fmocdmac — FM's OCD LATEX Macro*

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Abstract

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

1 Implementation & Usage

1 (*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 v0.30 of the fmocdmac package, last revised 2024/04/20.

```
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{\argsep{##1}{#4}{\empchk{##2}{{##2}}}}}%
                       176
                               \expandafter\newcommand\csname check#larg\endcsname[1]
                       177
                                   {\csname @ifnextchar\endcsname%
                                      \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
                       178
                               \expandafter\newcommand\csname#1\endcsname[1]
                       179
                                   {\csname check#1arg\endcsname{#3##1}}}
                       180
                       \seqoftag Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
                       182 \newrobustcmd{\seqoftag}[3]
                               {\@for\itr:={#1}\do%
                       183
                       184
                                   {\expandafter\csedef{\itr#2}%
                       185
                                      {\noexpand\csname #3\endcsname{\itr}}}
    \seqofcmd Sequence of commands: \seqofcmd\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
                       186 \newrobustcmd{\seqofcmd}[3]
                               {\@for\itr:={#1}\do%
                                   {\expandafter\csedef{\itr#2}%
                       188
                       189
                                      {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
                       \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow{\langle A \rangle}{\langle B \rangle} ... to do!
                       191 \newrobustcmd{\segoflatlow}
                               \label{eq:control_seq} $$ \{ a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z \} $$
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       193 \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 \( \{A \) \} \{ \lambda \} \)... to do!
                       195 \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!
                       198 \newrobustcmd{\seqofgrklow}
                               iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
                       200
                       201
                               varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
\seqofgrkupp Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       202 \newrobustcmd{\seqofgrkupp}
                               203
                               Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                       204
                               varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                       206 \newrobustcmd{\seqofgrklet}[2]
                               \label{lower} $$ \{ \sec \#1 \} {\#2}  \end{grkupp} {\#1} {\#2}  \end{grkupp} {\#2}  \end{grkupp} {\#3}  \end{grkupp} {\#4}  \end{grkupp}
```

```
\seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
         209 \newrobustcmd{\seqoflow}[2]
             {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
\seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
         211 \newrobustcmd{\seqofupp}[2]
            {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
\seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
         213 \newrobustcmd{\seqoflet}[2]
            {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
         219 \ifaux@
         220
         221 \ifamsdef@
         222 % AMS Packages
             \RequirePackage{mathtools}
             \RequirePackage{amssymb}
             \RequirePackage{stmaryrd}
         226
             \interdisplaylinepenalty=2500
         227 \fi
         228
         229 \ifamsthm@
         230 % AMS Theorem Tools
         231
            \RequirePackage{amsthm}
         232 \fi
         233
         234 \in 0
         235 % Extended Theorem Tools
             \RequirePackage{thmtools}
             \RequirePackage{thm-restate}
         238 \fi
         239
         240 \ifenmtls@
         241 % Enumeration Tools
             \RequirePackage{paralist}
         242
         243 \fi
         244
         245 \ifhypref@
             % Hyper References
         246
             \RequirePackage{hyperref}
         248
             \hypersetup {
               pdfsubject
                           = {},
         249
               pdfkeywords
                           = {},
         250
         251
               pdfproducer
                          = {},
         252
               pdfcreator
                           = {},
               pdfpagemode = {UseNone},
         253
               pdfstartview = {FitH},
         254
               urlcolor
                           = {blue},
         255
               colorlinks
         256
         257
         258 \fi
         260 \iffnttls@
            % Font Tools
             \RequirePackage[final]{microtype}
         262
         263 \fi
         264
         265 \ifcrv@
```

```
% Camera-Ready Version
      266
      267
      268
          %%...
      269
      270 \else
          % Draft Version
      271
      272
          %%...
      273
      274
          \ifchgbar@
      275
           % Change Bars
      277
           \RequirePackage{changebar}
      278
      279
          \iflinnum@
      280
           % Line Numbers
      281
           \if@twocolumn
      282
             \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
      283
      284
             \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
      285
           \fi
      286
          \fi
      287
      288
          %%...
      289
      290
      291 \fi
      292
      293 \fi
      \mathbbo Bbo Math Font: ... to do!
      298 \left( \mathbb{T} \right) {\DeclareMathAlphabet{\mathbb{U}{bbold}_{m}_{n}}
\matheus Eus Math Font: ... to do!
      299 \ifdef{\matheus}{}{\DeclareMathAlphabet{\matheus}{U}{eus}{m}{n}}
\mathpzc Pzc Math Font: ... to do!
      300 \left\{ \mathbf{T1}_{pzc}_{m}_{it} \right\}
\mathscr Scr Math Font: ... to do!
      301 \left\{ \mathbf{Mathscr}_{\DeclareMathAlphabet_{\mathscr}_{U}_{\n}} \right\}
      \newtxt ... to do!
        • \mbox{\ensuremath{\text{Name}}[sub][sup][Ext]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{Ext}}}
        • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
        • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
        • \mbox{\ensuremath{\text{Name}}[sub][sup][Ext]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{Ext}}"}
        • \newtxt![\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
```

```
306 \DeclareRobustCommand{\newtxt}
                                                                             307 {\ifexclavar{\@snewtxt}{\@newtxt}}
                                                                             308 \DeclareRobustCommandx{\Onewtxt}[5][1=, 3=, 4=, 5=]
                                                                             309 {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
                                                                             310 \DeclareRobustCommandx{\@snewtxt}[5][1=, 3=, 4=, 5=]
                                                                             311 {#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} "
                                                                             312 \DeclareRobustCommand{\newtxtsty}
                                                                                                  {\ifexclavar{\@snewtxtsty}{\@newtxtsty}}
                                                                             314 \DeclareRobustCommandx{\@newtxtsty}[2][2=]
                                                                             315 {\newtxt[\defval{#2}{#1}]}
                                                                             316 \DeclareRobustCommandx{\@snewtxtsty}[2][2=]
                                                                             317 {\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{Ext1}] \ \{\texttt{Arg}\} \ [\texttt{Ext2}] \ = \ \texttt{``Name} \ \texttt{\  \  } \ \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"
                                                                             318 \DeclareRobustCommand{\newtxtarg}
                                                                             319 {\ifexclavar{\@snewtxtarg}{\@newtxtarg}}
                                                                              320 \DeclareRobustCommandx{\Onewtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                  {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
                                                                              322 \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"
                                                                             324 \DeclareRobustCommand{\newtxtargsty}
                                                                              325 {\ifexclavar{\@snewtxtargsty}{\@newtxtargsty}}
                                                                              326 \DeclareRobustCommandx{\@newtxtargsty}[2][2=]
                                                                              327 {\newtxtarg[\defval{#2}{#1}]}
                                                                             328 \DeclareRobustCommandx{\@snewtxtargsty}[2][2=]
                                                                                                    {\newtxtarg![\defval{#2}{#1}]}
          \newtxtoarg ... to do!
                                                                                         • \mbox{\ensuremath{\text{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{sup}}} \mbox{\ensuremath{\text{(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)"
                                                               330 \DeclareRobustCommand{\newtxtoarg}
                                                               331 {\ifexclavar{\@snewtxtoarg}{\@newtxtoarg}}
                                                               332 \DeclareRobustCommandx{\@newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                               333 {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
                                                               334 \DeclareRobustCommandx{\@snewtxtoarg}[5][1=, 3=, 4=, 5=]
                                                               335 {\newtxtarg![#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                                                        • \mbox{\normalize} \{\mbox{\normalize} \{\mbox{\normalize} \} \{\mbox{\normalize} \} [\mbox{\normalize} ] [\mbox{\normalize} ] = "Name_{sub}^{sup} (\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)"
                                                               336 \DeclareRobustCommand{\newtxtoargsty}
                                                               337 {\ifexclavar{\@snewtxtoargsty}{\@newtxtoargsty}}
                                                               338 \DeclareRobustCommandx{\@newtxtoargsty}[2][2=]
                                                               339 {\newtxtoarg[\defval{#2}{#1}]}
                                                               340 \DeclareRobustCommandx{\@snewtxtoargsty}[2][2=]
                                                              341 {\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''} 
                                                               342 \DeclareRobustCommand{\newtxtpar}
                                                               343 {\ifexclavar{\@snewtxtpar}{\@newtxtpar}}
                                                               344 \DeclareRobustCommandx{\@newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                               345 \quad {\texttt{\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}}
                                                               346 \DeclareRobustCommandx{\@snewtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                              347 {\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{ext2}}[\mathtt{Par}_{\mathrm{Ext2}}] \\ = \mathtt{````Name}_{\mathrm{Ext2}}^{
                                                               348 \DeclareRobustCommand{\newtxtparsty}
                                                               349 {\ifexclavar{\@snewtxtparsty}{\@newtxtparsty}}
                                                               350 \DeclareRobustCommandx{\@newtxtparsty}[2][2=]
                                                               351 {\newtxtpar[\defval{#2}{#1}]}
                                                               352 \DeclareRobustCommandx{\@snewtxtparsty}[2][2=]
                                                              353 {\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]"
                 354 \DeclareRobustCommand{\newtxtopar}
                 355 {\ifexclavar{\@snewtxtopar}{\@newtxtopar}}
                 356 \DeclareRobustCommandx{\@newtxtopar}[5][1=, 3=, 4=, 5=]
                     {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
                 358 \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]"
                 360 \DeclareRobustCommand{\newtxtoparsty}
                     {\ifexclavar{\@snewtxtoparsty}{\@newtxtoparsty}}
                 362 \DeclareRobustCommandx{\@newtxtoparsty}[2][2=]
                 363 {\newtxtopar[\defval{#2}{#1}]}
                 364 \DeclareRobustCommandx{\@snewtxtoparsty}[2][2=]
                     {\newtxtopar![\defval{#2}{#1}]}
    \txtsubsup ... to do!
                    • \t \ \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                    • \txtsubsup[\ttfamily]{Aa}{Bb} = \(\frac{\alpha Bb}{Aa}\)
                 366 \DeclareRobustCommand{\txtsubsup}[3][]
                      {\ensuremath{\empchk{#2}{_{\text{1}}}}\empchk{#3}{^{\text{2}}}}
                 \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"}
                 369 \verb|\DeclareRobustCommand{\txt}|
                     {\ifexclavar{\newtxtsty!{\txtsty}}{\newtxtsty{\txtsty}}}
       \txtarg ... to do!
                    • \txtarg{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name sup Ext1(Arg)Ext2"
                    • \txtarg[\scshape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "NAMESUBEXT1(ARG)EXT2"
                    • \txtarg[\bfseries] {Name} [sub] [sub] [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"
                 371 \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{''} \\
                373 \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"
              375 \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]"
                • \txtopar[\bfseries]{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]" \\
              377 \DeclareRobustCommand{\txtopar}
                  {\ifexclavar{\newtxtoparsty!{\txtsty}}{\newtxtoparsty{\txtsty}}}
    \txtsty ... to do!
              379 \DeclareRobustCommand{\txtsty}
                  {\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| Sup| Ext|
              382 \DeclareRobustCommand{\cmdtxt}[1]
              383 {\csdef{txt#1}}%
                      {\protect\ifexclavar%
              384
                        {\tt \{\newtxtsty!{\tt csname txtsty\#1\nedcsname}\}\%}
              385
                        {\newtxtsty{\csname txtsty#1\endcsname}}}}
             386
 \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|
              387 \DeclareRobustCommand{\cmdtxtarg}[1]
                   {\csdef{txtarg#1}%
              389
                      {\protect\ifexclavar%
                        {\newtxtargsty!{\csname txtsty#1\endcsname}}%
              390
              391
                        {\newtxtargsty{\csname txtsty#1\endcsname}}}}
\cmdtxtoarg ... to do!
                \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                   \t \sum_{SUB} [Sub] [Sup] [Arg] = NAME_{SUB} (Arg)
```

```
392 \DeclareRobustCommand{\cmdtxtoarg}[1]
                        393
                                  {\csdef{txtoarg#1}%
                        394
                                      {\protect\ifexclavar%
                                          {\newtxtoargsty!{\csname txtsty#1\endcsname}}%
                        395
                                          {\newtxtoargsty{\csname txtsty#1\endcsname}}}}
                        396
 \cmdtxtpar ... to do!
                             • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                397 \DeclareRobustCommand{\cmdtxtpar}[1]
                                  {\csdef{txtpar#1}%
                        398
                                      {\protect\ifexclavar%
                        399
                                          {\newtxtparsty!{\csname txtsty#1\endcsname}}%
                        400
                                          {\newtxtparsty{\csname txtsty#1\endcsname}}}}
                        401
\cmdtxtopar ... to do!
                             • \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                \label{eq:local_local_local_local} $$ \operatorname{Local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_local_
                                \txtoparNewCmd!{Name}[sub][sup][Par] = NAME_SUB_[PAR]
                        402 \DeclareRobustCommand{\cmdtxtopar}[1]
                                  {\csdef{txtopar#1}%
                        403
                                      {\protect\ifexclavar%
                        404
                                          {\newtxtoparsty!{\csname txtsty#1\endcsname}}%
                        405
                        406
                                          {\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}^{SUP} [Par]
                        407 \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)
                                \c MameSuf!{Arg} = cmdName(Arg)
                                 \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]
                        410 \DeclareRobustCommandx{\usrtxt}[4][4=]
                                 {\csdef{#1#2}%
                        411
                                      {\protect\ifexclavar%
                        412
                                          {\csname txt#3\endcsname!{\defval{#4}{#1}}}%
                        413
                        414
                                          {\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"
                                                                                                                                                419 \DeclareRobustCommand{\newmth}
                                                                                                                                                                                                  {\ifexclavar{\@snewmth}{\@newmth}}
                                                                                                                                                  421 \DeclareRobustCommandx{\Qnewmth}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                             {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
                                                                                                                                                423 \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{\  \  \ }
                                                                                                                                                425 \DeclareRobustCommand{\newmthsty}
                                                                                                                                                                                          {\ifexclavar{\@snewmthsty}{\@newmthsty}}
                                                                                                                                                427 \DeclareRobustCommandx{\@newmthsty}[2][2=]
                                                                                                                                                                                               {\newmth[\defval{#2}{#1}]}
                                                                                                                                                  429 \DeclareRobustCommandx{\@snewmthsty}[2][2=]
                                                                                                                                                                                            {\newmth![\defval{#2}{#1}]}
                               \newmtharg ... to do!
                                                                                                                                                                         \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                         \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                          \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                431 \DeclareRobustCommand{\newmtharg}
                                                                                                                                                                                            {\ifexclavar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                                  433 \DeclareRobustCommandx{\Onewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                         {\newmth[#1]{#2}[#3][#4][\argmid{#5\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
                                                                                                                                                435 \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" \} } \\
```

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

437 \DeclareRobustCommand{\newmthargsty}

- 438 {\ifexclavar{\@snewmthargsty}{\@newmthargsty}}
- 439 \DeclareRobustCommandx{\@newmthargsty}[2][2=]
- 440 {\newmtharg[\defval{#2}{#1}]}
- 441 \DeclareRobustCommandx{\@snewmthargsty}[2][2=]
- 442 {\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}^{
- $\bullet \ \texttt{\name} \ \texttt{\n$
- $\bullet \ \texttt{Name}[sub][sup][Arg^{Ex^{2}}] = "Name^{sup}_{sub}(Arg^{Ex^{Ex}})" \\$
- \newmthoarg! [mathsf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
- $\bullet \ \texttt{\newmthoarg![mathtt]{Name}[sub][sup][Arg^{Ex^{}}{Ex}]} = "\texttt{\normalfoat} (Arg^{Ex^{Ex}})"$

443 \DeclareRobustCommand{\newmthoarg}

- 444 {\ifexclavar{\@snewmthoarg}{\@newmthoarg}}
- 445 \DeclareRobustCommandx{\@newmthoarg}[5][1=, 3=, 4=, 5=]
- 446 {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
- 447 \DeclareRobustCommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=]
- 448 {\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{\ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \$
- \newmthoargsty! {mathrm} {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
- $\bullet \verb| \newmthoargsty!{mathrm}[mathsf]{Name}[sub][sup][Arg^{Ex^{}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"$

$449 \verb|\DeclareRobustCommand{\newmthoargsty}|$

- 450 {\ifexclavar{\@snewmthoargsty}{\@newmthoargsty}}
- 451 \DeclareRobustCommandx{\@newmthoargsty}[2][2=]
- 452 {\newmthoarg[\defval{#2}{#1}]}
- 453 \DeclareRobustCommandx{\@snewmthoargsty}[2][2=]
- 454 {\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 $_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2$ "
- \newmthpar! [mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name $_{sub}^{sup} Ext1[Par^{Ex^{Ex}}] Ext2$ "

```
455 \DeclareRobustCommand{\newmthpar}
                                                                                                       456 {\ifexclavar{\Osnewmthpar}{\Onewmthpar}}
                                                                                                       457 \DeclareRobustCommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                       459 \DeclareRobustCommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                    {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
      \newmthparsty ... to do!
                                                                                                                      • \newmthparsty{mathrm} [mathsf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} 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{ 
                                                                                                         461 \DeclareRobustCommand{\newmthparsty}
                                                                                                                                          {\ifexclavar{\@snewmthparsty}{\@newmthparsty}}
                                                                                                       462
                                                                                                       463 \DeclareRobustCommandx{\@newmthparsty}[2][2=]
                                                                                                                                         {\newmthpar[\defval{#2}{#1}]}
                                                                                                       465 \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{\ \ }
                                                                                                                       • \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}}]" 
                                                                                                       467 \DeclareRobustCommand{\newmthopar}
                                                                                                                                 {\ifexclavar{\@snewmthopar}{\@newmthopar}}
                                                                                                       469 \DeclareRobustCommandx{\Qnewmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                   {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                         471 \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}]" = "Name_{sub}^{sub}[Par^{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}}]" 
                                                                                                       473 \DeclareRobustCommand{\newmthoparsty}
                                                                                                                                          {\ifexclavar{\@snewmthoparsty}{\@newmthoparsty}}
                                                                                                         475 \DeclareRobustCommandx{\@newmthoparsty}[2][2=]
                                                                                                                                          {\newmthopar[\defval{#2}{#1}]}
                                                                                                       477 \DeclareRobustCommandx{\@snewmthoparsty}[2][2=]
                                                                                                                                  {\newmthopar![\defval{#2}{#1}]}
```

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\mthsubsup \dots to \mathrm{do}!
                                                                           479 \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"
                                                                            482 \DeclareRobustCommand{\mth}
                                                                                                        {\ifexclavar{\newmthsty!{\mthsty}}}{\newmthsty{\mthsty}}}
                   \mtharg ... to do!
                                                                                           • \mtharg{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2" | Ex
                                                                                            • \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{ \
                                                                                             484 \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{\  \
                                                                             486 \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
                                                                                             488 \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{\bar{Ex^{Ex}}} ] = \texttt{\bar{Name}} [\texttt{Sub}] [\texttt{Sup}] [\texttt{Par^{Ex^{Ex}}}] = \texttt{\bar{Name}} [Par^{Ex^{Ex}}] "
                                            • \mthopar!{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                            • \mthopar! [mathbf] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name _{sub}^{sup} [Par^{Ex^{Ex}}]"
                                            • \mthopar! [mathtt] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name _{sub}^{sup} [Par^{Ex^{Ex}}]"
                                     490 \DeclareRobustCommand{\mthopar}
                                                   {\ifexclavar{\newmthoparsty!{\mthsty}}}\newmthoparsty{\mthsty}}}
           \mthsty ... to do!
                                    492 \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|\mbox| mthNewCmd! {\tt Name} [\tt sub] [\tt sup] [\tt Ext] = \verb|\mbox| ame sub Ext|
                                    495 \DeclareRobustCommand{\cmdmth}[1]
                                    496 {\csdef{mth#1}%
                                                         {\bf \{\protect\ifexclavar{\newmthsty!\{mthsty#1\}}}{\bf \{\newmthsty\{mthsty#1\}\}}}
                                    497
  \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
                                    498 \DeclareRobustCommand{\cmdmtharg}[1]
                                                   {\csdef{mtharg#1}%
                                                         {\protect\ifexclavar{\newmthargsty!{mthsty#1}}}\newmthargsty{mthsty#1}}}
                                    500
\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}})
                                    501 \DeclareRobustCommand{\cmdmthoarg}[1]
                                    502 {\csdef{mthoarg#1}%
                                                         {\protect\ifexclavar{\newmthoargsty!{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
                                    503
  \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
                                                504 \DeclareRobustCommand{\cmdmthpar}[1]
                                                {\csdef{mthpar#1}%
                                     505
                                                         {\protect\ifexclavar{\newmthparsty!{mthsty#1}}}\newmthparsty{mthsty#1}}}
                                    506
\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^{\tt Ex}}] = |\mbox| ame $^{sup}_{sub} [Par^{\tt Ex^{\tt Ex^{
                                     507 \DeclareRobustCommand{\cmdmthopar}[1]
                                                 {\csdef{mthopar#1}%
                                                         {\protect\ifexclavar{\newmthoparsty!{mthsty#1}}}{\newmthoparsty{mthsty#1}}}}
                                     509
```

```
• \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|\mathargNewCmd!{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathargNewCmd!{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \verb|\mathargNewCmd!{Name}[sub][sub][sup][Ext1][Sup][Ext1][Sup][Ext2] = \verb|\mathargNewCmd!{Name}[sub][sub][sup][Ext1][Sup][Ext1][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][Sup][Ext2][S
                                                                                                                                                  \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{Nam
                                                                                                                                                  \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}}] $$
                                                                                                                   510 \DeclareRobustCommand{\cmdmthall}[1]
                                                                                                                                                       {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
                                                \usrmth ... to do!
                                                                                                                                     • \usrmth{cmdName}{Suf}{};
                                                                                                                                                   \c MameSuf = cmdName
                                                                                                                                                     \column{4}{c} 
                                                                                                                                                     \usrmth{cmdName}{Suf}{arg};
                                                                                                                                                   \label{eq:local_cond_name} $$ \operatorname{Arg^{Ex^{Ex}}}$ = cmdName \Big(Arg^{Ex^{Ex}}\Big) $$
                                                                                                                                                   \verb|\cmdNameSuf!{Arg^{Ex^{Ex}}}| = cmdName(Arg^{Ex^{E}})|
                                                                                                                                                   \usrmth{cmdName}{Suf}{par};
                                                                                                                                                  \label{eq:cmdName} $$\operatorname{Par}^{Ex^{Ex}}$ = cmdName | Par^{Ex^{Ex}}$
                                                                                                                                                  \verb|\cmdNameSuf!{Par^{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} $$ \operatorname{Ex^{Ex}}$ = newName \left[Par^{Ex^{Ex}}\right] $$
                                                                                                                                                  \verb|\cmdNameSuf!{Par^{Ex^{Ex}}}| = newName[Par^{Ex^{Ex}}]|
                                                                                                                  513 \DeclareRobustCommandx{\usrmth}[4][4=]
                                                                                                                  514 {\csdef{#1#2}%
                                                                                                                  515
                                                                                                                                                                           {\protect\ifexclavar%
                                                                                                                                                                                          {\csname mth#3\endcsname!{\defval{#4}{#1}}}%
                                                                                                                   516
                                                                                                                                                                                          {\csname mth#3\endcsname{\defval{#4}{#1}}}}
\usrmthlatlow ... to do!
                                                                                                                 519 \DeclareRobustCommandx{\usrmthlatlow}[4][4=]
                                                                                                                                                         {\mbox{\mbox{usrmth}$\#1${\#2}{\#3}[\#4] \seqoflatlow{$\#1$${\mbox{\mbox{mth}$\#3}}}}
\usrmthlatupp ... to do!
                                                                                                                   521 \DeclareRobustCommandx{\usrmthlatupp}[4][4=]
                                                                                                                                                  {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                                                                                                   523 \DeclareRobustCommandx{\usrmthlatlet}[4][4=]
                                                                                                                   524 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
```

 \c mdmthall ... to do!

```
\usrmthgrklow ... to do!
               525 \DeclareRobustCommandx{\usrmthgrklow}[4][4=]
               526 \qquad \{ \text{\t wsrmth} \{\#1\} \{\#2\} \{\#3\} \, [\#4] \, \text{\t seqofgrklow} \{\#1\#2\} \{\text{mth} \#3\} \}
\usrmthgrkupp ... to do!
               527 \DeclareRobustCommandx{\usrmthgrkupp}[4][4=]
               528 \{ \text{wsrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqofgrkupp \{ \#1 \#2 \} \{ \#3 \} \} \}
\usrmthgrklet ... to do!
               529 \DeclareRobustCommandx{\usrmthgrklet}[4][4=]
               530 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
   \usrmthlow ... to do!
               531 \DeclareRobustCommandx{\usrmthlow}[4][4=]
               532 \quad \{\usrmth{\#1}{\#2}{\#3}[\#4] \seqoflow{\#1\#2}{mth\#3}\}
   \usrmthupp ... to do!
               533 \DeclareRobustCommandx{\usrmthupp}[4][4=]
               534 \{ \text{\mbox{\mbox{$1$}}} = 1,1,2,3,4 \} 
    \usrmthlet ... to do!
               535 \DeclareRobustCommandx{\usrmthlet}[4][4=]
               536 \{ \text{wsrmth} \{ \#1 \} \{ \#2 \} \{ \#4 \} \} \}
               541 \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
               542 %% Style for Definitions
               543 \cmdtxtall{def}
               544 \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
               545 \DeclareRobustCommandx{\cmdtxtdef}[2][2=]
               546 {\usrtxt{#1}{}{def}[#2]}
\cmdtxtargdef ... to do!
                  \cmdtxtargdef{cmdName};
                    \cmdName[sub][sub][ext1]\{arg\}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                  \cmdtxtargdef{cmdName}[newName];
                   \colon = [sub] [sub] [ext1] {arg} [ext2] = newName^{sub}_{sub} ext1(arg) ext2
               547 \DeclareRobustCommandx{\cmdtxtargdef}[2][2=]
               548 {\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)
```

```
549 \DeclareRobustCommandx{\cmdtxtoargdef}[2][2=]
                                  550 {\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
                                   551 \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]
                                   553 \DeclareRobustCommandx{\cmdtxtopardef}[2][2=]
                                  554 {\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
                                  555 \%\% Style for Abbreviations
                                  556 \cmdtxtall{abr}
                                  557 \DeclareRobustCommand{\txtstyabr}{\em}
        \cmdtxtabr ... to do!
                                        • \cmdtxtabr{cmdName};
                                            \colon colon col
                                        • \cmdtxtabr{cmdName} [newName];
                                            \colon dName[sub][sub][ext] = newName_{sub}^{sub}ext
                                   558 \DeclareRobustCommandx{\cmdtxtabr}[2][2=]
                                  559 {\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
                                   560 \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)
                                   562 \DeclareRobustCommandx{\cmdtxtoargabr}[2][2=]
                                           {\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|
```

```
564 \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|
                                                      566 \DeclareRobustCommandx{\cmdtxtoparabr}[2][2=]
                                                      567 {\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}
                                                       569 %% Style for Names
                                                       570 \cmdtxtall{name}
                                                      \cmdtxtname ... to do!
                                                              • \cmdtxtname{cmdName};
                                                                    \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
                                                               • \cmdtxtname{cmdName}[newName];
                                                                    572 \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][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][
                                                      574 \DeclareRobustCommandx{\cmdtxtargname}[2][2=]
                                                      575 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                              • \cmdtxtoargname{cmdName};
                                                                    \colon 
                                                              • \cmdtxtoargname{cmdName}[newName];
                                                                    \verb|\cmdName[sub][sub][arg]| = NEWNAME_{SUB}^{SUB}(ARG)
                                                       576 \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} $$ \operatorname{Sub}[\operatorname{sub}][\operatorname{ext1}]_{\operatorname{par}}[\operatorname{ext2}] = \operatorname{NEWNAME}^{\operatorname{SUB}}_{\operatorname{SUB}} \operatorname{EXT1}[\operatorname{PAR}]_{\operatorname{EXT2}} $$
                                                      578 \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]|
```

```
580 \DeclareRobustCommandx{\cmdtxtoparname}[2][2=]
                                                                              {\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
                                                                         \qquad \qquad \bullet \ \texttt{\txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = NAME^{SUP}_{SUB}EXT1[PAR]EXT2 
                                                              582 %% Style for Complexities
                                                              583 \cmdtxtall{com}
                                                              584 \end{\textsc{Normalfont} wdseries\end{\textsc{Normalfont}} } \label{fig:Normalfont} $$ 184 \end{\textsc{Normalfont} wdseries\end{\textsc{Normalfont} } $$ 184 \end{\textsc{Normalfont} } $$ 184 \end{\textsc
               \cmdtxtcom ... to do!
                                                                       • \cmdtxtcom{cmdName};
                                                                              \colon 
                                                                        • \cmdtxtcom{cmdName} [newName];
                                                                              \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]|
                                                              585 \DeclareRobustCommandx{\cmdtxtcom}[2][2=]
                                                              586 {\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][ext2] = \verb|\cmdName[sub][ext1][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][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
                                                              587 \DeclareRobustCommandx{\cmdtxtargcom}[2][2=]
                                                              588 {\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)
                                                              589 \DeclareRobustCommandx{\cmdtxtoargcom}[2][2=]
                                                              590 {\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|
                                                              591 \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]
                                                              593 \DeclareRobustCommandx{\cmdtxtoparcom}[2][2=]
                                                                             {\usrtxt{#1}{}{oparcom}[#2]}
                                                              600 \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
                   601 %% Style for Names
                   602 \cmdmthall{name}
                   603 \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
                   604 \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
                   605 \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
                   607 \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)
                   609 \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
                   611 \DeclareRobustCommandx{\cmdmthparname}[2][2=]
                  612 {\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]
                   613 \DeclareRobustCommandx{\cmdmthoparname}[2][2=]
                   614 {\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
                     615 %% Style for Families
                     616 \cmdmthall{fam}
                     617 \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}
                     618 \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
                     619 \DeclareRobustCommandx{\cmdmthfam}[2][2=]
                     620 {\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
                     621 \DeclareRobustCommandx{\cmdmthargfam}[2][2=]
                     622 {\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)
                     623 \DeclareRobustCommandx{\cmdmthoargfam}[2][2=]
                     624 {\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
                     625 \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]
                     627 \DeclareRobustCommandx{\cmdmthoparfam}[2][2=]
                     628 {\usrmth{#1}{Fam}{oparfam}[#2]}
         \mthcls ... to do!
     \mthargcls
                        • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
     \mthparcls
```

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• \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
                                                  • \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
                                           629 %% Style for Classes
                                           630 \cmdmthall{cls}
                                           631 \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
                                           632 \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
                                           633 \DeclareRobustCommandx{\cmdmthcls}[2][2=]
                                           634 {\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
                                           635 \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)
                                           637 \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|
                                           639 \DeclareRobustCommandx{\cmdmthparcls}[2][2=]
                                           640 {\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][sub][par]| = \verb|NEWNAME|_{sub}^{sub}[par]|
                                           641 \DeclareRobustCommandx{\cmdmthoparcls}[2][2=]
                                           642 {\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^{Ex}}]Ext2
                                               • \mthparsig! {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2
                                         643 %% Style for Signatures
                                         644 \cmdmthall{sig}
                                         645 \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
                                        646 \sqot Sig}{mthsig}\sqot Sig}{mthsig}
          \cmdmthsig ... to do!
                                               • \cmdmthsig{cmdName};
                                                   \cmdNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                               • \cmdmthsig{cmdName}[NewName];
                                                   \colon dNameSig[sub][sub][ext] = NewName_{sub}^{sub}ext
                                         647 \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
                                         649 \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)
                                         651 \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];
                                                   \cmdNameSig[sub][sub][ext1]{par}[ext2] = \c NewName sub ext1[par]ext2
                                         653 \DeclareRobustCommandx{\cmdmthparsig}[2][2=]
                                        654 {\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]|
                                         655 \DeclareRobustCommandx{\cmdmthoparsig}[2][2=]
                                        656 {\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{\ \ }
                                                                                                 \bullet \  \  \, \texttt{\begin{tabular}{l} $\operatorname{Ext1}$ {Par^{Ex^{Ex}}}$} \  \  \, & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  \ & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  \ & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  \ & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  \ & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  \ & \texttt{\begin{tabular}{l} $\operatorname{Ext2}$} \  \  \ \ & \texttt
                                                                                    657 %% Style for Structures
                                                                                     658 \cmdmthall{str}
                                                                                    659 \DeclareRobustCommand{\mthstystr}{\mathfrak}
                                                           ... a, b, c, d, e, f, g, h, i, j, f, l, m, n, o, p, q, r, s, t, u, v, w, r, h, 3
                                                                               \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
                                                                                   660 \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
                                                                                    661 \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
                                                                                     663 \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)
                                                                                    665 \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
                                                                                    667 \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
                                                                                    669 \DeclareRobustCommandx{\cmdmthoparstr}[2][2=]
                                                                                   670 {\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
                      \bullet \  \  \, \texttt{ \member Mthparset! \{Name\}[sub][sup][Ext1] \{Par^{\{Ex^{}\}}\}[Ext2]} = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2]
                   671 %% Style for Sets
                   672 \cmdmthall{set}
                   673 \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
                   674 \seqoflet{Set}{mthset}
    \cmdmthset ... to do!
                      • \cmdmthset{cmdName};
                        \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                      • \cmdmthset{cmdName}[NewName];
                        \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} = xt
                   675 \DeclareRobustCommandx{\cmdmthset}[2][2=]
                   676 {\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
                   677 \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)
                   679 \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][sub][ext1][par][ext2] = NewName_{sub}^{sub}ext1[par]ext2
                   681 \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]|
                   683 \DeclareRobustCommandx{\cmdmthoparset}[2][2=]
                       {\usrmth{#1}{Set}{oparset}[#2]}
```

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\cmdmthsetext ... to do!
                      685 \DeclareRobustCommandx{\cmdmthsetext}[3][2=, 3=]
                      686 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                      687 \usrmthlet{\thestring}{Sym}{sym}
                                [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}}]%
                      688
                             \usrmthlet{\thestring}{Elm}{elm}
                      689
                                [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}}
                      690
          \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
                      691 %% Style for Relations
                      692 \mbox{cmdmthall{rel}}
                      693 \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
                      694 \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
                      695 \DeclareRobustCommandx{\cmdmthrel}[2][2=]
                           {\usrmth{#1}{Rel}{rel}[#2]}
 \cmdmthargrel ... to do!
                         • \cmdmthargrel{cmdName};
                            \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargrel{cmdName}[NewName];
                            \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      697 \DeclareRobustCommandx{\cmdmthargrel}[2][2=]
                      698 {\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)
                      699 \DeclareRobustCommandx{\cmdmthoargrel}[2][2=]
                      700 {\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
                      701 \DeclareRobustCommandx{\cmdmthparrel}[2][2=]
                      702 {\usrmth{#1}{Rel}{parrel}[#2]}
```

```
\cmdmthoparrel ... to do!
                                                                                            • \cmdmthoparrel{cmdName};
                                                                                                     \colon dNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                           • \cmdmthoparrel{cmdRel}[NewName];
                                                                                                     \colon condRelRel[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                                703 \DeclareRobustCommandx{\cmdmthoparrel}[2][2=]
                                                                               704 {\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}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext1}(Arg^{Ex^{Ex}})} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext1}(Arg^{Ex^{Ex}})} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Ext2}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Ext2}} = \mathsf{\bar{Name}} \  \, \texttt{\bar{Name}} = \mathsf{\bar{Name}} = \mathsf{\ba
                                                                                           \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
                                                                                           705 %% Style for Functions
                                                                                706 \cmdmthall{fun}
                                                                                707 \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, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                                               708 \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]}
                                                                                709 \DeclareRobustCommandx{\cmdmthfun}[2][2=]
                                                                               710 {\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
                                                                               711 \DeclareRobustCommandx{\cmdmthargfun}[2][2=]
                                                                                                   {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                                                                           • \cmdmthoargfun{cmdName};
                                                                                                    \colon = cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                            • \cmdmthoargfun{cmdFun}[NewName];
                                                                                                    \verb|\cmdFunFun[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                                               713 \DeclareRobustCommandx{\cmdmthoargfun}[2][2=]
                                                                               714 {\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
                                                                                715 \DeclareRobustCommandx{\cmdmthparfun}[2][2=]
                                                                                716 {\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]
                                                                     717 \DeclareRobustCommandx{\cmdmthoparfun}[2][2=]
                                                                    718 {\usrmth{#1}{Fun}{oparfun}[#2]}
                               \mthsym ... to do!
                  \mthargsym
                                                                               \bullet \ \texttt{\bar{Name}[sub][sup][Ext]} = \texttt{\bar{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}^{sup}[\texttt{Sup}][\texttt{Ext1}] \{\texttt{Arg}^{\{\texttt{Ex}^{\{\texttt{Ex}\}\}}\}}[\texttt{Ext2}] = \texttt{Name}^{sup}_{sub}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
                                                                     719 %% Style for Symbols
                                                                     720 \cmdmthall{sym}
                                                                     721 \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
                                                                    722 \seqoflet{Sym}{mthsym}
                 \cmdmthsym ... to do!
                                                                               • \cmdmthsym{cmdName};
                                                                                      \colon colon col
                                                                               • \cmdmthsym{cmdName}[NewName];
                                                                                      \colon d NameSym[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                                     723 \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
                                                                    725 \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)
                                                                    727 \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|
                                                                     729 \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];
                                                                                          731 \DeclareRobustCommandx{\cmdmthoparsym}[2][2=]
                                                                       732 {\usrmth{#1}{Sym}{oparsym}[#2]}
                                \mthelm ... to do!
                  \mthargelm
                                                                                  \bullet \ \  \  \, \texttt{\bar{Name}[sub][sup][Ext]} = Name^{sup}_{sub}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 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = Name_{sub}^{sup}Ext2 \\ = Name_{sub}^{sub}Ext2 \\ = Name_{sub}^{sup}Ext2 \\ = Name_{sub}^{sup}Ext2 \\ = Name_{sub}^{sup}Ext2 \\ = Name_{sub}^{sup}Ext2 \\ = Name_{sub}^{sub}Ext2 \\ = Name_{sub}^{sub}Ext2
                                                                                  \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^{
                                                                        733 %% Style for Elements
                                                                        734 \cmdmthall{elm}
                                                                        735 \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
                                                                      736 \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
                                                                        737 \DeclareRobustCommandx{\cmdmthelm}[2][2=]
                                                                        738 {\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
                                                                        739 \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)
                                                                       741 \DeclareRobustCommandx{\cmdmthoargelm}[2][2=]
                                                                       742 {\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
                                                                        743 \DeclareRobustCommandx{\cmdmthparelm}[2][2=]
                                                                        744 {\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]|
                                                                                                                    745 \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
                                                                                                                    748 \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||
                                                                                                                                              \colonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcolonermalcol
                                                                                                                                   • \cmdmthargsymelm{cmdName}[NewName];
                                                                                                                                              \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                                                                                              \cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                                                                    751 \DeclareRobustCommandx{\cmdmthargsymelm}[2][2=]
                                                                                                                                                   {\cmdmthargsym{#1}[#2]%
                                                                                                                                                  \cmdmthargelm{#1}[#2]}
\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)
                                                                                                                    754 \DeclareRobustCommandx{\cmdmthoargsymelm}[2][2=]
                                                                                                                                                   {\cmdmthoargsym{#1}[#2]%
                                                                                                                                                  \cmdmthoargelm{#1}[#2]}
                                                                                                                   756
     \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
                                                                                                                    757 \DeclareRobustCommandx{\cmdmthparsymelm}[2][2=]
                                                                                                                                                  {\cmdmthparsym{#1}[#2]%
                                                                                                                   759
                                                                                                                                                  \cmdmthparelm{#1}[#2]}
\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]|
                                                         760 \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
                                                         764 %% Style for \LaTex Operators
                                                         765 \cmdmth{luop}
                                                          766 \DeclareRobustCommand{\mthstyluop}[1]{\textstyle\mathop{\#1}}
                                                          767 \cmdmth{lbop}
                                                         768 \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
                                                         769 \DeclareRobustCommandx{\cmdmthluop}[2][2=]
                                                          770 {\usrmth{#1}{UOp}{luop}[#2]}
                                                         771 \DeclareRobustCommandx{\cmdmthlbop}[2][2=]
                                                         772 {\usrmth{#1}{BOp}{1bop}[#2]}
             \mthlrel ... to do!
                                                                    • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                         773 %% Style for \LaTex Relations
                                                          774 \cmdmth{lrel}
                                                         775 \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
                                                         776 \DeclareRobustCommandx{\cmdmthlrel}[2][2=]
                                                          777 {\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{\bare}[Sub][Sub][Sub][Ext1] \\ \{Par^{Ex^{Ex}}\}\}[Ext2] \\ = \  \  \, \texttt{\bare}[Sub^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = \  \, \texttt{\bare}[Sub^{sup}Ext1][Par^{Ex^{Ex}}]Ext2 \\ = \  \, \texttt{\bare}[Sub^{sup}Ext2][Par^{Ex^{Ex}}]Ext2 
                                                          779 %% Style for Sentences
                                                          780 \cmdmthall{snt}
                                                          781 \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
                                    782 \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|
                                    783 \DeclareRobustCommandx{\cmdmthsnt}[2][2=]
                                    784 {\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][ext1][ext2][ext2] = \verb|\cmdNameSnt[sub][sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2]
                                    785 \DeclareRobustCommandx{\cmdmthargsnt}[2][2=]
                                    786 {\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)
                                    787 \DeclareRobustCommandx{\cmdmthoargsnt}[2][2=]
                                             {\usrmth{#1}{Snt}{oargsnt}[#2]}
  \cmdmthparsnt ... to do!
                                         • \cmdmthparsnt{cmdName};
                                             \label{lem:lemma:sub} $$ \operatorname{Snt}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                                          • \cmdmthparsnt{cmdName}[NewName];
                                             \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\NewName]^{sub}_{sub}ext1[par]ext2
                                    789 \DeclareRobustCommandx{\cmdmthparsnt}[2][2=]
                                    790 {\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]
                                    791 \DeclareRobustCommandx{\cmdmthoparsnt}[2][2=]
                                    792 {\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
                                    793 %% Style for Formulae
                                    794 \cmdmthall{frm}
                                    795 \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,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                                  796 \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
                                   797 \DeclareRobustCommandx{\cmdmthfrm}[2][2=]
                                  798 {\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
                                   799 \DeclareRobustCommandx{\cmdmthargfrm}[2][2=]
                                  800 {\operatorname{wsrmth}\{\#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)
                                   801 \DeclareRobustCommandx{\cmdmthoargfrm}[2][2=]
                                  802 {\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
                                   803 \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]|
                                   805 \DeclareRobustCommandx{\cmdmthoparfrm}[2][2=]
                                   806 {\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{\bare}[Sub][Sub][Sub][Ext1] \\ \{Par^{Ex^{-}}[Ext2] = \mathbf{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = \mathbf{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}
```

```
808 %% Style for Matrices
                                             809 \cmdmthall{mat}
                                             810 \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
                                            811 \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|
                                             812 \DeclareRobustCommandx{\cmdmthmat}[2][2=]
                                             813 {\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
                                             814 \DeclareRobustCommandx{\cmdmthargmat}[2][2=]
                                            815 {\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)
                                             816 \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
                                             818 \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]|
                                             820 \DeclareRobustCommandx{\cmdmthoparmat}[2][2=]
                                             821 {\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{\ \ }} \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
                               822 %% Style for Vectors
                               823 \cmdmthall{vec}
                               824 \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
                               825 \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
                               826 \DeclareRobustCommandx{\cmdmthvec}[2][2=]
                               827 {\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
                               828 \DeclareRobustCommandx{\cmdmthargvec}[2][2=]
                               829 {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                    \cmdmthoargvec{cmdName};
                                       \colon = cmdName \col
                                    • \cmdmthoargvec{cmdName}[NewName];
                                       \colon = NewName^{sub}(arg) = NewName^{sub}(arg)
                               830 \DeclareRobustCommandx{\cmdmthoargvec}[2][2=]
                              831 {\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
                               832 \DeclareRobustCommandx{\cmdmthparvec}[2][2=]
                               833 {\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]
                               834 \DeclareRobustCommandx{\cmdmthoparvec}[2][2=]
                               835 {\usrmth{#1}{Vec}{oparvec}[#2]}
                               836 \fi
```

841 \iftxt@

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

862 \cmdtxtabr{percontra}[per contra]

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

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

```
\defeq ...
                    \seteq 910 \DeclareRobustCommand{\defeq}
                                                      {\ifstarvar%
                                                               {\mthlbop{\stackrel{\text{\textup{def}}}{=}}}%
                                           913
                                                                {\mthlbop{\triangleq}}}
                                           914 \DeclareRobustCommand{\seteq}
                                                       {\ifstarvar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
                                           \limp ...
                 \verb|\location| 917 \verb|\location| 917 \verb|\location| Strong the manned of the model of the manned of the
                                           918 {\mthlbop{\rightarrow}}
                                           919 \DeclareRobustCommand{\lcoimp}
                                           920 {\mthlbop{\leftrightarrow}}
                                           \implies ...
      \verb| notimplies | 922 \verb| DeclareRobustCommand{ | implies|}
                                          923 {\mthlrel{\Rightarrow}}
                                          924 \DeclareRobustCommand{\notimplies}
                                          925 {\mthlrel{\not\Rightarrow}}
              \implied ...
      \verb| notimplied 926 \verb| DeclareRobustCommand{implied}| \\
                                          927 {\mthlrel{\Leftarrow}}
                                           928 \DeclareRobustCommand{\notimplied}
                                          929 {\mthlrel{\not\Leftarrow}}
        \coimplies ...
\verb|\notcoimplies|| 930 \verb|\DeclareRobustCommand{$\setminus$ coimplies}||
                                                      {\mthlrel{\Leftrightarrow}}
                                           932 \DeclareRobustCommand{\notcoimplies}
                                           933 {\mthlrel{\not\!\Leftrightarrow}}
                                           \cmodels ...
      \verb|\notemodels| 935 \verb|\DeclareRobustCommand{\cmodels}|
                                           936 {\mthlrel{\models}}
                                           937 \DeclareRobustCommand{\notcmodels}
                                          938 {\mthlrel{\not\models}}
                 \cequiv ...
        \verb|\notcequiv| 939 \verb|\DeclareRobustCommand{\cequiv}|
                                           940 {\mthlrel{\equiv}}
                                           941 \DeclareRobustCommand{\notcequiv}
                                           942 {\mthlrel{\not\equiv}}
                                           \denot ...
                                           944 \DeclareRobustCommand{\denot}
                                           945 {\left(\frac{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensure
                                           946 \DeclareRobustCommand{\Qdenot}[1]
                                          947 {\mth{\argmid{\left\llbracket}{#1}{\right\rrbracket}}}
                                           948 \verb|\DeclareRobustCommand{\Qedenot}[1]
                                                        {\mth!{\argmid{\llbracket}{#1}{\rrbracket}}}
```

```
\dual ...
              \adj 951 \DeclareRobustCommand{\dual}[1]
              \der 952 {\mth{\overline{#1}}}
              \trn 953 \DeclareRobustCommand{\adj}[1]
                         954 {\mth{\mathring{#1}}}
                         955 \DeclareRobustCommand{\der}[1]
                         956 {\mth{\widehat{#1}}}
                         957 \DeclareRobustCommand{\trn}[1]
                                {\mth{\widetilde{#1}}}
              \vec ...
                         959 \DeclareRobustCommand{\vec}
                                 {\ifstarvar{\@svec}{\@vec}}
                         961 \DeclareRobustCommand{\@vec}[1]
                         962 {\mth{\mathaccent"017E{#1}}}
                         963 \DeclareRobustCommand{\@svec}[1]
                                 {\mth{\overline{#1}}}
                         \enumeration ...
                         966 \DeclareRobustCommand{\enumeration}
                         967 {\ifstarvar{\@senumeration}{\@enumeration}}
                         968 \ \ \varcmd{@enumeration}{\mth!}{}{,}{}}
                         969 \varcmd{@senumeration}{\mth!}{}{;}{}}
     \sequence ...
   \sequencel
                        970 \DeclareRobustCommand{\sequence}
   \sequencer
                         971 {\ifstarvar{\@ssequence}{\@sequence}}
                         972 \DeclareRobustCommand{\@sequence}
                         973 {\ifexclavar{\@e@sequence}{\@@sequence}}
                         974 \DeclareRobustCommand{\@ssequence}
                         975 {\ifexclavar{\@e@ssequence}{\@@ssequence}}
                         976 \ \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremat
                         977 \varcmd{@e@sequence}{\mth!}{[]{,}{]}{}
                         978 \varcmd{@@ssequence}{\mth}{\left[}{;}{\right]}{}
                         979 \varcmd{@e@ssequence}{\mth!}{[}{;}{]}{}
                         980 \DeclareRobustCommand{\sequencel}
                                  {\ifstarvar{\@ssequencel}{\@sequencel}}
                         982 \DeclareRobustCommand{\@sequencel}
                         983 {\ifexclavar{\@e@sequencel}{\@@sequencel}}
                         984 \DeclareRobustCommand{\@ssequencel}
                                  {\ifexclavar{\@e@ssequencel}{\@@ssequencel}}
                         986 \varcmd{@@sequencel}{\mth}{\left[}{,}{\right.}{}
                         987 \varcmd{@e@sequencel}{\mth!}{[}{,}{}}
                         988 \varcmd{@@ssequencel}{\mth}{\left[}{;}{\right.}{}
                         989 \varcmd{@e@ssequencel}{\mth!}{[}{;}{}}
                         990 \DeclareRobustCommand{\sequencer}
                                   {\ifstarvar{\@ssequencer}{\@sequencer}}
                         992 \DeclareRobustCommand{\@sequencer}
                         993 {\ifexclavar{\@e@sequencer}{\@@sequencer}}
                         994 \DeclareRobustCommand{\@ssequencer}
                                 {\ifexclavar{\@e@ssequencer}{\@@ssequencer}}
                         996 \varcmd{@@sequencer}{\mth}{\left.}{,}{\right]}{}
                         997 \varcmd{@e@sequencer}{\mth!}{}{,}{]}{}
                         998 \varcmd{@@ssequencer}{\mth}{\left.}{;}{\right]}{}
                         999 \varcmd{@e@ssequencer}{\mth!}{}{;}{]}{}
          \tuple ...
         \tuplel _{1000} \DeclareRobustCommand{\tuple}
         \tupler 1001 {\ifstarvar{\@stuple}{\@tuple}}
                       1002 \DeclareRobustCommand{\@tuple}
                       1003 {\ifexclavar{\@e@tuple}{\@@tuple}}
```

```
1004 \DeclareRobustCommand{\@stuple}
           {\ifexclavar{\@e@stuple}{\@@stuple}}
      1006 \varcmd{@@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
      1007 \varcmd{@e@tuple}{\mth!}{\langle}{,}{\rangle}{}
      1008 \varcmd{@@stuple}{\mth}{\left\lceil \frac{1}{1}\right\rceil}{\left\lceil \frac{1}{1}\right\rceil}
      1009 \varcmd{@e@stuple}{\mth!}{\langle}{;}{\rangle}{}
      1010 \DeclareRobustCommand{\tuplel}
          {\ifstarvar{\@stuplel}{\@tuplel}}
      1012 \DeclareRobustCommand{\@tuplel}
      1013 {\ifexclavar{\@e@tuplel}{\@@tuplel}}
      1014 \DeclareRobustCommand{\@stuplel}
      1015 {\ifexclavar{\@e@stuplel}{\@@stuplel}}
      1016 \varcmd{@@tuplel}{\mth}{\left\langle}{,}{\right.}{}
      1017 \varcmd{@e@tuplel}{\mth!}{\langle}{,}{}}
      1018 \varcmd{@@stuplel}{\mth}{\left\langle}{;}{\right.}{}
      1020 \DeclareRobustCommand{\tupler}
           {\ifstarvar{\Ostupler}{\Otupler}}
      1022 \DeclareRobustCommand{\Qtupler}
           {\ifexclavar{\@e@tupler}{\@@tupler}}
      1024 \DeclareRobustCommand{\@stupler}
           {\ifexclavar{\@e@stupler}{\@@stupler}}
      1026 \varcmd{@@tupler}{\mth}{\left.\right.}{,}{\left.\right.}{}
      1027 \varcmd{@e@tupler}{\mth!}{}{,}{\rangle}{}
      1028 \varcmd{@@stupler}{\mth}{\left.}{;}{\right\rangle}{}
      1029 \varcmd{@e@stupler}{\mth!}{}{;}{\rangle}{}
      \set ... \{1^2 \mid 1^2\} \{1^2: 1^2\} \{1^2 \mid 1^2\} \{1^2: 1^2\} \set1 ... \{1^2 \mid 1^2\}
\setr ...\{1^2:1^2\}
     ...\{1^2 | 1^2\}
     ...\{1^2:1^2\}
      1031 \DeclareRobustCommand{\set}
      1032 {\ifstarvar{\@sset}{\@set}}
      1033 \DeclareRobustCommand{\@set}
      1034 {\ifexclavar{\@e@xset{\vert}}}{\@@xset{\vert}}}
      1035 \DeclareRobustCommand{\@sset}
      1036 {\ifexclavar{\@e@xset{\!:\!}}{\@@xset{.\!:\!}}}
      1037 \DeclareRobustCommand{\@@xset}[3]
          {\mth{\argmid{\left\lbrace}{\argsep{#2}{\,\middle#1\,}{#3}}{\right\rbrace}}}
      1039 \DeclareRobustCommand{\@e@xset}[3]
           {\mth!{\argmid{\lbrace}{\argsep{#2}{\,#1\,}{#3}}{\rbrace}}}
      1041 \DeclareRobustCommand{\set1}
           {\ifstarvar{\@ssetl}{\@setl}}
      1043 \DeclareRobustCommand{\@setl}
           {\ifexclavar{\@e@xsetl{\,\vert}}{\@@xsetl{\vert}}}
      1045 \DeclareRobustCommand{\@ssetl}
           {\ifexclavar{\@e@xsetl{\!:}}{\@@xsetl{.\!\!:}}}
      1047 \DeclareRobustCommand{\@@xset1}[2]
            1049 \DeclareRobustCommand{\@e@xset1}[2]
           {\mth!{\argmid{\lbrace}{#2}{\,#1}}}
      1051 \DeclareRobustCommand{\setr}
           {\ifstarvar{\@setr}{\@setr}}
      1053 \DeclareRobustCommand{\@setr}
           {\ifexclavar{\@e@setr}{\@@setr}}
      1055 \DeclareRobustCommand{\@@setr}[1]
          {\mth{\argmid{\left.}{#1}{\right\rbrace}}}
      1057 \DeclareRobustCommand{\@e@setr}[1]
           {\mth!{\argmid{}{#1}{\rbrace}}}
\card ...
```

```
1059 \DeclareRobustCommand{\card}
           {\ifexclavar{\@ecard}{\@card}}
       1061 \DeclareRobustCommand{\@card}[1]
       1063 \DeclareRobustCommand{\@ecard}[1]
          {\mth!{\argmid{\lvert}{#1}{\rvert}}}
       1064
   \pow ...
       1065 \DeclareRobustCommand{\pow}
          {\ifstarvar{\@spow}{\@pow}}
       1067 \DeclareRobustCommand{\@pow}[1]
       1069 \DeclareRobustCommand{\@spow}
       1070 {\ifexclavar{\@e@spow}{\@@spow}}
       1071 \DeclareRobustCommand{\@e@spow}[1]
           {\mthargfun![mathscr]{P}{\defval{#1}{\cdot}}}
       1073 \DeclareRobustCommand{\@@spow}[1]
           {\mthargfun[mathscr]{P}{\defval{#1}{\cdot}}}
       \emptyrel ...
       1076 \DeclareRobustCommand{\emptyrel}
       1077 {\mth{\varnothing}}
       \dom ...
   \cod_{1079} \usrmth{dom}{\cod}_{1079} \
   \rng 1080 \setminus \{cod}{{argfun}}
   \lim 1081 \operatorname{lng}{{argfun}}
       1082 \usrmth{img}{}{argfun}
   \deg ...
       1083 \usrmth{deg}{}{argfun}
       \prj ...
       1085 \DeclareRobustCommand{\prj}
       1086
           {\mthlbop{\downarrow}}
       1087 \DeclareRobustCommand{\rst}
           {\mthlbop{\upharpoonright}}
   \cmp ...
       1089 \DeclareRobustCommand{\cmp}
           {\mthlbop{\circ}}
       \emptyfun ...
       1092 \DeclareRobustCommand{\emptyfun}
           {\mth{\varnothing}}
       \pto ...
\pmapsto 1095 \DeclareMathOperator{\pto}
           {\ensuremath{\rightharpoonup}}
       1097 \DeclareMathOperator{\pmapsto}
           {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
       1099
             \kern-1.5ex\rightharpoonup}}}
```

```
\fix ...
    \inf_{1101} \operatorname{usrmth\{fix}{\{\}\{fun\}}
    \gfp 1103 \usrmth{lfp}{}{fun}
        1104 \usrmth{gfp}{}{fun}
        \Aomega ...
 \label{loss_loss} $$\Lambda = 1106 \operatorname{loss_{1106}} \operatorname{loss_{1106}} \
        1107 \usrmth{AOmega}{}{argset}[\Omega]
 \Atheta ...
 1109 \usrmth{ATheta}{}{argset}[\Theta]
\Aomicron ...
1111 \usrmth{AOmicron}{}{argset}[\Omicron]
        \SetB ...
        1113 \DeclareRobustCommand{\SetB}
        1114 {\mthset[mathbb]{B}}
   \SetF ...
        1115 \DeclareRobustCommand{\SetF}
            {\mthset[mathbb]{F}}
   \SetN ...
  \SetNI_{1117} \DeclareRobustCommand{\SetN}
        1118 {\mthset[mathbb]{N}}
        1119 \DeclareRobustCommand{\SetNI}[1][]
        1120 {\SetN[\infty #1]}
   \SetZ ...
  \SetZI 1121 \DeclareRobustCommand{\SetZ}
 \SetZPI 1122 {\mthset[mathbb]{Z}}
 \SetZNI 1123 \DeclareRobustCommand{\SetZI}[1][]
       1124 {\SetZ[\pm\infty #1]}
        1125 \DeclareRobustCommand{\SetZPI}[1][]
        1126 {\SetZ[+\infty #1]}
        1127 \DeclareRobustCommand{\SetZNI}[1][]
       1128 {\SetZ[-\infty #1]}
   \SetQ ...
  \SetQI_{1129} \DeclareRobustCommand{\SetQ}
 \SetQPI 1130 {\mthset[mathbb]{Q}}
 \SetQNI 1131 \DeclareRobustCommand{\SetQI}[1][]
        1132 {\SetQ[\pm\infty #1]}
        1133 \DeclareRobustCommand{\SetQPI}[1][]
        1134 {\SetQ[+\infty #1]}
        1135 \DeclareRobustCommand{\SetQNI}[1][]
        \SetR ...
  \SetRI 1137 \DeclareRobustCommand{\SetR}
 \SetRPI _{1138} \ \{\mthset[mathbb]{R}}
 \SetRNI 1139 \DeclareRobustCommand{\SetRI}[1][]
        1140 {\SetR[\pm\infty #1]}
```

```
1141 \DeclareRobustCommand{\SetRPI}[1][]
      1142 {\SetR[+\infty #1]}
      1143 \DeclareRobustCommand{\SetRNI}[1][]
      1144 {\SetR[-\infty #1]}
\verb|\SetCI|_{1145} \verb|\DeclareRobustCommand{\SetC}|
      1146 {\mthset[mathbb]{C}}
      1147 \DeclareRobustCommand{\SetCI}[1][]
      1148 {\SetC[\infty #1]}
      \num ...
\verb|\numcc||_{1150} \verb|\DeclareRobustCommand{\num}[1]
\numco 1151
          {\mth{[#1]}}
\numoc 1152 \DeclareRobustCommand{\numcc}[2]
\numoo 1153 {\mth{[\argsep{#1}{,}{#2}]}}
     1154 \DeclareRobustCommand{\numco}[2]
     1155 {\mth{[\argsep{#1}{,}{#2})}}
      1156 \DeclareRobustCommand{\numoc}[2]
      1157 {\mth{(\argsep{#1}{,}{#2}]}}
      1158 \DeclareRobustCommand{\numoo}[2]
          {\mth{(\argsep{#1}{,}{#2})}}
      \abs ...
1162 {\ifexclavar{\@eabs}{\@abs}}
      1163 \DeclareRobustCommand{\@abs}[1]
      1164 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
      1165 \DeclareRobustCommand{\@eabs}[1]
      1166 {\mth!{\argmid{\lvert}{#1}{\rvert}}}
      1167 \DeclareRobustCommand{\norm}
          {\ifexclavar{\@enorm}{\@norm}}
      1169 \DeclareRobustCommand{\@norm}[1]
      1170 {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
      1171 \DeclareRobustCommand{\@enorm}[1]
      1172 {\mth!{\argmid{\lVert}{#1}{\rVert}}}
\floor ...
\cite{Command{floor}}
          {\ifexclavar{\@efloor}{\@floor}}
      1175 \DeclareRobustCommand{\@floor}[1]
          {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
      1177 \DeclareRobustCommand{\@efloor}[1]
          {\mth!{\argmid{\lfloor}{#1}{\rfloor}}}
      1179 \DeclareRobustCommand{\ceil}
      1180 {\ifexclavar{\@eceil}{\@ceil}}
      1181 \DeclareRobustCommand{\@ceil}[1]
      1182 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
      1183 \DeclareRobustCommand{\@eceil}[1]
          {\mth!{\argmid{\lceil}{#1}{\rceil}}}
      1186 \usrmth{arg}{}{fun}
 \evn ...
 \verb| odd |_{1187} \verb| usrmth{evn}{{}fun} |
      1188 \usrmth{odd}{}{fun}
```

```
\bst ...
     \label{lambda} $$ \arg bst_{1189 \usrmth{bst}{fun}} $$
            1190 \usrmth{argbst}{}{fun}[arg\,bst]
        \min ...
        \label{local_state} $\max_{1191 \leq min}{{\min}{fun}} $$
     \argmax 1193 \usrmth{argmin}{}{fun}[arg\,min]
            1194 \usrmth{argmax}{}{fun}[arg\,max]
        \inf ...
        \sup _{1195} \ \ \inf\{inf\}\{fun\}
            1196 \sl \{sup}{fun}
        \gcd ...
        \label{lower} $\lim_{1197 \le t} \sup_{100} \left( \frac{1}{t} \right) = 0
            1198 \operatorname{lcm}{}{fun}
            \emptyseq ...
            1200 \DeclareRobustCommand{\emptyseq}
                {\mth{\varepsilon}}
        \len ...
            1202 \DeclareRobustCommand{\len}
            1203 {\ifexclavar{\@elen}{\@len}}
            1204 \DeclareRobustCommand{\@len}[1]
            1205 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
            1206 \DeclareRobustCommand{\@elen}[1]
            1207 {\bf 1207} {\bf 1207} {\bf 1207} {\bf 1207}
        \fst ...
        \lst _{1208} \ \mbox{usrmth{fst}{fst}{argfun}}
            1209 \usrmth{lst}{}{argfun}
            1210 \fi
            1215 \ifcom@
  \defcomcls ... to do!
               • \defcomcls{CompClass};
                 \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
               • \defcomcls{CompClass}[NewClass];
                 \compClass[sub][sup][arg] = NewClass_{SUB}^{SUP}(ARG)
            1216 \DeclareRobustCommandx{\defcomcls}[2][2=]
            1217 {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
               \defcomclsgrp{CompClass};
                 \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                 \CoCompClass[sub][sup][arg] = CoCompCLASS_{SUB}^{SUP}(ARG)
                 \verb|\CompClassE[sub][sup][arg]| = CompClass-Easy_{SUB}^{SUB}(ARG)
                 \CoCompClassE[sub][sup][arg] = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                 \label{lower_complex} $$\operatorname{CompClassH[sub][sup][arg]} = \operatorname{CompClass-Hard}_{SUB}^{SUP}(ARG)
```

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

```
\verb|\NCompClassC[sub][sup][arg]| = NNewClass-complete_{Sub}^{SUP}(ARG)
                              \ConCompClassC[sub][sup][arg] = ConNewClass-Complete_{Sub}^{SUP}(Arg)
                             \verb|\UCompClass[sub][sup][arg]| = UNEWCLASS^{SUP}_{SUB}(ARG)
                             \verb|\CoUCompClass[sub][sup][arg]| = \mathrm{CoUNEwCLASS_{SUB}^{SUP}(ARG)}
                             \label{eq:UCompClassE[sub] sup of the complex of 
                             \verb|\CoUCompClassE[sub][sup][arg]| = CoUNewClass-easy_{SUB}^{SUP}(ARG)
                             \label{eq:UCompClassH} $$ \UCompClassH[sub] [sup] [arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
                              \verb|\CoUCompClassH[sub][sup][arg]| = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
                              \label{eq:union_loss} $$ \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG) $$
                              \CoUCompClassC[sub][sup][arg] = CoUNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                             \verb|\ACompClass[sub][sup][arg]| = ANEWCLASS_{SUB}^{SUP}(ARG)
                              \CoACompClass[sub][sup][arg] = CoANEWCLASS_{SUB}^{SUP}(ARG)
                             \label{eq:accompClassE} $$ \Delta CompClassE[sub][sup][arg] = ANEWCLASS-EASY_{SUB}^{SUP}(ARG) $$
                              \CoACompClassE[sub][sup][arg] = CoANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                             \Lambda CompClassH[sub][sup][arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                             \CoACompClassH[sub][sup][arg] = CoANewClass-Hard_{SUB}^{SUP}(Arg)
                              \ACompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                             \CoACompClassC[sub][sup][arg] = CoANewClass-CompLete_{SUB}^{SUP}(ARG)
                    1218 \DeclareRobustCommandx{\defcomclsgrp}[2][2=]
                    1219
                                {\defcomclsgrpsem{\#1}{\defval{\#2}{\#1}}}\%
                    1220
                                \defcomclsgrpsem{#1}{\defval{#2}{#1}}[Co]}
                    1221 \DeclareRobustCommandx{\defcomclsgrpsem}[3][3=]
                    1222
                               {\defcomclsgrpred{#3#1}{#2}[#3]%
                    1223
                               \defcomclsgrpred{#3D#1}{#2}[#3D]%
                    1224
                               1225
                               \defcomclsgrpred{#3U#1}{#2}[#3U]%
                    1226
                               \defcomclsgrpred{#3A#1}{#2}[#3A]}
                    1227 \DeclareRobustCommandx{\defcomclsgrpred}[3][3=]
                              {\defcomclsgrpcmd{#1}{#2}[#3]%
                    1228
                    1229
                               \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                    1230
                               \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                               \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                    1232 \DeclareRobustCommandx{\defcomclsgrpcmd}[4][3=, 4=]
                               {\csdef{#1}{\txtoargcom{#3#2#4}}}
\defcomhrc ... to do!
                          • \defcomhrc{CompHierarchy};
                              CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                          • \defcomhrc{CompHierarchy} [NewHierarchy];
                              CompHierarchy[sub][sup][par] = NEWHIERARCHY<sup>SUP</sup>[PAR]
                    1234 \DeclareRobustCommandx{\defcomhrc}[2][2=]
                               {\csdef{#1}{\txtoparcom{\defval{#2}{\#1}}}}
                    \Easy
        \Hard _{1237} \cmdtxtcom{Easy}
 \Complete 1238 \cmdtxtcom{Hard}
                    1239 \cmdtxtcom{Complete}
                    • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
          \FPT
       \FPLin
                          • \FPLin[sub][sup][arg] = FPL_{SUB}^{SUP}(ARG)
       \FPQdr
                          • \FPQdr[sub][sup][arg] = FPQ_{SUB}^{SUP}(ARG)
       \FPCub
```

 $\ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{Sub}^{SUP}(Arg)$

```
• \FPCub[sub][sup] [arg] = FPC_{SUB}^{SUP}(ARG)
                     1241 \defcomcls{FPT}
                     1242 \defcomcls{FPLin}[FPL]
                     1243 \defcomcls{FPQdr}[FPQ]
                     1244 \defcomcls{FPCub}[FPC]
     \Time(E/H/C)
                         • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
                            TimeE[sub][sup][arg] = TIME-EASY_{SUB}^{SUP}(ARG)
    \DTime(E/H/C)
                            TimeH[sub][sup][arg] = TIME-HARD_{SUB}^{SUP}(ARG)
   \Time(E/H/C)
                            TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
   \UTime(E/H/C)
   \ATime(E/H/C)
                          • \DTime[sub][sup][arg] = DTIME_{SUB}^{SUP}(ARG)
                            \DTimeE[sub][sup][arg] = DTIME-EASY_{SUB}^{SUP}(ARG)
                            \DTimeH[sub][sup][arg] = DTIME-HARD_{SUB}^{SUP}(ARG)
                            \texttt{DTimeC[sub][sup][arg]} = DTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • \NTime[sub][sup][arg] = NTIME_{SUB}^{SUP}(ARG)
                            \NTimeE[sub][sup][arg] = NTIME-EASY_{SUB}^{SUP}(ARG)
                            \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                            \NTimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         \UTimeE[sub][sup][arg] = UTIME-EASY_{SUB}^{SUP}(ARG)
                            \UTimeH[sub][sup][arg] = UTIME-HARD_{SUB}^{SUP}(ARG)
                            \UTimeC[sub][sup][arg] = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         \bullet \ \texttt{\ATime[sub][sup][arg]} = \mathrm{ATime}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                            \verb| ATimeE[sub][sup][arg] = ATIME-EASY_{SUB}^{SUP}(ARG)
                            \verb| ATimeH[sub] [sup] [arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
                            \Delta TimeC[sub][sup][arg] = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                     1246 \defcomclsgrp{Time}
                         • Space[sub][sup][arg] = Space[Sub](ARG)
   \Space(E/H/C)
                            \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)
                         • DSpace[sub][sup][arg] = DSPACE_{SUB}^{SUP}(ARG)
  \ASpace(E/H/C)
                            \texttt{DSpaceE[sub][sup][arg]} = DSPACE-EASY_{SUB}^{SUP}(ARG)
                            \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
                            \verb|\DSpaceC[sub][sup][arg]| = \mathrm{DSPACE\text{-}COMPLETE}^{SUP}_{SUB}(ARG)
                         \bullet \ \texttt{NSpace[sub][sup][arg]} = \mathrm{NSPACE}^{SUP}_{SUB}(ARG)
                            \verb|\NSpaceE[sub][sup][arg]| = NSPACE-EASY_{SUB}^{SUP}(ARG)
                            \NSpaceH[sub][sup][arg] = NSPACE-HARD_{SUB}^{SUP}(ARG)
                            \verb|\NSpaceC[sub][sup][arg]| = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
                            \verb|VUSpaceE[sub][sup][arg]| = USPACE-EASY_{SUB}^{SUB}(ARG)
                            \verb|VSpaceH[sub][sup][arg]| = USpace-Hard_{SUB}^{SUP}(ARG)
                            \verb|VSpaceC[sub][sup][arg]| = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                            \texttt{ASpaceE[sub][sup][arg]} = ASPACE-EASY_{SUB}^{SUP}(ARG)
                            \verb|\ASpaceH[sub][sup][arg]| = ASPACE-HARD_{SUB}^{SUP}(ARG)
                            ASpaceC[sub][sup][arg] = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                     1247 \defcomclsgrp{Space}
                          \bullet \ \texttt{\logTime[sub][sup][arg]} = \mathrm{LogTime}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{Arg}) 
 \LogTime(E/H/C)
                            \verb|\LogTimeE[sub][sup][arg]| = LogTime-Easy_{SUB}^{SUP}(ARG)
\DLogTime(E/H/C)
                            \LogTimeH[sub][sup][arg] = LogTime-Hard_{SUB}^{SUP}(Arg)
\NLogTime(E/H/C)
                            \lceil LogTimeC[sub][sup][arg] = LogTime-Complete_{SUB}^{SUP}(ARG)
\ULogTime(E/H/C)
\ALogTime(E/H/C)
                         • \DLogTime[sub][sup][arg] = DLogTime_{SUB}^{SUP}(ARG)
                            \verb|\DLogTimeE[sub][sup][arg]| = DLOGTIME-EASY_{SUB}^{SUP}(ARG)
                            \texttt{DLogTimeH[sub][sup][arg]} = DLogTime-Hard_{SUB}^{SUP}(ARG)
```

 $\DLogTimeC[sub][sup][arg] = DLogTime-COMPLETE_{SUB}^{SUP}(ARG)$

```
\verb|\NLogTimeE[sub][sup][arg]| = NLogTime-EASY_{SUB}^{SUP}(ARG)
                            \verb|\NLogTimeH[sub][sup][arg]| = NLOGTIME-HARD_{SUB}^{SUP}(ARG)
                            \NLogTimeC[sub][sup][arg] = NLogTime-Complete_{SUB}^{SUP}(ARG)
                          • \ULogTime[sub][sup][arg] = ULogTime_{SUB}^{SUP}(ARG)
                            \verb|\ULogTimeE[sub][sup][arg]| = ULogTime-EASY_{SUB}^{SUP}(ARG)
                            \verb|\ULogTimeH[sub][sup][arg]| = ULOGTIME-HARD_{SUB}^{SUP}(ARG)
                            \ULogTimeC[sub][sup][arg] = ULogTime-COMPLETE_{SUB}^{SUP}(ARG)
                          • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                            \verb|\ALogTimeE[sub][sup][arg]| = ALogTime-EASY_{SUB}^{SUP}(ARG)
                            \ALogTimeH[sub][sup][arg] = ALogTime-HARD_{SUB}^{SUP}(ARG)
                            \verb|\ALogTimeC[sub][sup][arg]| = ALogTime-complete_{SUB}^{SUP}(ARG)
                     1248 \defcomclsgrp{LogTime}
                          • \lfloor 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)
                            \verb|\LogSpaceH[sub][sup][arg]| = \operatorname{LogSpace-Hard}_{SUB}^{SUP}(ARG)
\NLogSpace(E/H/C)
                            LogSpaceC[sub][sup][arg] = LogSpace-Complete_{Sub}^{SUP}(ARG)
\ULogSpace(E/H/C)
\ALogSpace(E/H/C)
                          • \DLogSpace[sub][sup][arg] = DLogSpace[sub](ARG)
                            \label{eq:decomposition} $$\DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)$
                            \verb|\DLogSpaceH[sub][sup][arg]| = DLogSpace-Hard_{SUB}^{SUB}(ARG)
                            \DLogSpaceC[sub][sup][arg] = DLogSpace-Complete_{SUB}^{SUP}(ARG)
                          • \NLogSpace[sub][sup][arg] = NLogSpace_{SUB}^{SUP}(ARG)
                            \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                            \verb|\NLogSpaceH[sub][sup][arg]| = NLogSpace-Hard_{SUB}^{SUP}(ARG)
                            \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(Arg)
                          • \ULogSpace[sub][sup][arg] = ULogSpace[Sub](ARG)
                            \label{eq:ULogSpaceE} $$\operatorname{ULogSpace-EASY}^{SUP}_{SUB}(ARG)$$
                            \verb|\ULogSpaceH[sub][sup][arg]| = ULogSpace-Hard_{SUB}^{SUP}(ARG)
                            \verb| ULogSpaceC[sub][sup][arg] = ULogSpace-complete_{SUB}^{SUP}(ARG)
                          • ALogSpace[sub][sup][arg] = ALogSpace_{SUB}^{SUP}(ARG)
                            ALogSpaceE[sub][sup][arg] = ALogSpace-Easy_{SUB}^{SUP}(ARG)
                            \ALogSpaceH[sub][sup][arg] = ALogSpace-Hard_{Sub}^{SUP}(ARG)
                            \verb|\ALogSpaceC[sub][sup][arg]| = ALogSpace-Complete_{Sub}^{SUP}(ARG)
                     1249 \defcomclsgrp{LogSpace}
    \PTime(E/H/C)
                          • \P [sub] [sup] [arg] = \Pr [MESUP (ARG)
                            \P \PTimeE[sub] [sup] [arg] = PTIME-EASY<sup>SUP</sup><sub>SUB</sub>(ARG)
   \DPTime(E/H/C)
                            \P \PTimeH[sub] [sup] [arg] = PTIME-HARD_SUB (ARG)
   \NPTime(E/H/C)
                            \P \PTimeC[sub] [sup] [arg] = PTIME-COMPLETE_{SUB}^{SUP}(ARG)
   \UPTime(E/H/C)
   \APTime(E/H/C)
                          \verb|\DPTimeE[sub][sup][arg]| = \mathrm{DPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                            \DPTimeH[sub][sup][arg] = DPTIME-HARD_{SUB}^{SUP}(ARG)
                            \DPTimeC[sub][sup][arg] = DPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          • \NPTime[sub][sup][arg] = NPTIME_{SUB}^{SUP}(ARG)
                            \NPTimeE[sub][sup][arg] = NPTIME-EASY_{SUB}^{SUP}(ARG)
                            \NPTimeH[sub][sup][arg] = NPTIME-HARD_{SUB}^{SUP}(ARG)
                            \NPTimeC[sub][sup][arg] = NPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         \verb|\UPTimeE[sub][sup][arg]| = \mathrm{UPTIME\text{-}EASY}^{SUP}_{SUB}(ARG)
                            \UPTimeH[sub][sup][arg] = UPTIME-HARD_{SUB}^{SUP}(ARG)
                            \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                          \bullet \ \texttt{\ \ } \texttt{APTime[sub][sup][arg]} = APTIME^{SUP}_{SUB}(ARG)
                            \texttt{\APTimeE[sub][sup][arg]} = \operatorname{APTIME-EASY}^{SUP}_{SUB}(\operatorname{ARG})
                            \texttt{\APTimeH[sub][sup][arg]} = APTIME-HARD_{SUB}^{SUP}(ARG)
                            \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                     1250 \defcomclsgrp{PTime}
```

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

```
\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) $$
                              \verb|VPSpaceH[sub][sup][arg]| = UPSPACE-HARD_{SUB}^{SUP}(ARG)
                              \UPSpaceC[sub][sup][arg] = UPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                           \bullet \ \ \texttt{APSpace[sub][sup][arg]} = \mathrm{APSpace}^{SUP}_{SUB}(ARG)
                             \verb|\APSpaceE[sub][sup][arg]| = APSPACE-EASY_{SUB}^{SUP}(ARG)
                             \verb|\APSpaceH[sub][sup][arg]| = APSPACE-HARD_{SUB}^{SUP}(ARG)
                             \label{eq:apsign} $$ APSpaceC[sub] [sup] [arg] = APSpace-Complete_{SUB}^{SUP}(ARG) $$
                       1251 \defcomclsgrp{PSpace}
                           • \QPTime[sub][sup][arg] = QPTIME_{SUB}^{SUP}(ARG)
  \QPTime(E/H/C)
                             \label{eq:QPTimeEsub} $$ \PTIME-EASY_{SUB}^{SUP}(ARG) = QPTIME-EASY_{SUB}^{SUP}(ARG) $$
 \DQPTime(E/H/C)
                              \verb|\QPTimeH[sub][sup][arg]| = \mathrm{QPTIME}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
 \NQPTime(E/H/C)
                              \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
 \UQPTime(E/H/C)
 \AQPTime(E/H/C)
                           • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                              \verb|\DQPTimeE[sub][sup][arg]| = DQPTIME-EASY_{SUB}^{SUP}(ARG)
                              \verb|\DQPTimeH[sub][sup][arg]| = \mathrm{DQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                             \DQPTimeC[sub][sup][arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                           • \NQPTime[sub][sup][arg] = NQPTIME_{SUB}^{SUP}(ARG)
                             \NQPTimeE[sub][sup][arg] = NQPTIME-EASY_{SUB}^{SUP}(ARG)
                             \verb|\NQPTimeH[sub][sup][arg]| = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                             \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                           \verb|VQPTimeE[sub][sup][arg]| = \mathrm{UQPTIME\text{-}EASY}^{SUP}_{SUB}(\mathrm{ARG})
                              \verb|VQPTimeH[sub][sup][arg]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                             \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                           • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                              \texttt{AQPTimeE[sub][sup][arg]} = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                              \texttt{AQPTimeH[sub][sup][arg]} = AQPTIME-HARD_{SUB}^{SUP}(ARG)
                             \AQPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      1252 \setminus defcomclsgrp{QPTime}
                           • \QPSpace[sub][sup][arg] = QPSPACE_{SUB}^{SUP}(ARG)
 \QPSpace(E/H/C)
                              \label{eq:QPSpace} $$ \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)
                      1253 \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)
                          \verb|\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)
                      1254 \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)
                      1255 \defcomclsgrp{ExpSpace}
                      \PH
                          • \PH[sub][sup][par] = PH<sub>SUB</sub>[PAR]
                      1257 \defcomhrc{PH}
                          \WH
                      1258 \defcomhrc{WH}[W]
                 \AH
                          ullet \AH[sub][sup][par] = A_{SUB}^{SUP}[PAR]
```

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

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

1259 \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}]
      1260 \defcomhrc{DLH}[{\mth{\Delta}}]
      1261 \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}]
      1262 \defcomhrc{ELH}[{\mth{\Sigma}}]
      1263 \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}]
      1264 \defcomhrc{ULH}[{\mth{\Pi}}]
      1265 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
      1266 \fi
      1271 \ifgrp@
      \GrpName ...
   · · · 1273 \newcommand{\grpname}{G}
      1274 \usrmthlatupp{Grp}{Name}{name}[\grpname]
\VerSet ...
   ··· 1275 \newcommand{\versym}{v}
      1276 \newcommand{\verset}{V}
      1277 \cmdmthsetext{Ver}[\verset][\versym]
      1278 \cmdmthsymelm{iver}[\versym_{I}]
      1279 \cmdmthsymelm{fver}[\versym_{F}]
\EdgRel ...
      1280 \newcommand{\edgrel}{E}
      1281 \cmdmthrel{Edg}[\edgrel]
      \PthSet ...
\pthFun _{1283} \newcommand{\pthsym}{\pi}
      1284 \newcommand{\pthset}{Pth}
      1285 \cmdmthsetext{Pth} [\pthset] [\pthsym]
      1286 \usrmth{path}{}{argfun}
  \pre ...
   \suc 1287 \usrmth{pre}{}{oargfun}
      1288 \usrmth{suc}{}{oargfun}
      1289 \fi
      1292 %%** Macros for Games ************************
      1294 \ifgam@
```

```
\SATG ...
       · · · 1296 %% Satisfiability Games
           1297 \cmdtxtoparname{SATG}[Sat]
           1299 \ \mbox{\em \%}\ \mbox{\em Validity Games}
           1300 \cmdtxtoparname{VALG}[Val]
           1301
           1302 %% Evaluation Games
           1303 \cmdtxtoparname{EVLG}[Ev1]
           1304
           1305 %% Synthesis Games
           1306 \cmdtxtoparname{SYNG}[Syn]
           1308 %% Model-Checking Games
           1309 \cmdtxtoparname{MCG}[MC]
           1310
           1311 %% Ehrenfeucht-Fraisse Games
           1312 \cmdtxtoparname{EFG}[EF]
           \PlrSym ...
  \position 1314 \newcommand{\plrsym}{E}
           1315 \cmdmthsym{Plr}[\plrsym]
           1316 \newcommand{\oppsym}{A}
           1317 \cmdmthsym{Opp}[\oppsym]
\ArenaName ...
       \cdots 1318 \newcommand{\arenaname}{A}
           1319 \verb| \arena| {\tt Name} {\tt (name) [\arenaname]} \\
   \PosSet ...
       \cdots 1320 \newcommand{\possym}{v}
           1321 \newcommand{\posset}{Ps}
           1322 \mbox{ \cmdmthsetext{Pos}[\posset] [\possym]}
           1323 \cmdmthsymelm{ipos}[\possym_{I}]
           1324 \verb|\cmdmthsymelm{fpos}| [\verb|\possym_{F}|]
           1325 \verb|\cmdmthset{PPos}[\posset_{\prop}]
           1326 \mbox{ \cmdmthsymelm{ppos}[\possym_{\PlrSym}]}
           1327 \cmdmthset{OPos}[\posset_{\OppSym}]
           1328 \cmdmthsymelm{opos}[\possym_{\cmdmthsymelm}]
  \PlrFun ...
           1329 \mbox{ } \mbox{plrfun}{pl}
           1330 \cmdmthfun{plr}[\plrfun]
   \MovRel ...
           1331 \newcommand{\movrel}{Mv}
           1332 \cmdmthrel{Mov}[\movrel]
 \GameName ...
       · · · 1333 \newcommand{\gamename}{\Game}
           1334 \usrmthlatupp{Game}{Name}{name}[\gamename]
   \WinSet ...
           1335 \newcommand{\winset}{Wn}
           1336 \cmdmthset{Win}[\winset]
   \ObsSet ...
   \obsFun _{1337} \newcommand{\obsset}{0b}
           1338 \cmdmthset{Obs}[\obsset]
           1339 \cmdmthfun{obs}
```

```
\HstSet ...
            · · · 1341 \newcommand{\hstsym}{\varpi}
                     1342 \mbox{ } \mbox
                     1343 \cmdmthsetext{Hst}[\hstset][\hstsym]
                     1344 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                     1345 \verb|\cmdmthsymelm{phst}[\hstsym_{\protect\columnwell}]
                     1346 \cmdmthset{OHst}[\hstset_{\OppSym}]
                     1347 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                     1348 \ \mbox{usrmth{play}{}} \ \
\PlaySet ...
\verb|\playFun $_{1349} \le mand{\pi}{\pi}{\pi}
                     1350 \mbox{\newcommand{\playset}{Play}}
                     1351 \verb|\cmdmthsetext{Play}[\playset][\playsym]|
                     1352 \usrmth{hst}{}{argfun}
  \StrSet ...
            \cdots 1353 \verb| newcommand{\strsym}{\sigma}|
                     1354 \newcommand{\strset}{Str}
                     1355 \cmdmthsetext{Str}[\strset][\strsym]
                     1356 \cmdmthset{PStr}[\strset_{\PlrSym}]
                     1357 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                     1358 \cmdmthset{OStr}[\strset_{\OppSym}]
                     1359 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
   \PrfSet ...
   \prfFun _{1360} \newcommand{\prfsym}{\xi}
                     1361 \newcommand{\prfset}{Prf}
                     1362 \cmdmthsetext{Prf}[\prfset][\prfsym]
         \ent ...
         \esc _{1363} \usrmth{ent}{}{oargfun}
                     1364 \usrmth{esc}{}{oargfun}
         \int ...
         \out 1365 \usrmth{int}{}{oargfun}
                     1366 \usrmth{out}{}{oargfun}
         \atr ...
         \rch 1367 \usrmth{atr}{}{oargfun}
                     1368 \usrmth{rch}{}{oargfun}
       \lift ...
                     1369 \usrmth{lift}{}{oargfun}
         \sol ...
                     1370 \usrmth{sol}{}{oargfun}
                     \BG ...
            · · · 1372 %% Buchi Games
                     1373 \cmdtxtoparname{BG}
                     1374
                     1375 %% Co-Buchi Games
                     1376 \cmdtxtoparname{CG}
                     1377
                     1378 %% Parity Games
                     1379 \cmdtxtoparname{PG}
                     1381 %% Rabin Games
```

```
1382 \cmdtxtoparname{RG}
    1384 %% Streett Games
    1385 \cmdtxtoparname{SG}
    1387 %% Muller Games
    1388 \cmdtxtoparname{MG}
    \EvnSym ...
\verb|\dSym|_{1390} \verb|\newcommand{\evnsym}{0}|
    1391 \cmdmthsym{Evn}[\evnsym]
    1392 \mbox{ } \mbox{newcommand} \mbox{ } \mbox{oddsym}{1}
    1393 \cmdmthsym{Odd}[\oddsym]
\PrtSet ...
\label{lem:linear_sym} $$ \Pr Fun_{1394} \rightarrow {\prtsym}_{p} $$
    1395 \newcommand{\prtset}{Pr}
    1396 \cmdmthsetext{Prt}[\prtset][\prtsym]
    1397 \cmdmthfun{prt}[pr]
    \EG ...
  · · · 1400 %% Energy Games
    1401 \cmdtxtoparname{EG}
    1403 %% Mean-Payoff Games
    1404 \cmdtxtoparname{MPG}
    1405
    1406 %% Discounted-Payoff Games
    1407 \cmdtxtoparname{DPG}
    \MaxSym ...
\verb|\MinSym|_{1409} \verb|\newcommand{\maxsym}{\cline{Conditions}} 
    1410 \cmdmthsym{Max}[\maxsym]
    1411 \mbox{newcommand{\minsym}{\homsym}{\mbox{boxminus}}}
    1412 \cmdmthsym{Min}[\minsym]
\WghSet ...
1414 \newcommand{\wghset}{Wg}
    1415 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
    1416 \cmdmthfun{wgh}[wg]
    1418 \fi
    1423 \iflog@
```

```
\BF ...
       \QBF _{1425} % Boolean Formulae
         · · · 1426 \cmdtxtoparname{BF}
                   1427
                   1428\ \% Quantified Boolean Formulae
                   1429 \verb|\DeclareRobustCommand{QBF}|
                   1430 \{\{\text{txtname}\{Q\}\}\}
                   1431 \DeclareRobustCommand{\EBF}
                                {\ensuremath{\exists}\BF}
                   1433 \DeclareRobustCommand{\UBF}
                                {\ensuremath{\forall}\BF}
                   \LogSig ...
         \cdots 1436 \newcommand{\logsig}{L}
                    1437 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
         \Tt ...
         \label{final} $$ \P_{1438 \rightarrow 1438} \rightarrow {\tilde{\tau}}_{1438} \
                    1439 \operatorname{Tt}{sym}[\operatorname{ttsym}]
                    1440 \mbox{ } \mbox{newcommand{\ffsym}{\bot}}
                   1441 \usrmth{Ff}{}{sym}[\ffsym]
    \LNeg ...
    \LNot _{1442} \ensuremath{\lngsym}{\lng}
                    1443 \usrmth{LNeg}{}{luop}[\lnegsym]
                   1444 \mbox{ } {\mbox{lnotsym}}{\mbox{sim}}
                   1445 \usrmth{LNot}{}{luop}[\lnotsym]
    \LCon ...
    \LDis _{1446} \rightarrow _{1446} \rightarrow _{1446}
                    1447 \usrmth{LCon}{}{lbop}[\lconsym]
                   1448 \mbox{ \newcommand{\ldissym}{\lor}}
                   1449 \verb|\usrmth{LDis}{{]}{lbop}[\ldissym]}
    \LImp ...
    \verb|\LCoi|_{1450} \verb|\newcommand{\limpsym}{{\normalconv}}|
                    1451 \usrmth{LImp}{}{lbop}[\limpsym]
                   1452 \newcommand{\lcoisym}{\leftrightarrow}
                   1453 \usrmth{LCoi}{}{lbop}[\lcoisym]
    \LExs ...
    \LAll _{1454} \rightarrow \{1454 \}
                    1455 \usrmth{LExs}{}{luop}[\lexssym]
                    1456 \newcommand{\lallsym}{\forall}
                   1457 \usrmth{LAll}{}{luop}[\lallsym]
  \APSet ...
          \cdots 1458 \newcommand{\apsym}{p}
                   1459 \mbox{ } \mbox{newcommand{\apset}{AP}}
                    1460 \cmdmthsetext{AP}[\apset][\apsym]
                   1461 \usrmth{ap}{}{argfun}
       \sub ...
                   1462 \mbox{ \normalfont} {\normalfont} {\n
       \Cnt ...
       1465 \operatorname{Sym}{{\mathrm{Sym}}[\cdot]}
```

```
\QAE ...
        \label{eq:QEA} $$ \QEA _{1466} \xspace \QAE}{{\sym}[\forall\exists]} $$
                     1467 \verb|\colored] 1467 \verb|\colored| 1477 \verb|\colored| 1477
\QntSet ...
           · · · 1468 \newcommand{\qntsym}{\wp}
                     1469 \mbox{ } \mbox{qntset}{Qn}
                     1470 \cmdmthsetext{Qnt}[\qntset][\qntsym]
     \free ...
   \bound _{1471} \usrmth{free}{}{argfun}
                    1472 \usrmth{bound}{}{argfun}
        \dep ...
        \alt _{1473} \usrmth{dep}{}{argfun}
                     1474 \usrmth{alt}{}{argfun}
        \cnf ...
        \dnf _{1475} \cmdtxtabr{cnf}
           ... 1476 \cmdtxtabr{dnf}
                     1477 \cmdtxtabr{pnf}
                     1478 \cmdtxtabr{nnf}
                     \LogStr ...
          \cdots 1480 \newcommand{\logstr}{L}
                     1481 \usrmthlatupp{Log}{Str}{str}[\logstr]
\ValSet ...
           · · · 1482 \newcommand{\valsym}{\xi}
                     1483 \newcommand{\valset}{Val}
                     1484 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet ...
           \cdots 1485 \verb|\newcommand{\asgsym}{\chi}|
                     1486 \mbox{ \newcommand{\asgset}{Asg}}
                     1487 \cmdmthsetext{Asg}[\asgset][\asgsym]
                     \FOL ...
           · · · 1489 % First-Order Logic
                     1490 \cmdtxtoparname{FOL}[Fol]
                     1491 \cmdtxtoparname{F0}[F0]
                     1493 % Monadic First-Order Logic
                    1494 \DeclareRobustCommand{\MFOL}
                     1495 \{\{\text{txtname}\{M\}\}\}\
                     1496 \DeclareRobustCommand{\MFO}
                    1497 {{\txtname{M}}\FO}
                     \VarSig ...
           ··· 1499 \newcommand{\varsig}{V}
                     1500 \verb|\usrmth|| atupp{\Var}{Sig}{sig}[\varsig]
                     1501 \newcommand{\varsym}{x}
                     1502 \newcommand{\varset}{Vr}
                     1503 \cmdmthsetext{Var}[\varset][\varsym]
                     1504 \usrmth{var}{}{argfun}[vr]
                     1505 \usrmth{dim}{}{argfun}[dm]
```

```
\ConSig ...
    \cdots 1506 \newcommand{\consig}{C}
        1507 \verb|\usrmthlatupp{Con}{Sig}{sig}[\consig]
       1508 \mbox{ \newcommand{\consym}{c}}
       1509 \mbox{newcommand{\conset}{Cn}}
        1510 \cmdmthsetext{Con}[\conset][\consym]
        1511 \usrmth{con}{}{argfun}[cn]
\FunSig ...
    · · · 1512 \newcommand{\funsig}{F}
       1513 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
        1514 \neq \frac{1}{1514} 
        1515 \mbox{ \newcommand{\funset}{Fn}}
        1516 \cmdmthsetext{Fun}[\funset][\funsym]
        1517 \usrmth{fun}{}{argfun}[fn]
        1518 \usrmth{art}{}{argfun}[ar]
\TerSig ...
    ··· 1519 \newcommand{\tersig}{T}
        1520 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
        1521 \newcommand{\tersym}{t}
        1522 \newcommand{\terset}{Tr}
        1523 \cmdmthsetext{Ter}[\terset][\tersym]
        1524 \usrmth{ter}{}{argfun}
\RelSig ...
    · · · 1525 \newcommand{\relsig}{R}
        1526 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
        1527 \mbox{ } \mbox{newcommand{\relsym}{r}}
        1528 \newcommand{\relset}{Rl}
        1529 \cmdmthsetext{Rel}[\relset][\relsym]
        1530 \usrmth{rel}{}{argfun}[rl]
   \skm ...
       1531 \usrmth{skm}{}{argfun}
        \verb|\ConStr ...
    \cdots 1533 \newcommand{\constr}{C}
        1534 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr ...
    \cdots 1535 \newcommand{\funstr}{F}
        1536 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr ...
    ··· 1537 \newcommand{\terstr}{T}
        1538 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr ...
    · · · 1539 \newcommand{\relstr}{R}
        1540 \usrmthlatupp{Rel}{Str}{str}[\relstr]
        \DF ...
    \IF 1542 % Dependence-Friendly Logic
    · · · 1543 \cmdtxtoparname{DF}
        1545 % Independence-Friendly Logic
        1546 \cmdtxtoparname{IF}
        1547
```

```
1548 % Dependence/Independence-Friendly Logic
      1549 \cmdtxtoparname{DIF}
      1550
      1551 % Dependence Logic
      1552 \cmdtxtoparname{DL}
      1553
      1554 % Team Logic
      1555 \cmdtxtoparname{TL}
      1557 % Alternating Dependence-Friendly Logic
      1558 \cmdtxtoparname{ADF}
      1560 % Alternating Independence-Friendly Logic
      1561 \cmdtxtoparname{AIF}
      1562
      1563\ \% Alternating Dependence/Independence-Friendly Logic
      1564 \cmdtxtoparname{ADIF}
      \LEExs ...
\LAAll _{1566} \newcommand{\leexssym}{\Sigma}
      1567 \usrmth{LEExs}{}{luop}[\leexssym]
      1568 \newcommand{\laallsym}{\Pi}
      1569 \usrmth{LAA11}{}{luop}[\laallsym]
      \SOL ...
  · · · 1572 % Second-Order Logic
      1573 \cmdtxtoparname{SOL}[Sol]
      1574 \cmdtxtoparname{SO}
      1576 % Weak Second-Order Logic
      1577 \DeclareRobustCommand{\WSOL}
           {{\txtname{W}}\SOL}
      1579 \DeclareRobustCommand{\WSO}
          \{\{\text{txtname}\{W\}\}\S0\}
      1580
      1581
      1582 % coWeak Second-Order Logic
      1583 \DeclareRobustCommand{\coWSOL}
           {{\txtname{coW}}\SOL}
      1585 \DeclareRobustCommand{\coWSO}
      1586
           {{\txtname{coW}}\SO}
      1587
      1588 % Monadic Second-Order Logic
      1589 \DeclareRobustCommand{\MSOL}
          {{\txtname{M}}\SOL}
      1591 \DeclareRobustCommand{\MSO}
           {{\txtname{M}}\SO}
      1592
      1594 % Weak Monadic Second-Order Logic
      1595 \DeclareRobustCommand{\WMSOL}
           {{\txtname{W}}\MSOL}
      1597 \DeclareRobustCommand{\WMSO}
           {{\txtname{W}}\MSO}
      1598
      1600 % coWeak Monadic Second-Order Logic
      1601 \verb|\DeclareRobustCommand{\coWMSOL}|
      1602 \quad \{\{\text{txtname}\{\text{coW}\}\}\} \}
```

```
1603 \DeclareRobustCommand{\coWMSO}
            {{\txtname{coW}}\MSO}
        \FVarSet ...
    · · · 1606 \newcommand{\fvarsym}{x}
        1607 \newcommand{\fvarset}{FVr}
        1608 \cmdmthsetext{FVar} [\fvarset] [\fvarsym]
\SVarSet ...
    ··· 1609 \newcommand{\svarsym}{X}
        1610 \newcommand{\svarset}{SVr}
        1611 \cmdmthsetext{SVar}[\svarset][\svarsym]
        \TL ...
    \CL _{1614}\,\% Tree Logic
    \label{eq:pl_1615} $$ \PL $$ 1615 \cmdtxtoparname{TL}$
    ... 1616
        1617 % Weak Tree Logic
        1618 \DeclareRobustCommand{\WTL}
        1619
             {{\txtname{W}}\TL}
        1620
        1621 % coWeak Tree Logic
        1622 \DeclareRobustCommand{\coWTL}
            {{\txtname{coW}}\TL}
        1624
        1625 % Monadic Tree Logic
        1626 \verb|\DeclareRobustCommand{\MTL}|
             {\{\txtname{M}}\txL}
        1627
        1628
        1629 % Weak Monadic Tree Logic
        1630 \DeclareRobustCommand{\WMTL}
             {{\txtname{W}}\MTL}
        1631
        1632
        1633 % coWeak Monadic Tree Logic
        1634 \DeclareRobustCommand{\coWMTL}
        1635
            {{\txtname{coW}}\MTL}
        1636
        1637 % Chain Logic
        1638 \cmdtxtoparname{CL}
        1640 % Weak Chain Logic
        1641 \DeclareRobustCommand{\WCL}
             {{\txtname{W}}\CL}
        1644 % coWeak Chain Logic
        1645 \DeclareRobustCommand{\coWCL}
            {{\txtname{coW}}\CL}
        1646
        1648 % Monadic Chain Logic
        1649 \DeclareRobustCommand{\MCL}
        1650
             {{\txtname{M}}\CL}
        1652 % Weak Monadic Chain Logic
        1653 \DeclareRobustCommand{\WMCL}
        1654
             {{\txtname{W}}\MCL}
```

1656 % coWeak Monadic Chain Logic

```
1657 \DeclareRobustCommand{\coWMCL}
     1658
          {{\txtname{coW}}\MCL}
     1659
     1660 % Path Logic
     1661 \cmdtxtoparname{PL}
     1662
     1663 % Weak Path Logic
     1664 \DeclareRobustCommand{\WPL}
         {\{\text{txtname}\{W\}}\PL\}
     1667 % coWeak Path Logic
     1668 \verb|\DeclareRobustCommand{\coWPL}|
          {{\txtname{coW}}\PL}
     1671 % Monadic Path Logic
     1672 \DeclareRobustCommand{\MPL}
         {\{\text{txtname}\{M\}}\PL\}
     1673
     1675\,\% Weak Monadic Path Logic
     1676 \DeclareRobustCommand{\WMPL}
          {{\txtname{W}}\MPL}
     1679 % coWeak Monadic Path Logic
     1680 \DeclareRobustCommand{\coWMPL}
         {{\txtname{coW}}\MPL}
     \ML ...
 \GML _{1685} % Modal Logic
 · · · 1686 \cmdtxtoparname{ML}
     1688 % Graded Modal Logic
     1689 \DeclareRobustCommand{\GML}
          {\{\text{txtname}\{G\}\}\setminus ML\}}
     1690
     1691
     1692 % Quantified Modal Logic
     1693 \DeclareRobustCommand{\QML}
          {{\txtname{Q}}\ML}
     1695 \DeclareRobustCommand{\EML}
          {\ensuremath{\exists}\ML}
     1697 \DeclareRobustCommand{\UML}
         {\ensuremath{\forall}\ML}
     \Opr ...
     1700 \usrmth{Opr}{}{sym}[Op]
\DMod ...
\label{local_bound} $$\BMod_{1701} \operatorname{Lusrmth}(DMod)_{sym}[\Delta] $$
     1702 \operatorname{Mod}{{\rm BMod}}{{\rm Sym}}[\operatorname{Box}]
\Exs ...
\All _{1703} \DeclareRobustCommand{\Exs}
     1704 {\ifstarvar{\@sexs}{\@exs}}
     1705 \DeclareRobustCommand{\@sexs}[1]
     1706 {\mth{\DMod}[#1]}
```

```
1707 \DeclareRobustCommand{\@exs}[1]
                             {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}\DMod}}}
                 1709 \DeclareRobustCommand{\All}
                 1710 {\ifstarvar{\@sall}{\@all}}
                 1711 \DeclareRobustCommand{\@sall}[1]
                 1712 {\mth{\BMod}[#1]}
                 1713 \DeclareRobustCommand{\@all}[1]
                 1714 \quad {\bf \{\defval{\argmid{\left[}{\#1}{\left[}{\#1}}{\BMod}}\}}
                 \KrpStr ...
         ··· 1716 \newcommand{\krpstr}{K}
                 1717 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
\WrlSet ...
         \cdots 1718 \newcommand{\wrlsym}{w}
                 1719 \mbox{ } \mbox
                 1720 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
                 1721 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel ...
\verb| TrnRel |_{1722} \verb| newcommand{\accsym}{R}|
                 1723 \cmdmthrel{Acc}[\accsym]
                 1724 \cmdmthrel{Trn}[\accsym]
\labFun ...
                  1725 \mbox{ \newcommand{\labsym}{\labsym}{\labsym}}
                 1726 \cmdmthfun{lab}[\labsym]
\PthSet ...
         · · · 1727 \providecommand{\pthsym}{\pi}
                  1728 \providecommand{\pthset}{Pth}
                 1729 \cmdmthsetext{Pth} [\pthset] [\pthsym]
                 1730 \usrmth{path}{}{argfun}
                 \MC ...
      \GMC _{1732}\,\% Mu Calculus
         · · · 1733 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
                 1735 % Graded Mu Calculus
                 1736 \DeclareRobustCommand{\GMC}
                 1737
                             {\{\text{txtname}\{G\}\}\setminus MC\}}
                 1738
                 1739 % Quantified Mu Calculus
                 1740 \DeclareRobustCommand{\QMC}
                 1741 {{\txtname{Q}}\MC}
                 1742 \DeclareRobustCommand{\EMC}
                 1743 {\ensuremath{\exists}\MC}
                 1744 \DeclareRobustCommand{\UMC}
                             {\ensuremath{\forall}\MC}
                 1746
                 1747 % Alternation-Free Mu Calculus
                 1748 \DeclareRobustCommand{\AFMC}
                              {{\txtname{AF}}\MC}
                 1749
                 1750
                 1751 % Alternation-Free Graded Mu Calculus
                 1752 \DeclareRobustCommand{\AFGMC}
                              {{\txtname{AF}}\GMC}
                 1753
                 1754
                 1755 % Quantified Alternation-Free Mu Calculus
                 1756 \DeclareRobustCommand{\QAFMC}
```

```
{\{\text{\txtname}\{Q\}\}\setminus AFMC\}}
   1758 \DeclareRobustCommand{\EAFMC}
   1759 {\ensuremath{\exists}\AFMC}
   1760 \DeclareRobustCommand{\UAFMC}
      {\ensuremath{\forall}\AFMC}
   1762
   \PTL ...
\LTL _{1766} % Propositional Temporal Logic
· · · 1767 \cmdtxtoparname{PTL}
   1768
   1769 % Quantified Propositional Temporal Logic
   1770 \DeclareRobustCommand{\QPTL}
       {{\txtname{Q}}\PTL}
   1772 \DeclareRobustCommand{\EPTL}
       {\ensuremath{\exists}\PTL}
   1774 \DeclareRobustCommand{\UPTL}
       {\ensuremath{\forall}\PTL}
   1777 % Linear Temporal Logic
   1778 \cmdtxtoparname{LTL}
   1780 \% Quantified Linear Temporal Logic
   1781 \DeclareRobustCommand{\QLTL}
   1782 \{\{\text{txtname}\{Q\}\}\}\LTL}
   1783 \DeclareRobustCommand{\ELTL}
   1784 {\ensuremath{\exists}\LTL}
   1785 \DeclareRobustCommand{\ULTL}
   1786 {\ensuremath{\forall}\LTL}
   \X ...
· · · 1788 \usrmth{X}{}{sym}[X\,]
   1789 \usrmth{F}{}{sym}[F\,]
   1790 \usrmth{G}{}{sym}[G\,]
   1791 \usrmth{U}{sym}[\,U\,]
   1792 \usrmth{R}{sym}[\,R\,]
 \Y ...
· · · 1793 \usrmth{Y}{}{sym}[G\,]
   1794 \t \{P\}{}{sym}[P\t,]\t SavePilcrow\t P
   1796 \space{1}{sym}[\,S\,]\
   1797 \usrmth{B}{}{sym}[\,B\,]
   \PDL ...
\CTL 1800 % Propositional Dynamic Logic
... 1801 \cmdtxtoparname{PDL}
   1802
   1803 % Computation Tree Logic
   1804 \cmdtxtoparname{CTL}
```

```
1806 % Weak Computation Tree Logic
    1807 \DeclareRobustCommand{\WCTL}
         {{\txtname{W}}\CTL}
    1808
    1809
    1810 % Quantified Computation Tree Logic
    1811 \DeclareRobustCommand{\QCTL}
         {\{\text{txtname}\{Q\}\}\CTL}
    1813 \DeclareRobustCommand{\ECTL}
         {\ensuremath{\exists}\CTL}
    1815 \DeclareRobustCommand{\UCTL}
         {\ensuremath{\forall}\CTL}
    1817
    1818\;\mbox{\ensuremath{\%}} 
 Improved Computation Tree Logic
    1819 \cmdtxtoparname{CTLP}[CTL$^{+}$]
    1821 % Weak Improved Computation Tree Logic
    1822 \DeclareRobustCommand{\WCTLP}
          {{\txtname{W}}\CTLP}
    1823
    1825 % Quantified Improved Computation Tree Logic
    1826 \DeclareRobustCommand{\QCTLP}
         {{\txtname{Q}}\CTLP}
    1827
    1828 \DeclareRobustCommand{\ECTLP}
         {\ensuremath{\exists}\CTLP}
    1829
    1830 \DeclareRobustCommand{\UCTLP}
         {\ensuremath{\forall}\CTLP}
    1831
    1832
    1833 % Full Computation Tree Logic
    1834 \cmdtxtoparname{CTLS}[CTL*]
    1836 % Weak Full Computation Tree Logic
    1837 \DeclareRobustCommand{\WCTLS}
         {{\txtname{W}}\CTLS}
    1838
    1839
    1840 % Quantified Full Computation Tree Logic
    1841 \DeclareRobustCommand{\QCTLS}
         {\{\text{txtname}\{Q\}\}\}\
    1843 \DeclareRobustCommand{\ECTLS}
         {\ensuremath{\exists}\CTLS}
    1845 \DeclareRobustCommand{\UCTLS}
         {\ensuremath{\forall}\CTLS}
    \E ...
 \A _{1848} \usrmth{E}{sym}
    1849 \usrmth{A}{}{sym}
    \ATL ...
 \cdots 1852 % Alternating Temporal Logic
    1853 \cmdtxtoparname{ATL}
    1854
    1855 % Weak Alternating Tree Logic
    1856 \DeclareRobustCommand{\WATL}
    1857
          {{\txtname{W}}\ATL}
    1859 % Quantified Alternating Temporal Logic
    1860 \DeclareRobustCommand{\QATL}
         {\{\text{txtname}\{Q\}\}\setminus ATL\}}
```

1805

```
1862 \DeclareRobustCommand{\EATL}
            {\ensuremath{\exists}\ATL}
       1864 \DeclareRobustCommand{\UATL}
            {\ensuremath{\forall}\ATL}
       1865
       1866
       1867 % Improved Alternating Temporal Logic
       1868 \cmdtxtoparname{ATLP}[ATL$^{+}$]
       1870 % Weak Improved Alternating Tree Logic
       1871 \DeclareRobustCommand{\WATLP}
             {{\txtname{W}}\ATLP}
       1874 % Quantified Improved Alternating Temporal Logic
       1875 \DeclareRobustCommand{\QATLP}
            {{\txtname{Q}}\ATLP}
       1877 \DeclareRobustCommand{\EATLP}
            {\ensuremath{\exists}\ATLP}
       1879 \DeclareRobustCommand{\UATLP}
       1880
             {\ensuremath{\forall}\ATLP}
       1882 % Full Alternating Temporal Logic
       1883 \cmdtxtoparname{ATLS}[ATL*]
       1884
       1885 % Weak Full Alternating Tree Logic
       1886 \DeclareRobustCommand{\WATLS}
             {{\txtname{W}}\ATLS}
       1888
       1889 % Quantified Full Alternating Temporal Logic
       1890 \DeclareRobustCommand{\QATLS}
            {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
       1892 \DeclareRobustCommand{\EATLS}
            {\ensuremath{\exists}\ATLS}
       1894 \DeclareRobustCommand{\UATLS}
            {\ensuremath{\forall}\ATLS}
       \EExs ...
  \verb|\AAll |_{1897} \verb|\DeclareRobustCommand{\EExs}[1]
            {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
       1899 \DeclareRobustCommand{\AAll}[1]
            {\mth{\argmid{\left[\left[\}{\defval{#1}}{\emptyset}}\right]\right]}}}
       \CGS ...
       1902 \cmdtxtname{CGS}
\CGSStr ...
    · · · 1903 \newcommand{\cgsstr}{G}
       1904 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet ...
   \cdots 1905 \newcommand{\agnsym}{a}
       1906 \newcommand{\agnset}{Ag}
       1907 \cmdmthsetext{Agn}[\agnset][\agnsym]
\ActSet ...
    \cdots 1908 \newcommand{\actsym}{c}
       1909 \newcommand{\actset}{Ac}
       1910 \cmdmthsetext{Act}[\actset][\actsym]
\PosSet ...
   · · · 1911 \providecommand{\possym}{v}
```

```
1912 \providecommand{\posset}{Ps}
          1913 \cmdmthsetext{Pos}[\posset][\possym]
         1914 \cmdmthsymelm{ipos}[\possym_{I}]
         1915 \cmdmthsymelm{fpos}[\possym_{F}]
         1916 \cmdmthset{PPos}[\posset_{\PlrSym}]
         1917 \verb|\cmdmthsymelm{ppos}[\possym_{\PlrSym}]|
          1918 \cmdmthset{OPos}[\posset_{\OppSym}]
         1919 \cmdmthsymelm{opos}[\possym_{\OppSym}]
 \SttSet ...
     \cdots 1920 \texttt{\newcommand{\sttsym}{s}}
         1921 \newcommand{\tt \{\sttset\}\{St\}}
         1922 \cmdmthsetext{Stt}[\sttset][\sttsym]
         1923 \cmdmthset{IStt}[\sttset_{I}]
         1924 \cmdmthsymelm{istt}[\sttsym_{I}]
          1925 \cmdmthset{FStt}[\sttset_{F}]
          1926 \cmdmthsymelm{fstt}[\sttsym_{F}]
 \DecSet ...
     \cdots 1927 \newcommand{\decsym}{d}
         1928 \newcommand{\decset}{Dc}
         1929 \cmdmthsetext{Dec} [\decset] [\decsym]
 \movFun ...
 \verb|\movRel| 1930 \verb|\newcommand{\movsym}{{\tt tau}}|
         1931 \cmdmthfun{mov}[\movsym]
         1932 \cmdmthrel{mov}[\movsym]
 \trnFun ...
 \verb|\trnRel| 1933 \verb|\newcommand{\trnsym}{\delta}|
          1934 \cmdmthfun{trn}[\trnsym]
         1935 \cmdmthrel{trn}[\trnsym]
 \PrfSet ...
          1936 \providecommand{\prfsym}{\xi}
          1937 \providecommand{\prfset}{Prf}
         1938 \cmdmthsetext{Prf}[\prfset][\prfsym]
 \HstSet ...
     ··· 1939 \providecommand{\hstsym}{\varpi}
          1940 \providecommand{\hstset}{Hst}
          1941 \cmdmthsetext{Hst}[\hstset][\hstsym]
          1942 \cmdmthset{PHst}[\hstset_{\PlrSym}]
          1943 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
          1944 \cmdmthset{OHst}[\hstset_{\OppSym}]
         1945 \cmdmthsymelm{ohst}[\hstsym_{\cmlose}]
         1946 \usrmth{hst}{}{argfun}
\PlaySet ...
     ··· 1947 \providecommand{\playsym}{\pi}
          1948 \providecommand{\playset}{Play}
          1949 \cmdmthsetext{Play}[\playset][\playsym]
         1950 \usrmth{play}{}{argfun}
 \PlnSet ...
     ··· 1951 \providecommand{\plnsym}{\rho}
          1952 \providecommand{\plnset}{Pln}
          1953 \cmdmthsetext{Pln}[\plnset][\plnsym]
          1954 \cmdmthset{PPln}[\plnset_{\PlrSym}]
          1955 \cmdmthsymelm{pPln}[\plnsym_{\PlrSym}]
          1956 \cmdmthset{OPln}[\plnset_{\OppSym}]
          1957 \cmdmthsymelm{oPln}[\plnsym_{\OppSym}]
```

```
\StrSet ...
    ··· 1958 \providecommand{\strsym}{\sigma}
       1959 \providecommand{\strset}{Str}
       1960 \cmdmthsetext{Str}[\strset][\strsym]
       1961 \cmdmthset{PStr}[\strset_{\PlrSym}]
       1962 \verb|\cmdmthsymelm{pstr}[\strsym_{\prox m}]|
       1963 \cmdmthset{OStr}[\strset_{\OppSym}]
       1964 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]
       \PL ...
    · · · 1966 % Plan Logic
       1967 \cmdtxtoparname{PL}
       1968
       1969 \DeclareRobustCommand{\EPL}
             {\ensuremath{\exists}\PL}
       1971 \DeclareRobustCommand{\UPL}
       1972
             {\ensuremath{\forall}\PL}
       1973
       1974 \DeclareRobustCommand{\FPL}
             {\{\text{txtname}\{F\}}\PL\}
       1975
       1976
       1977 \DeclareRobustCommand{\EFPL}
             {\ensuremath{\exists}\FPL}
       1979 \DeclareRobustCommand{\UFPL}
             {\ensuremath{\forall}\FPL}
       1980
       1982 % One-Goal Plan Logic
       1983 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
             {\PL[#1][#2][1g\arglef{,}{#3}]}
       1984
       1985
       1986 \verb|\DeclareRobustCommand{\EOGPL}|
             {\ensuremath{\exists}\OGPL}
       1988 \DeclareRobustCommand{\UOGPL}
             {\ensuremath{\forall}\OGPL}
       1989
       1991 \DeclareRobustCommand{\FOGPL}
       1992
             {{\txtname{F}}\OGPL}
       1994 \DeclareRobustCommand{\EFOGPL}
             {\ensuremath{\exists}\FOGPL}
       1996 \DeclareRobustCommand{\UFOGPL}
             {\ensuremath{\forall}\FOGPL}
       1997
       1998
       1999 % Conjunctive-Goal Plan Logic
       2000 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
             {\PL[#1][#2][cg\arglef{,}{#3}]}
       2002
       2003 \DeclareRobustCommand{\ECGPL}
             {\ensuremath{\exists}\CGPL}
       2005 \DeclareRobustCommand{\UCGPL}
       2006
             {\ensuremath{\forall}\CGPL}
       2007
       2008 \DeclareRobustCommand{\FCGPL}
             {{\txtname{F}}\CGPL}
       2009
       2010
       2011 \DeclareRobustCommand{\EFCGPL}
             {\ensuremath{\exists}\FCGPL}
       2013 \DeclareRobustCommand{\UFCGPL}
       2014
             {\ensuremath{\forall}\FCGPL}
       2015
       2016 % Disjunctive-Goal Plan Logic
```

2017 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]

```
2018
      {\PL[#1][#2][dg\arglef{,}{#3}]}
2019
2020 \DeclareRobustCommand{\EDGPL}
2021
      {\ensuremath{\exists}\DGPL}
2022 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
2023
2024
2025 \DeclareRobustCommand{\FDGPL}
2026
      {{\txtname{F}}\DGPL}
2028 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
2030 \DeclareRobustCommand{\UFDGPL}
      {\ensuremath{\forall}\FDGPL}
2031
2032
2033 % Alternating-Goal Plan Logic
2034 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][ag\arglef{,}{#3}]}
2036
2037 \DeclareRobustCommand{\EAGPL}
      {\ensuremath{\exists}\AGPL}
2039 \DeclareRobustCommand{\UAGPL}
2040
      {\ensuremath{\forall}\AGPL}
2041
2042 \DeclareRobustCommand{\FAGPL}
      {\{\text{txtname}\{F\}\}\setminus AGPL}
2043
2044
2045 \DeclareRobustCommand{\EFAGPL}
     {\ensuremath{\exists}\FAGPL}
2047 \DeclareRobustCommand{\UFAGPL}
      {\ensuremath{\forall}\FAGPL}
2048
2050 % Extended-Goal Plan Logic
2051 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
2052
      {\PL[#1][#2][eg\arglef{,}{#3}]}
2053
2054 \DeclareRobustCommand{\EEGPL}
      {\ensuremath{\exists}\EGPL}
2056 \DeclareRobustCommand{\UEGPL}
      {\ensuremath{\forall}\EGPL}
2059 \DeclareRobustCommand{\FEGPL}
2060
      {\{\text{txtname}\{F\}\}\setminus EGPL\}}
2062 \DeclareRobustCommand{\EFEGPL}
     {\ensuremath{\exists}\FEGPL}
2064 \DeclareRobustCommand{\UFEGPL}
      {\ensuremath{\forall}\FEGPL}
2065
2067 % Boolean-Goal Plan Logic
2068 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][bg\arglef{,}{#3}]}
2070
2071 \DeclareRobustCommand{\EBGPL}
      {\ensuremath{\exists}\BGPL}
2073 \DeclareRobustCommand{\UBGPL}
2074
      {\ensuremath{\forall}\BGPL}
2075
2076 \DeclareRobustCommand{\FBGPL}
      {\{\texttxtname}_{F}\}\BGPL}
2077
2078
2079 \DeclareRobustCommand{\EFBGPL}
      {\ensuremath{\exists}\FBGPL}
```

```
2081 \DeclareRobustCommand{\UFBGPL}
    2082
          {\ensuremath{\forall}\FBGPL}
    2083
    2084 \% Undefined-Goal Plan Logic
    2085 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
          {\PL[#1][#2][xg\arglef{,}{#3}]}
    2086
    2087
    2088 \DeclareRobustCommand{\EXGPL}
         {\ensuremath{\exists}\XGPL}
    2090 \DeclareRobustCommand{\UXGPL}
          {\ensuremath{\forall}\XGPL}
    2092
    2093 \DeclareRobustCommand{\FXGPL}
         {\{\text{txtname}\{F\}\}\setminus XGPL\}}
    2094
    2095
    2096 \DeclareRobustCommand{\EFXGPL}
         {\ensuremath{\exists}\FXGPL}
    2098 \DeclareRobustCommand{\UFXGPL}
         {\ensuremath{\forall}\FXGPL}
\SL ...
\cdots 2100 % Strategy Logic
    2101 \cmdtxtoparname{SL}
    2102
    2103 \DeclareRobustCommand{\ESL}
         {\ensuremath{\exists}\SL}
    2104
    2105 \DeclareRobustCommand{\USL}
         {\ensuremath{\forall}\SL}
    2107
    2108 \DeclareRobustCommand{\FSL}
          {\{\text{txtname}\{F\}\}\SL\}}
    2109
    2110
    2111 \DeclareRobustCommand{\EFSL}
         {\ensuremath{\exists}\FSL}
    2113 \DeclareRobustCommand{\UFSL}
         {\ensuremath{\forall}\FSL}
    2114
    2115
    2116 % One-Goal Strategy Logic
    2117 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
          {\SL[#1][#2][1g\arglef{,}{#3}]}
    2119
    2120 \DeclareRobustCommand{\EOGSL}
         {\ensuremath{\exists}\OGSL}
    2122 \DeclareRobustCommand{\UOGSL}
         {\ensuremath{\forall}\OGSL}
    2123
    2124
    2125 \DeclareRobustCommand{\FOGSL}
         {\{\text{txtname}\{F\}\}\setminus GGSL}
    2126
    2127
    2128 \DeclareRobustCommand{\EFOGSL}
    2129 {\ensuremath{\exists}\FOGSL}
    2130 \DeclareRobustCommand{\UFOGSL}
          {\ensuremath{\forall}\FOGSL}
    2132
    2133 % Conjunctive-Goal Strategy Logic
    2134 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
          {\SL[#1][#2][cg\arglef{,}{#3}]}
    2135
    2136
    2137 \DeclareRobustCommand{\ECGSL}
          {\ensuremath{\exists}\CGSL}
    2139 \DeclareRobustCommand{\UCGSL}
          {\ensuremath{\forall}\CGSL}
    2142 \DeclareRobustCommand{\FCGSL}
```

```
2143
      {{\txtname{F}}\CGSL}
2144
2145 \DeclareRobustCommand{\EFCGSL}
2146
     {\ensuremath{\exists}\FCGSL}
2147 \DeclareRobustCommand{\UFCGSL}
     {\ensuremath{\forall}\FCGSL}
2148
2149
2150 % Disjunctive-Goal Strategy Logic
2151 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2153
2154 \DeclareRobustCommand{\EDGSL}
     {\ensuremath{\exists}\DGSL}
2156 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
2157
2158
2159 \DeclareRobustCommand{\FDGSL}
     {{\txtname{F}}\DGSL}
2160
2161
2162 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
2164 \DeclareRobustCommand{\UFDGSL}
2165
      {\ensuremath{\forall}\FDGSL}
2166
2167 % Alternating-Goal Strategy Logic
2168 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
2169
      {\SL[#1][#2][ag\arglef{,}{#3}]}
2170
2171 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
2173 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
2175
2176 \DeclareRobustCommand{\FAGSL}
      {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2177
2178
2179 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
2181 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
2182
2184 % Extended-Goal Strategy Logic
2185 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][eg\arglef{,}{#3}]}
2187
2188 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
2190 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
2191
2192
2193 \DeclareRobustCommand{\FEGSL}
      {{\txtname{F}}\EGSL}
2196 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
2198 \DeclareRobustCommand{\UFEGSL}
2199
      {\ensuremath{\forall}\FEGSL}
2200
2201 % Boolean-Goal Strategy Logic
2202 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][bg\arglef{,}{#3}]}
2203
2204
2205 \DeclareRobustCommand{\EBGSL}
```

```
{\ensuremath{\exists}\BGSL}
       2207 \DeclareRobustCommand{\UBGSL}
      2208
           {\ensuremath{\forall}\BGSL}
      2209
      2210 \DeclareRobustCommand{\FBGSL}
           {\{\text{txtname}\{F\}\}\setminus BGSL\}}
      2211
      2212
      2213 \DeclareRobustCommand{\EFBGSL}
      2214 {\ensuremath{\exists}\FBGSL}
      2215 \DeclareRobustCommand{\UFBGSL}
           {\ensuremath{\forall}\FBGSL}
      2218 % Nested-Goal Strategy Logic
      2219 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
            {\SL[#1][#2][ng\arglef{,}{#3}]}
      2221
      2222 \DeclareRobustCommand{\ENGSL}
            {\ensuremath{\exists}\NGSL}
      2223
       2224 \DeclareRobustCommand{\UNGSL}
            {\ensuremath{\forall}\NGSL}
       2226
       2227 \DeclareRobustCommand{\FNGSL}
      2228
            {{\txtname{F}}\NGSL}
      2229
      2230 \DeclareRobustCommand{\EFNGSL}
            {\ensuremath{\exists}\FNGSL}
      2231
      2232 \verb|\DeclareRobustCommand{\UFNGSL}|
           {\ensuremath{\forall}\FNGSL}
      2234
      2235 % Undefined-Goal Strategy Logic
      2236 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
            {\SL[#1][#2][xg\arglef{,}{#3}]}
      2238
      2239 \DeclareRobustCommand{\EXGSL}
      2240 {\ensuremath{\exists}\XGSL}
      2241 \DeclareRobustCommand{\UXGSL}
           {\ensuremath{\forall}\XGSL}
      2242
      2244 \DeclareRobustCommand{\FXGSL}
            {{\txtname{F}}\XGSL}
      2246
       2247 \DeclareRobustCommand{\EFXGSL}
       2248 {\ensuremath{\exists}\FXGSL}
       2249 \DeclareRobustCommand{\UFXGSL}
           {\ensuremath{\forall}\FXGSL}
      \BndSet ...
   · · · 2252 \newcommand{\bndsym}{\flat}
      2253 \newcommand{\bndset}{Bn}
      2254 \cmdmthsetext{Bnd} [\bndset] [\bndsym]
      2255 \cmdmthsymelm{idbnd}[\bndsym_{\text{id}}]
      2256 \usrmth{bnd}{}{argfun}
  \psn ...
      2257 \usrmth{psn}{}{argfun}
       \nxt ...
       2259 \operatorname{nxth{nxt}{}}{argfun}
```

```
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                              \DFA ...
                 \cdots \ 2267 \verb|\cmdtxtoparname{DFA}\cmdtxtoparname{NFA}\cmdtxtoparname{UFA}\cmdtxtoparname{AFA} \\
                              2269 \verb|\cmdtxtoparname{NWA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}| \\
                              2271 \cmdtxtoparname{DFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}
                              2272 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}
                              2273 \cmdtxtoparname{DBW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
                              2274 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{UCW}\cmdtxtoparname{ACW}|
                              2275 \verb|\cmdtxtoparname{NPW}| cmdtxtoparname{MPW}| cmdtxtoparname{MPW}|
                              2276 \verb|\cmdtxtoparname{NRW}| cmdtxtoparname{URW}| cmdtxtoparname{ARW}| cmdtxtoparname{ARW}|
                              2277 \verb|\cmdtxtoparname{NSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}| 
                              2278 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{MW}| cmdtxtoparname{AMW}| cm
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                              2283
                              2284 \cmdtxtoparname{LD}
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                              2288 \usrmthlatupp{Aut}{Name}{name}[\autname]
                              2289 \newcommand{\autset}{Aut}
                              2290 \cmdmthset{Aut}[\autset]
\WAutSet ...
                              2291 \newcommand{\wautset}{WAut}
                              2292 \cmdmthset{WAut}[\wautset]
   \SymSet ...
                · · · 2293 \newcommand{\symsym}{\sigma}
                              2294 \newcommand{\symset}{\Sigma}
                              2295 \cmdmthsetext{Sym}[\symset][\symsym]
   \SttSet ...
                 ··· 2296 \providecommand{\sttsym}{q}
                              2297 \providecommand{\sttset}{Q}
                              2298 \cmdmthsetext{Stt}[\sttset][\sttsym]
                              2299 \mbox{cmdmthset{IStt}[\sttset_{I}]}
                              2300 \cmdmthsymelm{istt}[\sttsym_{I}]
                              2301 \cmdmthset{FStt}[\sttset_{F}]
                              2302 \cmdmthsymelm{fstt}[\sttsym_{F}]
   \trnFun ...
   \trnRel 2303 \providecommand{\trnsym}{\delta}
                              2304 \cmdmthfun{trn}[\trnsym]
                              2305 \cmdmthrel{trn}[\trnsym]
```

```
\WrdSet ...
           ··· 2307 \newcommand{\wrdsym}{w}
                    2308 \mbox{ \newcommand{\wrdset}{Wr}}
                   2309 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
       \Lang ...
                   2310 \usrmth{Lang}{}{argfun}[L]
                    \DTA ...
            \cdots \ 2312 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{MTA}\cmdtxtoparname{ATA} 
                    2314 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                    2315 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}
                    2316 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                    2317 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{QCT}| cmdtxtoparname{ACT}| 
                    2318 \cmdtxtoparname{DPT}\cmdtxtoparname{UPT}\cmdtxtoparname{APT}
                    2319 \verb|\cmdtxtoparname{NRT}| cmdtxtoparname{URT}| cmdtxtoparname{ART}| cmdtxtoparname{ART}|
                    2320 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| \\
                    2321 \verb|\cmdtxtoparname{NMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
                    \TAutSet ...
                    2323 \newcommand{\tautset}{TAut}
                    2324 \cmdmthset{TAut}[\tautset]
  \DirSet ...
           · · · 2325 \newcommand{\dirsym}{d}
                    2326 \mbox{\label{lambda}} \
                    2327 \cmdmthsetext{Dir}[\dirset][\dirsym]
                    \TreeSet ...
            ··· 2329 \newcommand{\treesym}{T}
                    2330 \newcommand{\treeset}{Tr}
                    2331 \cmdmthsetext{Tree} [\treeset] [\treesym]
         \wot. ...
                   2332 \usrmth{wot}{}{argfun}
                    2333 \fi
                    2338 \iffrm@
                   2339 \RequirePackage{multicol}
                   2340 %%...
                   2341 \fi
                    2346 \iffig@
                    2347 \RequirePackage{tikz}
                    2348 \usetikzlibrary{calc,arrows,shapes,patterns,graphs,matrix}
```

```
2350 [draw = none, fill = none, black, thin]
      2351 \tikzstyle{every edge} +=
      2352 [black, thick]
      2353 \tikzstyle{noall} =
      2354 [draw = none, fill = none]
      2355 \tikzstyle{nodraw} =
      2356 [draw = none, fill = white]
      2357 \tikzstyle{nofill} =
      2358 [draw = black, fill = none]
      2359 \ifwrpfig@
      2360 % Wrapfig Package
          \RequirePackage{wrapfig}
      2361
      2362 \fi
      2363 \fi
      2368 \iftab@
    2369 %%...
      2370 \fi
      2375 \ifalg@
      2376 \RequirePackage[ruled,vlined]{algorithm2e}
      2377 \DontPrintSemicolon
      2378 \SetInd{0.25em}{0.5em}
      2379 \setlength{\algomargin}{1.25em}
\Signature ...
      2380 \SetKw{Signature}{signature}
  \Macro ...
\Function _{2381} \SetKwFor{Macro}{macro}{}
\Procedure 2382 \SetKwFor{Function}{function}{}}
      2383 \SetKwFor{Procedure}{procedure}{}{
   \Let ...
      2384 \For{Let}{let}{in}{}
   \True ...
  \False _{2385} \SetKw{True}{true}
      2386 \SetKw{False}{false}
   \From ...
    \To 2387 \SetKw{From}{from}
 \DownTo 2388 \SetKw{To}{to}
      2389 \SetKw{DownTo}{downto}
   \GoTo ...
  \Break 2390 \SetKw{GoTo}{goto}
\Continue 2391 \SetKw{Break}{break}
      2392 \SetKw{Continue}{continue}
```

2349 \tikzstyle{every node} =

```
\Guess ...
\verb|\ExsGuess|| 2393 \end{|} SetKw{Guess}{guess}
\AllGuess 2394 \SetKw{ExsGuess}{$\exists$-guess}
       2395 \SetKw{AllGuess}{$\forall$-guess}
\MElse
   \nlr ...
       2397 \newrobustcmd{\ln r}[1]
           {\addtocounter{AlgoLine}{1}%
       2398
           \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
       2399
       2400 \fi
       2402 \setminus endinput
       2403 \langle /package \rangle
```

2 Change History

v0.0	v0.23
General: First public release 1	General: New 'Graphs' section and small
v0.1	improvements
General: Algorithm tricks 1	v0.24
v0.10	General: Correction of fragile macros 1
General: Small refinements 1	v0.25
v0.11	General: Few additions and corrections 1
General: Few additions and corrections 1	v0.26
v0.12	General: Few additions
General: New starred variants 1	v0.27
v0.13	General: Small addition to 'Algorithm tricks' 1
General: Further starred variants 1	v0.28
v0.14	General: Few additions
General: Few additions and corrections 1	General: Correction of fragile macros 1
v0.15	v0.3
General: Refactoring of dtx sources 1	General: Few problems solved 1
v0.16	v0.30
General: Small refinements and few additions 1	General: Improvements and new command
v0.17	variants 1
General: Few additions	v0.4
v0.18	General: Refactoring, corrections, and
General: Few new starred variants 1	extensions 1
v0.19	v0.5
General: Additional starred variants 1	General: Figure tricks 1
v0.2	v0.6
General: Changes in 'Auxiliary tricks' 1	General: Small refinements
v0.20	v0.7
General: New binary operators	General: Refinements, corrections, and
v0.21	extensions 1
General: Refactoring of function macros 1	v0.8
v0.22	General: Few refinements and corrections 1 v0.9
	General: Small addition to 'Algorithm tricks' 1
General: Few additions	General Sinan addition to Algorithm tricks

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\interdisplaylinepenalty 226	\log@false 56, 62, 93, 95	
		999, 1006, 1007, 1008,
\itr 183, 184, 185, 187, 188, 189	\log@true 94	1009, 1016, 1017, 1018,
	\LogSig	1019, 1026, 1027, 1028,
K	\logsig 1436, 1437	1029, 1038, 1040, 1048,
\kern 1099	\LogSpace(E/H/C) <u>1249</u>	
		1050, 1056, 1058, 1062,
\KrpStr <u>1716</u>	\LogStr <u>1480</u>	1064, 1068, 1077, 1093,
\krpstr 1716, 1717	\logstr 1480, 1481	1151, 1153, 1155, 1157,
	\LogTime(E/H/C) <u>1248</u>	1159, 1164, 1166, 1170,
\mathbf{L}	\lor 1448	
		1172, 1176, 1178, 1182,
\LAA11 <u>1566</u>	\lowercase 688, 690	1184, 1201, 1205, 1207,
\laallsym 1568, 1569	\lst <u>1208</u>	1260, 1261, 1262, 1263,
\labFun <u>1725</u>	\LTL 1766	1264, 1265, 1706, 1708,
\labsym 1725, 1726		
•	\lVert 1170, 1172	1712, 1714, 1898, 1900
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\Lambda 2326	, , , ,	
\lambda 1725	${f M}$	\mtharg <u>484</u>
		\mthargcls <u>629</u>
\land 1446	\Macro <u>2381</u>	\mthargelm 733
\Lang <u>2310</u>	\mathaccent 962	\mthargfam 615
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	\mathbin	$\label{eq:mathargfun} $$ \frac{705}{1072}, 1072, 1074 \\ \mbox{ mthargmat } \underline{808} $$$
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1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659	$\label{eq:mathargfun} $$ \frac{705}{1072}, 1072, 1074 \\ \mbox{ mthargmat } \underline{808} $$$
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1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766	\mthargfun
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargsym 719
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathrzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargstr 657 \mthargsym 719 \mthargvec 822 \mthcls 629
1018, 1019, 1708, 1898 \LaTex . 764, 773 \lbrace . 1038, 1040, 1048, 1050 \lceil . 1182, 1184 \lcm . 1197 \LCoi 1450 \lcoimp . 917 \lcoisym 1452, 1453 \LCon . 1446 \lconsym 1446, 1447 \LDis . 1446	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673 \mathscr 301, 617	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargsym 719 \mthargvec 822
1018, 1019, 1708, 1898 \LaTex 764, 773 \lbrace 1038, 1040, 1048, 1050 \lceil 1182, 1184 \lcm 1197 \LCoi 1450 \lcoimp 917 \lcoisym 1452, 1453 \LCon 1446, \lcoisym 1446, 1447 \LDis 1446, \ldissym 1448, 1449	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673 \mathscr 301, 617 \mathsf 707, 781, 810	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargstr 657 \mthargsym 719 \mthargvec 822 \mthcls 629 \mthelm 733
1018, 1019, 1708, 1898 \LaTex 764, 773 \lbrace 1038, 1040, 1048, 1050 \lceil 1182, 1184 \lcm 1497 \LCoi 1450 \lcoimp 917 \lcoisym 1452, 1453 \LCon 1446, 1447 \LDis 1446, 1447 \LDis 1448, 1449 \LEExs 1566	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673 \mathscr 301, 617 \mathsf 707, 781, 810 \mathtt 721	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargsym 719 \mthargvec 822 \mthcls 629 \mthelm 733 \mthfam 615
1018, 1019, 1708, 1898 \LaTex 764, 773 \lbrace 1038, 1040, 1048, 1050 \lceil 1182, 1184 \lcm 1197 \LCoi 1450 \lcoimp 917 \lcoisym 1452, 1453 \LCon 1446, \lcoisym 1446, 1447 \LDis 1446, \ldissym 1448, 1449	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673 \mathscr 301, 617 \mathsf 707, 781, 810	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargstr 657 \mthargsym 719 \mthargvec 822 \mthcls 629 \mthfam 615 \mthfrm 793
1018, 1019, 1708, 1898 \LaTex 764, 773 \lbrace 1038, 1040, 1048, 1050 \lceil 1182, 1184 \lcm 1497 \LCoi 1450 \lcoimp 917 \lcoisym 1452, 1453 \LCon 1446, 1447 \LDis 1446, 1447 \LDis 1448, 1449 \LEExs 1566	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673 \mathscr 301, 617 \mathsf 707, 781, 810 \mathtt 721	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargstr 657 \mthargsym 719 \mthargvec 822 \mthcls 629 \mthfam 615 \mthfrm 793 \mthfun 705
1018, 1019, 1708, 1898 \LaTex 764, 773 \lbrace 1038, 1040, 1048, 1050 \lceil 1182, 1184 \lcm 1197 \LCoi 1450 \lcoimp 917 \lcoisym 1452, 1453 \LCon 1446 \lconsym 1446, 1447 \LDis 1446 \ldissym 1448, 1449 \LEExs 1566, 1567 \left 434, 458, 947, 976, 978,	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathrm 673 \mathscr 301, 617 \mathsf 707, 781, 810 \mathtt 721 \max 1191 \maxSym 1409	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargstr 657 \mthargsym 719 \mthargvec 822 \mthcls 629 \mthfam 615 \mthfrm 793
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 673 \mathscr 301, 617 \mathsf 707, 781, 810 \mathtt 721 \max 1191 \MaxSym 1409 \maxsym 1409, 1410	\mthargfun 705, 1072, 1074 \mthargmat 808 \mthargname 601 \mthargrel 691 \mthargset 671, 674 \mthargsig 643 \mthargsnt 779 \mthargstr 657 \mthargsym 719 \mthargvec 822 \mthcls 629 \mthfam 615 \mthfrm 793 \mthfun 705 \mthgen@false 59, 62
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1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 707, 781, 810 \mathst 707, 781, 810 \mathtt 721 \max 1191 \maxSym 1409, 1410 \MC 1732 \MCL 1649, 1654, 1658	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{601} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsit \frac{779}{779} \mthargstr \frac{657}{657} \mthargsym \frac{719}{119} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthfam \frac{615}{615} \mthfam \frac{615}{705} \mthfun \frac{793}{705} \mthgen@false \frac{59}{59}, 62 \mthgen@true \frac{60}{72}, 84, 89, 94, 99
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1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 707, 81, 810 \mathsf 707, 781, 810 \mathtt 721 \max 1191 \maxSym 1409 \maxsym 1409 \maxsym 1409 \mclear 1649, 1654, 1658 \mdseries 380, 571, 584 \melse 2396 \melseIf 2396	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{601} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{657}{799} \mthargstr \frac{657}{719} \mthargsym \frac{719}{719} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{793} \mthfam \frac{615}{705} \mthfun \frac{793}{705} \mthgen@false \frac{59}{59}, 62 \mthgen@true \frac{60}{72}, 84, 89, 94, 99 \mthlbop \frac{764}{764}, 912, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090 \mthlrel \frac{601}{600}
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1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathring 707 \mathsf 707, 781, 810 \mathtt 721 \max 1191 \max 1409 \maxsym 1409, 1410 \MC 1732 \mCL 1649, 1654, 1658 \maskeries 380, 571, 584 \mElse 2396 \mElseIf 2396 \mFOL 1496 \mFOL 1494 \middle 1038	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{691} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{643}{657} \mthargstr \frac{657}{719} \mthargstr \frac{657}{19} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{733} \mthfam \frac{615}{615} \mthfrm \frac{793}{793} \mthfun \frac{705}{705} \mthgen@false \frac{59}{62} \mthgen@true \frac{60}{72}, 84, 89, 94, 99 \mthlbop \frac{764}{912}, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090 \mthlrel \frac{773}{393}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942 \mthluop \frac{764}{764}
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathrid 773 \mathsf 707, 781, 810 \mathtt 721 \max 1191 \max 1191 \max 1409 \max 1409 \max 1409 \max 1409 \max 1409 \max 1409 \max 1649, 1654, 1658 \max 380, 571, 584 \mathrel 2396 \mathrel 2396 \mathrel 1494 \mathrel 1038 \mathrel 1038	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{691} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{643}{657} \mthargstr \frac{657}{779} \mthargstr \frac{657}{199} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{733} \mthfam \frac{615}{615} \mthfrm \frac{793}{793} \mthfun \frac{795}{795} \mthgen@false \frac{59}{5962} \mthgen@true \frac{60}{72}, 84, 89, 94, 99 \mthlbop \frac{764}{764}, 912, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090 \mthlrel \frac{773}{793}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942 \mthluop \frac{764}{764} \mthmat \frac{808}{808}
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathrid 773 \mathrid 773 \mathrid 707, 781, 810 \mathrid 721 \max 1191 \max 1191 \max 1409 \max 1649, 1654, 1658 \max 380, 571, 584 \max 2396 \max 2396 \max	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{691} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{43} \mthargsit \frac{657}{779} \mthargstr \frac{657}{657} \mthargsym \frac{719}{719} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{733} \mthfam \frac{615}{615} \mthfrm \frac{793}{793} \mthfun \frac{795}{795} \mthgen@false \frac{59}{62} \mthgen@false \frac{59}{62} \mthlbop \frac{764}{764}, 912, 913, 915, \frac{918}{920}, 1086, 1088, 1090 \mthlrel \frac{773}{793}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942 \mthluop \frac{764}{1912} \mthmat \frac{808}{1912} \mthname \frac{601}{601}
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathrid 773 \mathsf 707, 781, 810 \mathtt 721 \max 1191 \max 1191 \max 1409 \max 1409 \max 1409 \max 1409 \max 1409 \max 1409 \max 1649, 1654, 1658 \max 380, 571, 584 \mathrel 2396 \mathrel 2396 \mathrel 1494 \mathrel 1038 \mathrel 1038	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{691} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{643}{657} \mthargstr \frac{657}{779} \mthargstr \frac{657}{199} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{733} \mthfam \frac{615}{615} \mthfrm \frac{793}{793} \mthfun \frac{795}{795} \mthgen@false \frac{59}{5962} \mthgen@true \frac{60}{72}, 84, 89, 94, 99 \mthlbop \frac{764}{764}, 912, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090 \mthlrel \frac{773}{793}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942 \mthluop \frac{764}{764} \mthmat \frac{808}{808}
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1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \mathcal 603 \mathcal 659 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 973 \mathring 973 <	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{601} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{643}{657} \mthargstr \frac{657}{657} \mthargsym \frac{719}{719} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{793} \mthfun \frac{705}{705} \mthfun \frac{705}{705} \mthgen@false \frac{59}{59}, 62 \mthgen@false \frac{59}{59}, 62 \mthlbop \frac{764}{764}, 912, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090 \mthlrel \frac{773}{793}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942 \mthluop \frac{764}{401} \mthmat \frac{808}{486} \mthopar \frac{490}{490}
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathrid 773 \mathrid 707, 781, 810 \mathrid 721 \max 191 \max 191 \max 1491 \max 1409	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{601} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{643}{657} \mthargstr \frac{657}{657} \mthargsym \frac{719}{19} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{793} \mthfam \frac{615}{705} \mthfun \frac{705}{705} \mthgen@false \frac{59}{5962} \mthgen@false \frac{59}{5962} \mthlbop \frac{764}{4}, 912, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090} \mthlrel \frac{773}{773}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942} \mthluop \frac{764}{100} \mthmat \frac{808}{808} \mthname \frac{601}{486} \mthopar \frac{490}{488} \mthopar \frac{488}{488}
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 936 \mathring 936 \mathring 936 \mathring 936 \mathring 936 \mathring 1494 \mathring 1494 \mathring 1494 \mathring 1409 \mathring 1409 <	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{601} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{645}{657} \mthargstr \frac{657}{19} \mthargsym \frac{719}{19} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{793} \mthfam \frac{615}{705} \mthfun \frac{705}{705} \mthgen@false \frac{59}{59}, 62 \mthgen@true \frac{60}{72}, 84, 89, 94, 99 \mthlbop \frac{764}{764}, 912, 913, 915, 918, 920, 1086, 1088, 1090 \mthlrel \frac{773}{773}, 923, 925, 927, 929, 931, 933, 936, 938, 940, 942 \mthluop \frac{764}{192} \mthluop \frac{764}{192} \mthluop \frac{764}{192} \mthname \frac{601}{192} \mthoarg \frac{488}{1929} \mthparcls \frac{629}{1929} \mthparcls \frac{629}{1929} \mthparcls \frac{629}{1929} \mthloarg \frac{488}{1929} \mthparcls \frac{629}{1929} \mthparcls \frac{629}{1929} \mthloarg \frac{488}{1929} \mthparcls \frac{629}{1929} \mthloarg \frac{488}{1929} \mthparcls \frac{629}{1929} \mthloarg \frac{488}{1929} \mthloarg \frac{489}{1929} \mthloarg 49
1018, 1019, 1708, 1898 \LaTex	\mathbin 768 \mathcal 603 \mathcal 603 \matheus 299, 631 \mathfrak 659 \mathit 693, 795, 824 \mathnormal 735 \mathop 766 \mathpzc 300, 645 \mathrel 775, 1098 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathring 954 \mathrid 773 \mathrid 707, 781, 810 \mathrid 721 \max 191 \max 191 \max 1491 \max 1409	\mthargfun \frac{705}{1072}, 1074 \mthargmat \frac{808}{808} \mthargname \frac{601}{601} \mthargrel \frac{691}{674} \mthargset \frac{671}{674} \mthargsig \frac{643}{643} \mthargsig \frac{643}{657} \mthargstr \frac{657}{657} \mthargsym \frac{719}{19} \mthargvec \frac{822}{822} \mthcls \frac{629}{629} \mthelm \frac{733}{793} \mthfam \frac{615}{705} \mthfun \frac{705}{705} \mthgen@false \frac{59}{5962} \mthgen@false \frac{59}{5962} \mthlbop \frac{764}{4}, 912, 913, 915, \frac{918}{918}, 920, 1086, 1088, 1090} \mthlrel \frac{773}{773}, 923, 925, 927, 929, \frac{931}{931}, 933, 936, 938, 940, 942} \mthluop \frac{764}{100} \mthmat \frac{808}{808} \mthname \frac{601}{486} \mthopar \frac{490}{488} \mthopar \frac{488}{488}

\mthparfam <u>615</u>	\newmthsty 425 , 483 , 497	1918, 1919, 1944, 1945,
\mthparfrm 793	\newrobustcmd 152, 154, 157,	1956, 1957, 1963, 1964
\mthparfun 705	159, 161, 163, 166, 168,	\oppsym 1316, 1317
\mthparmat 808	170, 173, 182, 186, 191,	\0pr \1700
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\mthparname 601	193, 195, 198, 202, 206,	\out
\mthparrel <u>691</u>	209, 211, 213, 842, 2397	\overline 952, 964
\mthparset <u>671</u> , <u>674</u>	\newtxt <u>306</u> ,	
\mthparsig <u>643</u>	315, 317, 321, 323, 345, 347	P
\mthparsnt 779	\newtxtarg <u>318</u> , 327, 329, 333, 335	\P 1794
\mthparstr 657		\PackageWarning 131
	\newtxtargsty 324, 372, 390, 391	\PDL 1800
\mthparsym <u>719</u>	\newtxtoarg $\underline{330}$, $\underline{339}$, $\underline{341}$	
\mthparvec <u>822</u>	\newtxtoargsty $336, 374, 395, 396$	\Percontra <u>879</u>
\mthrel <u>691</u>	\newtxtopar $354, 363, 365$	\percontra <u>862</u>
\mthset 671, 1114, 1116, 1118,	\newtxtoparsty $360, 378, 405, 406$	\PH <u>1257</u>
1122, 1130, 1138, 1146	\newtxtpar \(\frac{342}{351}\), \(\frac{353}{357}\), \(359\)	\Pi 1264, 1265, 1568
\mthsig <u>643</u>		\pi 1283, 1349, 1727, 1947
	\newtxtparsty \(\frac{348}{210}, \frac{376}{270}, \frac{307}{207},	\PL <u>1614</u> , <u>1966</u>
	\newtxtsty $\underline{312}$, 370, 385, 386	
\mthstr <u>657</u>	$\texttt{NExpSpace}(\texttt{E/H/C}) \dots \underline{1255}$	\playFun <u>1349</u>
\mthsty	\NExpTime(E/H/C) <u>1254</u>	\PlaySet <u>1349</u> , <u>1947</u>
483, 485, 487, 489, 491, <u>492</u>	\NGSL 2219, 2223, 2225, 2228	\playset 1350, 1351, 1948, 1949
\mthstycls 631	\NLogSpace(E/H/C) 1249	\playsym 1349, 1351, 1947, 1949
\mthstyelm 735	\NLogTime(E/H/C) 1248	\PlnSet <u>1951</u>
\mthstyfam 617		\plnset . 1952, 1953, 1954, 1956
	\nlr <u>2397</u>	\plnsym . 1951, 1953, 1955, 1957
\mthstyfrm 795	\nlset 2399	
\mthstyfun 707	\noexpand 185, 189	\PlrFun <u>1329</u>
\mthstylbop 768	\norm <u>1161</u>	\plrfun 1329, 1330
\mthstylrel 775	\normalfont . 311, 544, 571, 584	\PlrSym <u>1314</u> , 1325, 1326,
\mthstyluop 766		1344, 1345, 1356, 1357,
\mthstymat 810	\not 925, 929, 933, 938, 942	1916, 1917, 1942, 1943,
\mthstyname 603	\notcequiv <u>939</u>	1954, 1955, 1961, 1962
•	\notcmodels <u>935</u>	\plrsym 1314, 1315
\mthstyrel 693	\notcoimplies <u>930</u>	
\mthstyset 673	\notimplied <u>926</u>	\pm 1124, 1132, 1140
\mthstysig 645	\notimplies 922	\pmapsto <u>1095</u>
\mthstysnt 781	(11001mp110b <u>022</u>	\PosSet <u>1320</u> , <u>1911</u>
(\MDCmaco(E/U/C) 1951	(1 Obbec
	\NPSpace(E/H/C) <u>1251</u>	\posset
\mthstystr 659	\NPTime(E/H/C) <u>1250</u>	\posset
\mthstystr 659 \mthstysym 721	$\label{eq:nptime} $$ \NPTime(E/H/C) \dots \frac{1250}{253} $$$	\posset
\mthstystr 659 \mthstysym	\NPTime(E/H/C) <u>1250</u>	\posset
\mthstystr	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\posset
\mthstystr 659 \mthstysym	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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\mthstystr 659 \mthstysym	NPTime(E/H/C) 1250 NQPSpace(E/H/C) 1253 NQPTime(E/H/C) 1252 NSpace(E/H/C) 1247 NTime(E/H/C) 1246 \num 1150 \numco 1150 \numoc 1150	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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\mthstystr 659 \mthstysym	NPTime(E/H/C) 1250 NQPSpace(E/H/C) 1253 NQPTime(E/H/C) 1252 NSpace(E/H/C) 1247 NTime(E/H/C) 1246 num 1150 numcc 1150 numco 1150 numoc 1150 numoo 1150 nxt 2259	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
\mthstystr 659 \mthstysym	NPTime(E/H/C) 1250 NQPSpace(E/H/C) 1253 NQPTime(E/H/C) 1252 NSpace(E/H/C) 1247 NTime(E/H/C) 1246 num 1150 numcc 1150 numco 1150 numoc 1150 numoo 1150 nxt 2259	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \frac{1250}{1250} \nQPSpace(E/H/C) \ \frac{1253}{1253} \nQPTime(E/H/C) \ \frac{1252}{1247} \nSpace(E/H/C) \ \frac{1247}{1246} \num \ \frac{1150}{1150} \numcc \	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
\mthstystr 659 \mthstysym	\\ \text{NPTime}(E/H/C) \\ \frac{1250}{1253} \\ \text{NQPSpace}(E/H/C) \\ \frac{1252}{1252} \\ \text{NSpace}(E/H/C) \\ \frac{1247}{1247} \\ \text{NTime}(E/H/C) \\ \frac{1246}{1246} \\ \text{num} \\ \frac{1150}{1250} \\ \text{numcc} \\ \frac{1150}{1250} \\ \text{numcc} \\ \frac{1150}{1250} \\ \text{numcc} \\ \frac{1150}{1250} \\ \text{numoc} \\ \frac{1150}{1250} \\ \text{numoc} \\ \frac{1259}{1250} \\ \text{NSFun} \\ \frac{1237}{1250} \\ \text{NDSSet} \\ \frac{1337}{1250} \\ \text{NDSSet} \\ \frac{1337}{1250} \\ \text{NDSSet} \\ \frac{1250}{1250} \\ \text{NDSSet} \\ \frac{1250}{1250} \\ \text{NDSSet} \\ \frac{1250}{1250} \\ \text{NDSSet} \\ \frac{1237}{1250} \\ \text{NDSSet} \\ \frac{1250}{1250} \\ \text{NDSSET} \\	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\mthstystr	\nPTime(E/H/C) \ \frac{1250}{1250} \nQPSpace(E/H/C) \ \frac{1253}{1253} \nQPTime(E/H/C) \ \frac{1252}{1247} \nSpace(E/H/C) \ \frac{1247}{1246} \num \ \frac{1150}{1150} \numcc \	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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\mthstystr	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1253}{1252} \nQPTime(E/H/C) \ \ \ \frac{1252}{1252} \nSpace(E/H/C) \ \ \ \frac{1247}{1246} \num \ \ \ \num \ \ \num \ \ \ \num \ \ \num \ \ \num \ \ \num \ \ \ \num \ \num \ \ \num \ \ \num \num	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
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\mthstystr	\\ \text{NPTime}(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\posset
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\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1252}{1252} \nQPTime(E/H/C) \ \ \ \ \frac{1252}{1252} \nSpace(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\posset
\mthstystr	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1252}{1252} \nQPTime(E/H/C) \ \ \ \ \frac{1252}{1252} \nSpace(E/H/C) \ \ \ \ \ \text{1247} \nTime(E/H/C) \ \ \ \ \ \text{1246} \num \ \ \ \text{1150} \numcc \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\posset
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1252}{1252} \nQPTime(E/H/C) \ \ \ \ \frac{1252}{1252} \nSpace(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\posset
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1252}{1252} \nQPTime(E/H/C) \ \ \ \ \frac{1252}{1252} \nSpace(E/H/C) \ \ \ \ \ \text{1247} \nTime(E/H/C) \ \ \ \ \ \text{1246} \num \ \ \ \text{1150} \numcc \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{llllllllllllllllllllllllllllllllllll$
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1252}{1253} \nQPTime(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{llllllllllllllllllllllllllllllllllll$
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{llllllllllllllllllllllllllllllllllll$
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	$\begin{array}{llllllllllllllllllllllllllllllllllll$
\mthstystr	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1253}{1252} \nQPTime(E/H/C) \ \ \ \ \frac{1252}{1247} \nSpace(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{1321, 1322, 1325, 1327, 1912, 1913, 1916, 1918}} \text{\text{possym}} \tag{1320, 1322, 1323, 1324, 1326, 1328, 1911, 1913, 1914, 1915, 1917, 1919} \text{\text{pow}} \tag{165} \text{\text{pre}} \tag{165} \text{\text{pre}} \tag{166} \text{\text{pre}} \tag{160} \text{\text{prfFun}} \tag{160, 1362, 1937, 1938} \text{\text{prfsym}} \tag{1360, 1362, 1936, 1938} \text{\text{Primafacie}} \tag{863} \text{\text{primafacie}} \tag{863} \text{\text{primafacie}} \tag{863} \text{\text{primafacie}} \tag{384, 394, 399, 404, 412, 497, 500, 503, 506, 509, 515} \text{\text{providecommand}} \text{\text{1727,}} \tag{1728, 1911, 1912, 1936, 1937, 1939, 1940, 1947, 1948, 1951, 1952, 1958, 1959, 2296, 2297, 2303} \text{\text{prtFun}} \tag{1394} \text{\text{PrtSet}} \tag{1394}
\mthstystr 659 \mthstysym	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1252}{1252} \nSpace(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{1321, 1322, 1325, 1327, 1912, 1913, 1916, 1918}} \text{\text{possym}} \tag{1320, 1322, 1323, 1324, 1326, 1328, 1911, 1913, 1914, 1915, 1917, 1919} \text{\text{pow}} \tag{190, 1925, 1917, 1919} \text{\text{pow}} \tag{190, 1926, 1936, 1936} \text{\text{prfFun}} \tag{1360, 1362, 1937, 1938} \text{\text{prfsym}} \tag{1360, 1362, 1936, 1938} \text{\text{Primafacie}} \tag{863} \text{\text{prj}} \tag{1085} \text{\text{Procedure}} \tag{2381} \text{\text{Procedure}} \tag{2381} \text{\text{Procedure}} \tag{389, 394, 399, 404, 412, 497, 500, 503, 506, 509, 515} \text{\text{providecommand}} \text{\text{1727,}} \tag{1728, 1911, 1912, 1936, 1937, 1939, 1940, 1947, 1948, 1951, 1952, 1958, 1959, 2296, 2297, 2303} \text{\text{prtSet}} \text{\text{1394}} \text{\text{PrtSet}} \tag{1394} \text{\text{PrtSet}} \tag{1396} \text{\text{1395, 1396}} \text{\text{Protest}} \text{\text{1395, 1396}} \text{\text{PrtSet}} \tag{1395, 1396} \text
\mthstystr	\nPTime(E/H/C) \ \ \frac{1250}{1253} \nQPSpace(E/H/C) \ \ \ \frac{1253}{1252} \nQPTime(E/H/C) \ \ \ \ \frac{1252}{1247} \nSpace(E/H/C) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\text{\text{1321, 1322, 1325, 1327, 1912, 1913, 1916, 1918}} \text{\text{possym}} \tag{1320, 1322, 1323, 1324, 1326, 1328, 1911, 1913, 1914, 1915, 1917, 1919} \text{\text{pow}} \tag{165} \text{\text{pre}} \tag{165} \text{\text{pre}} \tag{166} \text{\text{pre}} \tag{160} \text{\text{prfFun}} \tag{160, 1362, 1937, 1938} \text{\text{prfsym}} \tag{1360, 1362, 1936, 1938} \text{\text{Primafacie}} \tag{863} \text{\text{primafacie}} \tag{863} \text{\text{primafacie}} \tag{863} \text{\text{primafacie}} \tag{384, 394, 399, 404, 412, 497, 500, 503, 506, 509, 515} \text{\text{providecommand}} \text{\text{1727,}} \tag{1728, 1911, 1912, 1936, 1937, 1939, 1940, 1947, 1948, 1951, 1952, 1958, 1959, 2296, 2297, 2303} \text{\text{prtFun}} \tag{1394} \text{\text{PrtSet}} \tag{1394}

\psn <u>2257</u>	\rmfamily 380, 584	\sffamily 571
\PSpace(E/H/C) <u>1251</u>	\rng <u>1079</u>	\Sigma 1262, 1263, 1566, 2294
\pthFun <u>1283</u>	\Role <u>890</u>	\sigma 1353, 1958, 2293
\PthSet <u>1283</u> , <u>1727</u>	\role <u>888</u>	\Signature <u>2380</u>
\pthset . 1284, 1285, 1728, 1729	\rrbracket 947, 949	\sim 1444
\pthsym . 1283, 1285, 1727, 1729	\rst 1087	\skm 1531
\PTime(E/H/C) <u>1250</u>	\rVert 1170, 1172	\SL <u>2100</u>
\PTL 1766	\rvert 1062, 1064,	\SO 1580, 1586, 1592
\pto 1095	1164, 1166, 1205, 1207	\SOL 1572
(poe	1101, 1100, 1200, 1201	\sol 1370
${f Q}$	\mathbf{S}	\Space(E/H/C) 1247
\QAE 1466	\S 1796	\stackrel 912
\QAFMC	\SATG 1296	\StrSet \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\QATL 1860	\SaveDoubleAcute 1795	
•		\strset
\QATLP 1875	\SavePilcrow	1354, 1355, 1356, 1358,
\QATLS 1890	\SaveSectionSymbol 1796	1959, 1960, 1961, 1963
\QBF	\scshape 571, 584	\strsym
\QCTL 1811	\seqofcmd <u>186</u> , 199, 203	1353, 1355, 1357, 1359,
\QCTLP 1826	\seqofgrklet $\underline{206}$, 530	1958, 1960, 1962, 1964
\QCTLS 1841	\seqofgrklow	\SttSet <u>1920</u> , <u>2296</u>
\QEA <u>1466</u>	198, 207, 210, 526, 646, 660	\sttset
\QLTL 1781	\seqofgrkupp $202, 207, 212, 528$	1921, 1922, 1923, 1925,
\QMC 1740	\seqoflatlet <u>195, 524, 646, 660</u>	2297, 2298, 2299, 2301
\QML 1693	\seqoflatlow $191, 196, 210, 520$	\sttsym
\Qnt <u>1463</u>	\seqoflatupp $\dots 193$,	1920, 1922, 1924, 1926,
\QntSet	196, 212, 522, 604, 618, 632	2296, 2298, 2300, 2302
\qntset 1469, 1470	\seqoflet	\stx <u>896</u>
\qntsym 1468, 1470	<u>213,</u> 536, 674, 694, 708,	\sub 1462
\QPSpace(E/H/C) <u>1253</u>	722, 736, 782, 796, 811, 825	\suc 1287
\QPTime(E/H/C) 1252	\seqoflow <u>209</u> , 214, 532	\sup 1195
\QPTL 1770	\seqoftag <u>182</u> , 192, 194	\SVarSet 1609
	\seqofupp <u>211</u> , 214, 534	\svarset 1610, 1611
${f R}$	\sequence <u>970</u>	\svarsym 1609, 1611
R \raisebox 1098	\sequence	\svarsym 1609, 1611 \Sym 1463
	-	\Sym <u>1463</u>
\ransebox 1098 \rangle 1006, 1007,	\sequencel <u>970</u>	\Sym
\ransebox 1098 \rangle 1006, 1007, 1008, 1009, 1026, 1027,	\sequence1 970 \sequencer 970 \set 1031	\Sym $\frac{1463}{2293}$ \SymSet $\frac{2293}{2295}$
\raisebox 1098 \rangle 1006, 1007, 1008, 1009, 1026, 1027, 1028, 1029, 1708, 1898	\sequencel	\Sym
\ransebox 1098 \rangle 1006, 1007, 1008, 1009, 1026, 1027,	\sequence1 970 \sequencer 970 \set 1031 \SetB 1113	\Sym $\frac{1463}{2293}$ \SymSet $\frac{2293}{2295}$
\raisebox 1098 \rangle 1006, 1007,	\sequence1 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145	\Sym
\raisebox 1098 \rangle 1006, 1007,	\sequence1 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910	\Sym
\rangle 1006, 1007, 1008, 1009, 1026, 1027, 1028, 1029, 1708, 1898 \rbrace . 1038, 1040, 1056, 1058 \rceil	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115	\Sym
\rangle	\sequence1 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378	\Sym
\rangle 1098 \rangle 1006, 1007,	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115	\Sym
\rangle	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391,	\Sym
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387,	\Sym
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393	\Sym
\raisebox 1098 \rangle 1006, 1007,	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396	\Sym
\raisebox 1098 \rangle 1006, 1007,	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \set1 1031	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox 1098 \rangle 1006, 1007,	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1031 \setIength 2379	\Sym
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1031 \setlength 2379 \SetN 1117	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetB 11145 \SetCI 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1031 \setlength 2379 \SetN 1117	\Sym
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1115 \SetI 12396 \SetI 1117 \SetQ 1117	\Sym
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2380, 2385, 2382, 2383, 2384 \SetKwIF 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1117 \SetNI 1117 \SetQ 1119	\Sym
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2380, 2385, 2382, 2383, 2384 \SetKwIF 2381, 2382, 2383, 2384 \SetKwIF 1031 \setlength 2379 \SetN 1117 \SetNI 1117 \SetQ 1129 \SetQNI 1129	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetQI 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setlength 2379 \SetN 1117 \SetQ 1129 \SetQI 1129 \SetQPI 1129 \SetQPI 1129	\Sym
\raisebox 1098 \rangle 1006, 1007,	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetQI 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setlength 2379 \SetNI 1117 \SetQI 1129 \SetQII 1129 \SetQPI 1129 \SetQPI 1129 \SetR 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetB 11145 \SetC 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2380, 2385, 2382, 2383, 2384 \SetKwIF 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1117 \SetNI 1117 \SetNI 1117 \SetQ 1129 \SetQI 1129 \SetQNI 1129 \SetQNI 1129 \SetQPI 1129 \SetR 1137 \setr 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \setuencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetQ 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \set1 1031 \setlength 2379 \SetN 1117 \SetQ 1129 \SetQNI 1129 \SetQPI 1129 \SetQPI 1129 \SetR 1137 \setR 1031 \SetRI 1137 \SetRI 1137 \SetRI 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \setuencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetQ 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \set1 1031 \setlength 2379 \SetN 1117 \SetQ 1129 \SetQNI 1129 \SetQPI 1129 \SetQPI 1129 \SetR 1137 \SetRI 1137 \SetRI 1137 \SetRNI 1137 \SetRNI 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \setuencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetEq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \set1 1031 \setlength 2379 \SetN 1117 \SetQ 1129 \SetQNI 1129 \SetQPI 1129 \SetQPI 1129 \SetR 1137 \SetRI 1137 \SetRNI 1137 \SetRPI 1137 \SetRPI 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1031 \setlength 2379 \SetN 1117 \SetNI 1117 \SetQ 1129 \SetQNI 1129 \SetQNI 1129 \SetQNI 1129 \SetQPI 1129 \SetQPI 1129 \SetRINI 1137 \SetRI 137 \SetRI 137 \SetRII 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \seture 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \set1 1031 \setlength 2379 \SetN 1117 \SetQ 1129 \SetQI 1129 \SetQNI 1129 \SetQPI 1129 \SetR 1137 \SetRI 1137 \SetRI 1137 \SetRPI 1137 \SetZ 1121 \SetZI 1121	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\raisebox	\sequencel 970 \sequencer 970 \set 1031 \SetB 1113 \SetC 1145 \SetCI 1145 \SetCI 1145 \seteq 910 \SetF 1115 \SetInd 2378 \SetKw 2380, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395 \SetKwFor 2381, 2382, 2383, 2384 \SetKwFor 2381, 2382, 2383, 2384 \SetKwIF 2396 \setI 1031 \setlength 2379 \SetN 1117 \SetNI 1117 \SetQ 1129 \SetQNI 1129 \SetQNI 1129 \SetQNI 1129 \SetQPI 1129 \SetQPI 1129 \SetRINI 1137 \SetRI 137 \SetRI 137 \SetRII 1137	\Sym \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

\TreeSet <u>2329</u>	${f U}$	628, 634, 636, 638, 640,
\treeset 2330, 2331	\UAFMC 1760	642, 648, 650, 652, 654,
\treesym 2329, 2331	\UAGPL 2039	656, 662, 664, 666, 668,
\triangleq 913	\UAGSL 2173	670, 676, 678, 680, 682,
\trn 951	\UATL 1864	684, 696, 698, 700, 702,
\trnFun 1933, 2303	\UATLP 1879	704, 710, 712, 714, 716,
\TrnRel 1722	\UATLS 1894	718, 724, 726, 728, 730,
\trnRel 1933, 2303	\UBF	732, 738, 740, 742, 744,
\trnsym 1933, 1934,	\UBGPL	746, 770, 772, 777, 784,
1935, 2303, 2304, 2305	\UBGSL	786, 788, 790, 792, 798,
\True 2385	\UBH	800, 802, 804, 806, 813,
\Tt	\UCGPL 2005	815, 817, 819, 821, 827,
\ttsym 1438, 1439	\UCGSL 2139	829, 831, 833, 835, 1079,
•	\UCTL 1815	1080, 1081, 1082, 1083,
\tuple <u>1000</u>	\UCTLP 1830	1101, 1102, 1103, 1104,
\tuple1 <u>1000</u>	\UCTLS	1106, 1107, 1108, 1109,
\tupler <u>1000</u>		1110, 1111, 1186, 1187,
\txt 369	\UDGPL	1188, 1189, 1190, 1191,
\txt@false 56, 66, 68	\UDGSL	1192, 1193, 1194, 1195,
\txt@true 67	\UEGPL	1196, 1197, 1198, 1208,
\txtabr <u>555</u>	\UEGSL	1209, 1286, 1287, 1288,
\txtarg <u>371</u>	\UExpSpace(E/H/C) <u>1255</u>	1348, 1352, 1363, 1364,
\txtargabr <u>555</u>	\UExpTime(E/H/C) <u>1254</u>	1365, 1366, 1367, 1368,
\txtargcom <u>582</u>	\UFAGPL 2047	1369, 1370, 1439, 1441,
\txtargdef <u>542</u>	\UFAGSL 2181	1443, 1445, 1447, 1449,
\txtargname <u>569</u>	\UFBGPL 2081	1451, 1453, 1455, 1457,
\txtcom <u>582</u>	\UFBGSL 2215	1461, 1462, 1463, 1464,
\txtdef <u>542</u>	\UFCGPL 2013	1465, 1466, 1467, 1471,
\txtgen@false 53, 56	\UFCGSL 2147	1472, 1473, 1474, 1504,
\txtgen@true	\UFDGPL 2030	1505, 1511, 1517, 1518,
. 54, 67, 78, 84, 89, 94, 99	\UFDGSL 2164	1524, 1530, 1531, 1567,
\txtname 569 , 1430 , 1495 ,	\UFEGPL 2064	1569, 1700, 1701, 1702,
1497, 1578, 1580, 1584,	\UFEGSL 2198	1730, 1788, 1789, 1790,
1586, 1590, 1592, 1596,	\UFNGSL 2232	1791, 1792, 1793, 1794,
1598, 1602, 1604, 1619,	\UFOGPL 1996	1795, 1796, 1797, 1848,
1623, 1627, 1631, 1635,	\UFOGSL 2130	1849, 1946, 1950, 2256,
1642, 1646, 1650, 1654,	\UFPL 1979	2257, 2259, 2310, 2332
1658, 1665, 1669, 1673,	\UFSL 2113	
1677, 1681, 1690, 1694,	\UFXGPL 2098	
1737, 1741, 1749, 1753,	\UFXGSL 2249	\usrmthgrklow 525
1757, 1771, 1782, 1808,	\ULH <u>1264</u>	\usrmthgrkupp <u>527</u>
1812, 1823, 1827, 1838,	\ULogSpace(E/H/C) <u>1249</u>	\usrmthlatlet <u>523</u>
1842, 1857, 1861, 1872,	\ULogTime(E/H/C) <u>1248</u>	\usrmthlatlow <u>519</u>
1876, 1887, 1891, 1975,	\ULTL 1785	\usrmthlatupp <u>521</u> , 1274,
1992, 2009, 2026, 2043,	\UMC 1744	1319, 1334, 1437, 1481,
2060, 2077, 2094, 2109,	\UML 1697	1500, 1507, 1513, 1520,
2126, 2143, 2160, 2177,	\UNGSL 2224	1526, 1534, 1536, 1538,
2194, 2211, 2228, 2245	\UOGPL 1988	1540, 1717, 1904, 2288
\txtoarg <u>373</u>	\UOGSL 2122	\usrmthlet <u>535</u> , 687, 689
\txtoargcom 1217, 1233	\upharpoonright 1088	\usrmthlow <u>531</u>
\txtopar <u>377</u>	\UPL 1971	\usrmthupp <u>533</u>
\txtoparcom 1235	\upshape 380	\usrtxt
\txtpar <u>375</u>	\UPSpace(E/H/C) <u>1251</u>	$\underline{410}$, 546, 548, 550, 552,
\txtparabr <u>555</u>	\UPTime(E/H/C) 1250	554, 559, 561, 563, 565,
\txtparcom <u>582</u>	\UPTL 1774	567, 573, 575, 577, 579,
\txtpardef 542	\UQPSpace(E/H/C) <u>1253</u>	581, 586, 588, 590, 592, 594
\txtparname <u>569</u>	\UQPTime(E/H/C) 1252	$\texttt{UTime}(\texttt{E/H/C}) \dots \underline{1246}$
\txtsty	\usetikzlibrary 2348	\UXGPL 2090
370, 372, 374, 376, 378, <u>379</u>	\USL	\UXGSL 2241
\txtstyabr 557	\USpace(E/H/C) <u>1247</u>	
\txtstycom 584	\usrmth . \frac{513}{3}, \frac{520}{522}, \frac{524}{524},	\mathbf{V}
\txtstydef 544	526, 528, 530, 532, 534,	\ValSet <u>1482</u>
\txtstyname 571	536, 606, 608, 610, 612,	\valset 1483, 1484
\txtsubsup 309, 311, 366	614, 620, 622, 624, 626,	\valsym 1482, 1484
(511554554p 600, 611, <u>900</u>	011, 020, 022, 021, 020,	, 1102, 1404

\varcmd	\WATLP 1871	\wp 1468
<u>173,</u> 968, 969, 976, 977,	\WATLS 1886	\WPL 1664
978, 979, 986, 987, 988,	\WAutSet <u>2291</u>	\WrdSet 2307
989, 996, 997, 998, 999,	\wautset 2291, 2292	\wrdset 2308, 2309
1006, 1007, 1008, 1009,	\WCL 1641	\wrdsym 2307, 2309
1016, 1017, 1018, 1019,	\WCTL 1807	\WrlSet 1718
1026, 1027, 1028, 1029	\WCTLP 1822	\wrlset 1719, 1720
\varepsilon 1201	\WCTLS 1837	\wrlsym 1718, 1720, 1721
\varnothing 1077, 1093	\wghFun <u>1413</u>	•
\varpi 1341, 1939	\WghSet 1413	\wrpfig@false 116
\varset 1502, 1503	\wghset 1414, 1415	\wrpfig@true 115
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\varsig 1499, 1500	\WH	\wso 1579
\varsym 1501, 1503	\widehat 956	\WSOL 1577
\vec <u>959</u>	\widetilde 958	\WTL 1618
\VerSet	\WinSet 1335	
\verset 1276, 1277	\winset 1335, 1336	${f X}$
\versym . 1275, 1277, 1278, 1279	\Wlogx 902	\X
\vert 1034, 1044	\wlogx 899	\XGPL 2085, 2089, 2091, 2094
\Viceversa <u>881</u>	\WMCL 1653	\XGSL 2236, 2240, 2242, 2245
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\mathbf{W}	\WMTL 1630	\mathbf{v}
\WATL 1856	\wot 2332	\Y 1793
/MUIT 1000	\woo	\1 · · · · · · · · · · · · · · · · · · ·