} \text{\DQPSpace(E/H/C)} \text{1260} \text{\DQPTime(E/H/C)} \text{1259} \text{\DSpace(E/H/C)} \text{1254} \text{\DTA} \text{2319} \text{\DTime(E/H/C)} \text{1253} \text{\dual} \text{\dual} \text{252} \text{\dual} \text{\dual} \text{\substace} \text{\ESS} \text{\EAFMC} \text{1765} \text{\EAGPL} \text{2044} \text{\EAGSL} \text{2178} \text{\EASY} \text{\LEATL} \text{1869} \text{\EATL} \text{\EATL} \text{1869} \text{\EATLP} \text{\EATL} \text{\LEAFMC} \t	$\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{ll} & & & & & & & & & & & & & & & & & & $
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223,	\text{DPTime(E/H/C)} \frac{1257}{\text{DQPSpace(E/H/C)}} \frac{1260}{\text{DQPTime(E/H/C)}} \frac{1259}{\text{DSpace(E/H/C)}} \frac{1254}{\text{DTA}} \frac{2319}{\text{DTime(E/H/C)}} \frac{1253}{\text{dual}} \frac{952}{\text{DTime(E/H/C)}} \frac{1253}{\text{dual}} \frac{1855}{\text{EAFMC}} \frac{1855}{\text{EAFMC}} \frac{1765}{\text{EAGPL}} \frac{2044}{\text{EAGSL}} \frac{2178}{\text{Easy}} \frac{1244}{\text{EATL}} \frac{1869}{\text{EATLP}} \frac{1884}{\text{EATL}} \frac{1869}{\text{EBF}} \frac{1438}{\text{EBFL}} \frac{2078}{\text{EBGSL}} \frac{2212}{\text{EBH}} \frac{1269}{\text{ECGPL}} \frac{2010}{\text{ECGSL}} \frac{2112}{\text{EBH}} \frac{1269}{\text{ECTLP}} \frac{1820}{\text{ECTLP}} \frac{1820}{\text{ECTLP}} \frac{1820}{\text{ECTLS}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{1288}} \right\}	$\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{ll} & & & & & & & & & & & & & & & & & & $
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223,	\text{DPTime(E/H/C)} \frac{1257}{\text{DQPSpace(E/H/C)}} \frac{1260}{\text{DQPTime(E/H/C)}} \frac{1259}{\text{DSpace(E/H/C)}} \frac{1254}{\text{DTA}} \frac{2319}{\text{DTime(E/H/C)}} \frac{1253}{\text{dual}} \frac{952}{\text{DTime(E/H/C)}} \frac{1253}{\text{dual}} \frac{1855}{\text{EAFMC}} \frac{1765}{\text{EAGPL}} \frac{2044}{\text{EAGSL}} \frac{2178}{\text{Easy}} \frac{1244}{\text{EATL}} \frac{1869}{\text{EATL}} \frac{1869}{\text{EATL}} \frac{1889}{\text{EBF}} \frac{1438}{\text{EBFL}} \frac{2078}{\text{EBGSL}} \frac{2212}{\text{EBH}} \frac{1269}{\text{ECGPL}} \frac{169}{\text{ECTL}} \frac{1820}{\text{ECTLP}} \frac{1820}{\text{ECTLP}} \frac{1820}{\text{ECTLS}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{1288}} \frac{1287}{\text{Edgrel}} \frac{1287}{\text{1288}} \frac{1287}{\text{EDGSL}} \frac{1287}{\text{1288}} \frac{1287}{\text{EDGSL}} \frac{1287}{\text{1288}} \frac{1287}{\text{1288}} \frac{1287}{\text{EDGSL}} \frac{1287}{\text{1288}}	$\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{ll} & & & & & & & & & & & & & & & & & & $
\decsym 1934, 1936 \Dedicto 872 \dedicto 851 \def 493 \Defacto 873 \defacto 852 \defcomcls 1223,	\text{DPTime(E/H/C)} \frac{1257}{\text{DQPSpace(E/H/C)}} \frac{1260}{\text{DQPTime(E/H/C)}} \frac{1259}{\text{DSpace(E/H/C)}} \frac{1254}{\text{DTA}} \frac{2319}{\text{DTime(E/H/C)}} \frac{1253}{\text{dual}} \frac{952}{\text{DTime(E/H/C)}} \frac{1253}{\text{dual}} \frac{1855}{\text{EAFMC}} \frac{1855}{\text{EAFMC}} \frac{1765}{\text{EAGPL}} \frac{2044}{\text{EAGSL}} \frac{2178}{\text{Easy}} \frac{1244}{\text{EATL}} \frac{1869}{\text{EATLP}} \frac{1884}{\text{EATL}} \frac{1869}{\text{EBF}} \frac{1438}{\text{EBFL}} \frac{2078}{\text{EBGSL}} \frac{2212}{\text{EBH}} \frac{1269}{\text{ECGPL}} \frac{2010}{\text{ECGSL}} \frac{2112}{\text{EBH}} \frac{1269}{\text{ECTLP}} \frac{1820}{\text{ECTLP}} \frac{1820}{\text{ECTLP}} \frac{1820}{\text{ECTLS}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{EdgRel}} \frac{1287}{\text{1288}} \right\}	$\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{ll} & & & & & & & & & & & & & & & & & & $

2145, 2147, 2153, 2155,	\fi 153,	\GFG <u>2286</u>
2162, 2164, 2170, 2172,	155, 164, 228, 233, 239,	\gfp <u>1108</u>
2179, 2181, 2187, 2189,	244, 259, 264, 279, 287,	\GMC 1739
2196, 2198, 2204, 2206,	288, 292, 294, 596, 837,	\GML <u>1692</u>
2213, 2215, 2221, 2223,	904, 1217, 1273, 1296,	\GoTo <u>2397</u>
2230, 2232, 2238, 2240,	1425, 2267, 2340, 2348,	\grp@false 83, 85
2247, 2249, 2255, 2257	2369, 2370, 2377, 2407	\grp@true
\ent 1370	\fig@false 110, 112	\GrpName
	_	-
\enumeration $\underline{973}$	\fig@true 111	\grpname 1280, 1281
\EOGPL 1993	\fix <u>1108</u>	\Guess <u>2400</u>
\EOGSL 2127	\flat 2259	
\EPL 1976	\floor 1180	H
\EPTL 1779	\FNGSL 2234, 2238, 2240	\H 1802
•	\fnttls@false 37	\Hard 1244
\equiv 941, 943		
\ergo <u>856</u>	\fnttls@true 36	\HstSet <u>1348</u> , <u>1946</u>
\Errata <u>877</u>	\F0 1504	\hstset
\errata <u>857</u>	\FOGPL 1998, 2002, 2004	1349, 1350, 1351, 1353,
\Erratum 878	\FOGSL 2132, 2136, 2138	1947, 1948, 1949, 1951
\erratum 858	\FOL 1496	\hstsym
	\footnotesize 1105	1348, 1350, 1352, 1354,
\esc <u>1370</u>	• • • • • • • • • • • • • • • • • • • •	
\ESL 2110	\forall 1441, 1463,	1946, 1948, 1950, 1952
\etal 859	1473, 1474, 1705, 1752,	\hypersetup 249
\etc 860	1768, 1782, 1793, 1823,	\hypref@false 33
	1838, 1853, 1872, 1887,	\hypref@true 32
\evn <u>1194</u>	1902, 1979, 1987, 1996,	
\EvnSym <u>1397</u>	2004, 2013, 2021, 2030,	I
\evnsym 1397, 1398		\ie 861
\ExecuteOptions 133	2038, 2047, 2055, 2064,	· · · · · · · · · · · · · · · · · · ·
\EXGPL 2095	2072, 2081, 2089, 2098,	\IF
\EXGSL	2106, 2113, 2121, 2130,	\if 153, 155, 164
	2138, 2147, 2155, 2164,	\if@twocolumn 137, 283
\exists 1439, 1461,	2172, 2181, 2189, 2198,	\ifalg@ 126, 2382
1473, 1474, 1703, 1750,	2206, 2215, 2223, 2232,	\ifamsdef@ 16, 222
1766, 1780, 1791, 1821,		\ifamsthm@ 20, 230
1836, 1851, 1870, 1885,	2240, 2249, 2257, 2402	•
1900, 1977, 1985, 1994,	\FPCub <u>1248</u>	\ifaut@ 98, 2272
2002, 2011, 2019, 2028,	\FPL 1981, 1985, 1987	\ifaux0 11, 220
	\FPLin <u>1248</u>	\ifchgbar@ 44, 276
2036, 2045, 2053, 2062,	\FPQdr 1248	\ifcom@ 77, 1222
2070, 2079, 2087, 2096,	\FPT 1248	\ifcrv@ 40, 266
2104, 2111, 2119, 2128,		\ifcsdef 137
2136, 2145, 2153, 2162,		
2130, 2143, 2133, 2102,	\free	
2170, 2179, 2187, 2196,	\frm@false 104, 106	\ifdef 299, 300, 301, 302
2170, 2179, 2187, 2196,	\frm@false 104, 106 \frm@true 105	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230,	\frm@false 104, 106 \frm@true 105 \From	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168,</u> 308, 314,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401	\frm@false 104, 106 \frm@true 105	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false 104, 106 \frm@true 105 \From	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168,</u> 308, 314,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false \ 104, 106 \frm@true \ 105 \From \ \\ 2394 \FSL \ 2115, 2119, 2121 \fst \ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168, 308, 314,</u> 320, 326, 332, 338, 344, 350, 356, 362, 371, 373,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false \ 104, 106 \frm@true \ 105 \From \ 2394 \FSL \ 2115, 2119, 2121 \fst \ 1215 \Function \ 2388	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168, 308, 314,</u> 320, 326, 332, 338, 344, 350, 356, 362, 371, 373, 375, 377, 379, 385, 390,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false \ 104, 106 \frm@true \ 105 \From \ 2394 \FSL \ 2115, 2119, 2121 \fst \ 1215 \Function \ 2388 \funset \ 1522, 1523	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168, 308, 314,</u> 320, 326, 332, 338, 344, 350, 356, 362, 371, 373, 375, 377, 379, 385, 390, 395, 400, 405, 413, 421,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter \document 174, 177, 180, 185, 189 \ExpSpace(E/H/C) \document \frac{1262}{1261}	\frm@false	$\label{eq:continuous_series} $$ \left(\begin{array}{c} 0.00000000000000000000000000000000000$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168,</u> 308, 314, 320, 326, 332, 338, 344, 350, 356, 362, 371, 373, 375, 377, 379, 385, 390, 395, 400, 405, 413, 421, 427, 433, 439, 445, 451, 457, 463, 469, 475, 484,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter \document 174, 177, 180, 185, 189 \ExpSpace(E/H/C) \document \frac{1262}{1261}	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . <u>168,</u> 308, 314, 320, 326, 332, 338, 344, 350, 356, 362, 371, 373, 375, 377, 379, 385, 390, 395, 400, 405, 413, 421, 427, 433, 439, 445, 451, 457, 463, 469, 475, 484,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	$\label{eq:linear_continuous_series} $$ \left(\begin{array}{c} 168, 300, 301, 302 \\ ifenmtls@ \dots 28, 241 \\ ifexclavar & \underline{168}, 308, 314, \\ 320, 326, 332, 338, 344, \\ 350, 356, 362, 371, 373, \\ 375, 377, 379, 385, 390, \\ 395, 400, 405, 413, 421, \\ 427, 433, 439, 445, 451, \\ 457, 463, 469, 475, 484, \\ 486, 488, 490, 492, 498, \\ 501, 504, 507, 510, 516, \\ 946, 980, 982, 990, 992, \\ \end{tabular} $
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	$\label{eq:linear_selection} $$ \left(\begin{array}{c} \text{lifdef} \ \dots \ 299, 300, 301, 302 \\ \text{lifenmtls@} \ \dots \ 28, 241 \\ \text{lifexclavar} \ \frac{168}{308, 308, 314,} \\ 320, 326, 332, 338, 344, \\ 350, 356, 362, 371, 373, \\ 375, 377, 379, 385, 390, \\ 395, 400, 405, 413, 421, \\ 427, 433, 439, 445, 451, \\ 457, 463, 469, 475, 484, \\ 486, 488, 490, 492, 498, \\ 501, 504, 507, 510, 516, \\ 946, 980, 982, 990, 992, \\ 1000, 1002, 1010, 1012, \\ \end{tabular}$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 expandafter	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 expandafter	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 expandafter	\frm@false	$\label{eq:linear_selection} $$ \left(\begin{array}{c} \text{lifdef} \ \dots \ 299, 300, 301, 302 \\ \text{lifenmtls@} \ \dots \ 28, 241 \\ \text{lifexclavar} \ . \ \ \frac{168}{6}, 308, 314, \\ 320, 326, 332, 338, 344, \\ 350, 356, 362, 371, 373, \\ 375, 377, 379, 385, 390, \\ 395, 400, 405, 413, 421, \\ 427, 433, 439, 445, 451, \\ 457, 463, 469, 475, 484, \\ 486, 488, 490, 492, 498, \\ 501, 504, 507, 510, 516, \\ 946, 980, 982, 990, 992, \\ 1000, 1002, 1010, 1012, \\ 1020, 1022, 1030, 1032, \\ 1041, 1043, 1051, 1053, \\ 1061, 1067, 1077, 1169, \\ \end{tabular}$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 expandafter	\frm@false	\ifdef \ldots 299, 300, 301, 302 \ifenmtls@ \ldots 28, 241 \ifexclavar \ldots \frac{168}{308, 314,} \ldots 20, 326, 332, 338, 344, 350, 356, 362, 371, 373, 375, 377, 379, 385, 390, 395, 400, 405, 413, 421, 427, 433, 439, 445, 451, 457, 463, 469, 475, 484, 486, 488, 490, 492, 498, 501, 504, 507, 510, 516, 946, 980, 982, 990, 992, 1000, 1002, 1010, 1012, 1020, 1022, 1030, 1032, 1041, 1043, 1051, 1053, 1061, 1067, 1077, 1169, 1175, 1181, 1187, 1210
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \ expandafter	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \ expandafter	\frm@false	\ifdef \ldots 299, 300, 301, 302 \ifenmtls@ \ldots 28, 241 \ifexclavar \ldots \frac{168}{308, 314,} \ldots 20, 326, 332, 338, 344, 350, 356, 362, 371, 373, 375, 377, 379, 385, 390, 395, 400, 405, 413, 421, 427, 433, 439, 445, 451, 457, 463, 469, 475, 484, 486, 488, 490, 492, 498, 501, 504, 507, 510, 516, 946, 980, 982, 990, 992, 1000, 1002, 1010, 1012, 1020, 1022, 1030, 1032, 1041, 1043, 1051, 1053, 1061, 1067, 1077, 1169, 1175, 1181, 1187, 1210
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \ expandafter	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \ expandafter	\frm@false	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . 168, 308, 314,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	$\label{eq:linear_constraints} \begin{array}{llllllllllllllllllllllllllllllllllll$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	$eq:linear_continuous_con$
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	\ifdef 299, 300, 301, 302 \ifenmtls@ 28, 241 \ifexclavar . 168, 308, 314,
2170, 2179, 2187, 2196, 2204, 2213, 2221, 2230, 2238, 2247, 2255, 2401 \expandafter	\frm@false	$eq:linear_continuous_con$

1		
\iflog@ 93, 1430	1069, 1171, 1177, 1183,	\mdseries 381, 572, 585
\ifmth@ 71, 909	1189, 1212, 1721, 1907	\MElse <u>2403</u>
\ifmthgen@ 59, 601	\Leftarrow 928, 930	\MElseIf <u>2403</u>
\ifp <u>1108</u>	\Leftrightarrow 932, 934	\MFO 1503
\ifquestvar <u>170</u>	\leftrightarrow 921, 1459	\MFOL 1501
\ifstarvar <u>166</u> ,	\len <u>1209</u>	\middle 1045
912, 916, 953, 955, 967,	\Let <u>2391</u>	\MIf 2403
974, 978, 988, 998, 1008,	\let 1801, 1802, 1803	\min <u>1198</u>
1018, 1028, 1039, 1049,	\LExs <u>1461</u>	\MinSym 1416
1059, 1073, 1711, 1717	$1461, \overline{1462}$	\minsym 1418, 1419
\iftab@ 120, 2375	\lfloor 1183, 1185	\ML 1692
\ifthmtls@ 24, 235	\lfp <u>1108</u>	\models 937, 939
\iftxt@ 66, 842	\lift <u>1376</u>	
\iftxtgen@ 53, 542	\LImp 1457	\movFun
\ifwrpfig@ 115, 2366	\limp 918	\MovRel <u>1338</u>
\int	\limpsym 1457, 1458	\movRel <u>1937</u>
\img <u>1086</u>	\linenumbers 284, 286	\movrel 1338, 1339
\implied 927	\linnum@false 48	\movsym 1937, 1938, 1939
· -	\linnum@true 49	\MPL 1679, 1684, 1688
_		\MSO 1598, 1605, 1611
\inf	\11bracket 948, 950	\MSOL 1596, 1603, 1609
\infty 1127, 1131, 1133,	\llcorner 1105	\mth 483 , 948 , 950 , 957 ,
1135, 1139, 1141, 1143,	\LNeg <u>1449</u>	959, 961, 963, 965, 969,
1147, 1149, 1151, 1155	\lnegsym 1449, 1450	971, 975, 976, 983, 984,
\int <u>1372</u>	\LNot	985, 986, 993, 994, 995,
\interdisplaylinepenalty 227	\landsym 1451, 1452	996, 1003, 1004, 1005,
\itr 184, 185, 186, 188, 189, 190	\log@false 56, 62, 93, 95	1006, 1013, 1014, 1015,
***	\log@true 94	1016, 1023, 1024, 1025,
K	\LogSig <u>1443</u>	1026, 1033, 1034, 1035,
\kern 1106	\logsig 1443, 1444	1036, 1045, 1047, 1055,
\KrpStr <u>1723</u>	\LogSpace(E/H/C) <u>1256</u>	1057, 1063, 1065, 1069,
\krpstr 1723, 1724	\LogStr <u>1487</u>	1071, 1075, 1084, 1100,
-	\logstr 1487, 1488	1158, 1160, 1162, 1164,
L	\LogTime(E/H/C) $\underline{1255}$	1166, 1171, 1173, 1177,
\LAA11 <u>1573</u>	\lor 1455	,,
		1179, 1183, 1185, 1189,
\laallsym 1575, 1576	\lowercase 689, 691	1179, 1183, 1185, 1189, 1191, 1208, 1212, 1214.
\laallsym		1191, 1208, 1212, 1214,
\laallsym	\lowercase 689, 691	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270,
\laallsym	$eq:continuous_continuous$	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715,
\laallsym	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333	\lowercase 689, 691 \lst 1215 \LTL 1773 \lvert 1177, 1179	$\begin{array}{c} 1191, 1208, 1212, 1214,\\ 1267, 1268, 1269, 1270,\\ 1271, 1272, 1713, 1715,\\ 1719, 1721, 1905, 1907\\ \verb \mth@false$
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732	\lowercase	$\begin{array}{c} 1191, 1208, 1212, 1214,\\ 1267, 1268, 1269, 1270,\\ 1271, 1272, 1713, 1715,\\ 1719, 1721, 1905, 1907\\ \verb \mth@false $
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453	\lowercase	$\begin{array}{c} 1191, 1208, 1212, 1214,\\ 1267, 1268, 1269, 1270,\\ 1271, 1272, 1713, 1715,\\ 1719, 1721, 1905, 1907\\ \verb \mth@false $
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317	\lowercase	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mth@true 72 \mtharg 485 \mthargcls 630 \mthargelm 734
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317	\lowercase	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mth@true 72 \mtharg 485 \mthargcls 630 \mthargelm 734 \mthargfam 616
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LAll 1463, 1464 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014, 1015, 1016, 1023, 1024, 1025, 1026, 1715, 1905	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mth@true 72 \mtharg 485 \mthargcls 630 \mthargelm 734 \mthargfam 616 \mthargfrm 794
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LAll 1464 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014, 1015, 1016, 1023, 1024,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 \Macro 2388 \mathaccent 969 \mathbbo 299	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 hth@false
\laallsym	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbin 769	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 https://doi.org/10.1001/htt
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1463, 1464 \lanbda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbin 769 \mathcal 604	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907
\laallsym	\lowercase 689, 691 \lst	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfrm 794 \mthargmat 809 \mthargrel 602 \mthargrel 602 \mthargrel 692
\laallsym 1575, 1576 \labFun 1732 \labsym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lvert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \mathfrak 660	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \https://documents.org/li> \https:
\laallsym	\lowercase 689, 691 \lst 1215 \LTL 1773 \lvert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \https://documents.org/line.org/li
\laallsym	\lowercase 689, 691 \lst 1215 \LTL 1773 \lvert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mth@true 72 \mtharg 485 \mthargcls 630 \mthargelm 734 \mthargfam 616 \mthargfam 794 \mthargfun 706, 1079, 1081 \mthargmat 809 \mthargname 602 \mthargrel 672, 675 \mthargsig 644 \mthargsig 644 \mthargsig 644 \mthargsig 1270, 1270, 1270
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lvert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbbo 604 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargmat 809 \mthargname 602 \mthargrel 692 \mthargset 672, 675 \mthargsnt 780 \mthargstr 658
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathpzc 301, 646	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargmat 809 \mthargname 602 \mthargset 672, 675 \mthargstr 780 \mthargstr 658 \mthargsym 720
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LA11 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargname 602 \mthargram 692 \mthargsig 644 \mthargstr 780 \mthargstr 658 \mthargsym 720 \mthargvec 823
\laallsym	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathop 767, 1105 \mathring 961	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargmat 809 \mthargname 602 \mthargset 672, 675 \mthargstr 780 \mthargstr 658 \mthargsym 720
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105 \mathring 961 \mathring 961	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargname 602 \mthargram 692 \mthargsig 644 \mthargstr 780 \mthargstr 658 \mthargsym 720 \mthargvec 823
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105 \mathring 961 \mathrm 674 \mathscr 302, 618	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargname 602 \mthargrel 692 \mthargset 672, 675 \mthargstr 780 \mthargsym 720 \mthcls 630
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105 \mathring 961 \mathrm 674 \mathscr 302, 618 \mathsf 708, 782, 811	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargname 602 \mthargrel 692 \mthargsig 644 \mthargsym 720 \mthargsym 720 \mthargvec 823 \mthelm 734
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105 \mathring 961 \mathrm 674 \mathscr 302, 618 \mathsf 708, 782, 811 \mathtt 722	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargname 602 \mthargrame 602 \mthargset 672, 675 \mthargsig 644 \mthargsym 720 \mthargvec 823 \mthcls 630 \mthelm 734 \mthelm 734
\laallsym 1575, 1576 \labFun 1732 \labSym 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105 \mathring 961 \mathring 961 \mathscr 302, 618 \mathsf 708, 782, 811 \mathtt 722 \max 1198	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 706, 1079, 1081 \mthargname 602 \mthargrel 692 \mthargset 672, 675 \mthargsym 720 \mthargsym 720 \mthargvec 823 \mthelm 734 \mthelm 734 \mthargsym 720 \mthargsym 720 \mthelm 734 \mthelm 734 \mthelm 734 \mthfam 616
\laallsym 1575, 1576 \labFun 1732 \labFun 1732, 1733 \LAll 1461 \lallsym 1463, 1464 \Lambda 2333 \lambda 1732 \land 1453 \Lang 2317 \langle 1013, 1014,	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathpzc 301, 646 \mathring 961 \mathring 961 \mathring 674 \mathscr 302, 618 \mathsf 708, 782, 811 \mathtt 722 \max 1198 \maxSym 1416	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharg 485 \mthargelm 734 \mthargfam 616 \mthargfun 794 \mthargnam 602 \mthargrel 692 \mthargset 672, 675 \mthargsig 644 \mthargsym 720 \mthargsym 720 \mthargsym 720 \mthargsym 720 \mthargvec 823 \mthfam 616 \mthfam 616 \mthfam 616 \mthfam 794 \mthfam 616 \mthfam 616 \mthfam 616 \mthfun 794 \mthgen@false 59, 62 \mthgen@talse 59, 62
\laallsym	\lowercase 689, 691 \lst 1215 \LTL 1773 \lVert 1177, 1179 \lvert 1069, 1071, 1171, 1173, 1212, 1214 M \Macro 2388 \mathaccent 969 \mathbbo 299 \mathbbo 299 \mathbin 769 \mathcal 604 \matheus 300, 632 \matheus 300, 632 \mathfrak 660 \mathit 694, 796, 825 \mathnormal 736 \mathop 767 \mathop 767 \mathpzc 301, 646 \mathrel 776, 1105 \mathring 961 \mathring 961 \mathstr 708, 782, 811 \mathtt 722 \max 1198 \maxsym 1416, 1417	1191, 1208, 1212, 1214, 1267, 1268, 1269, 1270, 1271, 1272, 1713, 1715, 1719, 1721, 1905, 1907 \mth@false 62, 71, 73 \mtharge 485 \mthargelm 734 \mthargfam 616 \mthargfun 706, 1079, 1081 \mthargname 602 \mthargrel 692 \mthargrel 692 \mthargset 672, 675 \mthargsig 644 \mthargsym 720 \mthargvec 823 \mthfam 616 \mthfam 616 \mthfam 734 \mthfam 616 \mthfam 616 \mthfam 616 \mthfun 734 \mthfun 794 \mthfun 794 \mthfun 794 \mthgen@false 59, 62

\mthlbop \frac{765}{0}, 913, 914, 916,	40, 44, 48, 53, 59, 66,	\OddSym <u>1397</u>
919, 921, 1093, 1095, 1097	71, 77, 83, 88, 93, 98,	\oddsym 1399, 1400
\mthlrel	104, 110, 115, 120, 126, 137	\odot 1472
<u>774,</u> 924, 926, 928, 930,	\newmth 420,	\OGPL 1990, 1994, 1996, 1999
932, 934, 937, 939, 941, 943	$429, 431, 435, 437, \overline{459}, 461$	\OGSL 2124, 2128, 2130, 2133
\mthluop <u>765</u>	\newmtharg 432, 441, 443, 447, 449	\Omega 1114
\mthmat <u>809</u>	\newmthargsty $\underline{438}$, 486 , 501	\omega 1113
\mthname <u>602</u>	\newmthoarg $\underline{444}$, 453 , 455	\Omicron 1118
\mthoarg <u>487</u>	\newmthoargsty . $\underline{450}$, 488 , 504	\omicron <u>143,</u> 1117
\mthopar 491	\newmthopar $\underline{468}$, $\underline{477}$, $\underline{479}$	\oplus 1416
\mthpar 489	\newmthoparsty . 474, 492, 510	\OppSym <u>1321</u> , 1334, 1335,
\mthparcls <u>630</u>	\newmthpar 456, 465, 467, 471, 473	1353, 1354, 1365, 1366,
\mthparelm <u>734</u>	\newmthparsty 462, 490, 507	1925, 1926, 1951, 1952,
\mthparfam <u>616</u>	\newmthsty \(\frac{426}{484}\), 484, 498	1963, 1964, 1970, 1971
\mthparfrm	\newrobustcmd 152, 154, 157,	\oppsym 1323, 1324
\mthparfun	159, 161, 163, 166, 168, 170, 173, 183, 187, 192,	\Opr \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\mthparmat	194, 196, 199, 203, 207,	\overline 957, 971
\mthparrel 692	210, 212, 214, 843, 2404	(Overline
\mthparset 672, 675	\newtxt 307,	P
\mthparsig 644	316, 318, 322, 324, 346, 348	\P 1801
\mthparsnt 780	\newtxtarg \(\frac{319}{328}\), \(328\), \(330\), \(334\), \(336\)	\PackageWarning 131
\mthparstr 658	\newtxtargsty 325, 373, 391, 392	\PDL <u>1807</u>
\mthparsym 720	\newtxtoarg <u>331</u> , 340, 342	\Percontra <u>880</u>
\mthparvec <u>823</u>	\newtxtoargsty 337, 375, 396, 397	\percontra <u>863</u>
\mthrel <u>692</u>	\newtxtopar 355 , 364 , 366	\PH <u>1264</u>
\mthset 672 , 1121, 1123, 1125,	\newtxtoparsty $\frac{361}{379}$, $\frac{406}{407}$	\Pi 1271, 1272, 1575
1129, 1137, 1145, 1153	\newtxtpar 343 , 352, 354, 358, 360	\pi 1290, 1356, 1734, 1954
\mthsig 644	\newtxtparsty $\underline{349}$, 377 , 401 , 402	\PL <u>1621</u> , <u>1973</u>
\mthsnt	\newtxtsty <u>313</u> , 371, 386, 387	\playFun 1356
\mthstr <u>658</u>	\NExpSpace(E/H/C) <u>1262</u>	\PlaySet <u>1356</u> , <u>1954</u>
\mthsty	\NEXPTime(E/H/C) <u>1261</u>	\playset 1357, 1358, 1955, 1956
484, 486, 488, 490, 492, <u>493</u> \mthstycls 632	\NGSL 2226, 2230, 2232, 2235	\playsym 1356, 1358, 1954, 1956 \PlnSet 1958
\mthstyelm 736	$\label{eq:nlogSpace} $$ \NLogSpace(E/H/C) \dots \underline{1256} $$ \NLogTime(E/H/C) \dots \underline{1255} $$$	\plnset . 1959, 1960, 1961, 1963
\mthstyfam 618	\nlr 2404	\plnsym . 1958, 1960, 1962, 1964
\mthstyfrm 796	\nlset 2406	\PlrFun 1336
\mthstyfun 708	\noexpand 186, 190	\plrfun 1336, 1337
\mthstylbop 769	\norm <u>1168</u>	\PlrSym <u>1321</u> , 1332, 1333,
\mthstylrel 776	\normalfont . 312, 545, 572, 585	1351, 1352, 1363, 1364,
\mthstyluop 767	\not 926, 930, 934, 939, 943	1923, 1924, 1949, 1950,
\mthstymat 811	\notcequiv <u>940</u>	1961, 1962, 1968, 1969
\mthstyname 604	\notcmodels <u>936</u>	\plrsym 1321, 1322
\mthstyrel 694	\notcoimplies 931	\pm 1131, 1139, 1147
\mthstyset 674	\notimplied 927	\pmapsto
\mthstysig 646	\notimplies	\PosSet <u>1327</u> , <u>1918</u>
\mthstysnt	\NPSpace(E/H/C) 1258	\posset
\mthstystr 660 \mthstysym 722	$\label{eq:NPTime} $$ \NPTime(E/H/C) \dots \frac{1257}{1260} $$$	1919, 1920, 1923, 1925
\mthstysym	\NQPTime(E/H/C) 1250	\possym
\mthsubsup 423, 425, 480	\NSpace(E/H/C) 1254	1327, 1329, 1330, 1331,
\mthsym 720	\NTime(E/H/C) 1253	1333, 1335, 1918, 1920,
\mthvec 823	\num 1157	1921, 1922, 1924, 1926
\MTL 1633, 1638, 1642	\numcc 1157	\pow <u>1072</u>
\mu 1740	\numco <u>1157</u>	\pre <u>1294</u>
\Mutatismutandis 879	\numoc <u>1157</u>	\prfFun <u>1367</u>
\mutatismutandis 862	\numoo <u>1157</u>	\PrfSet <u>1367</u> , <u>1943</u>
».	\nxt <u>2266</u>	\prfset . 1368, 1369, 1944, 1945
N	0	\prfsym . 1367, 1369, 1943, 1945
\naif	O \obsFun	\Primafacie
\neg1449	\ObsSet	\prj 1092
\newif 111,	\obsset	\Procedure 2388
16, 20, 24, 28, 32, 36,	\odd 1913	\ProcessOptions 135
		_

\protect 385,	\resp <u>898</u>	\SetQ <u>1136</u>
390, 395, 400, 405, 413,	\rfloor 1183, 1185	\SetQI 1136
		• —
498, 501, 504, 507, 510, 516	\rho 1958	\SetQNI <u>1136</u>
\providecommand 1734 ,	\right 435,	\SetQPI 1136
1735, 1918, 1919, 1943,	459, 948, 983, 985, 993,	\SetR 1144
1944, 1946, 1947, 1954,	995, 1003, 1005, 1013,	\setr <u>1038</u>
1955, 1958, 1959, 1965,	1015, 1023, 1025, 1033,	\SetRI 1144
1966, 2303, 2304, 2310	1035, 1045, 1055, 1063,	\SetRNI 1144
\prtFun <u>1401</u>	1069, 1171, 1177, 1183,	\SetRPI <u>1144</u>
\PrtSet <u>1401</u>	1189, 1212, 1721, 1907	\SetZ <u>1128</u>
\prtset 1402, 1403	\Rightarrow 924, 926	\SetZI 1128
-	•	
\prtsym 1401, 1403	\rightarrow 919, 1457	\SetZNI <u>1128</u>
\psn <u>2264</u>	\rightharpoonup 1103, 1106	\SetZPI <u>1128</u>
\PSpace(E/H/C) <u>1258</u>	\rmfamily 381, 585	\sffamily 572
_	\rng 1086	\Sigma 1269, 1270, 1573, 2301
\pthFun <u>1290</u>		_
\PthSet <u>1290</u> , <u>1734</u>	\Role	\sigma 1360, 1965, 2300
\pthset . 1291, 1292, 1735, 1736	\role <u>889</u>	\Signature 2387
\pthsym . 1290, 1292, 1734, 1736	\rrbracket 948, 950	\sim 1451
$\label{eq:ptime} \texttt{PTime}(\texttt{E/H/C}) \dots \underline{1257}$	\rst <u>1094</u>	\skm <u>1538</u>
\PTL <u>1773</u>	\rVert 1177, 1179	\SL <u>2107</u>
\pto <u>1102</u>	\rvert 1069, 1071,	\so 1587, 1593, 1599
•	1171, 1173, 1212, 1214	\SOL
\circ	11.1, 11.0, 1212, 1214	
Q	G.	\sol <u>1377</u>
\QAE	\mathbf{S}	\Space(E/H/C) <u>1254</u>
\QAFMC 1763	\S 1803	\stackrel 913
\QATL 1867	\SATG 1303	\StrSet <u>1360</u> , <u>1965</u>
	\SaveDoubleAcute 1802	
\QATLP 1882		\strset
\QATLS 1897	\SavePilcrow 1801	1361, 1362, 1363, 1365,
\QBF	\SaveSectionSymbol 1803	1966, 1967, 1968, 1970
\QCTL 1818	\scshape 572, 585	\strsym
\QCTLP 1833	\seqofcmd <u>187</u> , 200, 204	•
	_	1360, 1362, 1364, 1366,
\QCTLS 1848	\seqofgrklet $\underline{207}$, $\underline{531}$	1965, 1967, 1969, 1971
\QEA <u>1473</u>	\seqofgrklow	\SttSet <u>1927</u> , <u>2303</u>
\QLTL 1788	<u>199,</u> 208, 211, 527, 647, 661	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529	\sttset
\QLTL 1788	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529	\sttset
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661	\sttset
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194,	\sttset
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \texttt{\seqofgrkupp} \underline{203}, 208, 213, 529 \\ \texttt{\seqoflatlet} \underline{196}, 525, 647, 661 \\ \texttt{\seqoflatlow} \underline{192}, 197, 211, 521 \\ \texttt{\seqoflatupp} \dots \underline{194}, \\ \underline{197}, 213, 523, 605, 619, 633 \\ \end{array}$	\sttset
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet	\sttset
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \texttt{\seqofgrkupp} \underline{203}, 208, 213, 529 \\ \texttt{\seqoflatlet} \underline{196}, 525, 647, 661 \\ \texttt{\seqoflatlow} \underline{192}, 197, 211, 521 \\ \texttt{\seqoflatupp} \dots \underline{194}, \\ \underline{197}, 213, 523, 605, 619, 633 \\ \end{array}$	\sttset
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477 \QPSpace(E/H/C) 1260	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \verb \seqofgrkupp & \underline{203}, 208, 213, 529 \\ \verb \seqoflatlet & \underline{196}, 525, 647, 661 \\ \verb \seqoflatlow & \underline{192}, 197, 211, 521 \\ \verb \seqoflatupp & \dots & \underline{194}, \\ \hline & 197, 213, 523, 605, 619, 633 \\ \verb \seqoflet & \dots & \dots & \dots \\ \hline & \underline{214}, 537, 675, 695, 709, \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477 \QPSpace(E/H/C) 1250 \QPTime(E/H/C) 1259	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \verb \seqofgrkupp & \underline{203}, 208, 213, 529 \\ \verb \seqoflatlet & \underline{196}, 525, 647, 661 \\ \verb \seqoflatlow & \underline{192}, 197, 211, 521 \\ \verb \seqoflatupp & \dots & \underline{194}, \\ \hline & 197, 213, 523, 605, 619, 633 \\ \verb \seqoflet & \dots & \dots & \dots \\ \hline & \underline{214}, 537, 675, 695, 709, \\ \hline & 723, 737, 783, 797, 812, 826 \\ \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477 \QPSpace(E/H/C) 1260	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \verb \seqofgrkupp & \underline{203}, 208, 213, 529 \\ \verb \seqoflatlet & \underline{196}, 525, 647, 661 \\ \verb \seqoflatlow & \underline{192}, 197, 211, 521 \\ \verb \seqoflatupp & \dots & \underline{194}, \\ \hline & \underline{197}, 213, 523, 605, 619, 633 \\ \verb \seqoflet & \dots & \dots & \dots \\ \hline & \underline{214}, 537, 675, 695, 709, \\ \hline & 723, 737, 783, 797, 812, 826 \\ \verb \seqoflow & \dots & \underline{210}, 215, 533 \\ \end{aligned}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477 \QPSpace(E/H/C) 1260 \QPTL 1777	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \\ \text{\seqofgrkupp} & \underline{203}, 208, 213, 529 \\ \\ \text{\seqoflatlet} & \underline{196}, 525, 647, 661 \\ \\ \text{\seqoflatlow} & \underline{192}, 197, 211, 521 \\ \\ \text{\seqoflatupp} & \dots & \underline{194}, \\ \\ \underline{197}, 213, 523, 605, 619, 633 \\ \\ \text{\seqoflet} & \dots & \dots \\ \\ \underline{214}, 537, 675, 695, 709, \\ \\ \underline{723}, 737, 783, 797, 812, 826 \\ \\ \text{\seqoflow} & \dots & \underline{210}, 215, 533 \\ \\ \text{\seqoftag} & \dots & \underline{183}, 193, 195 \\ \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477 \QPSpace(E/H/C) 1250 \QPTime(E/H/C) 1259	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \verb \seqofgrkupp & \underline{203}, 208, 213, 529 \\ \verb \seqoflatlet & \underline{196}, 525, 647, 661 \\ \verb \seqoflatlow & \underline{192}, 197, 211, 521 \\ \verb \seqoflatupp & \dots & \underline{194}, \\ \hline & \underline{197}, 213, 523, 605, 619, 633 \\ \verb \seqoflet & \dots & \dots & \dots \\ \hline & \underline{214}, 537, 675, 695, 709, \\ \hline & 723, 737, 783, 797, 812, 826 \\ \verb \seqoflow & \dots & \underline{210}, 215, 533 \\ \end{aligned}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\QLTL 1788 \QMC 1747 \QML 1700 \Qnt 1470 \QntSet 1475 \qntset 1476, 1477 \qntsym 1475, 1477 \QPSpace(E/H/C) 1260 \QPTL 1777	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \\ \text{\seqofgrkupp} & \underline{203}, 208, 213, 529 \\ \\ \text{\seqoflatlet} & \underline{196}, 525, 647, 661 \\ \\ \text{\seqoflatlow} & \underline{192}, 197, 211, 521 \\ \\ \text{\seqoflatupp} & \dots & \underline{194}, \\ \\ \underline{197}, 213, 523, 605, 619, 633 \\ \\ \text{\seqoflet} & \dots & \dots \\ \\ \underline{214}, 537, 675, 695, 709, \\ \\ \underline{723}, 737, 783, 797, 812, 826 \\ \\ \text{\seqoflow} & \dots & \underline{210}, 215, 533 \\ \\ \text{\seqoftag} & \dots & \underline{183}, 193, 195 \\ \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\QLTL	$\begin{array}{c} \underline{199}, 208, 211, 527, 647, 661 \\ \\ \text{\seqofgrkupp} & \underline{203}, 208, 213, 529 \\ \\ \text{\seqoflatlet} & \underline{196}, 525, 647, 661 \\ \\ \text{\seqoflatlow} & \underline{192}, 197, 211, 521 \\ \\ \text{\seqoflatupp} & \dots & \underline{194}, \\ \\ \underline{197}, 213, 523, 605, 619, 633 \\ \\ \text{\seqoflet} & \dots & \dots \\ \\ \underline{214}, 537, 675, 695, 709, \\ \\ \underline{723}, 737, 783, 797, 812, 826 \\ \\ \text{\seqoflow} & \dots & \underline{210}, 215, 533 \\ \\ \text{\seqoftag} & \dots & \underline{183}, 193, 195 \\ \\ \text{\sequence} & \dots & \underline{977} \\ \end{array}$	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 212, 215, 535 \sequence 977 \sequencel 977	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \sequencer 977	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 212, 215, 535 \sequence 977 \sequencel 977	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \sequencer 977	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \set 1038 \SetB 1120	\sttset
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \set 1038 \SetB 1120 \SetC 1152	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \set 1038 \SetB 1152 \SetC 1152	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \set 1038 \SetB 120 \SetC 1152 \SetCI 1152 \seteq 911	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequencel 977 \sequencer 977 \set 1038 \SetB 1152 \SetC 1152	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequencel 977 \set 1038 \SetB 120 \SetC 1152 \seteq 911 \SetF 1122	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394,	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398,	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394,	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398,	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2398, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402 \SetKwFor 2388, 2389, 2390, 2391	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402 \SetKwFor 2388, 2389, 2390, 2391 \SetKwIF 2403	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402 \SetKwFor 2388, 2389, 2390, 2391 \SetKwIF 2403 \set1 1038	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402 \SetKwFor 2388, 2389, 2390, 2391 \SetKwIF 2403	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \seteq 911 \SetF 1122 \SetInd 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402 \SetKwFor 2388, 2389, 2390, 2391 \SetKwIF 2403 \set1 1038	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\QLTL	199, 208, 211, 527, 647, 661 \seqofgrkupp 203, 208, 213, 529 \seqoflatlet 196, 525, 647, 661 \seqoflatlow 192, 197, 211, 521 \seqoflatupp 194, 197, 213, 523, 605, 619, 633 \seqoflet 214, 537, 675, 695, 709, 723, 737, 783, 797, 812, 826 \seqoflow 210, 215, 533 \seqoftag 183, 193, 195 \seqofupp 212, 215, 535 \sequence 977 \sequence 977 \sequence 977 \set 1038 \SetB 1120 \SetC 1152 \setQstCI 1152 \setF 1122 \SetF 1122 \SetF 2385 \SetKw 2387, 2392, 2393, 2394, 2394, 2395, 2396, 2397, 2398, 2399, 2391 \SetKwFor 2388, 2389, 2390, 2391 \SetKwIF 2403 \setlength 1038 \setlength 2386	\sttset \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

\textstyle 767, 769	\txtoparcom 1242	\upshape 381
\textup 913	\txtpar <u>376</u>	\UPSpace(E/H/C) <u>1258</u>
\thestring 688, 689, 690, 691	\txtparabr <u>556</u>	\UPTime(E/H/C) <u>1257</u>
\Theta 1116	\txtparcom <u>583</u>	\UPTL 1781
\theta 1115	\txtpardef <u>543</u>	\UQPSpace(E/H/C) 1260
\thmtls@false	\txtparname 570	_
	\txtsty	\UQPTime(E/H/C) <u>1259</u>
\thmtls@true 24		\usetikzlibrary 2355
\tikzstyle 2356,	371, 373, 375, 377, 379, 380	\USL 2112
2358, 2360, 2362, 2364	\txtstyabr 558	\USpace(E/H/C) <u>1254</u>
$\label{eq:time} $$\operatorname{Time}(E/H/C) \dots \underline{1253}$$	\txtstycom 585	\usrmth . <u>514</u> , <u>521</u> , <u>523</u> , <u>525</u> ,
\TL <u>1621</u>	\txtstydef 545	527, 529, 531, 533, 535,
\To	\txtstyname 572	537, 607, 609, 611, 613,
\top 1445	\txtsubsup 310, 312, <u>367</u>	615, 621, 623, 625, 627,
\TreeSet 2336		
\treeset 2337, 2338	${f U}$	629, 635, 637, 639, 641,
,	\UAFMC 1767	643, 649, 651, 653, 655,
\treesym 2336, 2338	\UAGPL 2046	657, 663, 665, 667, 669,
\triangleq 914	\UAGSL 2180	671, 677, 679, 681, 683,
\trn <u>952</u>	\UATL 1871	685, 697, 699, 701, 703,
\trnFun <u>1940</u> , <u>2310</u>	\UATLP 1886	705, 711, 713, 715, 717,
\TrnRel <u>1729</u>	\UATLS 1901	719, 725, 727, 729, 731,
\trnRel <u>1940</u> , <u>2310</u>		733, 739, 741, 743, 745,
\trnsym 1940, 1941,	\UBF	747, 771, 773, 778, 785,
1942, 2310, 2311, 2312	\UBGPL 2080	787, 789, 791, 793, 799,
\True 2392	\UBGSL 2214	801, 803, 805, 807, 814,
\Tt	\UBH <u>1271</u>	816, 818, 820, 822, 828,
	\UCGPL 2012	
\ttsym 1445, 1446	\UCGSL 2146	830, 832, 834, 836, 1086,
\tuple <u>1007</u>	\UCTL 1822	1087, 1088, 1089, 1090,
\tuplel <u>1007</u>	\UCTLP 1837	1108, 1109, 1110, 1111,
\tupler <u>1007</u>	\UCTLS 1852	1113, 1114, 1115, 1116,
\txt <u>370</u>	\UDGPL 2029	1117, 1118, 1193, 1194,
\txt@false 56, 66, 68	\UDGSL 2163	1195, 1196, 1197, 1198,
\txt@true 67	\UEGPL 2063	1199, 1200, 1201, 1202,
\txtabr 556	- ·	1203, 1204, 1205, 1215,
\txtarg 372	\UEGSL	1216, 1293, 1294, 1295,
\txtargabr <u>556</u>	\UExpSpace(E/H/C) <u>1262</u>	1355, 1359, 1370, 1371,
	\UExpTime(E/H/C) <u>1261</u>	1372, 1373, 1374, 1375,
\txtargcom <u>583</u>	\UFAGPL 2054	1376, 1377, 1446, 1448,
\txtargdef <u>543</u>	\UFAGSL 2188	1450, 1452, 1454, 1456,
\txtargname <u>570</u>	\UFBGPL 2088	1458, 1460, 1462, 1464,
\txtcom <u>583</u>	\UFBGSL 2222	
\txtdef <u>543</u>	\UFCGPL 2020	1468, 1469, 1470, 1471,
\txtgen@false 53, 56	\UFCGSL 2154	1472, 1473, 1474, 1478,
\txtgen@true	\UFDGPL 2037	1479, 1480, 1481, 1511,
. 54, 67, 78, 84, 89, 94, 99	\UFDGSL 2171	1512, 1518, 1524, 1525,
\txtname <u>570</u> , 1437, 1502,	\UFEGPL 2071	1531, 1537, 1538, 1574,
1504, 1585, 1587, 1591,	\UFEGSL 2205	1576, 1707, 1708, 1709,
1593, 1597, 1599, 1603,	\UFNGSL 2239	1737, 1795, 1796, 1797,
1605, 1609, 1611, 1626,		1798, 1799, 1800, 1801,
	\UFOGPL	1802, 1803, 1804, 1855,
1630, 1634, 1638, 1642,	\UFOGSL 2137	1856, 1953, 1957, 2263,
1649, 1653, 1657, 1661,	\UFPL 1986	2264, 2266, 2317, 2339
1665, 1672, 1676, 1680,	\UFSL 2120	\usrmthgrklet <u>530</u>
1684, 1688, 1697, 1701,	\UFXGPL 2105	_
1744, 1748, 1756, 1760,	\UFXGSL 2256	\usrmthgrklow \dots \frac{526}{526}
1764, 1778, 1789, 1815,	\ULH <u>1271</u>	\usrmthgrkupp <u>528</u>
1819, 1830, 1834, 1845,	\ULogSpace(E/H/C) <u>1256</u>	\usrmthlatlet $\underline{524}$
1849, 1864, 1868, 1879,	\ULogTime(E/H/C) 1255	\usrmthlatlow $\underline{520}$
1883, 1894, 1898, 1982,	\ULTL 1792	\usrmthlatupp 522 , 1281 ,
1999, 2016, 2033, 2050,	\UMC 1751	1326, 1341, 1444, 1488,
2067, 2084, 2101, 2116,	\UML 1704	1507, 1514, 1520, 1527,
2133, 2150, 2167, 2184,	\UNGSL	1533, 1541, 1543, 1545,
2201, 2218, 2235, 2252	\U0GPL	1547, 1724, 1911, 2295
		\usrmthlet 536, 688, 690
\txtoarg 374	\U0GSL	
\txtoargcom 1224, 1240	\upharpoonright 1095	\usrmthlow <u>532</u>
\txtopar <u>378</u>	\UPL 1978	\usrmthupp <u>534</u>

\usrtxt	\versym . 1282, 1284, 1285, 1286	\WMPL 1683
<u>411</u> , 547, 549, 551, 553,	\vert 1041, 1051	\WMSO 1604
555, 560, 562, 564, 566,	\Viceversa <u>882</u>	\WMSOL 1602
568, 574, 576, 578, 580,	\viceversa <u>865</u>	\WMTL 1637
582, 587, 589, 591, 593, 595	\viz	\wot <u>2339</u>
$\texttt{UTime}(\texttt{E/H/C}) \dots \underline{1253}$	\vs <u>866</u>	\wp
\UXGPL 2097	-	\WPL 1671
\UXGSL 2248	${f W}$	\WrdSet
3.7	\WATL 1863	\wrdset 2315, 2316
V	\WATLP 1878	\wrdsym 2314, 2316
\ValSet <u>1489</u>	\WATLS 1893	\WrlSet 1725
\valset 1490, 1491	\WAutSet 2298	\wrlset $\dots \dots 1726, \overline{1727}$
\valsym 1489, 1491	\wautset 2298, 2299	\wrlsym 1725, 1727, 1728
\varcmd <u>173,</u>	\WCL 1648	\wrpfig@false 116
975, 976, 983, 984, 985,	\WCTL 1814	\wrpfig@true 115
986, 993, 994, 995, 996,	\WCTLP 1829	\wrt 899
1003, 1004, 1005, 1006,	\WCTLS 1844	\WSO
1013, 1014, 1015, 1016,	\wghFun 1420	\WSOL 1584
1023, 1024, 1025, 1026,	\WghSet 1420	\WTL 1625
1033, 1034, 1035, 1036	\wghset 1421, 1422	(2
\varepsilon 1208	\wghsym 1420, 1422	X
\varnothing 1084, 1100	\WH 1265	\X1795
\varpi 1348, 1946 \varset 1509, 1510	\widehat 963	\XGPL 2092, 2096, 2098, 2101
\VarSig	\widetilde 959, 965	\XGSL 2243, 2247, 2249, 2252
	\WinSet 1342	\xi 1367, 1489, 1943
\varsig 1506, 1507 \varsym 1508, 1510	\winset 1342, 1343	\xspace 310, 312
\vec 966	\Wlogx 903	\xspace 310, 312
\VerSet	\wlogx 900	\mathbf{Y}
\verset	\WMCL 1660	\Y 1800
(Verset 1203, 1204	\WITCL 1000	\1 <u>1800</u>