fmocdmac — FM's OCD LATEX Macro*

Fabio Mogavero fm@fabiomogavero.com

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Abstract

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

1 Implementation & Usage

 $1 \langle *package \rangle$

Required external packages:

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

Package options:

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

^{*}This document describes version v0.22 of the fmocdmac package, last revised 2023/09/14.

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

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

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

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

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

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

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

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

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

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

406 \newcommand{\newmth}

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

```
\Erratum
                 • \Erratum = Erratum
               841 \cmdtxtabr{Erratum}
                 ullet \Mutatismutandis = Mutatis\ mutandis
\Mutatismutandis
               842 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
    \Percontra
                 • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
               843 \cmdtxtabr{Percontra} [Per contra]
    \Primafacie
                • \Primafacie = Prima facie
               844 \cmdtxtabr{Primafacie}[Prima facie]
    \Viceversa
                 • \forall iceversa = Vice \ versa
               845 \cmdtxtabr{Viceversa}[Vice versa]
               \ala
                 • \alphala = \grave{a} la
               849 \cmdtxtabr{ala}[\'a la]
        \n
                 • \n naif = naif
               850 \cmdtxtabr{naif}[na\"{i}f]
                 • \ne naive = na\"ive
        \naive
               851 \cmdtxtabr{naive}[na"{i}ve]
                 • \role = r\hat{o}le
        \role
               852 \cmdtxtabr{role}[r\^{o}le]
               \Role
                 • \label{Role} \operatorname{Role} = R \hat{o} l e
               854 \cmdtxtabr{Role}[R\^{o}le]
               \aka
                 • \again a.k.a.
               856 \cmdtxtabr{aka}[a.k.a.]
        \contd
                 • \contd = contd.
               857 \cmdtxtabr{contd}[contd.]
         \iff
                 • \iff = iff
               858 \cmdtxtabr{iff}
         \iht
                 • \ iht = i.h.t.
               859 \cmdtxtabr{iht}[i.h.t.]
                 • \ \ \ \ \ stx = s.t.
         \stx
               860 \cmdtxtabr{stx}[s.t.]
         \resp
                 • \resp = resp.
               861 \cmdtxtabr{resp}[resp.]
```

```
\wrt
            • \wrt = w.r.t.
          862 \cmdtxtabr{wrt}[w.r.t.]
     \wlogx
            • \wdots w.l.o.g.
          863 \cmdtxtabr{wlogx}[w.l.o.g.]
          \Cont.d
            • \contd = Contd.
          865 \cmdtxtabr{Contd}[Contd.]
            • \Wlogx = W.l.o.q.
     \Wlogx
          866 \cmdtxtabr{Wlogx}[W.l.o.g.]
          872 \ifmth@
          \defeq, \seteq
          874 \DeclareRobustCommand{\defeq}
             {\@ifstar%
          876
               {\mthlbop{\stackrel{\text{\textup{def}}}}{=}}}%
              {\mthlbop{\triangleq}}}
          878 \DeclareRobustCommand{\seteq}
             {\@ifstar{\mthlbop{\Coloneqq}}}{\mthlbop{\coloneqq}}}
          \limp, ... ...
          881 \DeclareRobustCommand{\limp}
          882 {\mthlbop{\rightarrow}}
 \lcoimp, ... ...
          883 \DeclareRobustCommand{\lcoimp}
             {\mthlbop{\leftrightarrow}}
          \implies, ... ...
          886 \DeclareRobustCommand{\implies}
          887 {\mthlrel{\Rightarrow}}
          888 \DeclareRobustCommand{\notimplies}
             {\mthlrel{\not\Rightarrow}}
 \implied, ... ...
          890 \DeclareRobustCommand{\implied}
          891 {\mthlrel{\Leftarrow}}
          892 \DeclareRobustCommand{\notimplied}
          893 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
          894 \DeclareRobustCommand{\coimplies}
          895 {\mthlrel{\Leftrightarrow}}
          896 \DeclareRobustCommand{\notcoimplies}
          897 {\mthlrel{\not\!\Leftrightarrow}}
```

```
\cmodels, ... ...
                899 \DeclareRobustCommand{\cmodels}
                900 {\mthlrel{\models}}
                901 \DeclareRobustCommand{\notcmodels}
                902 {\bf \{not\models\}}
    \cequiv, ... ...
                903 \DeclareRobustCommand{\cequiv}
                    {\mthlrel{\equiv}}
                905 \DeclareRobustCommand{\notcequiv}
                906 {\mthlrel{\not\equiv}}
                \denot ...
                908 \DeclareRobustCommand{\denot}
                    {\@ifstar{\@sdenot}{\@denot}}
                910 \DeclareRobustCommand{\@denot}[1]
                911 {\mth{\argmid{\left\llbracket}{#1}{\right\rrbracket}}}
                912 \DeclareRobustCommand{\@sdenot}[1]
                913 {\mth*{\argmid{\llbracket}{#1}{\rrbracket}}}
                \dual, \adj, ... ...
                915 \DeclareRobustCommand{\dual}[1]
                916 {\mth{\overline{#1}}}
                917 \DeclareRobustCommand{\adj}[1]
                918 {\mth{\mathring{#1}}}
                919 \DeclareRobustCommand{\der}[1]
                920 {\mth{\widehat{#1}}}
                921 \DeclareRobustCommand{\trn}[1]
                922 {\mth{\widetilde{#1}}}
          \vec ...
                923 \DeclareRobustCommand{\vec}
                924 {\c}^{0} {\@ifstar{\@svec}{\@vec}}
                925 \DeclareRobustCommand{\@vec}[1]
                926 {\mth{\mathaccent"017E{#1}}}
                927 \DeclareRobustCommand{\@svec}[1]
                928 {\bf \{nth{overline{#1}}}
                \enumeration, ... ...
                930 \operatorname{d}{\mathrm{enumeration}}{\mathrm{hth}}{}{}{}{}
                931 \varcmd{enumerationx}{mth*}{}{;}{}}
  \sequence, ... ...
                932 \DeclareRobustCommand{\sequence}
                    {\@ifstar{\@ssequence}{\@sequence}}
                935 \varcmd{@ssequence}{\mth*}{[]{,}{]}{}
                936 \DeclareRobustCommand{\sequencel}
                    {\@ifstar{\@ssequencel}{\@sequencel}}
                938 \varcmd{@sequencel}{\mth}{\left[}{,}{\right.}{}
                939 \varcmd{@ssequencel}{\mth*}{[]{,}{}}
                940 \DeclareRobustCommand{\sequencer}
                    {\@ifstar{\@ssequencer}{\@sequencer}}
                942 \end{@sequencer}{\bf \{\hft.}{,}{right]}{}
                943 \operatorname{(0ssequencer){\{\mth*}{\{\},\}{]}}{\}}
                944 \DeclareRobustCommand{\sequencex}
```

```
946 \varcmd{@sequencex}{\mth}{\left[}{;}{\right]}{}
             947 \varcmd{@ssequencex}{\mth*}{[]{;}{]}{}
             948 \DeclareRobustCommand{\sequencex1}
             949 {\@ifstar{\@ssequencexl}{\@sequencexl}}
             951 \varcmd{@ssequencex1}{\mth*}{[]{;}{}}
             952 \DeclareRobustCommand{\sequencexr}
             953 {\@ifstar{\@ssequencexr}{\@sequencexr}}
             955 \varcmd{@ssequencexr}{\mth*}{}{;}{]}{}
\tuple, ... ...
            956 \DeclareRobustCommand{\tuple}
            957 {\@ifstar{\@stuple}{\@tuple}}
             958 \varcmd{@tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
             959 \varcmd{@stuple}{\mth*}{\langle}{,}{\rangle}{}
             960 \DeclareRobustCommand{\tuplel}
                 {\@ifstar{\@stuplel}{\@tuplel}}
             963 \varcmd{@stuplel}{\mth*}{\langle}{,}{}}
             964 \DeclareRobustCommand{\tupler}
             965 {\@ifstar{\@stupler}{\@tupler}}
             966 \varcmd{@tupler}{\mth}{\left.}{,}{\right\rangle}{}
             967 \varcmd{@stupler}{\mth*}{}{,}{\rangle}{}
             968 \DeclareRobustCommand{\tuplex}
                {\@ifstar{\@stuplex}{\@tuplex}}
             970 \varcmd{@tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
             971 \varcmd{@stuplex}{\mth*}{\langle}{;}{\rangle}{}
            972 \DeclareRobustCommand{\tuplex1}
             973 {\@ifstar{\@stuplexl}{\@tuplexl}}
             974 \displaystyle \frac{0tuplex1}{mth}{\left(\frac{ctuplex1}{mth}}{\left(\frac{ctuplex1}{ctuplex1}}\right)}
             975 \varcmd{@stuplex1}{\mth*}{\langle}{;}{}}
             976 \DeclareRobustCommand{\tuplexr}
             977 {\@ifstar{\@stuplexr}{\@tuplexr}}
             978 \varcmd{@tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
             979 \varcmd{@stuplexr}{\mth*}{}{;}{\rangle}{}
             \set. ... ...
             981 \DeclareRobustCommand{\set}
                 {\@ifstar{\@sset{\vert}}{\@set{\vert}}}
             983 \DeclareRobustCommand{\setx}
             984 {\@ifstar{\@sset{:}}{\@set{.\!:}}}
             985 \DeclareRobustCommand{\@set}[3]
             986 {\bf \{\hat \} {\argsep{#2}{\,\middle#1\,}{#3}}{\right\right\right}}
             987 \DeclareRobustCommand{\@sset}[3]
             988 {\mathbf {\mathbf {\lambda rgmid{ \bar {\lambda rgsep{#2}{\, #1\, }{#3}}{\bar {\lambda rbrace}}}}
             989 \DeclareRobustCommand{\set1}
             990 {\@ifstar{\@ssetl{\vert}}}{\@setl{\vert}}}
             991 \DeclareRobustCommand{\setlx}
             992 {\@ifstar{\@ssetl{:}}{\@setl{.\!\!\!:}}}
             993 \DeclareRobustCommand{\@set1}[2]
                {\mth{\argmid{\left\lbrace}{#2}{\,\right#1\!}}}
             995 \DeclareRobustCommand{\@sset1}[2]
             996 {\mth*{\argmid{\lbrace}{#2}{\,#1\!}}}
             997 \DeclareRobustCommand{\setr}
                 {\@ifstar{\@ssetr}{\@setr}}
             999 \DeclareRobustCommand{\setrx}
                 {\@ifstar{\@ssetr}{\@setr}}
            1001 \DeclareRobustCommand{\@setr}[1]
                 {\mth{\argmid{\left.}{#1}{\right\rbrace}}}
            1003 \DeclareRobustCommand{\@ssetr}[1]
                {\mth*{\argmid{}{#1}{\rbrace}}}
```

```
\card ...
           1005 \DeclareRobustCommand{\card}
               {\@ifstar{\@scard}{\@card}}
           1007 \DeclareRobustCommand{\@card}[1]
            1008 \quad \{\mb{\argmid{\left\langle \left\langle \mbox{$1$} \right\rangle }} \}
            1009 \DeclareRobustCommand{\@scard}[1]
               {\mth*{\argmid{\lvert}{#1}{\rvert}}}
       \pow ...
           1011 \DeclareRobustCommand{\pow}[1]
            1012 \quad {\bf 2^{\defval{#1}{\cdot}}}
            \emptyrel
            1014 \verb|\DeclareRobustCommand{\emptyrel}|
            1015 {\mth{\varnothing}}
            \dom, \cod, ... ...
           1017 \usrmth{dom}{}{argfun}
           1018 \usrmth{cod}{}{argfun}
            1019 \usrmth{rng}{}{argfun}
            1020 \mbox{ \norm}{\mbox{(img){{}}{argfun}}}
            \prj ...
            1022 \DeclareRobustCommand{\prj}
            1023 {\mthlbop{\downarrow}}
       \rst ...
            1024 \DeclareRobustCommand{\rst}
               {\mthlbop{\upharpoonright}}
       \cmp ...
            1026 \DeclareRobustCommand{\cmp}
               {\mthlbop{\circ}}
            \emptyfun ...
            1029 \DeclareRobustCommand{\emptyfun}
               {\mth{\varnothing}}
            \pto, \pmapsto
            1032 \DeclareMathOperator{\pto}
               {\ensuremath{\rightharpoonup}}
            1034 \DeclareMathOperator{\pmapsto}
               {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
                 \kern-1.5ex\rightharpoonup}}}
            \fix, \ifp, ... ...
           1038 \operatorname{fix}{{fun}}
            1039 \mbox{ \norm}{ifp}{fun}
            1040 \mbox{ \norm}{10}
            1041 \sl {gfp}{fun}
```

```
\Aomega, \AOmega
                 1043 \verb| \argset| [\argset] [\argset] |
                 1044 \usrmth{AOmega}{}{argset}[\Omega]
\Atheta, \ATheta
                 1045 \usrmth{Atheta}{}{argset}[\theta]
                 1046 \usrmth{ATheta}{}{argset}[\Theta]
 \Aomicron, ...
                 1047 \usrmth{Aomicron}{}{argset}[\omicron]
                 1048 \usrmth{AOmicron}{}{argset}[\Omicron]
                 \SetB ...
                 1050 \DeclareRobustCommand{\SetB}
                 1051 \quad \{\text{mthset[mathbb]}\{B\}\}\
          \SetF ...
                 1052 \DeclareRobustCommand{\SetF}
                 1053 {\mthset[mathbb]{F}}
     \SetN, ... ...
                 1054 \DeclareRobustCommand{\SetN}
                 1055 {\mthset[mathbb]{N}}
                 1056 \DeclareRobustCommand{\SetNI}[1][]
                 1057 {\SetN[\infty #1]}
     \SetZ, ... ...
                 1058 \DeclareRobustCommand{\SetZ}
                 1059 {\mthset[mathbb]{Z}}
                 1060 \verb|\DeclareRobustCommand{\SetZI}[1][]
                 1061 {\SetZ[\pm\infty #1]}
                 1062 \verb|\DeclareRobustCommand{\SetZPI}[1][]
                 1063 {\SetZ[+\infty #1]}
                 1064 \DeclareRobustCommand{\SetZNI}[1][]
                      {\SetZ[-\infty #1]}
     \SetQ, ... ...
                 1066 \DeclareRobustCommand{\SetQ}
                      {\mthset[mathbb]{Q}}
                 1068 \DeclareRobustCommand{\SetQI}[1][]
                      {\SetQ[\pm\infty #1]}
                 1070 \DeclareRobustCommand{\SetQPI}[1][]
                       {\SetQ[+\infty #1]}
                 1072 \DeclareRobustCommand{\SetQNI}[1][]
                      {\SetQ[-\infty #1]}
     \SetR, ... ...
                 1074 \DeclareRobustCommand{\SetR}
                      {\mthset[mathbb]{R}}
                 1076 \DeclareRobustCommand{\SetRI}[1][]
                       {\SetR[\pm\infty #1]}
                 1078 \DeclareRobustCommand{\SetRPI}[1][]
                       {\SetR[+\infty #1]}
                 1080 \DeclareRobustCommand{\SetRNI}[1][]
                       {\SetR[-\infty #1]}
     \SetC, ... ...
                 1082 \DeclareRobustCommand{\SetC}
                       {\mthset[mathbb]{C}}
                 1084 \DeclareRobustCommand{\SetCI}[1][]
                 1085 {\SetC[\infty #1]}
```

```
\num, ... ...
               1087 \DeclareRobustCommand{\num}[1]
               1088
                   {\mth{[#1]}}
               1089 \DeclareRobustCommand{\numcc}[2]
                   {\mth{[\argsep{#1}{,}{#2}]}}
               1091 \DeclareRobustCommand{\numco}[2]
                   {\mth{[\argsep{#1}{,}{#2})}}
               1093 \DeclareRobustCommand{\numoc}[2]
                   {\mth{(\argsep{#1}{,}{#2}]}}
               1095 \DeclareRobustCommand{\numoo}[2]
                   {\mth{(\argsep{#1}{,}{#2})}}
               \abs, \norm
               1098 \DeclareRobustCommand{\abs}
               1099 {\c}^{\c}
               1100 \DeclareRobustCommand{\@abs}[1]
               1101 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
               1102 \DeclareRobustCommand{\@sabs}[1]
               1103 {\bf {\bf 1103} \{\bf 1103} {\bf 1103} 
               1104 \DeclareRobustCommand{\norm}
               1105 {\@ifstar{\@snorm}{\@norm}}
               1106 \DeclareRobustCommand{\@norm}[1]
                    {\mth{\argmid{\left\lVert}{#1}{\right\rVert}}}
               1108 \DeclareRobustCommand{\@snorm}[1]
                   {\mth*{\argmid{\lVert}{#1}{\rVert}}}
 \floor, \ceil ...
               1110 \DeclareRobustCommand{\floor}
                   {\@ifstar{\@sfloor}{\@floor}}
               1112 \DeclareRobustCommand{\@floor}[1]
                    {\mth{\argmid{\left\lfloor}{#1}{\right\rfloor}}}
               1114 \DeclareRobustCommand{\@sfloor}[1]
                   {\mth*{\argmid{\lfloor}{#1}{\rfloor}}}
               1116 \DeclareRobustCommand{\ceil}
               1117 {\@ifstar{\@sceil}{\@ceil}}
               1118 \DeclareRobustCommand{\@ceil}[1]
               1119 {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
               1120 \DeclareRobustCommand{\@sceil}[1]
                   {\mth*{\argmid{\lceil}{#1}{\rceil}}}
               \arg ...
               1123 \usrmth{arg}{}{fun}
    \evn, \odd ...
               1124 \usrmth{evn}{}{fun}
               1125 \mbox{ \normth{odd}{fun}}
     \bst. ... ...
               1126 \usrmth{bst}{}{fun}
               1127 \usrmth{argbst}{}{fun}[arg\,bst]
\min, \max, ... ...
               1128 \operatorname{lusrmth\{min}{\{\}\{fun\}\}}
               1129 \operatorname{max}{fun}
               1130 \mbox{usrmth{argmin}{fun}[arg\mbox{min}]}
               1131 \usrmth{argmax}{}{fun}[arg\,max]
```

```
\inf, \sup ...
              1132 \mbox{ \nf}{fun}
              1133 \operatorname{sup}{{fun}}
              \emptyseq ...
              1135 \DeclareRobustCommand{\emptyseq}
              1136 {\mth{\varepsilon}}
        \len ...
              1137 \DeclareRobustCommand{\len}
              1139 \DeclareRobustCommandx{\@len}[3][1=, 2=]
              1140 \quad {\bf \{\argmid\{\#1\lvert\}\{\#3\}\{\#2\rvert\}\}}
              1141 \DeclareRobustCommand{\ellen}[1]
             1142 {\mth{\argmid{\left\lvert}{#1}{\right\rvert}}}
              1143 \DeclareRobustCommand{\@slen}[1]
              \fst, \lst ...
             1145 \usrmth{fst}{}{argfun}
             1146 \usrmth{lst}{}{argfun}
              1147 \fi
              1152 \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)
              1153 \newcommandx{\defcomcls}[2][2=]
                   {\csdef{#1}{\txtoargcom{\defval{#2}{#1}}}}
\defcomclsgrp ... to do!
                 • \defcomclsgrp{CompClass};
                   \CompClass[sub][sup][arg] = COMPCLASS_{SUB}^{SUP}(ARG)
                   \CoCompClass[sub][sup][arg] = CoCompCLASS_{SUB}^{SUP}(ARG)
                   \CompClassE[sub][sup][arg] = COMPCLASS-EASY_{SUB}^{SUP}(ARG)
                  \verb|\CoCompClassE[sub][sup][arg]| = CoCompClass-Easy_{SUB}^{SUP}(ARG)
                  \verb|\CompClassH[sub][sup][arg]| = CompClass-Hard_{SUB}^{SUP}(ARG)
                  \verb|\CoCompClassH[sub][sup][arg]| = \operatorname{CoCompClass-Hard}^{SUP}_{SUB}(ARG)
                  \CompClassC[sub][sup][arg] = COMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                  \verb|\CoCompClassC[sub][sup][arg]| = CoCompClass-complete_{SUB}^{SUP}(ARG)
                  \verb|\DCompClass[sub][sup][arg]| = DCompClass[sub](ARG)
                  \verb|\CoDCompClass[sub][sup][arg]| = CoDCompClass_{SUB}^{SUP}(ARG)
                  \texttt{\begin{tabular}{l} $\mathsf{DCompClassE[sub][sup][arg]} = \mathsf{DCompClass-EASY}^{SUP}_{SUB}(\mathsf{ARG}) \end{tabular}}
                  \verb|\CoDCompClassE[sub][sup][arg]| = CoDCompClass-EASY_{SUB}^{SUP}(ARG)
                  \label{eq:decompClassH} $$ \D{\compClassHard}_{Sub}[sup][arg] = D{\compClass-Hard}_{Sub}^{SUP}(arg) $$
                  \verb|\CoDCompClassH[sub][sup][arg]| = CoDCompClass-Hard_{SUB}^{SUP}(ARG)
                  \DCompClassC[sub][sup][arg] = DCompClass-Complete_{SUB}^{SUP}(ARG)
                  \verb|\CoDCompClassC[sub][sup][arg]| = CoDCompClass-Complete_{SUB}^{SUP}(ARG)
```

```
\NCompClass[sub][sup][arg] = NCompClass_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConCompClass_{SUB}^{SUP}(ARG)
  \label{eq:lassesub} $$\N{\compClassE[sub][sup][arg]} = N{\c CompClass-Easy}^{SUP}_{SUB}(ARG)$
  \verb|\ConCompClassE[sub][sup][arg]| = ConCompClass-Easy_{SuB}^{SUP}(ARG)
  \label{eq:lasshard_sub_sub} $$\N{\compClasshard_sub} = N{\compClass-hard_sub}(ARG)$
  \verb|\CoNCompClassH[sub][sup][arg]| = CoNCOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \label{eq:ncompClassC} $$\NCompClassC[sub][sup][arg] = NCompClass-CompLete_{SUB}^{SUP}(ARG)$
  \ConCompClassC[sub][sup][arg] = ConCompClass-CompLete_{Sub}^{SUP}(ARG)
  \verb|\UCompClass[sub][sup][arg]| = UCOMPCLASS^{SUP}_{SUB}(ARG)
  \verb|\CoUCompClass[sub][sup][arg]| = CoUCompClass[sup](ARG)
  \label{eq:ucompclassesub} $$ \U{\compClassesub} \ [sup] \ [arg] = U{\ccompClassesub} \ (ARG) $$
  \CoulompClassE[sub][sup][arg] = CoUCOMPCLASS-EASY_{SUB}^{SUP}(ARG)
  \UCompClassH[sub][sup][arg] = UCompClass-Hard_{SUB}^{SUP}(ARG)
  \CoulompClassH[sub][sup][arg] = CoulompClass-Hard_{SUB}^{SUP}(ARG)
  \UCompClassC[sub][sup][arg] = UCompClass-CompLete_{SUB}^{SUP}(ARG)
  \texttt{CoUCompClassC[sub][sup][arg]} = \texttt{CoUCompClass-complete}_{\texttt{SUB}}^{\texttt{SUP}}(\texttt{ARG})
  \triangle CompClass[sub][sup][arg] = ACOMPCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoACompClass[sub][sup][arg]| = CoACompClass_{SUB}^{SUP}(ARG)
  \triangle CompClassE[sub][sup][arg] = ACOMPCLASS-EASY_{SUB}^{SUP}(ARG)
  \verb|\CoACompClassE[sub][sup][arg]| = CoACompClass-Easy_{SUB}^{SUP}(ARG)
  \triangle CompClassH[sub][sup][arg] = ACOMPCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\CoACompClassH[sub][sup][arg]| = CoACompClass-Hard_{SUB}^{SUP}(ARG)
  \verb|ACompClassC[sub][sup][arg]| = ACOMPCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \CoACompClassC[sub][sup][arg] = CoACompClass-CompLete_{SUB}^{SUP}(ARG)
• \defcomclsgrp{CompClass}[NewClass];
  \compClass[sub][sup][arg] = NewClass_{SUB}^{SUP}(ARG)
  \CoCompClass[sub][sup][arg] = CoNewClass_{SUB}^{SUP}(ARG)
  \verb|\CompClassE[sub][sup][arg]| = NewClass-easy_{SUB}^{SUP}(ARG)
  \CoCompClassE[sub][sup][arg] = CoNewClass-Easy_{SUB}^{SUP}(ARG)
  \CompClassH[sub][sup][arg] = NewClass-Hard_{SUB}^{SUP}(ARG)
  \verb|\CoCompClassH[sub][sup][arg]| = CoNewClass-Hard_{SUB}^{SUP}(ARG)
  \label{lossC} $$ \operatorname{CompClassC[sub][sup][arg]} = \operatorname{NewClass-complete}_{\operatorname{SuB}}^{\operatorname{SUP}}(\operatorname{ARG}) $$
  \CoCompClassC[sub][sup][arg] = CoNewClass-CompLete_{SUB}^{SUP}(ARG)
  \verb|\DCompClass[sub][sup][arg]| = DNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoDCompClass[sub][sup][arg]| = CoDNewClass_{SUB}^{SUP}(ARG)
  \label{eq:decompClassE} $$\D{\compClassE[sub][sup][arg]} = DNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CoDCompClassE[sub][sup][arg] = CoDNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \label{eq:decompClassH} $$\D{\compClassH[sub][sup][arg]} = DNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \verb|\CoDCompClassH[sub][sup][arg]| = CoDNewClass-Hard_{SUB}^{SUP}(ARG)
  \verb|\DCompClassC[sub][sup][arg]| = DNewClass-complete_{Sub}^{SUP}(ARG)
  \CodCompClassC[sub][sup][arg] = CodNewClass-CompLete_{SUB}^{SUP}(ARG)
  \N{\c CompClass[sub][sup][arg]} = NNEWCLASS_{SUB}^{SUP}(ARG)
  \ConCompClass[sub][sup][arg] = ConNewClass_{SUB}^{SUP}(ARG)
  \verb|\NCompClassE[sub][sup][arg]| = NNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \verb|\CoNCompClassE[sub][sup][arg]| = CoNNewClass-EASY_{SUB}^{SUP}(ARG)
  \label{eq:ncompClassH} $$\NEWCLASS-HARD_{SUB}^{SUP}(ARG)$ = NNEWCLASS-HARD_{SUB}^{SUP}(ARG)$
  \ConCompClassH[sub][sup][arg] = ConNewClass-Hard_{Sub}^{SUP}(Arg)
  \label{eq:ncompClassC} $$\NEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)$$
  \ConCompClassC[sub][sup][arg] = ConNewClass-Completes_{SUB}^{SUP}(Arg)
  \verb|\UCompClass[sub][sup][arg]| = UNEWCLASS_{SUB}^{SUP}(ARG)
  \verb|\CoUCompClass[sub][sup][arg]| = CoUNEWCLASS^{SUP}_{SUB}(ARG)
  \UCompClassE[sub][sup][arg] = UNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \CoUCompClassE[sub][sup][arg] = CoUNEWCLASS-EASY_{SUB}^{SUP}(ARG)
  \UCompClassH[sub][sup][arg] = UNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \CoUCompClassH[sub][sup][arg] = CoUNEWCLASS-HARD_{SUB}^{SUP}(ARG)
  \UCompClassC[sub][sup][arg] = UNEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
  \Coulomb Class C[sub][sup][arg] = Council New Class-complete <math>_{SUB}^{SUP}(ARG)
```

```
\Lambda CompClass[sub][sup][arg] = ANEWCLASS_{SUB}^{SUP}(ARG)
                          \verb|\CoACompClass[sub][sup][arg]| = CoANewClass_{SUB}^{SUP}(ARG)
                          \triangle CompClassE[sub][sup][arg] = ANEWCLASS-EASY_{SUB}^{SUP}(ARG)
                          \verb|\CoACompClassE[sub][sup][arg]| = CoANewClass-easy_{SUB}^{SUP}(ARG)
                          \label{eq:accompClassH} $$ \Delta CompClassH[sub] [sup] [arg] = ANEWCLASS-HARD_{SUB}^{SUP}(ARG) $$
                          \CoACompClassH[sub][sup][arg] = CoANEWCLASS-HARD_{SUB}^{SUP}(ARG)
                          \ACompClassC[sub][sup][arg] = ANEWCLASS-COMPLETE_{SUB}^{SUP}(ARG)
                          \CoACompClassC[sub][sup][arg] = CoANewClass-Complete_{SuB}^{SUP}(ARG)
                     1155 \newcommandx{\defcomclsgrp}[2][2=]
                     1156
                           {\defcomclsgrpsem{#1}{\defval{#2}{#1}}}%
                           1157
                     1158 \newcommandx{\defcomclsgrpsem}[3][3=]
                           {\defcomclsgrpred{#3#1}{#2}[#3]%
                           \defcomclsgrpred{#3D#1}{#2}[#3D]%
                     1160
                     1161
                           \defcomclsgrpred{#3N#1}{#2}[#3N]%
                           \defcomclsgrpred{#3U#1}{#2}[#3U]%
                     1162
                     1163
                           \defcomclsgrpred{#3A#1}{#2}[#3A]}
                     1164 \newcommandx{\defcomclsgrpred}[3][3=]
                           {\defcomclsgrpcmd{#1}{#2}[#3]%
                     1166
                           \defcomclsgrpcmd{#1E}{#2}[#3][-easy]%
                     1167
                           \defcomclsgrpcmd{#1H}{#2}[#3][-hard]%
                           \defcomclsgrpcmd{#1C}{#2}[#3][-complete]}%
                     1169 \newcommandx{\defcomclsgrpcmd}[4][3=, 4=]
                     1170
                          {\csdef{#1}{\txtoargcom{#3#2#4}}}
       \defcomhrc ... to do!
                        • \defcomhrc{CompHierarchy};
                          CompHierarchy[sub][sup][par] = COMPHIERARCHY<sup>SUP</sup><sub>SUB</sub>[PAR]
                        • \defcomhrc{CompHierarchy} [NewHierarchy];
                          {\tt CompHierarchy[sub][sup][par]} = {\tt NEWHIERARCHY^{SUP}_{SUB}[PAR]}
                     1171 \newcommandx{\defcomhrc}[2][2=]
                           {\csdef{#1}{\txtoparcom{\defval{#2}{#1}}}}
                     \Easy, \Hard, ...
                    1174 \cmdtxtcom{Easy}
                     1175 \cmdtxtcom{Hard}
                     1176 \cmdtxtcom{Complete}
                     • \FPT[sub][sup][arg] = FPT_{SUB}^{SUP}(ARG)
       \FPT, \FPL
                        \bullet \FPL[sub][sup][arg] = \mathrm{FPL}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                     1178 \defcomcls{FPT}
                     1179 \defcomcls{FPL}
                     • Time[sub][sup][arg] = TIME_{SUB}^{SUP}(ARG)
       \Time, ...
                          \texttt{\TimeE[sub][sup][arg]} = \text{TIME-EASY}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                          \verb|\TimeH[sub][sup][arg]| = TIME-HARD_{SUB}^{SUP}(ARG)
                          TimeC[sub][sup][arg] = TIME-COMPLETE_{SUB}^{SUP}(ARG)
                        \bullet \ \ \texttt{\baseline}[\mathtt{sub}][\mathtt{sup}][\mathtt{arg}] = \mathrm{DTIME}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{ARG})
                          \DTimeE[sub][sup][arg] = DTIME-EASY_{SUB}^{SUP}(ARG)
                          \texttt{\DTimeH[sub][sup][arg]} = \mathrm{DTIME}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}(\mathrm{ARG})
                          \DTimeC[sub][sup][arg] = DTIME-COMPLETE_{SUB}^{SUP}(ARG)
```

```
• \NTime[sub][sup][arg] = NTIME_{SUB}^{SUP}(ARG)
                        \verb|\NTimeE[sub][sup][arg]| = NTIME-EASY_{SUB}^{SUP}(ARG)
                        \NTimeH[sub][sup][arg] = NTIME-HARD_{SUB}^{SUP}(ARG)
                        \TimeC[sub][sup][arg] = NTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      • \UTime[sub][sup][arg] = UTIME_{SUB}^{SUP}(ARG)
                        \verb|\UTimeE[sub][sup][arg]| = UTime-EASY_{SUB}^{SUP}(ARG)
                        \UTimeH[sub][sup][arg] = UTIME-HARD_{SUB}^{SUP}(ARG)
                        \UTimeC[sub][sup][arg] = UTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      • ATime[sub][sup][arg] = ATIME_{SUB}^{SUP}(ARG)
                        \Delta TimeE[sub][sup][arg] = ATIME-EASY_{SUB}^{SUP}(ARG)
                        \Delta TimeH[sub][sup][arg] = ATIME-HARD_{SUB}^{SUP}(ARG)
                        \verb|\ATimeC[sub][sup][arg]| = ATIME-COMPLETE_{SUB}^{SUP}(ARG)
                  1181 \defcomclsgrp{Time}
  \Space, ...
                      • Space[sub][sup][arg] = Space_{SUB}^{SUP}(ARG)
                        \SpaceE[sub][sup][arg] = SPACE-EASY_{SUB}^{SUP}(ARG)
                        \verb|\SpaceH[sub][sup][arg]| = Space-Hard_{Sub}^{SUP}(ARG)
                        \SpaceC[sub][sup][arg] = SPACE-COMPLETE_{SUB}^{SUP}(ARG)
                      • DSpace[sub][sup][arg] = DSPACE_{SUB}^{SUP}(ARG)
                        \texttt{DSpaceE[sub][sup][arg]} = DSPACE-EASY_{SUB}^{SUP}(ARG)
                        \DSpaceH[sub][sup][arg] = DSPACE-HARD_{SUB}^{SUP}(ARG)
                        \DSpaceC[sub][sup][arg] = DSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                      • NSpace[sub][sup][arg] = NSPACE_{SUB}^{SUP}(ARG)
                        \NSpaceE[sub][sup][arg] = NSPACE-EASY_{SUB}^{SUP}(ARG)
                        \verb|\NSpaceH[sub][sup][arg]| = NSPACE-HARD_{SUB}^{SUP}(ARG)
                        \NSpaceC[sub][sup][arg] = NSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                      • USpace[sub][sup][arg] = USPACE_{SUB}^{SUP}(ARG)
                        \verb|VUSpaceE[sub][sup][arg]| = USPACE-EASY_{SUB}^{SÚP}(ARG)
                        \verb|\USpaceH[sub][sup][arg]| = USPACE-HARD_{SUB}^{SUP}(ARG)
                        \verb|\USpaceC[sub][sup][arg]| = USPACE-COMPLETE_{SUB}^{SUP}(ARG)
                      • ASpace[sub][sup][arg] = ASPACE_{SUB}^{SUP}(ARG)
                        ASpaceE[sub][sup][arg] = ASPACE-EASY_{SUB}^{SUP}(ARG)
                        \verb|\ASpaceH[sub][sup][arg]| = ASPACE-HARD_{SUB}^{SUP}(ARG)
                        \verb|\ASpaceC[sub][sup][arg]| = ASPACE-COMPLETE_{SUB}^{SUP}(ARG)
                  1182 \defcomclsgrp{Space}
                      • \lfloor LogTime[sub][sup][arg] = LogTime_{SUB}^{SUP}(ARG)
\LogTime, ...
                        \lfloor LogTimeE[sub][sup][arg] = LogTime-Easy_{SUB}^{SUP}(ARG)
                        \lceil LogTimeH[sub][sup][arg] = LogTime-Hard_{SUB}^{SUP}(Arg)
                        \lceil LogTimeC[sub][sup][arg] = LogTime-Complete_{SUB}^{SUP}(ARG)
                      • \DLogTime[sub][sup][arg] = DLogTime_{SUB}^{SUP}(ARG)
                        \label{eq:decomposition} $$\DLogTimeE[sub][sup][arg] = DLogTime-EASY_{SUB}^{SUP}(ARG)$
                        \DLogTimeH[sub][sup][arg] = DLOGTIME-HARD_{SUB}^{SUP}(ARG)
                        \DLogTimeC[sub][sup][arg] = DLogTime-COMPLETE_{SUB}^{SUP}(ARG)
                      • \NLogTime[sub][sup][arg] = NLogTime_{SUB}^{SUP}(ARG)
                        \NLogTimeE[sub][sup][arg] = NLogTime-EASY_{SUB}^{SUP}(ARG)
                        \NLogTimeH[sub][sup][arg] = NLogTime-HARD_{SUB}^{SUP}(ARG)
                        \NLogTimeC[sub][sup][arg] = NLogTime-COMPLETE_{SUB}^{SUP}(ARG)
                      \label{eq:ULogTimeEsub} $$\operatorname{ULogTime-EASY}^{SUP}_{SUB}(ARG)$$
                        \ULogTimeH[sub][sup][arg] = ULogTime-HARD_{SUB}^{SUP}(ARG)
                        \ULogTimeC[sub][sup][arg] = ULogTIME-COMPLETE_{SUB}^{SUP}(ARG)
                      • ALogTime[sub][sup][arg] = ALogTime_{SUB}^{SUP}(ARG)
                        \verb|\ALogTimeE[sub][sup][arg]| = ALOGTIME-EASY_{SUB}^{SUP}(ARG)
                        \ALogTimeH[sub][sup][arg] = ALogTime-HARD_{SUB}^{SUP}(ARG)
                        \verb|\ALogTimeC[sub][sup][arg]| = ALOGTIME-COMPLETE_{SUB}^{SUP}(ARG)
                  1183 \defcomclsgrp{LogTime}
```

```
• \LogSpace[sub][sup][arg] = LogSpace<sub>Sub</sub>(Arg)
\LogSpace, ...
                           \verb|\LogSpaceE[sub][sup][arg]| = \operatorname{LogSpace-Easy}^{SUP}_{SUB}(\operatorname{Arg})
                           \LogSpaceH[sub][sup][arg] = LogSpace-Hard_{SUB}^{SUP}(Arg)
                           LogSpaceC[sub][sup][arg] = LogSpace-Complete_{Sub}^{SUP}(Arg)
                         • \DLogSpace[sub][sup][arg] = DLogSpace[sub](ARG)
                           \label{eq:decomposition} $$\DLogSpaceE[sub][sup][arg] = DLogSpace-Easy_{SUB}^{SUP}(ARG)$
                           \verb|\DLogSpaceH[sub][sup][arg]| = DLogSpace-Hard_{SUB}^{SUP}(ARG)
                           \verb|\DLogSpaceC[sub][sup][arg]| = DLogSpace-Complete_{Sub}^{Sup}(ARG)
                         • \NLogSpace[sub][sup][arg] = NLogSpace[sub](ARG)
                           \NLogSpaceE[sub][sup][arg] = NLogSpace-Easy_{SUB}^{SUP}(ARG)
                           \verb|\NLogSpaceH[sub][sup][arg]| = NLogSpace-Hard_{SUB}^{SUP}(ARG)
                           \NLogSpaceC[sub][sup][arg] = NLogSpace-Complete_{SUB}^{SUP}(ARG)
                         • \ULogSpace[sub][sup][arg] = ULogSpace_{SUB}^{SUP}(ARG)
                           \ULogSpaceE[sub][sup][arg] = ULogSpace-Easy_{SUB}^{SUP}(ARG)
                           \verb|\ULogSpaceH[sub][sup][arg]| = ULogSpace-Hard_{SUB}^{SUP}(ARG)
                           \ULogSpaceC[sub][sup][arg] = ULogSpace-Complete_{SUB}^{SUP}(ARG)
                         \bullet \ \ \texttt{ALogSpace[sub][sup][arg]} = \mathrm{ALogSpace}^{\mathtt{SUP}}_{\mathtt{SUB}}(\mathtt{ARG})
                           \verb|\ALogSpaceE[sub][sup][arg]| = ALogSpace-easy_{SUB}^{SUP}(ARG)
                           \verb|\ALogSpaceH[sub][sup][arg]| = ALogSpace-Hard_{SUB}^{SUP}(ARG)
                           \Lambda LogSpaceC[sub][sup][arg] = ALogSpace-complete_{Sub}^{SUP}(Arg)
                    1184 \defcomclsgrp{LogSpace}
                         • \P [sub] [sup] [arg] = \Pr [MESUB (ARG)
   \PTime, ...
                           \PTimeE[sub][sup][arg] = PTIME-EASY_{SUB}^{SUP}(ARG)
                           \label{eq:ptimeH} $$ \Pr[\sup] [\arg] = \Pr[\operatorname{HARD}^{SUP}_{SUB}(\operatorname{ARG}) $$
                           \PTimeC[sub][sup][arg] = PTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • \DPTime[sub][sup][arg] = DPTIME_{SUB}^{SUP}(ARG)
                           \verb|\DPTimeE[sub][sup][arg]| = \mathrm{DPTIME\text{-}EASY}^{SUP}_{SUB}(ARG)
                           \label{eq:def:DPTimeH} $$ \operatorname{DPTIME-HARD}_{SUB}^{SUP}(ARG) = \operatorname{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)
                           \verb|\NPTimeH[sub][sup][arg]| = NPTIME-HARD_{SUB}^{SUP}(ARG)
                           \label{eq:nptimeC} $$ \PTimeC[sub][sup][arg] = \PTime-COMPLETE_{SUB}^{SUP}(ARG) $$
                         \verb| UPTimeE[sub][sup][arg] = UPTIME-EASY_{SUB}^{SUP}(ARG)
                           \label{eq:uptimeH} $$ \UPTimeH[sub][sup][arg] = UPTIME-HARD_{SUB}^{SUP}(ARG) $$
                           \UPTimeC[sub][sup][arg] = UPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                         • APTime[sub][sup][arg] = APTIME_{SUB}^{SUP}(ARG)
                           \APTimeE[sub][sup][arg] = APTIME-EASY_{SUB}^{SUP}(ARG)
                           \APTimeH[sub][sup][arg] = APTIME-HARD_{SUB}^{SUP}(ARG)
                           \APTimeC[sub][sup][arg] = APTIME-COMPLETE_{SUB}^{SUP}(ARG)
                    1185 \defcomclsgrp{PTime}
                         • \PSpace[sub][sup][arg] = PSPACE_{SUB}^{SUP}(ARG)
  \PSpace, ...
                           \PSpaceE[sub][sup][arg] = PSPACE-EASY_{SUB}^{SUP}(ARG)
                           \label{eq:pspaceH} $$ \PSpaceH[sub] [sup] [arg] = PSpace-HARD_{SUB}^{SUP}(ARG) 
                           \PSpaceC[sub][sup][arg] = PSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \DPSpace[sub][sup][arg] = DPSPACE_{SUB}^{SUP}(ARG)
                           \label{eq:decomposition} $$ \DPSpaceE[sub][sup][arg] = DPSpace-EASY_{SUB}^{SUP}(ARG) $$
                           \verb|\DPSpaceH[sub][sup][arg]| = \mathrm{DPSPACE-HARD}^{SUP}_{SUB}(ARG)
                           \DPSpaceC[sub][sup][arg] = DPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \NPSpace[sub][sup][arg] = NPSPACE_{SUB}^{SUP}(ARG)
                           \NPSpaceE[sub][sup][arg] = NPSPACE-EASY_{SUB}^{SUP}(ARG)
                           \NPSpaceH[sub][sup][arg] = NPSPACE-HARD_{SUB}^{SUP}(ARG)
                           \NPSpaceC[sub][sup][arg] = NPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                         • \UPSpace[sub][sup][arg] = UPSPACE_{SUB}^{SUP}(ARG)
                           \verb| UPSpaceE[sub][sup][arg] = UPSpace-easy_{sub}^{SUP}(ARG)
                           \UPSpaceH[sub][sup][arg] = UPSPACE-HARD_{SUB}^{SUP}(ARG)
```

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

```
\verb|\APSpaceE[sub][sup][arg]| = APSPACE-EASY_{SUB}^{SUP}(ARG)
                         APSpaceH[sub][sup][arg] = APSPACE-HARD_{SUB}^{SUP}(ARG)
                         APSpaceC[sub][sup][arg] = APSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                  1186 \defcomclsgrp{PSpace}
                       \QPTime, ...
                         \label{eq:QPTimeEsub} $$ [\sup] [arg] = \mathrm{QPTIME\text{-}EASY}^{SUP}_{SUB}(ARG) $$
                         \label{eq:qptimeH} $$\operatorname{QPTIME-HARD}^{SUP}_{SUB}(ARG)$$
                         \QPTimeC[sub][sup][arg] = QPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \DQPTime[sub][sup][arg] = DQPTIME_{SUB}^{SUP}(ARG)
                         \label{eq:def-DQPTimeEsub} $$ \DQPTimeE[sub][sup][arg] = DQPTIME-EASY_{SUB}^{SUP}(ARG) $$
                         \DQPTimeH[sub][sup][arg] = DQPTIME-HARD_{SUB}^{SUP}(ARG)
                         \DQPTimeC[sub][sup][arg] = DQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \verb|\NQPTimeE[sub][sup][arg]| = NQPTIME\text{-}EASY_{SUB}^{SUP}(ARG)
                         \verb|\NQPTimeH[sub][sup][arg]| = NQPTIME-HARD_{SUB}^{SUP}(ARG)
                         \NQPTimeC[sub][sup][arg] = NQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UQPTime[sub][sup][arg] = UQPTIME_{SUB}^{SUP}(ARG)
                         \label{eq:uqptime} $$\UQPTimeE[sub][sup][arg] = UQPTIME-EASY_{SUB}^{SUP}(ARG)$
                         \verb|\UQPTimeH[sub][sup][arg]| = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}(ARG)
                         \label{eq:uqptimeC} $$ \UQPTimeC[sub][sup][arg] = UQPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                       • AQPTime[sub][sup][arg] = AQPTIME_{SUB}^{SUP}(ARG)
                         \texttt{AQPTimeE[sub][sup][arg]} = AQPTIME-EASY_{SUB}^{SUP}(ARG)
                         \verb|\AQPTimeH[sub][sup][arg]| = \mathrm{AQPTIME-HARD}^{SUP}_{SUB}(\mathrm{ARG})
                         \triangle QPTimeC[sub][sup][arg] = AQPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                   1187 \defcomclsgrp{QPTime}
                       • \QPSpace[sub][sup][arg] = QPSPACE_{SUB}^{SUP}(ARG)
\QPSpace, ...
                         \QPSpaceE[sub][sup][arg] = QPSpace-EASY_{SUB}^{SUP}(ARG)
                         \label{eq:QPSpaceH} $$ \QPSpaceH[sub][sup][arg] = QPSpace-HARD_{SUB}^{SUP}(ARG) $$
                         \QPSpaceC[sub][sup][arg] = QPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \DQPSpace[sub][sup][arg] = DQPSPACE_{SUB}^{SUP}(ARG)
                         \texttt{DQPSpaceE[sub][sup][arg]} = DQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \DQPSpaceH[sub][sup][arg] = DQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \verb|\DQPSpaceC[sub][sup][arg]| = DQPSpace-complete_{sub}^{SUP}(ARG)
                       • \NQPSpace[sub][sup][arg] = NQPSPACE_{SUB}^{SUP}(ARG)
                         \NQPSpaceE[sub][sup][arg] = NQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \NQPSpaceH[sub][sup][arg] = NQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \verb|NQPSpaceC[sub][sup][arg]| = NQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                       • \UQPSpace[sub][sup][arg] = UQPSPACE_{SUB}^{SUP}(ARG)
                         \verb|VQPSpaceE[sub][sup][arg]| = UQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \UQPSpaceH[sub][sup][arg] = UQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \label{eq:UQPSpaceCsub} $$ \UQPSpaceC[sub] [sup] [arg] = UQPSpace-COMPLETE_{SUB}^{SUP}(ARG) $$
                       • AQPSpace[sub][sup][arg] = AQPSPACE_{SUB}^{SUP}(ARG)
                         \triangle QPSpaceE[sub][sup][arg] = AQPSPACE-EASY_{SUB}^{SUP}(ARG)
                         \triangle QPSpaceH[sub][sup][arg] = AQPSPACE-HARD_{SUB}^{SUP}(ARG)
                         \triangle QPSpaceC[sub][sup][arg] = AQPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                  1188 \defcomclsgrp{QPSpace}
                       • \texttt{ExpTime[sub][sup][arg]} = \texttt{EXPTIME}^{\texttt{SUP}}_{\texttt{SUB}}(\texttt{ARG})
\ExpTime, ...
                         \ExpTimeE[sub][sup][arg] = EXPTIME-EASY_{SUB}^{SUP}(ARG)
                         \texttt{\colored}[sub][sup][arg] = ExpTime-Hard_{SUB}^{SUP}(ARG)
                         \verb|\ExpTimeC[sub][sup][arg]| = EXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                       \label{eq:decomposition} $$ \DEXPTIME-EASY_{SUB}^{SUP}(ARG) = DEXPTIME-EASY_{SUB}^{SUP}(ARG) $$
                         \texttt{\DExpTimeH[sub][sup][arg]} = DEXPTIME-HARD_{SUB}^{SUP}(ARG)
                         \verb|\DExpTimeC[sub][sup][arg]| = DEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
```

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

```
\verb|\NExpTimeE[sub][sup][arg]| = NEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                              \label{eq:newpower} $$ \NEXPTIME-HARD_{SUB}^{SUP}(ARG) = NEXPTIME-HARD_{SUB}^{SUP}(ARG) $$
                                              \label{eq:newpower} $$ \NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG) = NEXPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                                          • \UExpTime[sub][sup][arg] = UEXPTIME_{SUB}^{SUP}(ARG)
                                              \verb|\UExpTimeE[sub][sup][arg]| = UEXPTIME-EASY_{SUB}^{SUP}(ARG)
                                              \verb|\UExpTimeH[sub][sup][arg]| = UEXPTIME-HARD_{SUB}^{SUP}(ARG)
                                              \label{eq:uexpTimeC} $$ \UEXPTIME-COMPLETE_{SUB}^{SUP}(ARG) $$
                                          • \Delta ExpTime[sub][sup][arg] = AEXPTIME_{SUB}^{SUP}(ARG)
                                              \verb|\AExpTimeE[sub][sup][arg]| = AEXPTIME-EASY_{SUB}^{SUB}(ARG)
                                              \AExpTimeH[sub][sup][arg] = AEXPTIME-HARD_{SUB}^{SUP}(ARG)
                                              \triangle ExpTimeC[sub][sup][arg] = AEXPTIME-COMPLETE_{SUB}^{SUP}(ARG)
                                   1189 \defcomclsgrp{ExpTime}
\ExpSpace, ...
                                          • \ExpSpace[sub][sup][arg] = EXPSPACE_{SUB}^{SUP}(ARG)
                                              \verb|\ExpSpaceE[sub][sup][arg]| = ExpSpace-Easy_{SUB}^{SUP}(ARG)
                                              \verb|\ExpSpaceH[sub][sup][arg]| = ExpSpace-Hard_{Sub}^{SUP}(ARG)
                                              \ExpSpaceC[sub][sup][arg] = ExpSpace-Complete_{SUB}^{SUP}(ARG)
                                          • \DExpSpace[sub][sup][arg] = DExpSpace_{SUB}^{SUP}(ARG)
                                              \verb|\DExpSpaceE[sub][sup][arg]| = DExpSpace-Easy_{SUB}^{SUP}(ARG)
                                              \texttt{\DExpSpaceH[sub][sup][arg]} = \text{DExpSpace-Hard}^{\text{SUP}}_{\text{SUB}}(\text{Arg})
                                              \label{eq:decomplete_sup} $$ \DEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG) $$
                                          • \NExpSpace[sub][sup][arg] = NExpSpace[sub](ARG)
                                              \label{eq:new_new_sup} $$ \NExpSpaceE[sub][sup][arg] = NExpSpace-Easy_{SUB}^{SUP}(ARG) $$
                                              \label{eq:new_new_new_new_new_new} $$ \NEXPSPACE-HARD_{SUB}^{SUP}(ARG) $$ $$ \ARG_{SUB}^{SUP}(ARG) $$ $$ $$ \ARG_{SUB}^{SUP}(ARG) $$ $$ \ARG
                                              \NExpSpaceC[sub][sup][arg] = NEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                          • \UExpSpace[sub][sup][arg] = UExpSpace[sub](ARG)
                                              \verb|\UExpSpaceE[sub][sup][arg]| = UEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                                              \verb|\UExpSpaceH[sub][sup][arg]| = UEXPSPACE-HARD_{SUB}^{SUP}(ARG)
                                              \UExpSpaceC[sub][sup][arg] = UExpSpace-Complete_{SUB}^{SUP}(ARG)
                                          • \triangle ExpSpace[sub][sup][arg] = AExpSpace_{SUB}^{SUP}(ARG)
                                              \Delta ExpSpaceE[sub][sup][arg] = AEXPSPACE-EASY_{SUB}^{SUP}(ARG)
                                              \texttt{AExpSpaceH[sub][sup][arg]} = \text{AExpSpace-HARD}^{\text{SUP}}_{\text{SUB}}(\text{ARG})
                                              \verb|\AExpSpaceC[sub][sup][arg]| = AEXPSPACE-COMPLETE_{SUB}^{SUP}(ARG)
                                   1190 \defcomclsgrp{ExpSpace}
                                   \PH
                                          • \PH[sub][sup][par] = PH_{SUB}^{SUP}[PAR]
                                   1192 \defcomhrc{PH}
                        \WH
                                          • \WH[sub][sup][par] = W_{SUB}^{SUP}[PAR]
                                   1193 \defcomhrc{WH}[W]
                                          \bullet \ \ \texttt{\AH[sub][sup][par]} \ = \ A^{\text{\tiny SUP}}_{\text{\tiny SUB}}[\text{\tiny PAR}]
                        \AH
                                   1194 \defcomhrc{AH}[A]
        \DLH, \DBH
                                          • \DLH[sub][sup][par] = \Delta_{\text{SUB}}^{\text{SUP}}[PAR]
                                          ullet \DBH[sub][sup][par] = oldsymbol{\Delta}_{	ext{SUB}}^{	ext{SUP}}[	ext{PAR}]
                                   1195 \defcomhrc{DLH}[{\mth{\Delta}}]
                                   1196 \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}]
                                   1197 \defcomhrc{ELH}[{\mth{\Sigma}}]
                                   1198 \defcomhrc{EBH}[{\mth[mathbf]{\Sigma}}]
                                          • \ULH[sub][sup][par] = \Pi_{\text{SUB}}^{\text{SUP}}[PAR]
        \ULH, \UBH
```

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

```
ullet \UBH[sub][sup][par] = oldsymbol{\Pi}^{	ext{SUP}}_{	ext{SUB}}[	ext{PAR}]
              1199 \defcomhrc{ULH}[{\mth{\Pi}}]
              1200 \defcomhrc{UBH}[{\mth[mathbf]{\Pi}}]
              1201 \fi
              1206 \ifgam@
              \SATG, ... ...
             1208 %% Satisfiability Games
              1209 \cmdtxtoparname{SATG}[Sat]
             1210
             1211 %% Validity Games
             1212 \cmdtxtoparname{VALG}[Val]
             1214 %% Evaluation Games
             1215 \cmdtxtoparname{EVLG}[Evl]
              1217 %% Synthesis Games
              1218 \cmdtxtoparname{SYNG}[Syn]
              1220 %% Model-Checking Games
              1221 \cmdtxtoparname{MCG} [MC]
              1222
              1223 %% Ehrenfeucht-Fraisse Games
              1224 \cmdtxtoparname{EFG} [EF]
              \PlrSym, \OppSym
              1226 \newcommand{\plrsym}{E}
              1227 \cmdmthsym{Plr}[\plrsym]
              1228 \mbox{ } \mbox{newcommand{\oppsym}{A}}
              1229 \cmdmthsym{Opp} [\oppsym]
\ArenaName, ... ...
              1230 \newcommand{\arenaname}{A}
              1231 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
   \PosSet, ... ...
              1232 \neq 1232 \leq 1232 
              1233 \neq \{Ps\}
              1234 \cmdmthsetext{Pos}[\posset][\possym]
              1235 \cmdmthsymelm{ipos}[\possym_{I}]
              1236 \cmdmthsymelm{fpos}[\possym_{F}]
              1237 \cmdmthset{PPos} [\posset_{\PlrSym}]
              1238 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
              1239 \cmdmthset{OPos}[\posset_{\OppSym}]
             1240 \cmdmthsymelm{opos}[\possym_{\OppSym}]
      \PlrFun ...
              1241 \newcommand{\plrfun}{pl}
              1242 \cmdmthfun{plr}[\plrfun]
      \MovRel ...
              1243 \mbox{ } \mbox{newcommand{\mbox{movrel}{Mv}}
              1244 \cmdmthrel{Mov}[\movrel]
```

```
\GameName, ...
                   1245 \mbox{ \newcommand{\gamename}{\Game}}
                   1246 \verb|\usrmth| latupp{Game}{Name}{[name]} [\uberline]
          \WinSet
                   1247 \mbox{ \newcommand{\winset}{Wn}}
                   1248 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun ...
                   1249 \newcommand{\obsset}{Ob}
                   1250 \cmdmthset{Obs}[\obsset]
                   1251 \cmdmthfun{obs}
                   \PthSet, \pthFun
                   1253 \newcommand{\pthsym}{\pi}
                   1254 \newcommand{\pthset}{Pth}
                   1255 \cmdmthsetext{Pth}[\pthset][\pthsym]
                   1256 \usrmth{path}{}{argfun}
    \HstSet, ...
                   1257 \newcommand{\hstsym}{\varpi}
                   1258 \newcommand{\hstset}{Hst}
                   1259 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1260 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1261 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1262 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1263 \verb|\cmdmthsymelm{ohst}[\hstsym_{\colored}]|
                   1264 \usrmth{play}{}{argfun}
\PlaySet,\playFun
                   1265 \verb|\newcommand{\playsym}{\pi}
                   1266 \verb|\newcommand{\playset}{Play}|
                   1267 \cmdmthsetext{Play}[\playset][\playsym]
                   1268 \usrmth{hst}{}{argfun}
    \StrSet, ... ...
                   1269 \newcommand{\strsym}{\sigma}
                   1270 \newcommand{\strset}{Str}
                   1271 \cmdmthsetext{Str}[\strset][\strsym]
                   1272 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1273 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1274 \verb|\cmdmthset{OStr}[\strset_{\oppSym}]|
                   1275 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
\PrfSet, \prfFun
                   1276 \newcommand{\prfsym}{\xi}
                   1277 \newcommand{\prfset}{Prf}
                   1278 \cmdmthsetext{Prf}[\prfset][\prfsym]
       \pre, \suc
                   1279 \usrmth{pre}{}{oargfun}
                   1280 \usrmth{suc}{}{oargfun}
       \ent, \esc
                   1281 \usrmth{ent}{}{oargfun}
                   1282 \usrmth{esc}{}{oargfun}
       \int, \out
                   1283 \usrmth{int}{}{oargfun}
                   1284 \usrmth{out}{}{oargfun}
```

```
\atr, \rch ...
             1285 \usrmth{atr}{}{oargfun}
             1286 \mbox{ }\mbox{cmth{rch}{}\sc }\mbox{oargfun}
        \lift ...
             1287 \usrmth{lift}{}{oargfun}
        \sol ...
             1288 \usrmth{sol}{}{oargfun}
             \BG, ... ...
             1290 %% Buchi Games
             1291 \cmdtxtoparname{BG}
             1293 %% Co-Buchi Games
             1294 \cmdtxtoparname{CG}
             1296 %% Parity Games
             1297 \cmdtxtoparname{PG}
             1298
             1299 %% Rabin Games
             1300 \cmdtxtoparname{RG}
             1302 %% Streett Games
             1303 \cmdtxtoparname{SG}
             1304
             1305 %% Muller Games
             1306 \cmdtxtoparname{MG}
             \EvnSym, \OddSym
             1308 \newcommand{\evnsym}{0}
             1309 \cmdmthsym{Evn}[\evnsym]
             1310 \mbox{ } \mbox{newcommand{\oddsym}{1}}
             1311 \cmdmthsym{Odd} [\oddsym]
\PrtSet, \prtFun ...
             1312 \newcommand{\prtsym}{p}
             1313 \newcommand{\prtset}{Pr}
             1314 \cmdmthsetext{Prt}[\prtset][\prtsym]
             1315 \cmdmthfun{prt}[pr]
             \EG, ... ...
             1318 %% Energy Games
             1319 \cmdtxtoparname{EG}
             1321 %% Mean-Payoff Games
             1322 \cmdtxtoparname{MPG}
             1323
             1324 %% Discounted-Payoff Games
             1325 \cmdtxtoparname{DPG}
```

```
\MaxSym, \MinSym
            1327 \mbox{ \maxsym}{\oplus}
            1328 \cmdmthsym{Max}[\maxsym]
            1329 \newcommand{\minsym}{\boxminus}
            1330 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun
            1331 \newcommand{\wghsym}{w}
            1332 \neq \{ \g \}
            1333 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
            1334 \cmdmthfun{wgh} [wg]
            1336 \fi
            1341 \iflog@
            \BF, \QBF, ... ...
            1343 % Boolean Formulae
            1344 \cmdtxtoparname{BF}
            1346 % Quantified Boolean Formulae
            1347 \DeclareRobustCommand{\QBF}
                {{\txtname{Q}}\BF}
            1349 \DeclareRobustCommand{\EBF}
                {\ensuremath{\exists}\BF}
            1351 \DeclareRobustCommand{\UBF}
            1352 {\ensuremath{\forall}\BF}
            \LogSig, ...
            1354 \neq \{\lfloor logsig \} \{L\}
            1355 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
     \Tt, \Ff ...
            1356 \mbox{ \newcommand{\ttsym}{\top}}
            1357 \usrmth{Tt}{}{sym}[\ttsym]
            1358 \newcommand{\ffsym}{\bot}
            1359 \operatorname{fff}(sym)[ffsym]
  \LNeg, \LNot ...
            1360 \newcommand{\lnegsym}{\neg}
            1361 \usrmth{LNeg}{}{luop}[\lnegsym]
            1362 \newcommand{\lnotsym}{\sim}
            1363 \usrmth{LNot}{}{luop}[\lnotsym]
  \LCon, \LDis ...
            1364 \newcommand{\lconsym}{\land}
            1365 \usrmth{LCon}{}{lbop}[\lconsym]
            1366 \newcommand{\ldissym}{\lor}
            1367 \usrmth{LDis}{}{lbop}[\ldissym]
  \LImp, \LCoi
            1368 \newcommand{\limpsym}{\rightarrow}
            1369 \usrmth{LImp}{}{lbop}[\limpsym]
            1370 \newcommand{\lcoisym}{\leftrightarrow}
            1371 \usrmth{LCoi}{}{lbop}[\lcoisym]
```

```
\LExs, \LA11 ...
                 1372 \newcommand{\lexssym}{\exists}
                 1373 \usrmth{LExs}{}{luop}[\lexssym]
                 1374 \newcommand{\lallsym}{\forall}
                 1375 \usrmth{LAll}{}{luop}[\lallsym]
     \APSet, ... ...
                 1376 \newcommand{\apsym}{p}
                 1377 \newcommand{\apset}{AP}
                 1378 \cmdmthsetext{AP}[\apset][\apsym]
                 1379 \usrmth{ap}{}{argfun}
           \sub ...
                 1380 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
                 1381 \usrmth{Cnt}{}{sym}[C]
                 1382 \usrmth{Qnt}{}{sym}[Q]
                 1383 \operatorname{sym}{{\text{sym}}[\cdot]}
      \QAE, \QEA ...
                 1384 \usrmth{QAE}{}{sym}[\forall\exists]
                 1385 \usrmth{QEA}{}{sym}[\exists\forall]
    \QntSet, ... ...
                 1386 \newcommand{\qntsym}{\wp}
                 1387 \newcommand{\qntset}{Qn}
                 1388 \cmdmthsetext{Qnt}[\qntset][\qntsym]
   \free, \bound ...
                 1389 \usrmth{free}{}{argfun}
                 1390 \usrmth{bound}{}{argfun}
      \dep, \alt ...
                 1391 \sl {dep}{{argfun}}
                 1392 \usrmth{alt}{}{argfun}
 \cnf, \dnf, ... ...
                 1393 \cmdtxtabr{cnf}
                 1394 \cmdtxtabr{dnf}
                 1395 \cmdtxtabr{pnf}
                 1396 \cmdtxtabr{nnf}
                 \LogStr, ... ...
                 1398 \mbox{logstr}{L}
                 1399 \usrmthlatupp{Log}{Str}{str}[\logstr]
    \ValSet, ... ...
                 1400 \newcommand{\valsym}{\xi}
                 1401 \newcommand{\valset}{Val}
                 1402 \verb|\cmdmthsetext{Val}|[\verb|\valset|]| [\valsym]|
    \AsgSet, ... ...
                 1403 \mbox{ \newcommand{\asgsym}{\chi}}
                 1404 \verb|\newcommand{\asgset}{Asg}|
                 1405 \verb|\cmdmthsetext{Asg}| [\verb|\asgset|] [\verb|\asgsym|]|
```

```
\FOL, ... ...
              1407 % First-Order Logic
              1408 \cmdtxtoparname{FOL} [Fol]
              1409 \cmdtxtoparname{F0}[F0]
              1410
              1411 % Monadic First-Order Logic
              1412 \DeclareRobustCommand{\MFOL}
              1413 \{\{\text{txtname}\{M\}\}\}\}
              1414 \DeclareRobustCommand{\MFO}
              1415 \{\{\text{txtname}\{M\}\}\F0\}
              \VarSig, ... ...
             1417 \newcommand{\varsig}{V}
             1418 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
              1419 \newcommand{\varsym}{x}
              1420 \newcommand{\varset}{Vr}
              1421 \cmdmthsetext{Var}[\varset][\varsym]
              1422 \usrmth{var}{}{argfun}[vr]
              1423 \usrmth{dim}{}{argfun}[dm]
\ConSig, ... ...
             1424 \newcommand{\consig}{C}
              1425 \verb|\usrmth|| atupp{Con}{Sig}{sig}[\consig]
              1426 \mbox{ }\mbox{consym}{c}
              1427 \mbox{ } \mbox{conset}{Cn}
              1428 \cmdmthsetext{Con}[\conset][\consym]
              1429 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
             1430 \newcommand{\funsig}{F}
              1431 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
              1432 \mbox{ newcommand{\{\f nsym}{f}}
              1433 \newcommand{\funset}{Fn}
              1434 \cmdmthsetext{Fun}[\funset][\funsym]
              1435 \usrmth{fun}{}{argfun}[fn]
              1436 \usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
              1437 \newcommand{\tersig}{T}
              1438 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
              1439 \rightarrow \{t\}
              1440 \mbox{ } \mbox{\command{\terset}{Tr}}
              1441 \verb|\cmdmthsetext{Ter}| [\verb|\terset|]| [\verb|\tersym|]|
             1442 \usrmth{ter}{}{argfun}
\RelSig, ... ...
             1443 \newcommand{\relsig}{R}
              1444 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
              1445 \mbox{ } \mbox{newcommand{\relsym}{r}}
              1446 \newcommand{\relset}{R1}
              1447 \cmdmthsetext{Rel}[\relset][\relsym]
              1448 \usrmth{rel}{}{argfun}[rl]
        \skm ...
              1449 \usrmth{skm}{}{argfun}
              \ConStr, ... ...
              1451 \mbox{newcommand{\constr}{C}}
              1452 \usrmthlatupp{Con}{Str}{str}[\constr]
```

```
\FunStr, ... ...
                                                            1453 \mbox{ } \mbox{unstr}{F}
                                                            1454 \verb|\usrmth|| 1454
       \TerStr, ... ...
                                                            1455 \mbox{ } \mbox
                                                            1456 \usrmthlatupp{Ter}{Str}{str}[\terstr]
       \RelStr, ... ...
                                                           1457 \newcommand{\relstr}{R}
                                                            1458 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                                                             \DF, \IF, ... ...
                                                            1460 % Dependence-Friendly Logic
                                                            1461 \cmdtxtoparname{DF}
                                                            1462
                                                            1463 % Independence-Friendly Logic
                                                            1464 \cmdtxtoparname{IF}
                                                            1466 % Dependence/Independence-Friendly Logic
                                                             1467 \cmdtxtoparname{DIF}
                                                            1469 % Dependence Logic
                                                            1470 \cmdtxtoparname{DL}
                                                            1471
                                                            1472 % Team Logic
                                                            1473 \cmdtxtoparname{TL}
                                                            1475 % Alternating Dependence-Friendly Logic
                                                            1476 \cmdtxtoparname{ADF}
                                                             1478 % Alternating Independence-Friendly Logic
                                                             1479 \cmdtxtoparname{AIF}
                                                             1481 % Alternating Dependence/Independence-Friendly Logic
                                                             1482 \cmdtxtoparname{ADIF}
                                                             \LEExs, \LAA11
                                                             1484 \newcommand{\leexssym}{\Sigma}
                                                             1485 \usrmth{LEExs}{}{luop}[\leexssym]
                                                             1486 \mbox{ \newcommand{\laallsym}{\Pi}}
                                                             1487 \usrmth{LAA11}{}{luop}[\laallsym]
                                                             \SOL, ...
                                                            1490 % Second-Order Logic
                                                            1491 \cmdtxtoparname{SOL}[Sol]
                                                            1492 \cmdtxtoparname{SO}
                                                            1493
                                                            1494 % Weak Second-Order Logic
                                                            1495 \DeclareRobustCommand{\WSOL}
                                                             1496 \{\{\text{w}}\
                                                             1497 \DeclareRobustCommand{\WSO}
                                                             1498 \{\{\text{txtname}\{W\}\}\S0\}
```

```
1500 % coWeak Second-Order Logic
             1501 \DeclareRobustCommand{\coWSOL}
             1502 \{\{\text{txtname}\{\text{coW}\}\}\}
             1503 \DeclareRobustCommand{\coWSO}
                  {{\txtname{coW}}\SO}
             1504
             1505
             1506 % Monadic Second-Order Logic
             1507 \DeclareRobustCommand{\MSOL}
                  {{\txtname{M}}\SOL}
             1509 \DeclareRobustCommand{\MSO}
                  {\{\text{txtname}\{M\}}\S0\}
             1511
             1512 % Weak Monadic Second-Order Logic
             1513 \DeclareRobustCommand{\WMSOL}
                  {{\txtname{W}}\MSOL}
             1515 \DeclareRobustCommand{\WMSO}
                  {{\txtname{W}}\MSO}
             1516
             1517
             1518 % coWeak Monadic Second-Order Logic
             1519 \DeclareRobustCommand{\coWMSOL}
                  {{\txtname{coW}}\MSOL}
             1521 \DeclareRobustCommand{\coWMSO}
             1522 \{\{\text{txtname}\{\text{coW}\}\}\}
             \FVarSet, ...
             1524 \newcommand{\fvarsym}{x}
             1525 \newcommand{\fvarset}{FVr}
             1526 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ...
             1527 \newcommand{\svarsym}{X}
             1528 \newcommand{\svarset}{SVr}
             1529 \cmdmthsetext{SVar}[\svarset][\svarsym]
             \TL, \PL, ...
             1532 % Tree Logic
             1533 \cmdtxtoparname{TL}
             1534
             1535\,\mathrm{\%} Weak Tree Logic
             1536 \DeclareRobustCommand{\WTL}
             1537
                   {\{\text{Xtname}\{W\}}\TL\}
             1538
             1539 % coWeak Tree Logic
             1540 \DeclareRobustCommand{\coWTL}
                   {{\txtname{coW}}\TL}
             1541
             1542
             1543 % Monadic Tree Logic
             1544 \DeclareRobustCommand{\MTL}
                   {\{\text{Xtname}\{M\}\}\}\}
             1545
             1546
             1547 % Weak Monadic Tree Logic
             1548 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1549
             1550
             1551 % coWeak Monadic Tree Logic
             1552 \DeclareRobustCommand{\coWMTL}
```

1499

```
{{\txtname{coW}}\MTL}
             1554
             1555 % Path Logic
             1556 \cmdtxtoparname{PL}
             1558 % Weak Path Logic
             1559 \DeclareRobustCommand{\WPL}
                  {\{\text{txtname}\{W\}}\PL\}
             1560
             1561
             1562 % coWeak Path Logic
             1563 \DeclareRobustCommand{\coWPL}
                  {\{\text{coW}}\
             1565
             1566 % Monadic Path Logic
             1567 \verb|\DeclareRobustCommand{\MPL}|
                  {\{\text{txtname}\{M\}}\PL\}
             1568
             1569
             1570 % Weak Monadic Path Logic
             1571 \DeclareRobustCommand{\WMPL}
                  {{\txtname{W}}\MPL}
             1573
             1574 % coWeak Monadic Path Logic
             1575 \DeclareRobustCommand{\coWMPL}
                 {\{\text{txtname}\{\text{coW}\}\}}\
             \ML, \GML, ...
             1580 % Modal Logic
             1581 \cmdtxtoparname{ML}
             1583 % Graded Modal Logic
             1584 \DeclareRobustCommand{\GML}
             1585 \{\{\text{txtname}\{G\}\}\}
             1586
             1587 % Quantified Modal Logic
             1588 \DeclareRobustCommand{\QML}
                 {\{\text{txtname}\{Q\}\}\}ML}
             1590 \DeclareRobustCommand{\EML}
                 {\ensuremath{\exists}\ML}
             1592 \DeclareRobustCommand{\UML}
                 {\ensuremath{\forall}\ML}
             \Opr ...
             1595 \usrmth{Opr}{}{sym}[Op]
 \DMod, \BMod
             1596 \usrmth{DMod}{}{sym}[\Diamond]
             1597 \usrmth{BMod}{}{sym}[\Box]
   \Exs, \All
             1598 \DeclareRobustCommand{\Exs}
                 {\@ifstar{\@sexs}{\@exs}}
             1600 \DeclareRobustCommand{\@sexs}[1]
                 {\mth{\DMod}[#1]}
             1602 \DeclareRobustCommand{\@exs}[1]
```

```
{\mth{\defval{\argmid{\langle}{#1}{\rangle}}}}
                1604 \DeclareRobustCommand{\All}
                1605
                     {\@ifstar{\@sall}{\@all}}
                1606 \DeclareRobustCommand{\@sall}[1]
                     {\mth{\BMod}[#1]}
                1607
                1608 \DeclareRobustCommand{\@all}[1]
                      {\mth{\defval{\argmid{\left[}{#1}{\right]}}}{\BMod}}}
                \KrpStr, ... ...
                1611 \newcommand{\krpstr}{K}
                1612 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
   \WrlSet, ... ...
                1613 \newcommand{\wrlsym}{w}
                1614 \newcommand{\wrlset}{W}
                1615 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
                1616 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel
                ...
                1617 \newcommand{\accsym}{R}
                1618 \cmdmthrel{Acc}[\accsym]
                1619 \cmdmthrel{Trn}[\accsym]
        \labFun ...
                1620 \mbox{ \newcommand{\labsym}{\labsym}{\labsym}}
                1621 \cmdmthfun{lab}[\labsym]
   \PthSet, ... ...
                1622 \providecommand{\pthsym}{\pi}
                1623 \providecommand{\phithset}{Pth}
                1624 \cmdmthsetext{Pth}[\pthset][\pthsym]
                1625 \usrmth{path}{}{argfun}
                \MC, \GMC, ...
                1627 % Mu Calculus
                1628 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
                1630 % Graded Mu Calculus
                1631 \DeclareRobustCommand{\GMC}
                1632
                      {{\txtname{G}}\MC}
                1633
                1634 % Quantified Mu Calculus
                1635 \DeclareRobustCommand{\QMC}
                      {{\txtname{Q}}\MC}
                1637 \DeclareRobustCommand{\EMC}
                      {\ensuremath{\exists}\MC}
                1639 \DeclareRobustCommand{\UMC}
                1640
                      {\ensuremath{\forall}\MC}
                1641
                1642 % Alternation-Free Mu Calculus
                1643 \DeclareRobustCommand{\AFMC}
                1644
                      {{\txtname{AF}}\MC}
                1645
                1646 % Alternation-Free Graded Mu Calculus
                1647 \DeclareRobustCommand{\AFGMC}
                      {{\txtname{AF}}\GMC}
                1649
                1650 % Quantified Alternation-Free Mu Calculus
                1651 \DeclareRobustCommand{\QAFMC}
```

```
{\{\text{txtname}\{Q\}\}\setminus AFMC\}}
            1653 \DeclareRobustCommand{\EAFMC}
            1654 {\ensuremath{\exists}\AFMC}
            1655 \verb|\DeclareRobustCommand{\UAFMC}|
            1656
               {\ensuremath{\forall}\AFMC}
            1657
            \PTL, \LTL, ...
            1661 % Propositional Temporal Logic
            1662 \cmdtxtoparname{PTL}
            1663
            1664 % Quantified Propositional Temporal Logic
            1665 \DeclareRobustCommand{\QPTL}
            1666 \{\{\text{txtname}\{Q\}\}\}\}
            1667 \DeclareRobustCommand{\EPTL}
            1668 {\ensuremath{\exists}\PTL}
            1669 \DeclareRobustCommand{\UPTL}
               {\ensuremath{\forall}\PTL}
            1672 % Linear Temporal Logic
            1673 \cmdtxtoparname{LTL}
            1675 % Quantified Linear Temporal Logic
            1676 \DeclareRobustCommand{\QLTL}
                {\{\text{txtname}\{Q\}}\LTL\}
            1678 \DeclareRobustCommand{\ELTL}
            1679 {\ensuremath{\exists}\LTL}
            1680 \DeclareRobustCommand{\ULTL}
                {\ensuremath{\forall}\LTL}
            \X, ... ...
            1683 \usrmth{X}{}{sym}[X\,]
            1684 \operatorname{f}{f}{sym}[F\,]
            1685 \usrmth{G}{}{sym}[G\,]
            1686 \usrmth{U}{}{sym}[\,U\,]
            1687 \usrmth{R}{}{sym}[\,R\,]
     \Y, ... ...
            1688 \usrmth{Y}{}{sym}[G\,]
            1689 \mbox{usrmth}{P}{}{sym}[P\,]\let\SavePilcrow\P
            1691 \space{1}{sym}[\space{1}{sym}]\
            1692 \usrmth{B}{}{sym}[\,B\,]
            \PDL, \CTL, ... ...
            1696 % Propositional Dynamic Logic
            1697 \cmdtxtoparname{PDL}
            1698
```

```
1700 \cmdtxtoparname{CTL}
         1701
         1702 % Weak Computation Tree Logic
         1703 \DeclareRobustCommand{\WCTL}
               {\{\text{Xtname}(W)\}\CTL}
         1704
         1705
         1706 % Quantified Computation Tree Logic
         1707 \DeclareRobustCommand{\QCTL}
              {\{\text{txtname}\{Q\}\}\CTL}
         1709 \DeclareRobustCommand{\ECTL}
              {\ensuremath{\exists}\CTL}
         1711 \DeclareRobustCommand{\UCTL}
              {\ensuremath{\forall}\CTL}
         1713
         1714 % Improved Computation Tree Logic
         1715 \cmdtxtoparname{CTLP}[CTL$^{+}$]
         1717 % Weak Improved Computation Tree Logic
         1718 \DeclareRobustCommand{\WCTLP}
         1719
               {{\txtname{W}}\CTLP}
         1721 % Quantified Improved Computation Tree Logic
         1722 \DeclareRobustCommand{\QCTLP}
         1723 {{\text{Q}}}\CTLP}
         1724 \DeclareRobustCommand{\ECTLP}
              {\ensuremath{\exists}\CTLP}
         1726 \DeclareRobustCommand{\UCTLP}
         1727
               {\ensuremath{\forall}\CTLP}
         1729 % Full Computation Tree Logic
         1730 \cmdtxtoparname{CTLS}[CTL*]
         1732 % Weak Full Computation Tree Logic
         1733 \DeclareRobustCommand{\WCTLS}
               {{\txtname{W}}\CTLS}
         1734
         1735
         1736 % Quantified Full Computation Tree Logic
         1737 \DeclareRobustCommand{\QCTLS}
              {\{\text{txtname}\{Q\}\}\}\
         1739 \DeclareRobustCommand{\ECTLS}
              {\ensuremath{\exists}\CTLS}
         1741 \DeclareRobustCommand{\UCTLS}
              {\ensuremath{\forall}\CTLS}
         \E, \A ...
         1744 \usrmth{E}{}{sym}
         1745 \usrmth{A}{}{sym}
         \ATL, ... ...
         1748 % Alternating Temporal Logic
         1749 \cmdtxtoparname{ATL}
         1750
         1751 % Weak Alternating Tree Logic
         1752 \DeclareRobustCommand{\WATL}
               {\{\text{Xtname}\{W\}\}\setminus ATL\}}
         1753
         1754
```

1699 % Computation Tree Logic

```
1756 \DeclareRobustCommand{\QATL}
             1757
                 {\{\text{txtname}\{Q\}\}\setminus ATL\}}
             1758 \DeclareRobustCommand{\EATL}
                 {\ensuremath{\exists}\ATL}
             1760 \DeclareRobustCommand{\UATL}
                 {\ensuremath{\forall}\ATL}
             1761
             1763 % Improved Alternating Temporal Logic
             1764 \cmdtxtoparname{ATLP}[ATL$^{+}$]
             1766 % Weak Improved Alternating Tree Logic
             1767 \DeclareRobustCommand{\WATLP}
                  {{\txtname{W}}\ATLP}
             1768
             1769
             1770 % Quantified Improved Alternating Temporal Logic
             1771 \DeclareRobustCommand{\QATLP}
                  {{\txtname{Q}}\ATLP}
             1773 \DeclareRobustCommand{\EATLP}
                  {\ensuremath{\exists}\ATLP}
             1775 \DeclareRobustCommand{\UATLP}
                  {\ensuremath{\forall}\ATLP}
             1777
             1778\;\text{\%} Full Alternating Temporal Logic
            1779 \cmdtxtoparname{ATLS}[ATL*]
            1781 % Weak Full Alternating Tree Logic
             1782 \DeclareRobustCommand{\WATLS}
            1783
                  {{\txtname{W}}\ATLS}
             1785 % Quantified Full Alternating Temporal Logic
             1786 \DeclareRobustCommand{\QATLS}
                  {\{\text{txtname}\{Q\}\}\setminus ATLS\}}
             1788 \DeclareRobustCommand{\EATLS}
                 {\ensuremath{\exists}\ATLS}
             1790 \DeclareRobustCommand{\UATLS}
                 {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
            1793 \DeclareRobustCommand{\EExs}[1]
             \label{langle} $$1794 {\bf \sum_{\norm{langle}}(\norm{\#1}{\norm{langle}}}}
             1795 \DeclareRobustCommand{\AAll}[1]
                  \CGS ...
             1798 \cmdtxtname{CGS}
\CGSStr, ... ...
             1799 \newcommand{\cgsstr}{G}
             1800 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1801 \newcommand{\agnsym}{a}
             1802 \newcommand{\agnset}{Ag}
             1803 \cmdmthsetext{Agn}[\agnset][\agnsym]
\ActSet, ... ...
             1804 \mbox{ } \mbox{newcommand{\actsym}{c}}
             1805 \mbox{ } \mbox{newcommand{\actset}{Ac}}
             1806 \cmdmthsetext{Act}[\actsym]
```

1755 % Quantified Alternating Temporal Logic

```
\PosSet, ... ...
                                      1807 \providecommand{\possym}{v}
                                       1808 \providecommand{posset}{Ps}
                                       1809 \cmdmthsetext{Pos}[\posset][\possym]
                                       1810 \cmdmthsymelm{ipos}[\possym_{I}]
                                       1811 \cmdmthsymelm{fpos}[\possym_{F}]
                                       1812 \cmdmthset{PPos} [\posset_{\PlrSym}]
                                       1813 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                                       1814 \cmdmthset{OPos}[\posset_{\OppSym}]
                                       1815 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \SttSet, ... ...
                                      1816 \newcommand{\sttsym}{s}
                                      1817 \newcommand{\sttset}{St}
                                      1818 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                       1819 \cmdmthset{IStt}[\sttset_{I}]
                                       1820 \cmdmthsymelm{istt}[\sttsym_{I}]
                                       1821 \cmdmthset{FStt}[\sttset_{F}]
                                       1822 \cmdmthsymelm{fstt}[\sttsym_{F}]
        \DecSet, ... ...
                                      1823 \newcommand{\decsym}{d}
                                       1824 \mbox{ }\mbox{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{\command{
                                      1825 \cmdmthsetext{Dec} [\decset] [\decsym]
\movFun, \movRel
                                       1826 \newcommand{\movsym}{\tau}
                                       1827 \cmdmthfun{mov} [\movsym]
                                       1828 \cmdmthrel{mov}[\movsym]
\trnFun, \trnRel
                                       1829 \newcommand{\trnsym}{\delta}
                                       1830 \cmdmthfun{trn}[\trnsym]
                                       1831 \cmdmthrel{trn}[\trnsym]
                   \PrfSet
                                       1832 \providecommand{\prfsym}{\xi}
                                       1833 \providecommand{\prfset}{Prf}
                                      1834 \cmdmthsetext{Prf}[\prfset][\prfsym]
        \HstSet, ... ...
                                       1835 \providecommand{\hstsym}{\varpi}
                                       1836 \providecommand{\hstset}{Hst}
                                       1837 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                       1838 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                       1839 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                                       1840 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                       1841 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                                      1842 \mbox{ } \mbox{argfun} 
      \PlaySet, ... ...
                                      1843 \providecommand{\playsym}{\pi}
                                       1844 \providecommand{\playset}{Play}
                                       1845 \cmdmthsetext{Play}[\playset][\playsym]
                                      1846 \usrmth{play}{}{argfun}
        \PlnSet, ...
                                       1847 \providecommand{\plnsym}{\rho}
                                       1848 \providecommand{\pluset}{Pln}
                                       1849 \cmdmthsetext{Pln}[\plnset][\plnsym]
                                       1850 \cmdmthset{PPln}[\plnset_{\PlrSym}]
                                       1851 \cmdmthsymelm{pPln}[\plnsym_{\PlrSym}]
                                       1852 \cmdmthset{OPln}[\plnset_{\OppSym}]
                                       1853 \cmdmthsymelm{oPln}[\plnsym_{\OppSym}]
```

```
\StrSet, ... ...
              1854 \providecommand{\strsym}{\sigma}
              1855 \providecommand{\strset}{Str}
              1856 \verb|\cmdmthsetext{Str}| [\verb|\strset|] [\| ]
              1857 \cmdmthset{PStr}[\strset_{\PlrSym}]
              1858 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
              1859 \cmdmthset{OStr}[\strset_{\OppSym}]
              1860 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
              \PL, ...
              1862 % Plan Logic
              1863 \cmdtxtoparname{PL}
              1864
              1865 \DeclareRobustCommand{\EPL}
                   {\ensuremath{\exists}\PL}
              1866
              1867 \DeclareRobustCommand{\UPL}
                   {\ensuremath{\forall}\PL}
              1868
              1869
              1870 \DeclareRobustCommand{\XPL}
              1871
                   {\{\text{txtname}\{F\}}\PL\}
              1872
              1873 \DeclareRobustCommand{\EFPL}
                   {\ensuremath{\exists}\FPL}
              1874
              1875 \DeclareRobustCommand{\UFPL}
              1876
                   {\ensuremath{\forall}\FPL}
              1877
              1878 % One-Goal Plan Logic
              1879 \DeclareRobustCommandx{\OGPL}[3][1=, 2=, 3=]
                    {\PL[#1][#2][1g\arglef{,}{#3}]}
              1882 \DeclareRobustCommand{\EOGPL}
                   {\ensuremath{\exists}\OGPL}
              1884 \DeclareRobustCommand{\UOGPL}
                   {\ensuremath{\forall}\OGPL}
              1885
              1886
              1887 \DeclareRobustCommand{\FOGPL}
                   {{\txtname{F}}\OGPL}
              1888
              1890 \DeclareRobustCommand{\EFOGPL}
                   {\ensuremath{\exists}\FOGPL}
              1892 \DeclareRobustCommand{\UFOGPL}
                   {\ensuremath{\forall}\FOGPL}
              1894
              1895 % Conjunctive-Goal Plan Logic
              1896 \DeclareRobustCommandx{\CGPL}[3][1=, 2=, 3=]
                   {\PL[#1][#2][cg\arglef{,}{#3}]}
              1898
              1899 \DeclareRobustCommand{\ECGPL}
                   {\ensuremath{\exists}\CGPL}
              1901 \DeclareRobustCommand{\UCGPL}
                   {\ensuremath{\forall}\CGPL}
              1903
              1904 \DeclareRobustCommand{\FCGPL}
              1905
                   {{\txtname{F}}\CGPL}
              1906
              1907 \DeclareRobustCommand{\EFCGPL}
                   {\ensuremath{\exists}\FCGPL}
              1909 \DeclareRobustCommand{\UFCGPL}
              1910
                   {\ensuremath{\forall}\FCGPL}
              1911
              1912 % Disjunctive-Goal Plan Logic
```

1913 \DeclareRobustCommandx{\DGPL}[3][1=, 2=, 3=]

```
1914
      {\PL[#1][#2][dg\arglef{,}{#3}]}
1915
1916 \DeclareRobustCommand{\EDGPL}
1917
      {\ensuremath{\exists}\DGPL}
1918 \DeclareRobustCommand{\UDGPL}
      {\ensuremath{\forall}\DGPL}
1919
1920
1921 \DeclareRobustCommand{\FDGPL}
      {{\txtname{F}}\DGPL}
1924 \DeclareRobustCommand{\EFDGPL}
      {\ensuremath{\exists}\FDGPL}
1926 \DeclareRobustCommand{\UFDGPL}
1927
      {\ensuremath{\forall}\FDGPL}
1928
1929 % Alternating-Goal Plan Logic
1930 \DeclareRobustCommandx{\AGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][ag\arglef{,}{#3}]}
1931
1932
1933 \DeclareRobustCommand{\EAGPL}
      {\ensuremath{\exists}\AGPL}
1935 \DeclareRobustCommand{\UAGPL}
1936
      {\ensuremath{\forall}\AGPL}
1937
1938 \DeclareRobustCommand{\FAGPL}
      {\{\text{txtname}\{F\}\}\setminus AGPL\}}
1939
1940
1941 \DeclareRobustCommand{\EFAGPL}
      {\ensuremath{\exists}\FAGPL}
1943 \DeclareRobustCommand{\UFAGPL}
      {\ensuremath{\forall}\FAGPL}
1944
1946 % Extended-Goal Plan Logic
1947 \DeclareRobustCommandx{\EGPL}[3][1=, 2=, 3=]
1948
      {\PL[#1][#2][eg\arglef{,}{#3}]}
1949
1950 \DeclareRobustCommand{\EEGPL}
      {\ensuremath{\exists}\EGPL}
1952 \DeclareRobustCommand{\UEGPL}
      {\ensuremath{\forall}\EGPL}
1953
1954
1955 \DeclareRobustCommand{\FEGPL}
1956
      {\{\text{txtname}\{F\}\}\setminus EGPL\}}
1958 \DeclareRobustCommand{\EFEGPL}
      {\ensuremath{\exists}\FEGPL}
1959
1960 \DeclareRobustCommand{\UFEGPL}
      {\ensuremath{\forall}\FEGPL}
1961
1962
1963 % Boolean-Goal Plan Logic
1964 \DeclareRobustCommandx{\BGPL}[3][1=, 2=, 3=]
      {\PL[#1][#2][bg\arglef{,}{#3}]}
1967 \DeclareRobustCommand{\EBGPL}
      {\ensuremath{\exists}\BGPL}
1969 \DeclareRobustCommand{\UBGPL}
1970
      {\ensuremath{\forall}\BGPL}
1971
1972 \DeclareRobustCommand{\FBGPL}
      {\{\texttxtname}_{F}\}\BGPL}
1973
1974
1975 \DeclareRobustCommand{\EFBGPL}
      {\ensuremath{\exists}\FBGPL}
```

```
1977 \DeclareRobustCommand{\UFBGPL}
          1978
                {\ensuremath{\forall}\FBGPL}
          1979
          1980 % Undefined-Goal Plan Logic
          1981 \DeclareRobustCommandx{\XGPL}[3][1=, 2=, 3=]
                {\PL[#1][#2][xg\arglef{,}{#3}]}
          1982
          1983
          1984 \DeclareRobustCommand{\EXGPL}
          1985 {\ensuremath{\exists}\XGPL}
          1986 \DeclareRobustCommand{\UXGPL}
                 {\ensuremath{\forall}\XGPL}
          1989 \DeclareRobustCommand{\FXGPL}
                {\{\text{txtname}\{F\}\}\setminus XGPL\}}
          1990
          1991
          1992 \DeclareRobustCommand{\EFXGPL}
                {\ensuremath{\exists}\FXGPL}
          1994 \DeclareRobustCommand{\UFXGPL}
                {\ensuremath{\forall}\FXGPL}
\SL, ... ...
          1996 % Strategy Logic
          1997 \cmdtxtoparname{SL}
          1998
          1999 \DeclareRobustCommand{\ESL}
                {\ensuremath{\exists}\SL}
          2000
          2001 \DeclareRobustCommand{\USL}
          2002
                {\ensuremath{\forall}\SL}
          2003
          2004 \DeclareRobustCommand{\FSL}
                {\{\text{txtname}\{F\}\}\SL\}}
          2006
          2007 \DeclareRobustCommand{\EFSL}
                {\ensuremath{\exists}\FSL}
          2009 \DeclareRobustCommand{\UFSL}
                {\ensuremath{\forall}\FSL}
          2010
          2011
          2012 % One-Goal Strategy Logic
          2013 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][1g\arglef{,}{#3}]}
          2015
          2016 \DeclareRobustCommand{\EOGSL}
                {\ensuremath{\exists}\OGSL}
          2018 \DeclareRobustCommand{\UOGSL}
                {\ensuremath{\forall}\OGSL}
          2019
          2020
          2021 \DeclareRobustCommand{\FOGSL}
               {\{\text{txtname}\{F\}\}\setminus GGSL\}}
          2022
          2023
          2024 \DeclareRobustCommand{\EFOGSL}
          2025 {\ensuremath{\exists}\FOGSL}
          2026 \DeclareRobustCommand{\UFOGSL}
          2027
                {\ensuremath{\forall}\FOGSL}
          2028
          2029\ \% Conjunctive-Goal Strategy Logic
          2030 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][cg\arglef{,}{#3}]}
          2031
          2032
          2033 \DeclareRobustCommand{\ECGSL}
                {\ensuremath{\exists}\CGSL}
          2035 \DeclareRobustCommand{\UCGSL}
                {\ensuremath{\forall}\CGSL}
          2038 \DeclareRobustCommand{\FCGSL}
```

```
2039
      {{\txtname{F}}\CGSL}
2040
2041 \DeclareRobustCommand{\EFCGSL}
2042
     {\ensuremath{\exists}\FCGSL}
2043 \DeclareRobustCommand{\UFCGSL}
      {\ensuremath{\forall}\FCGSL}
2044
2045
2046 % Disjunctive-Goal Strategy Logic
2047 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
2049
2050 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
2052 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
2053
2054
2055 \DeclareRobustCommand{\FDGSL}
      {{\txtname{F}}\DGSL}
2056
2057
2058 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
2060 \DeclareRobustCommand{\UFDGSL}
2061
      {\ensuremath{\forall}\FDGSL}
2062
2063 % Alternating-Goal Strategy Logic
2064 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
2065
      {\SL[#1][#2][ag\arglef{,}{#3}]}
2066
2067 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
2069 \DeclareRobustCommand{\UAGSL}
      {\ensuremath{\forall}\AGSL}
2071
2072 \DeclareRobustCommand{\FAGSL}
      {\{\text{txtname}\{F\}\}\setminus AGSL\}}
2073
2074
2075 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
2077 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
2080 % Extended-Goal Strategy Logic
2081 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
2083
2084 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
2086 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
2087
2088
2089 \DeclareRobustCommand{\FEGSL}
      {{\txtname{F}}\EGSL}
2090
2092 \DeclareRobustCommand{\EFEGSL}
     {\ensuremath{\exists}\FEGSL}
2094 \DeclareRobustCommand{\UFEGSL}
2095
      {\ensuremath{\forall}\FEGSL}
2096
2097 % Boolean-Goal Strategy Logic
2098 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
2099
      {\SL[#1][#2][bg\arglef{,}{#3}]}
2100
2101 \DeclareRobustCommand{\EBGSL}
```

```
{\ensuremath{\exists}\BGSL}
            2103 \DeclareRobustCommand{\UBGSL}
            2104
                {\ensuremath{\forall}\BGSL}
            2105
            2106 \DeclareRobustCommand{\FBGSL}
                 {{\txtname{F}}\BGSL}
            2107
            2108
            2109 \DeclareRobustCommand{\EFBGSL}
            2110 {\ensuremath{\exists}\FBGSL}
            2111 \DeclareRobustCommand{\UFBGSL}
                 {\ensuremath{\forall}\FBGSL}
            2114 % Nested-Goal Strategy Logic
            2115 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][ng\arglef{,}{#3}]}
            2117
            2118 \DeclareRobustCommand{\ENGSL}
                 {\ensuremath{\exists}\NGSL}
            2119
            2120 \DeclareRobustCommand{\UNGSL}
                 {\ensuremath{\forall}\NGSL}
            2122
            2123 \DeclareRobustCommand{\FNGSL}
            2124
                 {\{\text{txtname}\{F\}\}\setminus KGSL\}}
            2125
            2126 \DeclareRobustCommand{\EFNGSL}
                 {\ensuremath{\exists}\FNGSL}
            2127
            2128 \DeclareRobustCommand{\UFNGSL}
                 {\ensuremath{\forall}\FNGSL}
            2130
            2131 % Undefined-Goal Strategy Logic
            2132 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][xg\arglef{,}{#3}]}
            2134
            2135 \DeclareRobustCommand{\EXGSL}
            2136 {\ensuremath{\exists}\XGSL}
            2137 \DeclareRobustCommand{\UXGSL}
                 {\ensuremath{\forall}\XGSL}
            2138
            2139
            2140 \DeclareRobustCommand{\FXGSL}
            2141
                 {\{\text{xtname}\{F\}\}\}\}
            2143 \DeclareRobustCommand{\EFXGSL}
            2144 {\ensuremath{\exists}\FXGSL}
            2145 \DeclareRobustCommand{\UFXGSL}
                 {\ensuremath{\forall}\FXGSL}
            \BndSet, ... ...
            2148 \mbox{ \newcommand{\bndsym}{\flat}}
            2149 \newcommand{\bndset}{Bn}
            2150 \cmdmthsetext{Bnd} [\bndset] [\bndsym]
            2151 \usrmth{bnd}{}{argfun}
       \psn ...
            2152 \usrmth{psn}{}{argfun}
            \nxt ...
            2154 \usrmth{nxt}{}{argfun}
```

```
2160 \ifaut@
                                                                                             \DFA, ... ...
                                                                                            2162 \texttt{VFA} \texttt{
                                                                                            2163
                                                                                            {\tt 2164 \cmdtxtoparname{DWA}\cmdtxtoparname{AWA}\cmdtxtoparname{WA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{AWA}\cmdtxtoparname{A
                                                                                            2166 \cmdtxtoparname{DFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}
                                                                                            2167 \cmdtxtoparname{DWW}\cmdtxtoparname{AWW}
                                                                                            2168 \cmdtxtoparname{DBW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
                                                                                            2169 \verb|\cmdtxtoparname{DCW}\\ \\ cmdtxtoparname{UCW}\\ \\ cmdtxtoparname{UCW}\\ \\ cmdtxtoparname{ACW}\\ \\
                                                                                            2170 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{QPW}| cmdtxtoparname{QPW}| 
                                                                                            2171 \cmdtxtoparname{DRW}\cmdtxtoparname{ARW}
                                                                                            2172 \verb|\cmdtxtoparname{NSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}| 
                                                                                            2173 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{MW}| cmdtxtoparname{AMW}| cm
                                    \GFG, ... ...
                                                                                           2174 \cmdtxtoparname{GFG}
                                                                                            2176 \cmdtxtoparname{PD}
                                                                                            2177 \cmdtxtoparname{PN}
                                                                                            2178
                                                                                            2179 \cmdtxtoparname{LD}
                                                                                            2180 \verb|\cmdtxtoparname{LN}|
                                                                                             \AutName, ... ...
                                                                                            2182 \mbox{ newcommand{\autname}{A}}
                                                                                             2183 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                                                             2184 \mbox{ }\mbox{\em and}{\mbox{\em Aut}}{\mbox{\em Aut}}
                                                                                            2185 \cmdmthset{Aut}[\autset]
                                          \WAutSet ...
                                                                                             2186 \newcommand{\wautset}{WAut}
                                                                                             2187 \cmdmthset{WAut}[\wautset]
                    \SymSet, ... ...
                                                                                            2188 \verb|\newcommand{\symsym}{\sigma}|
                                                                                             2189 \mbox{ \newcommand{\symset}{\Sigma}}
                                                                                            2190 \cmdmthsetext{Sym}[\symset][\symsym]
                    \SttSet, ...
                                                                                           2191 \def\sttsym{q}
                                                                                            2192 \def\sttset{Q}
                                                                                            2193 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                                                            2194 \cmdmthset{IStt}[\sttset_{I}]
                                                                                             2195 \mbox{ }\mbox{cmdmthsymelm{istt}[\sttsym_{I}]}
                                                                                             2196 \cmdmthset{FStt}[\sttset_{F}]
                                                                                             2197 \mbox{ }\mbox{cmdmthsymelm{fstt}[\sttsym_{F}]}
\trnFun, \trnRel
                                                                                            2198 \def\trnsym{\delta}
                                                                                             2199 \cmdmthfun{trn}[\trnsym]
                                                                                            2200 \cmdmthrel{trn}[\trnsym]
```

```
\WrdSet, ... ...
                                  2202 \neq \sqrt{wrdsym} 
                                  2203 \mbox{ \newcommand{\wrdset}{Wr}}
                                  2204 \cmdmthsetext{Wrd}[\wrdset][\wrdsym]
                   \Lang ...
                                  2205 \usrmth{Lang}{}{argfun}[L]
                                   \DTA, ... ...
                                  2207 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{UTA}\cmdtxtoparname{ATA}|
                                   2209 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                                   2210 \cmdtxtoparname{DWT}\cmdtxtoparname{AWT}\cmdtxtoparname{UWT}\cmdtxtoparname{AWT}
                                   2211 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
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                                   2219 \cmdmthset{TAut}[\tautset]
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                                  2221 \newcommand{\dirset}{\Lambda}
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                                  2224 \newcommand{\treesym}{T}
                                  2225 \newcommand{\treeset}{Tr}
                                   2226 \cmdmthsetext{Tree} [\treeset] [\treesym]
                     \wot ...
                                  2227 \usrmth{wot}{}{argfun}
                                   2233 \iffrm@
                        2234 %%...
                                   2240 \iffig@
                                   2241 \RequirePackage{tikz}
                                   2242 \usetikzlibrary{arrows, shapes, patterns, graphs, matrix}
```

```
2244 [draw = none, fill = none, black, thin]
         2245 \tikzstyle{every edge} +=
         2246 [black, thick]
         2247 \tikzstyle{noall} =
         2248 [draw = none, fill = none]
         2249 \text{tikzstyle}\{\text{nodraw}\} =
         2250 [draw = none, fill = white]
         2251 \tikzstyle{nofill} =
         2252 [draw = black, fill = none]
         2253 \ifwrpfig@
         2254 % Wrapfig Package
            \RequirePackage{wrapfig}
         2255
         2256 \fi
         2257 \fi
         2262 \iftab@
      2263 %%...
         2264 \fi
         2269 \ifalg@
         2270 \RequirePackage[ruled,vlined]{algorithm2e}
         2271 \DontPrintSemicolon
         2272 \SetInd{0.25em}{0.5em}
         2273 \verb|\setlength{\algomargin}{1.25em}|
 \Signature
         2274 \SetKw{Signature}{signature}
 \Macro, ... ...
         2275 \SetKwFor{Macro}{macro}{}}
         2276 \SetKwFor{Function}{function}{}}
         2277 \SetKwFor{Procedure}{procedure}{}{}
     \Let ...
         2278 \SetKwFor\{Let\}\{let\}\{in\}\{\}
\True, \False ...
         2279 \SetKw{True}{true}
         2280 \SetKw{False}{false}
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         2281 \SetKw{From}{from}
         2282 \text{SetKw{To}{to}}
         2283 \SetKw{DownTo}{downto}
 \GoTo, ... ...
         2284 \SetKw{GoTo}{goto}
         2285 \SetKw{Break}{break}
         2286 \SetKw{Continue}{continue}
```

2243 \tikzstyle{every node} =

2 Change History

v0.0	v0.2
General: First public release 1	General: Changes in 'Auxiliary tricks' 1
v0.1	v0.20
General: Algorithm tricks 1	General: New binary operators 1
v0.10	v0.21
General: Small refinements 1	General: Refactoring of function macros 1
v0.11	v0.22
General: Few additions and corrections \dots 1	General: Few additions and corrections \dots 1
v0.12	v0.3
General: New starred variants 1	General: Few problems solved $\dots 1$
v0.13	v0.4
General: Further starred variants 1	General: Refactoring, corrections, and
v0.14	extensions
General: Few additions and corrections 1	v0.5
v0.15	General: Figure tricks
General: Refactoring of dtx sources 1	v0.6
v0.16	General: Small refinements 1
General: Small refinements and few additions 1	v0.7
v0.17	General: Refinements, corrections, and
General: Few additions	extensions $\dots \dots \dots$
v0.18	v0.8
General: Few new starred variants 1	General: Few refinements and corrections 1
v0.19	v0.9
General: Additional starred variants 1	General: Small addition to 'Algorithm tricks' 1

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\linnum@false	970, 971, 974, 975, 978, 979, 986, 988, 994, 996, 1002, 1004, 1008, 1010, 1012, 1015, 1030, 1088, 1090, 1092, 1094, 1096, 1101, 1103, 1107, 1109, 1113, 1115, 1119, 1121, 1136, 1140, 1142, 1144, 1195, 1196, 1197, 1198, 1199, 1200, 1601, 1603, 1607, 1609, 1794, 1796 \https://doi.org/10.1001/10.1003/10.1003/10.1003/10.1007/10.1009/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1003/10.1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
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699, 701, 703, 705, 710,	\oplus 1327	\PthSet, _\pthFun <u>1253</u>
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\newtxtargsty 311, 359, 377, 378 \newtxtoarg 317, 326, 328	\plrfun 1241, 1242 \PlrSym 1237, 1238,	\rangle
\newtxtargsty \(\frac{311}{359}, 377, 378 \\ \newtxtoarg \cdots \cdot \frac{317}{326}, 328 \\ \newtxtoargsty \(\frac{323}{361}, 382, 383 \\ \end{array}	\plrfun 1241, 1242 \PlrSym 1237, 1238, 1260, 1261, 1272, 1273,	\rangle
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$\begin{array}{l} \texttt{\ \ } & 311,\ 359,\ 377,\ 378 \\ \texttt{\ \ } & 317,\ 326,\ 328 \\ \texttt{\ \ } & 323,\ 361,\ 382,\ 383 \\ \texttt{\ \ } & 323,\ 361,\ 382,\ 383 \\ \texttt{\ \ } & 341,\ 350,\ 352 \\ \texttt{\ \ } & 341,\ 350,\ 352 \\ \texttt{\ \ } & 365,\ 392,\ 393 \\ \texttt{\ \ } & 347,\ 365,\ 392,\ 393 \\ \texttt{\ \ } & 340,\ 344,\ 346 \\ \texttt{\ \ } & 349,\ 340,\ 344,\ 346 \\ \texttt{\ \ } & 349,\ 357,\ 372,\ 373 \\ \texttt{\ \ } & 363,\ 387,\ 372,\ 373 \\ \texttt{\ \ } & 363,\ 372,\ 373 \\ \texttt{\ \ } & 363,\ 372,\ 373 \\ \texttt{\ \ } & 363,\ 372,\ 373 \\ \end{cases}$	$\begin{array}{llllllllllllllllllllllllllllllllllll$	\rangle
$\begin{array}{l} \texttt{\ \ } & 311,\ 359,\ 377,\ 378 \\ \texttt{\ \ } & 317,\ 326,\ 328 \\ \texttt{\ \ } & 323,\ 361,\ 382,\ 383 \\ \texttt{\ \ } & 323,\ 361,\ 382,\ 383 \\ \texttt{\ \ } & 341,\ 350,\ 352 \\ \texttt{\ \ } & 341,\ 350,\ 352 \\ \texttt{\ \ } & 365,\ 392,\ 393 \\ \texttt{\ \ } & 347,\ 365,\ 392,\ 393 \\ \texttt{\ \ } & 388,\ 340,\ 344,\ 346 \\ \texttt{\ \ } & 329,\ 338,\ 363,\ 387,\ 388 \\ \texttt{\ \ } & 387,\ 372,\ 373 \\ \texttt{\ \ } & 365,\ 2115,\ 2119,\ 2121,\ 2124 \\ \end{array}$	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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\set,	\SymSet,\(\) \ \ \ \ 2188, \ 2190 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \ \txtoarg \(\) \ \ \txtoargcom \(\) \ 1154, 1170 \txtopar \(\) \ \ \ \ \ \ \ \txtoparcom \(\) \ \ 1172
\set,	\SymSet,\(\pi\) \ \ \ 2188, 2190 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\set,	\SymSet,\(\pi\) \ \ \ 2188, 2190 \\ \tag{T} \tab@false \ 115, 117 \tab@true \ 116 \tau \ 1826 \TAutSet \ 2218 \tautset \ 2218, 2219 \terset \ 1440, 1441 \tersig \ 1437, 1438 \TerSig,\(\pi\) \ \ \ 1455, 1456 \TerStr,\(\pi\) \ \ \ \ 1455	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
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\set,	\SymSet,\(\pi\) \ \ \ 2188, 2190 \\ \tag{T} \tab@false \ 115, 117 \tab@true \ 116 \tau \ 1826 \TAutSet \ 2218 \tautset \ 2218, 2219 \terset \ 1440, 1441 \tersig \ 1437, 1438 \TerSig,\(\pi\) \ \ \ 1455, 1456 \TerStr,\(\pi\) \ \ \ \ 1455	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set,	SymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set,	SymSet,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\set, \ 981 \SetB \ 1050 \SetCI \ 1082 \SetCI \ 1084 \SetF \ 1052 \SetInd \ 2272 \SetKw \ 2274, \ 2279, 2280, 2281, 2282, \ 2283, 2284, 2285, 2286 \SetKwFor 2275, 2276, 2277, 2278 \SetKwIF \ 2287 \setI \ 989 \setlength \ 2273 \setIx \ 991 \SetN, \ 1054 \SetNI \ 1056 \SetQ, \ 1066	\SymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
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\set,\u.\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set, \(\text{\set} \). \\ \\ \set \(\text{\set} \). \\ \\ \\ \set \(\cong	SymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set, \(\text{\set} \). \\ \\ \setC, \(\text{\set} \). \\ \\ \\ \setC, \(\text{\set} \). \\ \\ \\ \setF. \\ \\ \\ \setTind \\ \\ \\ \setTind \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	SymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set, \(\text{\set} \). \\ \\ \setC, \(\text{\set} \). \\ \\ \\ \setC, \(\text{\set} \). \\ \\ \\ \setCI \). \\ \\ \\ \setF \). \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	SymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set, □	NymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\set, □	NymSet, 2188	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
\SetF, □ 981 \SetB 1050 \SetC, □ 1082 \SetCI 1084 \SetF 1052 \SetInd 2272 \SetKw 2274, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286 \SetKwFor 2275, 2276, 2277, 2278 \SetKwIF 2287 \set1 989 \setlength 2273 \setNtx 991 \SetNI 1054 \SetQ, □ 1066 \SetQ, □ 1068 \SetQI 1068 \SetQPI 1070 \setR 997 \SetRI 1076 \SetRNI 1080 \SetRPI 1078	NymSet,	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(
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\SetB, □ 981 \SetB 1050 \SetC, □ 1082 \SetCI 1084 \SetF 1052 \SetInd 2272 \SetKw 2274, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286 \SetKwFor 2275, 2276, 2277, 2278 \SetKwIF 2287 \setl 989 \setlength 2273 \setlx 991 \SetNI 1054 \SetQ, □ 1066 \SetQ, □ 1068 \SetQNI 1072 \SetQPI 1070 \setR 997 \SetRI 1076 \SetRNI 1080 \SetRPI 1078 \setrx 999	NymSet, 2188 190	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\)
\set, □	NymSet, 2188 2190	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\)
\set, □	NymSet, 2188 2190	1708, 1719, 1723, 1734, 1738, 1753, 1757, 1768, 1772, 1783, 1787, 1871, 1888, 1905, 1922, 1939, 1956, 1973, 1990, 2005, 2022, 2039, 2056, 2073, 2090, 2107, 2124, 2141 \txtname, \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(\) \(

	1010 1011 1010 1011	
\UCGPL 1901	1040, 1041, 1043, 1044,	\VarSig, <u>1417</u>
\UCGSL 2035	1045, 1046, 1047, 1048,	\varsym 1419, 1421
\UCTL 1711	1123, 1124, 1125, 1126,	\vec <u>923</u>
\UCTLP 1726	1127, 1128, 1129, 1130,	\vert 982, 990
\UCTLS 1741	1131, 1132, 1133, 1145,	\Viceversa <u>845</u>
\UDGPL 1918	1146, 1256, 1264, 1268,	\viceversa <u>828</u>
\UDGSL 2052	1279, 1280, 1281, 1282,	\viz <u>830</u>
\UEGPL 1952	1283, 1284, 1285, 1286,	\vs
\UEGSL 2086	1287, 1288, 1357, 1359,	
\UFAGPL 1943	1361, 1363, 1365, 1367,	\mathbf{W}
\UFAGSL 2077	1369, 1371, 1373, 1375,	\WATL 1752
\UFBGPL 1977	1379, 1380, 1381, 1382,	\WATLP 1767
\UFBGSL 2111	1383, 1384, 1385, 1389,	\WATLS 1782
\UFCGPL 1909	1390, 1391, 1392, 1422,	\WAutSet 2186
\UFCGSL 2043	1423, 1429, 1435, 1436,	\wautset $\dots 2186, \overline{2187}$
\UFDGPL 1926	1442, 1448, 1449, 1485,	\WCTL 1703
\UFDGSL 2060	1487, 1595, 1596, 1597,	\WCTLP 1718
\UFEGPL 1960	1625, 1683, 1684, 1685,	\WCTLS 1733
\UFEGSL	1686, 1687, 1688, 1689,	\wghset 1332, 1333
\UFNGSL	1690, 1691, 1692, 1744,	\WghSet,_\wghFun 1331
\UFOGPL 1892	1745, 1842, 1846, 2151,	\wghsym 1331, 1333
\UFOGSL	2152, 2154, 2205, 2227	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\UFPL 1875		\widehat 920
\UFSL	<u> </u>	
	\usrmthgrklow <u>512</u>	\widetilde 922
\UFXGPL	\usrmthgrkupp <u>514</u>	\WinSet \frac{1247}{1248}
\UFXGSL	\usrmthlatlet <u>510</u>	\winset 1247, 1248
\ULH, \UBH	\usrmthlatlow 506	\Wlogx
\ULTL 1680	\usrmthlatupp <u>508,</u>	\wlogx
\UMC	1231, 1246, 1355, 1399,	\WMPL 1571
\UML 1592	1418, 1425, 1431, 1438,	\WMSO 1515
\UNGSL	1444, 1452, 1454, 1456,	\WMSOL 1513
\U0GPL 1884	1458, 1612, 1800, 2183	\WMTL 1548
\U0GSL	\usrmthlet <u>522</u> , 664, 666	\wot <u>2227</u>
\upharpoonright 1025 \UPL 1867	\usrmthlow <u>518</u>	\wp 1386
\upshape 367	\usrmthupp <u>520</u>	\WPL 1559 \wrdset 2203, 2204
\UPTL 1669	\usrtxt	,
\usetikzlibrary 2242	<u>397,</u> 532, 534, 536, 538,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\USL 2001	540, 544, 546, 548, 550,	\wrdsym 2202, 2204
\usrmth 500,	552, 557, 559, 561, 563,	\wrlset 1614, 1615
507, 509, 511, 513, 515,	565, 569, 571, 573, 575, 577 \UXGPL1986	\WrlSet,
		\wrlsym 1613, 1615, 1616
517, 519, 521, 523, 588,	\UXGSL 2137	\wrpfig@false
590, 592, 594, 596, 601,	\mathbf{v}	\wrpfig@true 110
603, 605, 607, 609, 614,	·	\wrt <u>862</u>
616, 618, 620, 622, 627,	\valset 1401, 1402	\WSO 1497
629, 631, 633, 635, 640,	\ValSet,	\WSOL 1495
642, 644, 646, 648, 653,	\valsym 1400, 1402	\WTL 1536
655, 657, 659, 661, 672,	\varcmd <u>161,</u>	37
674, 676, 678, 680, 685,	930, 931, 934, 935, 938,	X
687, 689, 691, 693, 698,	939, 942, 943, 946, 947,	\X, <u>1683</u>
700, 702, 704, 706, 711,	950, 951, 954, 955, 958,	\XGPL 1981, 1985, 1987, 1990
713, 715, 717, 719, 741,	959, 962, 963, 966, 967,	\XGSL 2132, 2136, 2138, 2141
743, 747, 753, 755, 757,	970, 971, 974, 975, 978, 979	\xi 1276, 1400, 1832
759, 761, 766, 768, 770,	\varepsilon 1136	\XPL 1870
772, 774, 780, 782, 784,	\varnothing 1015, 1030	\xspace 296, 298
786, 788, 793, 795, 797,	\varpi 1257, 1835	••
799, 801, 1017, 1018,	\varset 1420, 1421	Y
1019, 1020, 1038, 1039,	\varsig 1417, 1418	\Y, _{\u.} <u>1688</u>