fmocdmac — FM's OCD LATEX Macro*

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Abstract

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

1 Implementation & Usage

1 (*package)

```
Required external packages:
```

```
2
3 \RequirePackage{etoolbox}
4
5 \RequirePackage{xargs}
6 \RequirePackage{xspace}
7 \RequirePackage{stringstrings}
8
```

```
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\ \mbox{\%\%} AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
21 \DeclareOption{noamsthm}{\amsthm@false}
23 %% Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \verb|\DeclareOption{noenmtls}{\cline{conmtls}}| 
31 %% Hyper reference
32 \neq 0 
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
```

^{*}This document describes version v0.5 of the fmocdmac package, last revised 2021/05/15.

```
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\text@false\com@false\log@false\aut@false}
57
58 %% Math macro generation
59 \newif\ifmthgen@ \mthgen@false
60 \DeclareOption{mthgen}{\mthgen@true}
61 \DeclareOption{nomthgen}
    {\mthgen@false\math@false\gam@false\log@false\aut@false}
63
64
65 %% Elementary macros for text
66 \newif\iftext@ \text@false
67 \DeclareOption{text}{\text@true\txtgen@true}
68 \DeclareOption{notext}{\text@false}
70 %% Elementary macros for math
71 \newif\ifmath@ \math@false
72 \DeclareOption{math}{\math@true\mthgen@true}
73 \ensuremath{$\ $\ $} \{\math@false\}
75
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 \end{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 \end{aut} {\aut@true} txtgen@true\mthgen@true}
95 \DeclareOption{noaut}{\aut@false}
96
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 \neq \frac{1}{100} \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:
125
126 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{
128 \ExecuteOptions{aux,txtgen,mthgen,text,math,com,gam,log,aut}%
130 \ProcessOptions\relax%
132 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
137 \ifaux@
138
139 \ifamsdef@
140 % AMS Packages
           \RequirePackage{amsmath}
          \RequirePackage{amssymb}
143 \interdisplaylinepenalty=2500
144 \fi
145
146 \ifamsthm@
147 % AMS Theorem Tools
148 \RequirePackage{amsthm}
149 \fi
150
151 \ifthmtls@
152 % Theorem Tools
         \RequirePackage{thmtools, thm-restate}
154 \fi
155
156 \ifenmtls@
           % Enumeration Tools
           \RequirePackage{paralist}
158
159 \fi
161 \ifhypref@
```

```
163
          \RequirePackage{hyperref}
      164 \fi
      165
      166 \iffnttls@
         % Font Tools
      167
         \RequirePackage[final]{microtype}
      169 \fi
      170
      171 \ifcrv@
          % Camera-Ready Version
      173
      174
          %%...
      175
      176 \ensuremath{\setminus} \mathtt{else}
         % Draft Version
      177
      178
          %%...
      179
      180
          \ifchgbar@
      181
           % Change Bars
           \RequirePackage{changebar}
      183
          \fi
      184
      185
          \iflinnum@
      186
           % Line Numbers
      187
           \if@twocolumn
      188
            \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
      189
      190
            \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
      191
      192
           \fi
          \fi
      193
      194
      195
          %%...
      196
      197 \fi
      198
      199 \fi
      Bbo Math Font: ... to do!
\mathbbo
      204 \left\{ \mathbb{T}_{mathbbo}{} \right\} \\
\matheus Eus Math Font: ... to do!
      205 \left\{ \mathbf{Watheus} \right\} \left\{ \mathbf{U} \right\} \left\{ \mathbf{n} \right\}
\mathpzc Pzc Math Font: ... to do!
      206 \left\{ \mathbf{T1}_{pzc}_{m}_{it} \right\}
\mathscr Scr Math Font: ... to do!
      207 \left\{ \mathbf{W}_{n}\right\}
      \omicron Auxiliary Greek lowercase letter: ... to do!
      212 \csdef{omicron}{o}
```

% Hyper References

```
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
                        213 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
                        214 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
                        215 \csdef{Nu}{N} \csdef{Nu}{N} \csdef{Omicron}{O}
                        216 \end{P} \csdef{Rho}{P} \csdef{Tau}{T} \csdef{Chi}{X}
                        Emptiness check: \{A\}\{\langle B\}\}\ 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"
                        221 \newcommand{\empchk}[2]
                        222
                                {\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"
                         223 \newcommand{\defval}[2]
                                {\if&#1&#2\else#1\fi}
                        \arglef Left extension: \arglef{\langle}\langle} \equiv \langle \lang
                       Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                             • \arglef{A}{} = ""
                             • \arglef{A}{B} = "AB"
                        226 \newcommand{\arglef}[2]
                                {\empchk{#2}{#1\allowbreak#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"
                        228 \newcommand{\argrig}[2]
                                {\empchk{#1}{#1\allowbreak#2}}
       \argmid Middle extension: \argmid{\langle A\rangle} \{\langle B\rangle} \{\langle C\rangle}$ evaluates to the concatenation \langle ABC \rangle of the three
                       arguments, if Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                             • \argmid{A}{}{C} = ""
                             • \argmid{A}{B}{C} = "ABC"
                         230 \newcommand{\argmid}[3]
                                {\empchk{#2}{#1\allowbreak#2\allowbreak#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"
                         232 \newcommand{\argsep}[3]
```

{\if\else#1\allowbreak\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!}
               235 \newcommand{\varcmd}[6]
                     {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
                       237
               238
                     \expandafter\newcommand\csname check#1arg\endcsname[1]
               239
                       {\csname @ifnextchar\endcsname%
               240
                         \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
               241
                     \expandafter\newcommand\csname#1\endcsname[1]
                       {\csname check#larg\endcsname{#3##1}}}
               242
               Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\ ... to do!
               244 \newcommand{\seqoftag}[3]
               245
                     {\@for\itr:={#1}\do%
               246
                       {\expandafter\csedef{\itr#2}%
               247
                         {\noexpand\csname #3\endcsname{\itr}}}
              Sequence of commands: \sqoign{A}{\langle A \rangle} {\langle A \rangle} {\langle C \rangle} \dots \text{ to do!}
               248 \newcommand{\seqofcmd}[3]
                     {\@for\itr:={#1}\do%
                       {\expandafter\csedef{\itr#2}%
               250
               251
                         {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}
               \seqoflatlow
              Sequence of Latin lowercase letters: \seqoflatlow{\langle A \rangle}{\langle B \rangle} ... to do!
               253 \newcommand{\seqoflatlow}
                      \{ \ensuremath{\texttt{\colored}} \{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 uppercase letters: \ensuremath{\mathsf{Vagain}} \{\langle A \rangle\} \{\langle B \rangle\} \dots \text{ to do!}
\seqoflatupp
               255 \newcommand{\seqoflatupp}
                     {\ensuremath{\mbox{\mbox{\mbox{$N$}}}} \{\ensuremath{\mbox{\mbox{\mbox{$A$}}}, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z}\}}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
               257 \newcommand{\seqoflatlet}[2]
                     {\seqoflatlow{#1}{\#2}\seqoflatupp{#1}{\#2}}
               Sequence of Greek lowercase letters: \seqofgrklow{\langle A \rangle}{\langle B \rangle} ... to do!
\seqofgrklow
               260 \newcommand{\seqofgrklow}
               261
                     {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                     iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
               262
               263
                     varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
              Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\}\ ... to do!
\seqofgrkupp
               264 \newcommand{\seqofgrkupp}
               265
                     {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
               266
                     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!
               268 \newcommand{\seqofgrklet}[2]
                     {\seqofgrklow{\#1}{\#2}\seqofgrkupp{\#1}{\#2}}
               Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
               271 \newcommand{\seqoflow}[2]
                    {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
```

```
\seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                        273 \newcommand{\seqofupp}[2]
                                                  {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
           \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                        275 \newcommand{\seqoflet}[2]
                                        276 \quad \{\seqoflow{#1}{#2}\seqofupp{#1}{#2}\}
                                        \newtxt ... to do!
                                              • \newtxt[\rmfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                              • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                              • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_outer Ext"
                                        281 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
                                                 {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
         \newtxtsty ... to do!
                                              • \newtxtsty{\rmfamily}{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                              • \newtxtsty{\rmfamily}[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                              • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                        283 \newcommandx{\newtxtsty}[2][2=]
                                                 {\newtxt[\defval{#2}{#1}]}
         \newtxtarg ... to do!
                                               \bullet \texttt{ \  \  } [\texttt{Ext1}] \texttt{ \  \  } [\texttt{Ext2}] = \texttt{``Name}^{\sup}_{\sup} \texttt{Ext1}(\texttt{Arg}) \texttt{Ext2}'' 
                                              • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                              • \newtxtarg[\ttfamily]{Name}[sub][sub][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                        285 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                   {\newtxt[#1]{#2}[#3][#4][#5\argmid{(}{#6}{)}#7]}
  \newtxtargsty ... to do!
                                              • \newtxtargsty{\rmfamily}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                              • \newtxtargsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{Arg}[Ext2] = "Namesub Ext1(Arg)Ext2"
                                               \bullet \texttt{\newtxtargsty} \texttt{\nmfamily} \texttt{[Xttfamily]} \texttt{\name} \texttt{\sub]} \texttt{\sub]} \texttt{\sub]} \texttt{\name} \texttt{\sub} \texttt{\sub}} \texttt{\sub} \texttt{\sub
                                        287 \newcommandx{\newtxtargsty}[2][2=]
                                                  {\newtxtarg[\defval{#2}{#1}]}
      \newtxtoarg ... to do!
                                              • \newtxtoarg[\rmfamily]{Name}[sub][sup][Arg] = "Name_sup_(Arg)"
                                              • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                              • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                        289 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                  {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                              • \newtxtoargsty{\rmfamily}{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                              • \newtxtoargsty{\rmfamily}[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                              • \newtxtoargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_sup_(Arg)"
                                        291 \newcommandx{\newtxtoargsty}[2][2=]
                                        292 {\newtxtoarg[\defval{#2}{#1}]}
         \newtxtpar ... to do!
```

```
 \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{
                                                                                                                                                   • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                                                                                                   • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                                                                                                                 293 \newcommandx{\newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                    {\newtxt[#1]{#2}[#3][#4][#5\argmid{[}{#6}{]}#7]}
       \newtxtparsty ... to do!
                                                                                                                                                   \bullet \texttt{\newtxtparsty}(\texttt{\nmfamily}) = \texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\normall}(\texttt{\n
                                                                                                                                                   \bullet \texttt{\newtxtparsty}(\texttt{\normally}[\texttt{\normall}] \{\texttt{\normall}] \{\texttt{\normall}] \{\texttt{\normall}] \{\texttt{\normall}] \{\texttt{\normall}] \{\texttt{\normall}] \{\texttt{\normall}] (\texttt{\normall}] (\texttt{\normal
                                                                                                                                                   • \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
                                                                                                                                 295 \newcommandx{\newtxtparsty}[2][2=]
                                                                                                                                                                  {\newtxtpar[\defval{#2}{#1}]}
                       \newtxtopar ... to do!
                                                                                                                                                  • \newtxtopar[\rmfamily]{Name}[sub][sup][Par] = "Name sub [Par]"
                                                                                                                                                  • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                                                                                                   • \newtxtopar[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                                                                               297 \newcommandx{\newtxtopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                    {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                                                                                                                                                  • \newtxtoparsty{\rmfamily}{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                                                                                                                                   • \newtxtoparsty{\rmfamily}[\sffamily] {Name} [sub] [sup] [Par] = "Name_sup_[Par]"
                                                                                                                                                  • \mbox{\normalfont Name} [\mbox{\normalfont Sub}] [\mbox{\normalfont Par}] = \mbox{\normalfont Name} [\mbox{\normalfont Name}] = \mbox{\
                                                                                                                                 299 \newcommandx{\newtxtoparsty}[2][2=]
                                                                                                                                                               {\newtxtopar[\defval{#2}{#1}]}
                              \txtsubsup ... to do!
                                                                                                                                                  • \text{txtsubsup}\{\text{sub}\}\{\}=\text{``sub''}; \text{txtsubsup}\{\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sup}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}\{\text{sub}\}=\text{``sub''}; \text{txtsubsup}\{\text{sub}\}=\text{``sub''}; \text{txtsub''}; \text{t
                                                                                                                                                   • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                                                                                                                                   • \txtsubsup[\ttfamily]{Aa}{Bb} = "Bb" Aa
                                                                                                                               301 \newcommand{\txtsubsup}[3][]
                                                                                                                                                               {\ensuremath{\empchk{#2}{_{\text{#1#2}}}\empchk{#3}{^{\text{#1#3}}}}}
                                                                                                                               \txt ... to do!
                                                                                                                                                  • \txt{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                                                                                                                                   • \txt[\scshape]{Name}[sub][sup][Ext] = "NAME_SUB_EXT"
                                                                                                                                                   304 \newcommand{\txt}
                                                                                                                                                                {\newtxtsty{\txtsty}}
                                                    \txtarg ... to do!
                                                                                                                                                  • \text{txtarg{Name}}[\text{sub}][\text{sup}][\text{Ext1}]{\text{Arg}}[\text{Ext2}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}(\text{Arg})\text{Ext2}"
                                                                                                                                                   • \text{txtarg[\scshape]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Arg}\}[\text{Ext2}] = \text{``Name}^{\text{SUP}}_{\text{SUB}}Ext1(\text{Arg})Ext2''
                                                                                                                                                   306 \newcommand{\txtarg}
                                                                                                                                                               {\newtxtargsty{\txtsty}}
                                              \txtoarg ... to do!
                                                                                                                                                  • \text{txtoarg{Name}[sub][sup][Arg]} = \text{"Name}_{\text{sub}}^{\text{sup}}(Arg)"
                                                                                                                                                   • \t \ [sub] [sub] [sup] [Arg] = "Name\ [Sub] [sup] [Arg] = "Name\ [sub] [sub] [sub] [sub] = "Name\ [sub] [sub] [sub] = "Name\ [sub] [sub] = "Name\ [sub] = "Name\
                                                                                                                                                    \qquad \qquad \bullet \  \, \texttt{ \txtoarg[\bfseries] \{Name\} [sub] [sup] [Arg] = "Name}_{sub}^{sup} (Arg)" }
```

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308 \newcommand{\txtoarg}
                                    {\newtxtoargsty{\txtsty}}
       \txtpar ... to do!
                                • \text{txtpar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext1}[Par]\text{Ext2"}
                                • \txtpar[\schape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAME_{SUB}^{SUP}EXT1[PAR]EXT2"
                                • \txtpar[\bfseries] {\nme} [sub] [sup] [Ext1] {\nme} [Ext2] = "Name_{sub}^{sup} Ext1 [Par] Ext2"
                           310 \newcommand{\txtpar}
                                   {\newtxtparsty{\txtsty}}
                           311
     \txtopar ... to do!
                                • \txtopar{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                • \txtopar[\schape]{Name}[sub][sup][Par] = "NAME_{SUB}^{SUP}[PAR]"
                                • \txtopar[\bfseries]{Name}[sub][sup][Par] = "Name sup [Par]"
                           312 \newcommand{\txtopar}
                           313 {\newtxtoparsty{\txtsty}}
       \txtsty ... to do!
                           314 \newcommand{\txtsty}
                           315 {\mdseries\upshape\rmfamily}
       \cmdtxt ... to do!
                                • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|_{SUB}Ext|
                           317 \newcommand{\cmdtxt}[1]
                           318 {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}
 \cmdtxtarg ... to do!
                                • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\txtargNewCmd{Name}[sup][Ext1] = \verb|\txtargNewCmd{Name}[sup][ext2] = \verb|\txtargNewCmd{Name}[sup][ext2] = \verb|\txtargNewCmd{Name}[sup][ext2] = \verb|\txtargNewCmd{Name}[sup][ext2][ext2] = \verb|\txtargNewCmd{Name}[sup][ext2][ext2][ext2][ext2] = \verb|\txtargNewCmd{Name}[sup][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2
                           319 \newcommand{\cmdtxtarg}[1]
                           320 {\csdef{txtarg#1}{\newtxtargsty{\csname txtsty#1\endcsname}}}
\cmdtxtoarg ... to do!
                                • \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \t Name [sub] [sup] [Arg] = Name_{SUB} (Arg)
                           321 \newcommand{\cmdtxtoarg}[1]
                                   {\csdef{txtoarg#1}{\newtxtoargsty{\csname txtsty#1\endcsname}}}
 \cmdtxtpar ... to do!
                                • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_SUP_EXT1[PAR]EXT2
                           323 \newcommand{\cmdtxtpar}[1]
                                    {\csdef{txtpar#1}{\newtxtparsty{\csname txtsty#1\endcsname}}}
\cmdtxtopar ... to do!
                                • \cmdtxtopar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\NAME_{SUB}^{SUP}[PAR]|
                           325 \newcommand{\cmdtxtopar}[1]
                                   {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}
 \cmdtxtall ... to do!
                                • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|^{SUP}_{SUB}Ext|
                                    \txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_SUB_EXT1(ARG)EXT2
                                    \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|^{SUP}(ARG)
                                    \verb|\txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\txtparNewCmd{Name}[sub][sup][ext1][Par][ext2]
                                    \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\Name|_{SUB}^{SUP}[PAR]|
```

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327 \newcommand{\cmdtxtall}[1]
                                                       {\cmdtxt{#1}\cmdtxtarg{#1}\cmdtxtoarg{#1}\cmdtxtpar{#1}\cmdtxtopar{#1}}
                                            \usrtxt ... to do!
                                                   • \usrtxt{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                                       \t CmdName {Suf}{arg}; \t Arg} = cmdName (Arg)
                                                       \t {cmdName} {Suf} {par}; \t {Par} = cmdName [Par]
                                                   • \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                       \usrtxt{cmdName}{Suf}{arg}[newName]; \cmdNameSuf{Arg} = newName(Arg)
                                                       330 \newcommandx{\usrtxt}[4][4=]
                                                       {\csdef{#1#2}{\csname txt#3\endcsname{\defval{#4}{#1}}}}
                                            \newmth ... to do!
                                                  • \newmth[mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup} Ext"
                                                  • \newmth[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                            336 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                            337 {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
          \newmthsty ... to do!
                                                   \bullet \mathtt{Name}_{sub}[\mathtt{Sub}][\mathtt{Ext}] = \mathtt{``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"
                                            338 \newcommandx{\newmthsty}[2][2=]
                                            339 {\newmth[\defval{#2}{#1}]}
          \newmtharg ... to do!
                                                  • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
                                                  \bullet \ \texttt{\ \ } [\texttt{sub}] [\texttt{sub}] [\texttt{sup}] [\texttt{Ext1}] \{\texttt{Arg}\} [\texttt{Ext2}] = \ \texttt{\ \ } [\texttt{Name}_{sub}^{sup} Ext1 (Arg) Ext2 \texttt{\ \ } ]
                                                    \bullet \verb| \newmtharg[mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb| "Name| | sub| Ext1(Arg)Ext2" | sub| | sub| Ext1(Arg)Ext2" | sub| | sub| Ext1(Arg)Ext2" | 
                                            340 \newcommandx{\newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                            341 \quad {\newnth[#1]{#2}[#3][#4][#5\argmid{\!\left(}{#6}{\right)\arglef{\!}{#7}}]}
  \newmthargsty ... to do!
                                                  • \newmthargsty{mathrm}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
                                                   \bullet \ \texttt{\newmthargsty\{mathrm\}[mathsf]{Name}[sub][sup][Ext1]{Arg}[Ext2] = \texttt{\normalfont{Name}} \\ \text{\normalfont{Ext1}($Arg$)} \\ \text{\normalfont{Ext2}"}
                                                    \bullet \verb| \newmthargsty{mathrm}[mathtt]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name $^{sup}_{sub}Ext1(Arg)Ext2" | The substitution of the substitution 
                                            342 \newcommandx{\newmthargsty}[2][2=]
                                            343 {\newmtharg[\defval{#2}{#1}]}
        \newmthoarg ... to do!
                                                  • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                   \bullet \ \texttt{\ \ } [\mathtt{Sup}] \ [\mathtt{Arg}] = \ \texttt{\ \ \ } [\mathtt{Name} \} \ [\mathtt{Sup}] \ [\mathtt{Arg}] = \ \texttt{\ \ \ } [\mathtt{Name} \} \ [\mathtt{\ \ \ } ]
                                                    \qquad \qquad \texttt{`Name}[\texttt{mathtt}] \texttt{`Name}[\texttt{sub}] \texttt{[sup]} \texttt{[Arg]} = \texttt{``Name}_{sub}^{sup} (Arg) \texttt{''} 
                                            344 \newcommandx{\newmthoarg}[5][1=, 3=, 4=, 5=]
                                            345 {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                   • \newmthoargsty{mathrm}{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
```

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• \newmthoargsty{mathrm}[mathsf]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                                  \bullet \verb| \newmthoargsty{mathrm}| [mathtt] {\tt Name} [sub] [sup] [{\tt Arg}] = "{\tt Name}_{sub}^{sup} (Arg)" 
                                                                                                  346 \newcommandx{\newmthoargsty}[2][2=]
                                                                                                                          {\newmthoarg[\defval{#2}{#1}]}
                       \newmthpar ... to do!
                                                                                                                • \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
                                                                                                                • \newmthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
                                                                                                  348 \newcommandx{\newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                {\mathbb{41}} = {\text{1}} = 
     \newmthparsty ... to do!
                                                                                                                 \bullet \texttt{ \  \  } \texttt{ [Ext1] \{Par\} [Ext2] = "Name} \\ \texttt{ \  \  } \texttt{ Ext1[Par] Ext2"} \\ \texttt{ \  \  } \texttt{ \  \  } \texttt{ Ext2] = "Name} \\ \texttt{ \  \  } \texttt{ Ext2[Par] Ext2"} \\ \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \ \  \  } \texttt{ \  \  } \texttt{
                                                                                                   350 \newcommandx{\newmthparsty}[2][2=]
                                                                                                                          {\newmthpar[\defval{#2}{#1}]}
                 \newmthopar ... to do!
                                                                                                                \bullet \ \texttt{\ \ } [\mathtt{Sup}] \ [\mathtt{Par}] = "\mathtt{Name}^{sup}_{sub} [Par]"
                                                                                                                  \qquad \qquad \texttt{`Name'sub'} [\texttt{Sub'}] [\texttt{Sup'}] [\texttt{Par'}] = \texttt{``Name'} [Par']" 
                                                                                                                  \qquad \qquad \texttt{`Name} \texttt{`sup'} \texttt{[Sub] [Sup] [Par]} = \texttt{``Name} \texttt{`sup'} \texttt{[Par]}" \\
                                                                                                  352 \mbox{ newcommandx{\newmthopar}[5][1=, 3=, 4=, 5=]}
                                                                                                                            {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                                                • \newmthoparsty{mathrm}{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                                                • \newmthoparsty{mathrm} [mathsf] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup} [Par]"
                                                                                                                  \bullet \ \texttt{\ \ } [\texttt{nathtt}] \ \texttt{\ \ } [\texttt{Sub}] \ \texttt{\ \ } [\texttt{Par}] = \ \texttt{\ \ \ } [\texttt{\ \ } [\texttt{\ \ } ]"
                                                                                                  354 \newcommandx{\newmthoparsty}[2][2=]
                                                                                                                          {\newmthopar[\defval{#2}{#1}]}
                       \mthsubsup ... to do!
                                                                                                 356 \newcommand{\mthsubsup}[2]
                                                                                                                         {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                                                                                 \mth ... to do!
                                                                                                                • \mathbb{Sup}[Sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                                                                 • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                                                                 • \mth[mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                  359 \newcommand{\mth}
                                                                                                                         {\newmthsty{\mthsty}}
                                         \mtharg ... to do!
                                                                                                                \bullet \  \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, = \  \, \texttt{\bar{Name}} \  \, \texttt{\bar{Ext1}} \  \, \texttt{\bar{Ext2}} \  \, \texttt{\bar{Ext2}}
                                                                                                                \bullet \  \, \texttt{\bar{larg}[mathbf]{Name}[sub][sup][Ext1]{Arg}[Ext2]} = "\mathbf{Name}^{sup}_{sub}Ext1(Arg)Ext2"
                                                                                                                 \bullet \  \, \texttt{\bar{mathtt}[Name][sub][sup][Ext1][Arg][Ext2]} = \text{\bar{"Name}} \\ \text{\ensuremath{"Ext1(Arg)Ext2"}} \\ \text{\bar{mathtt}[Ext2]} = \text{\bar{"Name}} \\ \text{\ensuremath{"Ext1(Arg)Ext2"}} \\ \text{\ensuremath{"Ext1(Arg)Ext2"}} \\ \text{\ensuremath{"Ext2(Arg)Ext2"}} \\ \text{\ensuremath{"Ext2(Arg)Ext2(Arg)Ext2"}} \\ \text{\ensuremath{"Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ext2(Arg)Ex
                                                                                                  361 \newcommand{\mtharg}
                                                                                                 362 {\newmthargsty{\mthsty}}
                                   \mthoarg ... to do!
                                                                                                                 • \mthoarg{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
```

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• \mthoarg[mathbf]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                 • \mthoarg[mathtt]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                       363 \newcommand{\mthoarg}
                                                                       {\newmthoargsty{\mthsty}}
                \mthpar ... to do!
                                                                • \mthpar{Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name_{sub}^{sup} Ext1[Par]Ext2"
                                                                \bullet \  \  \, \texttt{ hthpar[mathbf] \{Name\}[sub][sup][Ext1] \{Par\}[Ext2]} = \text{``Name}_{sub}^{sup}Ext1[Par]Ext2"
                                                                 • \mthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
                                                       365 \mbox{ } \mbox{mthpar}
                                                                       {\newmthparsty{\mthsty}}
            \mthopar ... to do!
                                                                • \mthopar{Name}[sub][sup] [Par] = "Name_{sub}^{sup}[Par]"
                                                                • \mthopar[mathtt] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup}[Par]"
                                                       367 \newcommand{\mthopar}
                                                                        {\newmthoparsty{\mthsty}}
               \verb|\mthsty| \dots to do!
                                                      369 \newcommand{\mthsty}
                                                      \cmdmth ... to do!
                                                                 • \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                        \verb|\mbox| \verb| [sub] [sup] [Ext] = \verb|\mbox| \verb| [sup] [Ext] = \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb| [sup] [Ext] = \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb| [sup] [Ext] = \verb|\mbox| \mbox| \verb|\mbox| \mbox| \mbox| \mbox| \mbox| \m
                                                       372 \newcommand{\cmdmth}[1]
                                                      373 \quad \{\csdef\{mth\#1\}\{\newmthsty\{mthsty\#1\}\}\}
   \cmdmtharg ... to do!
                                                                 • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                       374 \mbox{ }\mbox{mewcommand{\cmdmtharg}[1]}
                                                                     {\csdef{mtharg#1}{\newmthargsty{mthsty#1}}}
\cmdmthoarg ... to do!
                                                                 \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                       \verb|\mbox| \verb| [sub] [sup] [Arg] = \verb|\mbox| \verb| [sub] = \verb|\mbox| = \verb|\mbox| \verb| [sub] = \verb|\mbox| = \verb|\mbox
                                                       376 \newcommand{\cmdmthoarg}[1]
                                                                          {\csdef{mthoarg#1}{\newmthoargsty{mthsty#1}}}
   \cmdmthpar ... to do!
                                                                • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                       \verb| mthparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb| Name| | sub| | Ext1[Par]Ext2|
                                                       378 \newcommand{\cmdmthpar}[1]
                                                                       {\csdef{mthpar#1}{\newmthparsty{mthsty#1}}}
\cmdmthopar ... to do!
                                                                 • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                       \verb|\mbox| {\tt Sub} [\tt Sub] [\tt Sup] [\tt Par] = \verb|\mbox| {\tt Name}_{sub}^{sup} [Par]
                                                       380 \newcommand{\cmdmthopar}[1]
                                                                       {\csdef{mthopar#1}{\newmthoparsty{mthsty#1}}}
   \cmdmthall ... to do!
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• \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                          \verb|\mbox| \verb| [sub] [sup] [Ext] = \verb|\mbox| \verb| = Name |_{sub}^{sup} Ext|
                                          \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\mathargNewCmd{Name}| Ext1(Arg)Ext2
                                          \verb|\mbox| \verb| mthparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\mbox| \verb| name| | sub| Ext1[Par]Ext2|
                                          \verb|\mbox| {\bf Sub} [{\bf Sup}] [{\bf Par}] = {\bf Name}_{sub}^{sup} [Par]
                                 382 \newcommand{\cmdmthall}[1]
                                         {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthopar{#1}\cmdmthopar{#1}}
                                 \usrmth ... to do!
                                      • \ \ \usrmth{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                          \t \mathbb{Suf} = cmdName \{Par\} = cmdName [Par] \}
                                      • \label{local_sum} \label{local_sum} \label{local_sum} $$\sup_{n \in \mathbb{N}} {\operatorname{local_sum}_{n \in \mathbb{N}}} (\operatorname{local_sum}_{n \in \mathbb{N}} ) $$
                                          \verb|\cmdName| {Suf} {par} [newName]; \verb|\cmdNameSuf} {Par} = newName [Par]
                                 385 \newcommandx{\usrmth}[4][4=]
                                 386 {\csdef{\#1}#2}{\csname mth#3\endcsname{\defval{\#4}{\#1}}}
                                 \usrmthlatlow ... to do!
                                388 \newcommandx{\usrmthlatlow}[4][4=]
                                          {\ \{\ x\} = \{
\usrmthlatupp ... to do!
                                390 \newcommandx{\usrmthlatupp}[4][4=]
                                          {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                392 \newcommandx{\usrmthlatlet}[4][4=]
                                393 \{ \text{wsrmth} \{ \#1 \} \{ \#2 \} \{ \#4 \} \} \}
\usrmthgrklow ... to do!
                                394 \newcommandx{\usrmthgrklow}[4][4=]
                                          {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                 396 \newcommandx{\usrmthgrkupp}[4][4=]
                                 397 {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
\usrmthgrklet ... to do!
                                 398 \newcommandx{\usrmthgrklet}[4][4=]
                                          {\usrmth{#1}{#2}{#3}[#4]\seqofgrklet{#1#2}{mth#3}}
      \usrmthlow ... to do!
                                 400 \newcommandx{\usrmthlow}[4][4=]
                                401 \{ \text{\ wsrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ \text{\ mth} \{ \#3 \} \} 
      \usrmthupp ... to do!
                                 402 \newcommandx{\usrmthupp}[4][4=]
                                403 {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
      \usrmthlet ... to do!
                                404 \newcommandx{\usrmthlet}[4][4=]
                                          {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
```

```
410 \iftxtgen@
  \txtdef, ... to do!
                     ullet \txtdef{Name}[sub][sup][Ext] = Name_{
m sub}^{
m sup}Ext
                     ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{
m sub}^{
m sup}Ext1(Arg)Ext2
                      \qquad \qquad \texttt{(Sub) [sub] [Ext1] {Par} [Ext2]} = Name_{\text{sub}}^{\text{sup}} Ext1[Par]Ext2 
                   411 %% Style for Definitions
                   412 \cmdtxtall{def}\newcommand{\txtstydef}{\bfseries\em}
    \cmdtxtdef ... to do!
                     • \cmdtxtdef{cmdName};
                       \verb|\cmdName[sub][sub][ext]| = cmdName_{\mathrm{sub}}^{\mathrm{sub}}ext
                     • \cmdtxtdef{cmdName}[newName];
                       \verb|\cmdName[sub][sub][ext]| = newName^{\mathrm{sub}}_{\mathrm{sub}}ext
                   413 \newcommandx{\cmdtxtdef}[2][2=]
                  414 {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                     \cmdtxtargdef{cmdName};
                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName^{\text{sub}}_{\text{sub}}ext1(arg)ext2
                     \cmdtxtargdef{cmdName}[newName];
                       \colon = [sub][sub][ext1][arg][ext2] = newName^{sub}_{sub}[ext1][arg][ext2]
                   415 \newcommandx{\cmdtxtargdef}[2][2=]
                  416 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                     \cmdtxtoargdef{cmdName};
                       \verb|\cmdName[sub][sub][arg]| = cmdName_{\rm sub}^{\rm sub}(arg)
                     \cmdtxtoargdef{cmdName}[newName];
                       \colon = newName[sub][sub][arg] = newName[sub](arg)
                   417 \newcommandx{\cmdtxtoargdef}[2][2=]
                       {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                     • \cmdtxtpardef{cmdName};
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{\tt sub}^{\tt sub}ext1[par]ext2|
                     • \cmdtxtpardef{cmdName}[newName];
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName^{\text{sub}}_{\text{sub}}ext1[par]ext2|
                   419 \newcommandx{\cmdtxtpardef}[2][2=]
                       {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                     • \cmdtxtopardef{cmdName};
                       \verb|\cmdName[sub][sub][par]| = cmdName_{\tt sub}^{\tt sub}/par|
                     • \cmdtxtopardef{cmdName}[newName];
                       \verb|\cmdName[sub][sub][par]| = newName_{\rm sub}^{\rm sub}/par|
                   421 \newcommandx{\cmdtxtopardef}[2][2=]
                   422 {\usrtxt{#1}{}{opardef}[#2]}
  \txtabr, ... to do!
                     • \text{txtabr{Name}}[\text{sub}][\text{sup}][\text{Ext}] = Name_{\text{sub}}^{\text{sup}}Ext
                      \qquad \texttt{\txtargabr{Name}[sub][sup][Ext1]{Arg}[Ext2]} = Name_{\text{sub}}^{\text{sup}} Ext1(Arg) Ext2 
                      \bullet \ \texttt{\txtparabr{Name}[sub][sup][Ext1]{Par}[Ext2]} = Name^{\sup}_{\sup} Ext1[Par]Ext2
```

```
423 %% Style for Abbreviations
                    424 \cmdtxtall{abr}\newcommand{\txtstyabr}{\em}
    \cmdtxtabr ... to do!
                       • \cmdtxtabr{cmdName};
                         \cmdName[sub] [sub] [ext] = cmdName_{sub}^{sub} ext
                       \cmdtxtabr{cmdName} [newName];
                         \verb|\cmdName[sub][sub][ext]| = newName_{\rm sub}^{\rm sub}ext
                    425 \newcommandx{\cmdtxtabr}[2][2=]
                    426 {\usrtxt{#1}{}{abr}[#2]}
 \cmdtxtargabr ... to do!
                       • \cmdtxtargabr{cmdName};
                         \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{\rm sub}^{\rm sub}ext1(arg)ext2
                       • \cmdtxtargabr{cmdName} [newName];
                         \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2
                    427 \newcommandx{\cmdtxtargabr}[2][2=]
                        {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                       • \cmdtxtoargabr{cmdName};
                         \cmdName[sub][sub][arg] = cmdName_{\rm sub}^{\rm sub}(arg)
                       • \cmdtxtoargabr{cmdName}[newName];
                         \verb|\cmdName[sub][sub][arg]| = newName_{\rm sub}^{\rm sub}(arg)
                    429 \newcommandx{\cmdtxtoargabr}[2][2=]
                         {\usrtxt{#1}{}{oargabr}[#2]}
 \cmdtxtparabr ... to do!
                       • \cmdtxtparabr{cmdName};
                         \cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                       • \cmdtxtparabr{cmdName}[newName];
                         \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName^{\rm sub}_{\rm sub}ext1/par/ext2
                    431 \newcommandx{\cmdtxtparabr}[2][2=]
                        {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                       • \cmdtxtoparabr{cmdName};
                         \verb|\cmdName[sub][sub][par]| = cmdName_{\rm sub}^{\rm sub}/par|
                       \cmdtxtoparabr{cmdName}[newName];
                         \cmdName[sub] [sub] [par] = newName_{\text{sub}}^{\text{sub}}/par
                    433 \newcommandx{\cmdtxtoparabr}[2][2=]
                        {\usrtxt{#1}{}{oparabr}[#2]}
                   \txtname, ... to do!
                       • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Sup}][\text{Ext}] = \text{Name}_{\text{Sup}}^{\text{SUP}}\text{Ext}
                       • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(Arg)EXT2
                        \qquad \qquad \text{$$ \text{txtparname}[\text{Sub}][\text{sub}][\text{Ext1}]$ [Par][\text{Ext2}] = Name_{\text{Sub}}^{\text{SUP}} \text{Ext1}[Par] \text{Ext2} } 
                    436 %% Style for Names
                   437 \verb|\cmdtxtall{name}\newcommand{\txtstyname}{\mbox{\mbox{$\setminus$ txtstyname}}} \
   \cmdtxtname ... to do!
                       • \cmdtxtname{cmdName};
                         \verb|\cmdName[sub][sub][ext]| = CMDNAME_{SUB}^{SUB}EXT
                       • \cmdtxtname{cmdName}[newName];
                         \verb|\cmdName[sub][sub][ext]| = \verb|\newName[sub]| = \verb|\newName[sub]|
```

```
438 \newcommandx{\cmdtxtname}[2][2=]
                                                                     {\usrtxt{#1}{}{name}[#2]}
   \cmdtxtargname ... to do!
                                                               • \cmdtxtargname{cmdName};
                                                                     \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
                                                                • \cmdtxtargname{cmdName}[newName];
                                                                     \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                                        440 \newcommandx{\cmdtxtargname}[2][2=]
                                                       441 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                               • \cmdtxtoargname{cmdName};
                                                                     \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                                                               • \cmdtxtoargname{cmdName}[newName];
                                                                     \colon 
                                                        442 \newcommandx{\cmdtxtoargname}[2][2=]
                                                       443 {\usrtxt{#1}{}{oargname}[#2]}
   \cmdtxtparname ... to do!
                                                                \cmdtxtparname{cmdName};
                                                                     \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\cmdName[sub][sub][ext1]{par}[ext2]
                                                               • \cmdtxtparname{cmdName}[newName];
                                                                     444 \newcommandx{\cmdtxtparname}[2][2=]
                                                                     {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                                                                \cmdtxtoparname{cmdName};
                                                                     \label{eq:cmdName} $$ \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR] $$
                                                               • \cmdtxtoparname{cmdName}[newName];
                                                                     \colon = NEWNAME_{SUB}^{SUB}[PAR]
                                                        446 \newcommandx{\cmdtxtoparname}[2][2=]
                                                       447 {\usrtxt{#1}{}{oparname}[#2]}
         \txtcom, ... to do!
                                                               \bullet \ \texttt{\txtcom{Name}[sub][sup][Ext]} = Name^{SUP}_{SUB}Ext
                                                               • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                                                               • \t Name [sub] [sub] [Ext1] [Par] [Ext2] = Name [Sup Ext1] [Par] [Ext2]
                                                        448 %% Style for Complexities
                                                        449 \cmdtxtall{com}\newcommand{\txtstycom}{\mdseries\scshape\rmfamily}
               \cmdtxtcom ... to do!
                                                               • \cmdtxtcom{cmdName};
                                                                     \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
                                                                • \cmdtxtcom{cmdName}[newName];
                                                                     450 \newcommandx{\cmdtxtcom}[2][2=]
                                                       451 {\usrtxt{#1}{}{com}[#2]}
      \cmdtxtargcom ... to do!
                                                               • \cmdtxtargcom{cmdName};
                                                                     \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                                                • \cmdtxtargcom{cmdName} [newName];
                                                                     \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1][ext2][ext2] = \verb|\newName[sub][sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                                        452 \newcommandx{\cmdtxtargcom}[2][2=]
                                                        453 {\usrtxt{#1}{}{argcom}[#2]}
```

```
\cmdtxtoargcom ... to do!
                                       • \cmdtxtoargcom{cmdName};
                                           \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                       • \cmdtxtoargcom{cmdName}[newName];
                                          \cmdName[sub][sub][arg] = NEWNAME_{SUB}^{SUB}(ARG)
                                  454 \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|\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
                                  456 \newcommandx{\cmdtxtparcom}[2][2=]
                                          {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                       • \cmdtxtoparcom{cmdName};
                                          \label{eq:cmdNamesub} $$ \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR] $$
                                       • \cmdtxtoparcom{cmdName}[newName];
                                           \colon = [sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                  458 \verb|\newcommandx{\cmdtxtoparcom}[2][2=]
                                          {\usrtxt{#1}{}{oparcom}[#2]}
                                  460 \fi
                                 465 \ifmthgen@
 \mthname, ... to do!
                                       • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                       \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]\{Arg\}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                                       • \mthparname{NAME}[sub] [sup] [Ext1] {Par} [Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par]Ext2
                                  466 %% Style for Names
                                 467 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
      \AName, ... to do!
                                \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                 468 \seqoflatupp{Name}{mthname}
      \cmdmthname ... to do!
                                       \cmdmthname{CMDNAME};
                                          \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                                       • \cmdmthname{cmdName}[NEWNAME];
                                          \verb|\cmdNameName[sub][sub][ext]| = \mathcal{NEWNAME}^{sub}_{sub} ext|
                                  469 \newcommandx{\cmdmthname}[2][2=]
                                 470 {\usrmth{#1}{Name}{name}[#2]}
\cmdmthargname ... to do!
                                       • \cmdmthargname{CMDNAME};
                                           \verb|\CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}^{sub}_{sub}ext1(arg)ext2
                                       • \cmdmthargname{cmdName}[NEWNAME];
                                          \cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                  471 \newcommandx{\cmdmthargname}[2][2=]
                                  472 {\usrmth{#1}{Name}{argname}[#2]}
```

```
\cmdmthoargname ... to do!
                                                                                                \cmdmthoargname{CMDNAME};
                                                                                                        \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                                                               • \cmdmthoargname{cmdName}[NEWNAME];
                                                                                                       \verb|\cmdNameName[sub][sub][arg]| = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                                                                                    473 \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
                                                                                    475 \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]
                                                                                    477 \newcommandx{\cmdmthoparname}[2][2=]
                                                                                                    {\usrmth{#1}{Name}{oparname}[#2]}
             \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\
                                                                                               • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N} \mathcal{A} \mathcal{M} \mathcal{E}^{sup}_{sub} Ext
                                                                                               \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]{Arg}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                                                                                                \bullet \  \, \texttt{\baselineskip} \  \, \texttt{\baselinesk
                                                                                    479 %% Style for Families
                                                                                   480 \mbox{ }\mbox{mthall{fam}\newcommand{mthstyfam}{\mbox{mathscr}}}
                       \AFam, ... to do!
                                                                                \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{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}
                                                                                   481 \seqoflatupp{Fam}{mthfam}
                       \cmdmthfam ... to do!
                                                                                               • \cmdmthfam{CMDNAME};
                                                                                                       \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext]
                                                                                                • \cmdmthfam{cmdName}[NEWNAME];
                                                                                                       \verb|\cmdNameFam[sub][sub][ext]| = \mathscr{NEWNAME}^{sub}_{sub}ext
                                                                                    482 \newcommandx{\cmdmthfam}[2][2=]
                                                                                                    {\usrmth{#1}{Fam}{fam}[#2]}
         \cmdmthargfam ... to do!
                                                                                               • \cmdmthargfam{CMDNAME};
                                                                                                        \verb|\CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext1][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext
                                                                                                • \cmdmthargfam{cmdName}[NEWNAME];
                                                                                                       \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                                                                    484 \newcommandx{\cmdmthargfam}[2][2=]
                                                                                   485 {\usrmth{#1}{Fam}{argfam}[#2]}
    \cmdmthoargfam ... to do!
                                                                                               \cmdmthoargfam{CMDNAME};
                                                                                                        \verb|\CMDNAMEFam[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][sub][arg]|
                                                                                                • \cmdmthoargfam{cmdFam}[NEWNAME];
                                                                                                       \verb|\cmdFamFam[sub][sub][arg]| = \mathscr{NEWNAME}^{sub}_{sub}(arg)
```

```
486 \newcommandx{\cmdmthoargfam}[2][2=]
                        {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                      \cmdmthparfam{CMDNAME};
                        \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par]ext2
                       • \cmdmthparfam{cmdName}[NEWNAME];
                        \cmdNameFam[sub][sub][ext1][par][ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                    488 \newcommandx{\cmdmthparfam}[2][2=]
                        {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                      • \cmdmthoparfam{CMDNAME};
                        \verb|\CMDNAMEFam[sub][sub][par]| = \mathscr{CMDNAMEFam}[sub][par]|
                       • \cmdmthoparfam{cmdFam}[NEWNAME];
                        \cmdFamFam[sub] [sub] [par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                    490 \newcommandx{\cmdmthoparfam}[2][2=]
                        {\usrmth{#1}{Fam}{oparfam}[#2]}
  \mthcls, ... to do!
                      • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                      \bullet \ \texttt{\ \ } \texttt{[Sub][Sup][Ext1]\{Arg\}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                       \bullet \ \texttt{\mbox{\tt hthparcls{NAME}[sub][sup][Ext1]{Par}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1[Par]Ext2}
                    492 %% Style for Classes
                   493 \mbox{ \cmdmthall{cls}\newcommand{\mbox{\mbox{\cmthstycls}}{\mbox{\mbox{\cmdmtheus}}}}
    \ACls, \ldots to do!
                   A, B, C, D, E, F, G, H, J, J, X, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                   494 \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]| = \verb|NEWNAME|_{sub}^{sub} ext|
                    495 \newcommandx{\cmdmthcls}[2][2=]
                        {\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
                    497 \newcommandx{\cmdmthargcls}[2][2=]
                   498 {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                      • \cmdmthoargcls{CMDNAME};
                         \verb|\CMDNAMECls[sub][sub][arg]| = \verb|\CMDNAME|_{sub}^{sub}(arg)
                       • \cmdmthoargcls{cmdCls}[NEWNAME];
                        \verb|\cmdClsCls[sub][sub][arg]| = NEWNAME_{sub}^{sub}(arg)
                    499 \newcommandx{\cmdmthoargcls}[2][2=]
                        {\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];
                             \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2|
                       501 \newcommandx{\cmdmthparcls}[2][2=]
                             {\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]
                       503 \newcommandx{\cmdmthoparcls}[2][2=]
                            {\usrmth{#1}{Cls}{oparcls}[#2]}
  \mthsig, ... to do!
                          • \mthsig{Name} [sub] [sup] [Ext] = \Re me_{sub}^{sup} Ext
                          \bullet \ \texttt{\ \ } \texttt{[Ext1] \{Arg\} [Ext2]} = \mathcal{N} ame_{sub}^{sup} Ext1(Arg) Ext2
                           • \mthparsig{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                       505 %% Style for Signatures
                       506 \mbox{\mbox{\mbox{$\sim$}}{\mathbf{sig}}\mbox{\mbox{\mbox{$\sim$}}}{\mathbf{sig}}\
     \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},~\tilde{\mathcal{N}},~\mathcal{O},~\mathcal{P},~Q,~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~X,~\mathcal{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
                       507 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
     \cmdmthsig ... to do!
                          • \cmdmthsig{cmdName};
                             \colon d \cmdNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                           • \cmdmthsig{cmdName}[NewName];
                             \colon dNameSig[sub][sub][ext] = NewName_{sub}^{sub}ext
                       508 \newcommandx{\cmdmthsig}[2][2=]
                             {\usrmth{#1}{Sig}{sig}[#2]}
 \cmdmthargsig ... to do!
                          • \cmdmthargsig{cmdName};
                             \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub}ext1(arg)ext2
                           • \cmdmthargsig{cmdName}[NewName];
                             \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{NewName}_{sub}^{sub} ext1(arg) ext2
                       510 \newcommandx{\cmdmthargsig}[2][2=]
                            {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                           \cmdmthoargsig{cmdName};
                             \verb|\cmdNameSig[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                           • \cmdmthoargsig{cmdSig}[NewName];
                             \verb|\cmdSigSig[sub][sub][arg]| = \textit{NewName}^{sub}_{sub}(arg)
                       512 \newcommandx{\cmdmthoargsig}[2][2=]
                       513 {\usrmth{#1}{Sig}{oargsig}[#2]}
 \cmdmthparsig ... to do!
                          • \cmdmthparsig{cmdName};
                             \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{cmdName}_{sub}^{sub}ext1[par]ext2
                           • \cmdmthparsig{cmdName}[NewName];
                             \cmdNameSig[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                       514 \newcommandx{\cmdmthparsig}[2][2=]
                       515 {\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]
                                                       516 \newcommandx{\cmdmthoparsig}[2][2=]
                                                                   {\usrmth{#1}{Sig}{oparsig}[#2]}
      \mthstr, ... to do!
                                                              • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup} Ext
                                                              • \mthargstr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1(Arg)Ext2
                                                               • \mthparstr{Name} [sub] [sup] [Ext1] {Par} [Ext2] = \mathfrak{Name}_{sub}^{sup} Ext1[Par]Ext2
                                                       518 %% Style for Structures
                                                       519 \mbox{ \cmdmthall{str}\newcommand{\mbox{\mbox{\cmthstystr}{\mbox{\cmthfrak}}}}
             \aStr, ... to do!
                                                    \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}, \mathfrak{g}
                                                   \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{H}
                                                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                       520 \ensuremath{\mbox{Str}}{mthstr}\seqofgrklow{Str}{mthstr}
             \cmdmthstr ... to do!
                                                              • \cmdmthstr{cmdName};
                                                                    \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{cmdName}_{sub}^{sub} ext
                                                               • \cmdmthstr{cmdName}[NewName];
                                                                    \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{NewName}_{sub}^{sub} ext
                                                       521 \newcommandx{\cmdmthstr}[2][2=]
                                                       522 {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                               \cmdmthargstr{cmdName};
                                                                    \cmdNameStr[sub][sub][ext1]{arg}[ext2] = cmdMamc_{sub}^{sub}ext1(arg)ext2
                                                               • \cmdmthargstr{cmdName} [NewName];
                                                                     \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                       523 \newcommandx{\cmdmthargstr}[2][2=]
                                                       524 {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                               \cmdmthoargstr{cmdName};
                                                                    \cmdNameStr[sub] [sub] [arg] = cmdMame_{sub}^{sub}(arg)
                                                               • \cmdmthoargstr{cmdStr}[NewName];
                                                                    \verb|\cmdStrStr[sub][sub][arg]| = \mathfrak{NewName}_{sub}^{sub}(arg)
                                                       525 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                   {\usrmth{#1}{Str}{oargstr}[#2]}
   \cmdmthparstr ... to do!
                                                              • \cmdmthparstr{cmdName};
                                                                     \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \verb|\cmdName| sub ext1[par] ext2|
                                                               • \cmdmthparstr{cmdName} [NewName];
                                                                    \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                       527 \newcommandx{\cmdmthparstr}[2][2=]
                                                                    {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                               • \cmdmthoparstr{cmdName};
                                                                    \cmdNameStr[sub] [sub] [par] = cmdName_{sub}^{sub}[par]
```

```
• \cmdmthoparstr{cmdStr}[NewName];
                           \verb|\cmdStrStr[sub][sub][par]| = \mathfrak{NewName}_{sub}^{sub}[par]|
                     529 \newcommandx{\cmdmthoparstr}[2][2=]
                           {\usrmth{#1}{Str}{oparstr}[#2]}
  \mthset, ... to do!
                         • \mathbb{E}_{sub}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                         • \mathbb{E}[Sub][Sub][Sub][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                         • \mathbb{E}_{sub}[Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                     531 %% Style for Sets
                     532 \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
                     533 \seqoflet{Set}{mthset}
     \cmdmthset ... to do!
                         \cmdmthset{cmdName};
                           \colon dNameSet[sub][sub][ext] = cmdName_{sub}^{sub}ext
                         • \cmdmthset{cmdName}[NewName];
                           \verb|\cmdNameSet[sub][sub][ext]| = NewName_{sub}^{sub}ext
                     534 \newcommandx{\cmdmthset}[2][2=]
                     535 {\usrmth{#1}{Set}{set}[#2]}
 \cmdmthargset ... to do!
                         • \cmdmthargset{cmdName};
                           \cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargset{cmdName}[NewName];
                           \label{lem:lemma:sub} $$ \operatorname{Set}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{NewName}_{\operatorname{sub}}^{\operatorname{sub}} ext1(\operatorname{arg})ext2$
                      536 \newcommandx{\cmdmthargset}[2][2=]
                          {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                         \cmdmthoargset{cmdName};
                           \colon dNameSet[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                         • \cmdmthoargset{cmdSet}[NewName];
                           \colon dSetSet[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                      538 \newcommandx{\cmdmthoargset}[2][2=]
                           {\usrmth{#1}{Set}{oargset}[#2]}
 \cmdmthparset ... to do!
                         • \cmdmthparset{cmdName};
                           \colored {\tt NameSet[sub][sub][ext1]{par}[ext2] = cmdName}_{sub}^{sub}ext1[par]ext2
                         • \cmdmthparset{cmdName}[NewName];
                           \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                     540 \newcommandx{\cmdmthparset}[2][2=]
                     541 {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                         • \cmdmthoparset{cmdName};
                           \verb|\cmdNameSet[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                         • \cmdmthoparset{cmdSet}[NewName];
                           \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                     542 \newcommandx{\cmdmthoparset}[2][2=]
                     543 {\usrmth{#1}{Set}{oparset}[#2]}
```

```
\cmdmthsetext ... to do!
                                      544 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                      545 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                      546 \quad \text{usrmthlet{\thestring}{Sym}{sym}}
                                                       [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} % \end{matrix} % The string $$ \defval{\mpchk{$\#2$}} $$ \defval
                                      547
                                               \usrmthlet{\thestring}{Elm}{elm}
                                      548
                                                       [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}}
                                      549
    \mthrel, ... to do!
                                            • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                            \bullet \  \, \texttt{\bar{largrel{Name}}[Sub][Sup][Ext1]{Arg}[Ext2]} = Name^{sup}_{sub}Ext1(Arg)Ext2
                                            • \mthparrel{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                       550 %% Style for Relations
                                      551 \cmdmthall{rel}\newcommand{\mthstyrel}{\mathit}
         \aRel, ... to do!
                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, v, \phi, \varphi, \chi, \psi, \omega
                                    552 \seqoflet{Rel}{mthrel}
         \cmdmthrel ... to do!
                                            • \cmdmthrel{cmdName};
                                                \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                            • \cmdmthrel{cmdName}[NewName];
                                                \colon dNameRel[sub][sub][ext] = NewName_{sub}^{sub}ext
                                       553 \newcommandx{\cmdmthrel}[2][2=]
                                      554 {\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];
                                                \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                       555 \newcommandx{\cmdmthargrel}[2][2=]
                                      556 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                            • \cmdmthoargrel{cmdName};
                                                \verb|\cmdNameRel[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                            • \cmdmthoargrel{cmdRel}[NewName];
                                                \verb|\cmdRelRel[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                                       557 \newcommandx{\cmdmthoargrel}[2][2=]
                                               {\usrmth{#1}{Rel}{oargrel}[#2]}
  \cmdmthparrel ... to do!
                                            • \cmdmthparrel{cmdName};
                                                \verb|\cmdNameRel[sub][sub][ext1][par][ext2]| = cmdName_{sub}^{sub}ext1[par]ext2|
                                            • \cmdmthparrel{cmdName}[NewName];
                                                \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                       559 \newcommandx{\cmdmthparrel}[2][2=]
                                      560 {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                                            \cmdmthoparrel{cmdName};
                                                \verb|\cmdNameRel[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
```

```
• \cmdmthoparrel{cmdRel}[NewName];
                          \verb|\cmdRelRel[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                    561 \newcommandx{\cmdmthoparrel}[2][2=]
                         {\usrmth{#1}{Rel}{oparrel}[#2]}
  \mthfun, ... to do!
                       • \mthfun{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                       \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Arg][Ext2]} = \mathsf{\bar{Name}}_{sub}^{sup} Ext1(Arg) Ext2
                        • \mathbb{E}_{sub}[Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                    563 %% Style for Functions
                    564 \mbox{ \cmdmthall{fun}\newcommand{\mbox{\cmthstyfun}{\mbox{\cmthsf}}}
    \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, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                    565 \seqoflet{Fun}{mthfun}
    \cmdmthfun ... to do!
                        \cmdmthfun{cmdName};
                          \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                        • \cmdmthfun{cmdName}[NewName];
                          \verb|\cmdNameFun[sub][sub][ext]| = \verb|\NewName|^{sub}_{sub} ext|
                    566 \newcommandx{\cmdmthfun}[2][2=]
                    567 {\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];
                          568 \newcommandx{\cmdmthargfun}[2][2=]
                         {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                        • \cmdmthoargfun{cmdName};
                          \cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargfun{cmdFun}[NewName];
                          \colon {\tt CmdFunFun[sub][sub][arg] = NewName}_{sub}^{sub}(arg)
                     570 \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];
                          \verb|\cmdNameFun[sub][sub][ext1][par][ext2]| = \verb|\cmdName$| sub| ext1[par]ext2|
                    572 \newcommandx{\cmdmthparfun}[2][2=]
                    573 {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                       • \cmdmthoparfun{cmdName};
                          \verb|\cmdNameFun[sub][sub][par]| = \verb|\cmdNameFun[sub][par]|
                        • \cmdmthoparfun{cmdFun}[NewName];
                          \cmbox{cmdFunFun[sub][sub][par]} = NewName_{sub}^{sub}[par]
                     574 \newcommandx{\cmdmthoparfun}[2][2=]
                    575 {\usrmth{#1}{Fun}{oparfun}[#2]}
```

```
\mthsym, ... to do!
                                                                  • \mathbb{E}_{sub}[Sub][Sup][Ext] = \mathbb{E}_{sub}Ext
                                                                  • \mathbb{E}_{sub}[Sub][Sub][Ext1][Arg][Ext2] = \mathbb{E}_{sub}[Ext1][Arg][Ext2]
                                                                  • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2]
                                                         576 %% Style for Symbols
                                                         577 \cmdmthall{sym}\newcommand{\mthstysym}{\mathtt}
             \aggreen \
                                                      \mathtt{a},\,\mathtt{b},\,\mathtt{c},\,\mathtt{d},\,\mathtt{e},\,\mathtt{f},\,\mathtt{g},\,\mathtt{h},\,\mathtt{i},\,\mathtt{j},\,\mathtt{k},\,\mathtt{l},\,\mathtt{m},\,\mathtt{n},\,\mathtt{o},\,\mathtt{p},\,\mathtt{q},\,\mathtt{r},\,\mathtt{s},\,\mathtt{t},\,\mathtt{u},\,\mathtt{v},\,\mathtt{w},\,\mathtt{x},\,\mathtt{y},\,\mathtt{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
                                                         578 \seqoflet{Sym}{mthsym}
             \cmdmthsym ... to do!
                                                                  • \cmdmthsym{cmdName};
                                                                        \colon colon col
                                                                  • \cmdmthsym{cmdName}[NewName];
                                                                        \cmdNameSym[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                          579 \newcommandx{\cmdmthsym}[2][2=]
                                                                        {\usrmth{#1}{Sym}{sym}[#2]}
   \cmdmthargsym ... to do!
                                                                  • \cmdmthargsym{cmdName};
                                                                        \cmdNameSym[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                  • \cmdmthargsym{cmdName}[NewName];
                                                                        \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                         581 \newcommandx{\cmdmthargsym}[2][2=]
                                                         582 {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                  • \cmdmthoargsym{cmdName};
                                                                        \verb|\cmdNameSym[sub][sub][arg]| = \verb|\cmdName|^{sub}_{sub}(arg)
                                                                  • \cmdmthoargsym{cmdSym}[NewName];
                                                                        \verb|\cmdSymSym[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
                                                          583 \newcommandx{\cmdmthoargsym}[2][2=]
                                                                        {\usrmth{#1}{Sym}{oargsym}[#2]}
   \cmdmthparsym ... to do!
                                                                  \cmdmthparsym{cmdName};
                                                                        \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                                                  • \cmdmthparsym{cmdName}[NewName];
                                                                        \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNamesub| ext1[par]ext2|
                                                          585 \newcommandx{\cmdmthparsym}[2][2=]
                                                                       {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                  • \cmdmthoparsym{cmdName};
                                                                        \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdNames|^{sub}_{sub}[par]|
                                                                  \cmdmthoparsym{cmdSym}[NewName];
                                                                        \cmb{cmdSymSym[sub][sub][par]} = \cmb{NewName}_{sub}^{sub}[par]
                                                          587 \newcommandx{\cmdmthoparsym}[2][2=]
                                                                        {\usrmth{#1}{Sym}{oparsym}[#2]}
      \mthelm, ... to do!
                                                                  • \mthelm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                                                  • \mathbb{E}_{sub}[Sub][Sub][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
```

```
• \mathbb{E}[Sub][Sub][Sup][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                     589 %% Style for Elements
                     590 \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
                     591 \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
                      592 \newcommandx{\cmdmthelm}[2][2=]
                           {\operatorname{usrmth}}_{\#1}_{\operatorname{Elm}}_{\operatorname{elm}}_{\#2}
 \cmdmthargelm ... to do!
                         • \cmdmthargelm{cmdName};
                           \label{lem:cmdName} $$ \operatorname{sub}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = cmdName_{\operatorname{sub}}^{\operatorname{sub}} ext1(arg)ext2$
                         • \cmdmthargelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      594 \newcommandx{\cmdmthargelm}[2][2=]
                     595 {\usrmth{#1}{Elm}{argelm}[#2]}
\verb|\cmdmthoargelm| ... to do!
                         \cmdmthoargelm{cmdName};
                           \verb|\cmdNameElm[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                         • \cmdmthoargelm{cmdElm}[NewName];
                           \verb|\cmdElmElm[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                     596 \newcommandx{\cmdmthoargelm}[2][2=]
                     597 {\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];
                           \cmdNameElm[sub] [sub] [ext1] {par} [ext2] = NewName_{sub}^{sub}ext1[par]ext2
                      598 \newcommandx{\cmdmthparelm}[2][2=]
                     599 {\usrmth{#1}{Elm}{parelm}[#2]}
\cmdmthoparelm ... to do!
                         • \cmdmthoparelm{cmdName};
                           \cmdNameElm[sub] [sub] [par] = cmdName_{sub}^{sub}[par]
                         • \cmdmthoparelm{cmdElm}[NewName];
                           \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                      600 \newcommandx{\cmdmthoparelm}[2][2=]
                     601 {\usrmth{#1}{Elm}{oparelm}[#2]}
                     \cmdmthsymelm ... to do!
                         • \cmdmthsymelm{cmdName};
                           \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName| sub ext|
```

 $\colon dNameElm[sub][sub][ext] = cmdName^{sub}_{sub}ext$

```
• \cmdmthsymelm{cmdName}[NewName];
                          \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub}ext|
                          \cmdNameElm[sub][sub][ext] = NewName_{sub}^{sub}ext
                     603 \newcommandx{\cmdmthsymelm}[2][2=]
                          {\cmdmthsym{#1}[#2]%
                          \cmdmthelm{#1}[#2]}
                     605
 \cmdmthargsymelm ... to do!
                        \cmdmthargsymelm{cmdName};
                          \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|| sub|| ext1|| (arg)ext2||
                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargsymelm{cmdName}[NewName];
                          \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     606 \newcommandx{\cmdmthargsymelm}[2][2=]
                          {\cmdmthargsym{#1}[#2]%
                           \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                        • \cmdmthoargsymelm{cmdName};
                          \verb|\cmdNameSym[sub][sub][arg]| = \verb|\cmdNames|^{sub}_{sub}(arg)
                          \cmdNameElm[sub] [sub] [arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargsymelm{cmdName}[NewName];
                          \label{eq:cmdNameSym} $$ [sub] [sub] [arg] = NewName_{sub}^{sub}(arg) $$
                          \verb|\cmdNameElm[sub][sub][arg]| = NewName_{sub}^{sub}(arg)
                     609 \newcommandx{\cmdmthoargsymelm}[2][2=]
                          {\cmdmthoargsym{#1}[#2]%
                           \cmdmthoargelm{#1}[#2]}
 \cmdmthparsymelm ... to do!
                        • \cmdmthparsymelm{cmdName};
                          \colonerge{cmdNameElm[sub][sub][ext1]{par}[ext2]} = cmdName^{sub}_{sub}ext1[par]ext2
                        • \cmdmthparsymelm{cmdName}[NewName];
                          \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdNames| ext1[par]ext2|
                          \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                     612 \newcommandx{\cmdmthparsymelm}[2][2=]
                           {\cmdmthparsym{#1}[#2]%
                     614
                           \cmdmthparelm{#1}[#2]}
                   ... to do!
\cmdmthoparsymelm
                        \cmdmthoparsymelm{cmdName};
                          \cmbox{\cmdNameSym[sub][sub][par]} = \cmbox{\cmdName}_{sub}^{sub}[par]
                          \colonerge{cmdName} = cmdName_{sub}^{sub}[par] = cmdName_{sub}^{sub}[par]
                        • \cmdmthoparsymelm{cmdName}[NewName];
                          \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|_{sub}^{sub}[par]|
                          615 \newcommandx{\cmdmthoparsymelm}[2][2=]
                           {\cmdmthoparsym{#1}[#2]%
                          \cmdmthoparelm{#1}[#2]}
                     \mthlopr, ... to do!
                        • \mthlopr{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                     619 %% Style for Sentences
                     620 \cmdmth{lopr}\newcommand{\mthstylopr}[1]{\textstyle\mathop{#1}}
      \cmdmthlopr ... to do!
```

```
\cmdmthlopr{cmdName};
                                                                      \verb|\cmdNameOpr[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                                                                • \cmdmthlopr{cmdName}[\oplus];
                                                                      \cmdNameOpr[sub][sub][ext] = \bigoplus_{sub}^{sub} ext
                                                        621 \newcommandx{\cmdmthlopr}[2][2=]
                                                       622 {\usrmth{#1}{0pr}{lopr}[#2]}
   \mthlrel, ... to do!
                                                                • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                        623 %% Style for Sentences
                                                       624 \mbox{ \lower} \mbox{\lower} \mbox{\lo
          \cmdmthlrel ... to do!
                                                                • \cmdmthlrel{cmdName};
                                                                      \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub} \ ext|
                                                                • \cmdmthlrel{cmdName}[\preceq];
                                                                      \cmdNameRel[sub][sub][ext] = \leq_{sub}^{sub} ext
                                                        625 \newcommandx{\cmdmthlrel}[2][2=]
                                                        626 {\usrmth{#1}{Rel}{lrel}[#2]}
                                                       \mthsnt, ... to do!
                                                                • \mathbb{E}_{sub}[sub][sup][Ext] = \mathsf{Name}_{sub}^{sup}Ext
                                                                • \mathbb{E}_{sub}[Sub][Sub][Ext1][Arg][Ext2] = \mathbb{E}_{sub}[Ext1][Arg][Ext2]
                                                                \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \mathsf{\bar{Name}}^{sup}_{sub}Ext1[Par]Ext2]
                                                        628 %% Style for Sentences
                                                       629 \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\
             \asymp_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
                                                     A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                       630 \seqoflet{Snt}{mthsnt}
             \cmdmthsnt ... to do!
                                                                \cmdmthsnt{cmdName};
                                                                      \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                                                                • \cmdmthsnt{cmdName}[NewName];
                                                                      \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                        631 \newcommandx{\cmdmthsnt}[2][2=]
                                                       632 {\usrmth{#1}{Snt}{snt}[#2]}
   \cmdmthargsnt ... to do!
                                                                \cmdmthargsnt{cmdName};
                                                                      \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                • \cmdmthargsnt{cmdName}[NewName];
                                                                      \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                        633 \newcommandx{\cmdmthargsnt}[2][2=]
                                                       634 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                                                                \cmdmthoargsnt{cmdName};
                                                                      \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\cmdName|_{sub}^{sub}(arg)
                                                                • \cmdmthoargsnt{cmdName}[NewName];
                                                                      \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\NewName|_{sub}^{sub}(arg)
```

```
635 \newcommandx{\cmdmthoargsnt}[2][2=]
                                               {\usrmth{#1}{Snt}{oargsnt}[#2]}
  \cmdmthparsnt ... to do!
                                           • \cmdmthparsnt{cmdName};
                                               \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                           • \cmdmthparsnt{cmdName}[NewName];
                                               \cmdNameSnt[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                     637 \newcommandx{\cmdmthparsnt}[2][2=]
                                     638 {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                           \cmdmthoparsnt{cmdName};
                                               \colon = cmdNameSnt[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                           • \cmdmthoparsnt{cmdName}[NewName];
                                               \cmdNameSnt[sub][sub][par] = NewName_{sub}^{sub}[par]
                                      639 \newcommandx{\cmdmthoparsnt}[2][2=]
                                     640 {\usrmth{#1}{Snt}{oparsnt}[#2]}
    \mbox{\em mthfrm, } \dots \mbox{\em to do!}
                                           • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                           • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                           • \mthparfrm{Name} [sub] [sup] [Ext1] {Par} [Ext2] = Name_{sub}^{sup} Ext1[Par]Ext2
                                     641 %% Style for Formulae
                                     642 \mbox{ \mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$
        \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
                                     643 \seqoflet{Frm}{mthfrm}
        \cmdmthfrm ... to do!
                                           • \cmdmthfrm{cmdName};
                                               \cmdNameFrm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                           • \cmdmthfrm{cmdName}[NewName];
                                               \colon dNameFrm[sub][sub][ext] = NewName^{sub}_{sub}ext
                                      644 \newcommandx{\cmdmthfrm}[2][2=]
                                     645 {\usrmth{#1}{Frm}{frm}[#2]}
  • \cmdmthargfrm{cmdName}:
                                               \verb|\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
                                      646 \newcommandx{\cmdmthargfrm}[2][2=]
                                     647 {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                                           • \cmdmthoargfrm{cmdName};
                                               \verb|\cmdNameFrm[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                           • \cmdmthoargfrm{cmdName}[NewName];
                                               \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                     648 \newcommandx{\cmdmthoargfrm}[2][2=]
                                     649 {\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];
                        650 \newcommandx{\cmdmthparfrm}[2][2=]
                        {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                      • \cmdmthoparfrm{cmdName};
                        \cmdNameFrm[sub][sub][par] = cmdName_{sub}^{sub}[par]
                      • \cmdmthoparfrm{cmdName}[NewName];
                         \colon dNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                    652 \newcommandx{\cmdmthoparfrm}[2][2=]
                        {\usrmth{#1}{Frm}{oparfrm}[#2]}
                   \mthmat, ... to do!
                      • \mthmat{Name}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                      • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = \mathbf{Name}_{sub}^{sup}Ext1(Arg)Ext2
                      • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = \mathbf{Name}^{sup}_{sub}Ext1[Par]Ext2
                   655 %% Style for Matrices
                   656 \cmdmthall{mat}\newcommand{\mthstymat}[1]{\boldsymbol{\mathsf{#1}}}
    \aMat, ... to do!
                  a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                  A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                  \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                  A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                   657 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                      \cmdmthmat{cmdName};
                        \colon dNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                      • \cmdmthmat{cmdName}[NewName];
                        \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName||_{sub}^{sub} ext|
                   658 \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];
                        \c New Name Mat [sub] [sub] [ext1] {arg} [ext2] = New Name <math>\c New Name Sub ext1 (arg) ext2
                   660 \newcommandx{\cmdmthargmat}[2][2=]
                   661 {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                      \cmdmthoargmat{cmdName};
                        \verb|\cmdNameMat[sub][sub][arg]| = \mathbf{cmdName}_{sub}^{sub}(arg)
                      • \cmdmthoargmat{cmdName}[NewName];
                        \c Mame Mat [sub] [sub] [arg] = New Name <sup>sub</sup><sub>sub</sub> (arg)
                   662 \newcommandx{\cmdmthoargmat}[2][2=]
                   663 {\usrmth{#1}{Mat}{oargmat}[#2]}
 \cmdmthparmat ... to do!
                      \cmdmthparmat{cmdName};
                        \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1[par]ext2
```

```
• \cmdmthparmat{cmdName}[NewName];
                           \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}ext1[par]ext2|
                      664 \newcommandx{\cmdmthparmat}[2][2=]
                           {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                         • \cmdmthoparmat{cmdName};
                           \verb|\cmdNameMat[sub][sub][par]| = \mathbf{cmdName}_{sub}^{sub}[par]|
                         • \cmdmthoparmat{cmdName}[NewName];
                           \colon dNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                      666 \newcommandx{\cmdmthoparmat}[2][2=]
                           {\usrmth{#1}{Mat}{oparmat}[#2]}
  \mthvec, ... to do!
                         ullet \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                         \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1]\{Arg\}[Ext2]} = \textit{Name}^{sup}_{sub}Ext1(Arg)Ext2
                         • \mthparvec{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                      668 %% Style for Vectors
                      669 \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
                    \begin{matrix} \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega \\ A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega \end{matrix}
                     670 \seqoflet{Vec}{mthvec}
     \cmdmthvec ... to do!
                         • \cmdmthvec{cmdName};
                           \verb|\cmdNameVec[sub][sub][ext]| = cmdName_{sub}^{sub}ext|
                         • \cmdmthvec{cmdName}[NewName];
                           \cmdNameVec[sub][sub][ext] = NewName_{sub}^{sub}ext
                      671 \newcommandx{\cmdmthvec}[2][2=]
                     672 {\usrmth{#1}{Vec}{vec}[#2]}
 \cmdmthargvec ... to do!
                         • \cmdmthargvec{cmdName};
                           \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
                      673 \newcommandx{\cmdmthargvec}[2][2=]
                           {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                         • \cmdmthoargvec{cmdName};
                           \cmdNameVec[sub][sub] [arg] = cmdName_{sub}^{sub}(arg)
                         • \cmdmthoargvec{cmdName}[NewName];
                           \colon = NewName^{sub}(arg) = NewName^{sub}_{sub}(arg)
                      675 \newcommandx{\cmdmthoargvec}[2][2=]
                     676 {\usrmth{#1}{Vec}{oargvec}[#2]}
 \cmdmthparvec ... to do!
                         • \cmdmthparvec{cmdName};
                           \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = cmdName^{sub}_{sub}ext1[par]ext2|
                         • \cmdmthparvec{cmdName}[NewName];
                           \colon = NewName_{sub}^{sub}[sub][ext1][par][ext2] = NewName_{sub}^{sub}[ext1][par][ext2]
                      677 \newcommandx{\cmdmthparvec}[2][2=]
                      678 {\usrmth{#1}{Vec}{parvec}[#2]}
```

```
\cmdmthoparvec ... to do!
                • \cmdmthoparvec{cmdName};
                  \colon dNameVec[sub][sub][par] = cmdName^{sub}_{sub}[par]
                • \cmdmthoparvec{cmdName}[NewName];
                  \verb|\cmdNameVec[sub][sub][par]| = NewName_{sub}^{sub}[par]|
              679 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
              686 \iftext@
              \adhoc
                • \adhoc = ad\ hoc
              688 \cmdtxtabr{adhoc}[ad hoc]
    \afortiori
                • \arrange a fortiori
              689 \cmdtxtabr{afortiori}[a fortiori]
     \apriori
                • \arrange a priori = a priori
              690 \cmdtxtabr{apriori}[a priori]
                • \arrowvertaposteriori = a posteriori
  \aposteriori
              691 \cmdtxtabr{aposteriori}[a posteriori]
          \cf
                • \backslash cf = cf.
              692 \cmdtxtabr{cf}[cf.]
     \dedicto
                • \dedicto = de \ dicto
              693 \cmdtxtabr{dedicto}[de dicto]
     \defacto
                • \del{defacto} = de \ facto
              694 \cmdtxtabr{defacto}[de facto]
                • \dere = de re
        \dere
              695 \cmdtxtabr{dere}[de re]
\divideetimpera
                • \divideetimpera = divide et impera
              696 \cmdtxtabr{divideetimpera} [divide et impera]
          \eg
                • \backslash eg = e.g.
              697 \cmdtxtabr{eg}[e.g.]
        \ergo
                ◆ \ergo = ergo
              698 \cmdtxtabr{ergo}
                • \errata = errata
      \errata
              699 \cmdtxtabr{errata}
     \erratum
                • \erratum = erratum
              700 \cmdtxtabr{erratum}
        \etal
                • \ensuremath{\backslash} \mathtt{etal} = et \ al.
              701 \cmdtxtabr{etal}[et al.]
```

```
\etc
                     • \ensuremath{\backslash} \mathsf{etc} = \mathit{etc}.
                   702 \cmdtxtabr{etc}[etc.]
             \ie
                     • \forallie = i.e.
                   703 \cmdtxtabr{ie}[i.e.]
\mutatismutandis
                     ullet \mutatismutandis = mutatis\ mutandis
                   704 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
                     • \percontra = per contra
      \percontra
                   705 \cmdtxtabr{percontra}[per contra]
     \primafacie
                      \bullet \ \ \mathtt{\ \ } primafacie = \mathit{prima facie} \\
                   706 \cmdtxtabr{primafacie}[prima facie]
      \viceversa
                     • \forall viceversa = vice \ versa
                   707 \cmdtxtabr{viceversa}[vice versa]
             \vs
                     • \vert vs = vs.
                   708 \cmdtxtabr{vs}[vs.]
            \viz
                     • \viz = viz.
                   709 \cmdtxtabr{viz}[viz.]
                   \Dedicto
                     711 \cmdtxtabr{Dedicto}[De dicto]
        \Defacto
                     • \ensuremath{\mathsf{Defacto}} = De\ facto
                   712 \cmdtxtabr{Defacto}[De facto]
           \Dere
                     • \ensuremath{\backslash} \mathtt{Dere} = De \ re
                  713 \cmdtxtabr{Dere} [De re]
                     ullet \Divideetimpera = Divide\ et\ impera
\Divideetimpera
                   714 \cmdtxtabr{Divideetimpera}[Divide et impera]
                     • \backslash Eg = E.g.
             \Eg
                   715 \cmdtxtabr{Eg}[E.g.]
        \Errata
                     • \ensuremath{\backslash} \texttt{Errata} = Errata
                  716 \cmdtxtabr{Errata}
                     \bullet \ \ \texttt{\Erratum} = \mathit{Erratum}
        \Erratum
                  717 \cmdtxtabr{Erratum}
                     • \Percontra = Per contra
      \Percontra
                   718 \cmdtxtabr{Percontra}[Per contra]
                     • \Primafacie = Prima facie
     \Primafacie
                   719 \cmdtxtabr{Primafacie}[Prima facie]
      \Viceversa
                     • \Viceversa = Vice versa
                   720 \cmdtxtabr{Viceversa}[Vice versa]
```

```
\role
        724 \cmdtxtabr{role}[r\^{o}le]
        \Role
         • \label{eq:Role} \operatorname{Role} = R \hat{o} l e
        726 \mbox{cmdtxtabr{Role}[R\^{o}le]}
        \aka
         • \ada = a.k.a.
        728 \cmdtxtabr{aka}[a.k.a.]
   \contd
         • \contd = contd.
        729 \cmdtxtabr{contd}[contd.]
    \iff
         • \iff = iff
        730 \cmdtxtabr{iff}
    \stx
         • \ \ \ \ stx = s.t.
        731 \cmdtxtabr{stx}[s.t.]
         • \resp = resp.
    \resp
        732 \cmdtxtabr{resp}[resp.]
    \wrt
         733 \cmdtxtabr{wrt}[w.r.t.]
   \wlogx
         • \wdots w.l.o.g.
        734 \cmdtxtabr{wlogx}[w.l.o.g.]
        \Contd
         • \Contd = Contd.
        736 \cmdtxtabr{Contd}[Contd.]
   \Wlogx
         • \W logx = W.l.o.q.
        737 \cmdtxtabr{Wlogx}[W.l.o.g.]
        738\fi
        743 \ifmath@
        \defeq, \seteq ...
        745 \DeclareRobustCommand{\defeq}
          {\mthlopr{\triangleq}}
        747 \DeclareRobustCommand{\seteq}
        748 {\mthlopr{:=}}
```

```
\implies, ... ...
                                     750 \DeclareRobustCommand{\implies}
                                     751 {\mthlrel{\Rightarrow}}
                                     752 \DeclareRobustCommand{\notimplies}
                                     753 {\mthlrel{\not\Rightarrow}}
   \coimplies, ... ...
                                     754 \DeclareRobustCommand{\coimplies}
                                     755 {\mthlrel{\Leftrightarrow}}
                                     756 \DeclareRobustCommand{\notcoimplies}
                                     757 {\mthlrel{\not\!\Leftrightarrow}}
                                     \cmodels, ... ...
                                     759 \DeclareRobustCommand{\cmodels}
                                     760 {\mthlrel{\models}}
                                     761 \DeclareRobustCommand{\notcmodels}
                                     762 {\bf \{not\models\}}
         \cequiv, ... ...
                                     763 \DeclareRobustCommand{\cequiv}
                                     764 {\mthlrel{\equiv}}
                                     765 \DeclareRobustCommand{\notcequiv}
                                     766 {\mthlrel{\not\equiv}}
                                     \dual, \adj, ... ...
                                     768 \DeclareRobustCommand{\dual}[1]
                                     769 {\mth{\overline{#1}}}
                                     770 \DeclareRobustCommand{\adj}[1]
                                     771 {\mth{\mathring{#1}}}
                                     772 \DeclareRobustCommand{\der}[1]
                                     773 {\mth{\widehat{#1}}}
                                     774 \DeclareRobustCommand{\trn}[1]
                                     775 {\mth{\widetilde{#1}}}
                        \vec ...
                                     776 \DeclareRobustCommand{\vec}[1]
                                     777 {\mth{\mathaccent"017E{#1}}}
                                     \enumeration, ... ...
                                     779 \voremmath{\mth}{}{,}{,}{}
                                     780 \operatorname{d}{\mathrm{enumerationx}_{\mathrm{hth}}}{;}{}}{}
     \sequence, ... ...
                                     781 \varcmd{sequence}{\mth}{\left[}{,}{\right]}{}
                                     782 \varcmd{sequencel}{\bf \{\hft[}{,}{\bf \{\hft.}{}\}}
                                     783 \ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{\ensuremath{
                                     784 \varcmd{sequencex}{\mth}{\left[}{;}{\right]}{}
                                      785 \varcmd{sequencexl}{\mth}{\left[}{;}{\right.}{}
                                     786 \varcmd{sequencexr}{\mth}{\left.}{;}{\right]}{}
           \tuple, ... ...
                                     787 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
                                     788 \varcmd{tuplel}{\mth}{\left\langle}{,}{\right.}{}
                                     789 \varcmd{tupler}{\mth}{\left.}{,}{\right\rangle}{}
                                     790 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                                     791 \varcmd{tuplexl}{\mth}{\left\langle}{;}{\right.}{}
                                      792 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
```

```
\set ...
            794 \DeclareRobustCommand{\set}[2]
            795 {\argmid{\{}\argsep{#1}{\mid}{#2}}{\}}
       \card ...
            796 \DeclareRobustCommand{\card}[1]
            797 {\bf \{\mbox{\mbox{$1\}}}\}
       \pow ...
            798 \DeclareRobustCommand{\pow}[1]
               {\bf 2^{\hat 1}}{\cdot}}
      \denot ...
            800 \DeclareRobustCommand{\denot}[1]
               {\mth{\argmid{\lVert}{#1}{\rVert}}}
            \emptyrel ...
            803 \DeclareRobustCommand{\emptyrel}
            804 {\mth{\varnothing}}
            \dom, \cod, ... ...
            806 \DeclareRobustCommand{\dom}
            807 {\mthargfun{dom}}
            808 \DeclareRobustCommand{\cod}
            809 \quad \{\mathbf{cod}\}
            810 \DeclareRobustCommand{\rng}
            811 \quad \{\text{mthargfun}\{\text{rng}\}\}\
            812 \DeclareRobustCommand{\img}
            813 {\mthargfun{img}}
            \prj ...
            815 \DeclareRobustCommand{\prj}
            816 {\mthargfun{prj}}
       \rst ...
            817 \DeclareRobustCommand{\rst}
            818 {\mthlopr{\upharpoonright}}
       \cmp ...
            819 \DeclareRobustCommand{\cmp}
               {\mthlopr{\circ}}
            \emptyfun ...
            822 \DeclareRobustCommand{\emptyfun}
            823 {\mth{\varnothing}}
            \pto, \pmapsto
            825 \DeclareMathOperator{\pto}
            826 {\ensuremath{\rightharpoonup}}}
            827 \DeclareMathOperator{\pmapsto}
            828 {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}}%
            829
                 \kern-1.5ex\rightharpoonup}}}
```

```
\Aomega, \AOmega
                831 \DeclareRobustCommand{\Aomega}
                 832 {\mthargset{\omega}}
                 833 \DeclareRobustCommand{\AOmega}
                    {\mthargset{\Omega}}
\Atheta, \ATheta
                 835 \DeclareRobustCommand{\Atheta}
                    {\mthargset{\theta}}
                 837 \DeclareRobustCommand{\ATheta}
                    {\mthargset{\Theta}}
 \Aomicron, ... ...
                 839 \DeclareRobustCommand{\Aomicron}
                840 {\mthargset{\omicron}}
                841 \DeclareRobustCommand{\AOmicron}
                842 {\mthargset{\Omicron}}
                \SetB ...
                844 \DeclareRobustCommand{\SetB}
                845 \quad \{\mathbf{B}\}
         \SetF ...
                846 \DeclareRobustCommand{\SetF}
                847 {\bf [mathbb]{F}}
     \SetN, ... ...
                848 \DeclareRobustCommand{\SetN}
                849 \quad \{\mathbf{N}\}\
                 850 \DeclareRobustCommand{\SetNI}[1][]
                851 {\SetN[\infty #1]}
     \SetZ, ... ...
                852 \DeclareRobustCommand{\SetZ}
                853 {\mthset[mathbb]{Z}}
                 854 \DeclareRobustCommand{\SetZI}[1][]
                 855 {\SetZ[\pm\infty #1]}
                 856 \DeclareRobustCommand{\SetZPI}[1][]
                 857 {\SetZ[+\infty #1]}
                 858 \DeclareRobustCommand{\SetZNI}[1][]
                    {\SetZ[-\infty #1]}
     \SetQ, ... ...
                860 \DeclareRobustCommand{\SetQ}
                861 {\mthset[mathbb]{Q}}
                 862 \DeclareRobustCommand{\SetQI}[1][]
                863 {\SetQ[\pm\infty #1]}
                 864 \DeclareRobustCommand{\SetQPI}[1][]
                 865 {\SetQ[+\infty #1]}
                 866 \DeclareRobustCommand{\SetQNI}[1][]
                    {\SetQ[-\infty #1]}
     \SetR, ... ...
                868 \DeclareRobustCommand{\SetR}
                869 {\mthset[mathbb]{R}}
                870 \DeclareRobustCommand{\SetRI}[1][]
                    {\SetR[\pm\infty #1]}
                 872 \DeclareRobustCommand{\SetRPI}[1][]
                    {\SetR[+\infty #1]}
                 874 \DeclareRobustCommand{\SetRNI}[1][]
                 875 {\SetR[-\infty #1]}
```

```
\SetC, ... ...
              876 \DeclareRobustCommand{\SetC}
              877 {\mthset[mathbb]{C}}
              878 \DeclareRobustCommand{\SetCI}[1][]
              879 {\SetC[\infty #1]}
              \num, ... ...
              881 \DeclareRobustCommand{\num}[1]
                  {\mth{[#1]}}
              883 \DeclareRobustCommand{\numcc}[2]
              884 {\mth{[\argsep{#1}{,}{#2}]}}
              885 \DeclareRobustCommand{\numco}[2]
              886 {\mth{[\argsep{#1}{,}{#2})}}
              887 \DeclareRobustCommand{\numoc}[2]
              888 \quad \{\mth\{(\argsep\{\#1\}\{,\}\{\#2\}]\}\}
              889 \DeclareRobustCommand{\numoo}[2]
                  {\mth{(\argsep{#1}{,}{#2})}}
              \floor, \ceil ...
              892 \DeclareRobustCommand{\floor}[1]
              893 \quad \{\mth{\arg\min\{\left\lceil \frac{1}{1}\right\}}\}
              894 \DeclareRobustCommand{\ceil}[1]
                  {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
              \arg ...
              897 \DeclareRobustCommand{\arg}
              898 {\mthfun{arg}}
    \evn, \odd ...
              899 \DeclareRobustCommand{\evn}
              900 {\mthfun{evn}}
              901 \DeclareRobustCommand{\odd}
              902 {\mthfun{odd}}
     \bst, ... ...
              903 \DeclareRobustCommand{\bst}
              904 {\bf \{mthfun\{bst\}}
              905 \DeclareRobustCommand{\argbst}
              906 {\mthfun{arg bst}}
\min, \max, ... ...
              907 \DeclareRobustCommand{\min}
              908 {\bf \{mthfun\{min\}}
              909 \DeclareRobustCommand{\max}
              910 \{ \mathbf{max} \}
              911 \DeclareRobustCommand{\argmin}
              912 {\mthfun{arg min}}
              913 \DeclareRobustCommand{\argmax}
              914 {\mthfun{arg max}}
    \inf, \sup ...
              915 \DeclareRobustCommand{\inf}
              916 {\mthfun{inf}}
              917 \DeclareRobustCommand{\sup}
              918 {\mthfun{sup}}
```

```
\emptyseq ...
                                                  920 \DeclareRobustCommand{\emptyseq}
                                                 921 {\mth{\varepsilon}}
\fst, \lst
                                                  922 \DeclareRobustCommand{\fst}
                                                  923 {\mthargfun{fst}}
                                                  924 \DeclareRobustCommand{\lst}
                                                  925 {\mthargfun{lst}}
                                                  926 \fi
                                                  931 \ifcom@
\defcomcls ... to do!
                                                           • \defcomcls{CompClass};
                                                                   \CompClass[sub][sup][ext] = COMPCLASS_{SUB}^{SUP}EXT;
                                                                   \CoCompClass[sub][sup][ext] = CoCompClass[Sub]EXT
                                                                   \label{loss_ext} $$\operatorname{CompClassE[sub][sup][ext]} = \operatorname{CompClass-Easy}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{CT}_{\operatorname{SUB}} = \operatorname{CT}_{\operatorname{CT}} = \operatorname
                                                                   \CoCompClassE[sub][sup][ext] = CoCompClass-Easy_{SUB}^{SUP}EXT
                                                                   \CompClassH[sub][sup][ext] = COMPCLASS-HARD_{SUB}^{SUP}EXT;
                                                                   \verb|\CoCompClassH[sub][sup][ext]| = \operatorname{CoCompCLASS-HARD}_{SUB}^{SUP} EXT
                                                                   \label{lossC} $$ \operatorname{CompClassC[sub][sup][ext]} = \operatorname{CompClass-CompLete}_{SUB}^{SUP} = \operatorname{CompClass-Comp
                                                                   \CoCompClassC[sub][sup][ext] = CoCompClass-Complete_{SUB}^{SUP}EXT
                                                                  \NCompClass[sub][sup][ext] = NCompClass_{SUB}^{SUP}EXT;
                                                                   \verb|\ConCompClass[sub][sup][ext]| = ConCompClass[sup][ext]|
                                                                   \NCompClassE[sub][sup][ext] = NCompClass-Easy_{SUB}^{SUP}EXT;
                                                                   \ConCompClassE[sub][sup][ext] = ConCompClass-Easy_{SUB}^{SUP}EXT
                                                                   \NCompClassH[sub][sup][ext] = NCompClass-Hard_{Sub}^{SUP}EXT;
                                                                   \ConCompClassH[sub][sup][ext] = ConCompClass-Hard_{SUB}^{SUP}EXT
                                                                   \NCompClassC[sub][sup][ext] = NCOMPCLASS-COMPLETE_{SUB}^{SUP}EXT;
                                                                   \verb|\ConCompClassC[sub][sup][ext]| = ConCompClass-complete_{SuB}^{SUP}EXT
                                                                  \UCompClass[sub][sup][ext] = UCompClass[sup]EXT;
                                                                  \verb|\CoUCompClass[sub][sup][ext]| = CoUCoMPCLASS^{SUP}_{SUB}EXT
                                                                  \UCompClassE[sub][sup][ext] = UCompClass-Easy_{SUB}^{SUP}EXT;
                                                                   \verb|\CoUCompClassE[sub][sup][ext]| = CoUCompClass-Easy_{sub}^{SUP}EXT
                                                                  \UCompClassH[sub][sup][ext] = UCompClass-Hard_{SUB}^{SUP}EXT;
                                                                   \verb|\CoUCompClassH[sub][sup][ext]| = CoUCOMPCLASS-HARD_{SUB}^{SUP}EXT
                                                                   \UCompClassC[sub][sup][ext] = UCompClass-Complete_{SUB}^{SUP}EXT;
                                                                   \texttt{CoUCompClassC[sub][sup][ext]} = \texttt{CoUCompClass-complete}_{\texttt{SUB}}^{\texttt{SUP}} \texttt{EXT}
                                                                   \label{eq:acompClass} $$ \arrowvert ass[sub] [sup] [ext] = ACOMPCLASS^{SUP}_{SUB}EXT; $$
                                                                   \verb|\CoACompClass[sub][sup][ext]| = CoACompClass_{SUB}^{SUP}EXT
                                                                   \verb|\ACompClassE[sub][sup][ext]| = ACOMPCLASS-EASY_{SUB}^{SUP}EXT;
                                                                   \CoACompClassE[sub][sup][ext] = CoACompClass-Easy_{SUB}^{SUP}EXT
                                                                   \Lambda CompClassH[sub][sup][ext] = ACOMPCLASS-HARD_{SUB}^{SUP}EXT;
                                                                   \CoACompClassH[sub][sup][ext] = CoACompClass-Hard_{SUB}^{SUP}EXT
                                                                   \Lambda CompClassC[sub][sup][ext] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}EXT;
                                                                   \verb|\CoACompClassC[sub][sup][ext]| = CoACompClass-complete_{SUB}^{SUP}EXT
                                                            • \defcomcls{CompClass}[NewClass];
                                                                   \label{loss_sub_loss} $$ \operatorname{CompClass[sub][sup][ext]} = \operatorname{NewClass_{Sub}^{SUP}EXT}; 
                                                                   \CoCompClass[sub][sup][ext] = CONEWCLASS_{SUB}^{SUP}EXT
                                                                   \label{lossemblasse} $$ \operatorname{[sub][sup][ext]} = \operatorname{NewClass-Easy}_{\operatorname{SUB}}^{\operatorname{SUP}} \operatorname{EXT}; 
                                                                   \CoCompClassE[sub][sup][ext] = CoNEWCLASS-EASY_{SUB}^{SUP}EXT
                                                                   \CompClassH[sub][sup][ext] = NEWCLASS-HARD_{SUB}^{SUP}EXT;
                                                                   \verb|\CoCompClassH[sub][sup][ext]| = \operatorname{CoNewClass-HARD}_{SUB}^{SUP} EXT
```

```
\verb|\CoCompClassC[sub][sup][ext]| = CoNewClass-complete_{SUB}^{SUP}EXT
                   \NCompClass[sub][sup][ext] = NNEWCLASS_{SUB}^{SUP}EXT;
                   \verb|\CoNCompClass[sub][sup][ext]| = CoNNewClass^{SUP}_{SUR}EXT
                   \label{eq:ncompClassEsub} $$ \compClassE[sub][sup][ext] = NNEWCLASS-EASY_{SUB}^{SUP}EXT; $$
                   \verb|\ConCompClassE[sub][sup][ext]| = ConNewClass-Easy_{Sub}^{Sup}EXT|
                   \NCompClassH[sub][sup][ext] = NNEWCLASS-HARD_{SUB}^{SUP}EXT;
                    \verb|\CoNCompClassH[sub][sup][ext]| = CoNNewClass-Hard_{SUB}^{SUP}EXT
                    \NCompClassC[sub][sup][ext] = NNEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
                   \ConCompClassC[sub][sup][ext] = ConNewClass-Complete_{Sub}^{SUP}Ext
                   \UCompClass[sub][sup][ext] = UNEWCLASS_{SUB}^{SUP}EXT;
                   \texttt{CoUCompClass[sub][sup][ext]} = CoUNEWCLASS_{SUB}^{SUP}EXT
                   \UCompClassE[sub][sup][ext] = UNEWCLASS-EASY_{SUB}^{SUP}EXT;
                   \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEWCLASS-EASY_{SUB}^{SUP}EXT
                   \UCompClassH[sub][sup][ext] = UNEWCLASS-HARD_{SUB}^{SUP}EXT;
                   \verb|\CoUCompClassH[sub][sup][ext]| = CoUNEwClass-Hard_{Sup}^{SUP}EXT
                   \UCompClassC[sub][sup][ext] = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
                   \verb|\CoUCompClassC[sub][sup][ext]| = CoUNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                   \label{eq:accompclass} $$ \Delta CompClass[sub][sup][ext] = ANEWCLASS^{SUP}_{SUB}EXT; $$
                    \verb|\CoACompClass[sub][sup][ext]| = CoANewClass_{SUB}^{SUB}EXT
                    \Lambda CompClassE[sub][sup][ext] = ANEWCLASS-EASY_{SUB}^{SUP}EXT;
                    \verb|\CoACompClassE[sub][sup][ext]| = CoANewClass-easy_{sup}^{SUP} ext|
                   \ACompClassH[sub][sup][ext] = ANEWCLASS-HARD_{SUB}^{SUP}EXT;
                    \verb|\CoACompClassH[sub][sup][ext]| = CoANewClass-Hard_{Sub}^{Sup}EXT
                    \Lambda CompClassC[sub][sup][ext] = ANEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
                    \CoACompClassC[sub][sup][ext] = CoANEWCLASS-COMPLETE_{SUB}^{SUP}EXT
               932 \newcommandx{\defcomcls}[2][2=]
                    {\defcomclssem{#1}{\defval{#2}{#1}}}
               933
                     934
               935 \newcommandx{\defcomclssem}[3][3=]
                    {\defcomclsred{#3#1}{#2}[#3]%}
                    \defcomclsred{#3N#1}{#2}[#3N]%
               937
                    \defcomclsred{#3U#1}{#2}[#3U]%
               938
                    \defcomclsred{#3A#1}{#2}[#3A]}
               940 \newcommandx{\defcomclsred}[3][3=]
                     {\defcomclscmd{#1}{#2}[#3]%
                     \defcomclscmd{#1E}{#2}[#3][-easy]%
                     \defcomclscmd{#1H}{#2}[#3][-hard]%
                     \defcomclscmd{#1C}{#2}[#3][-complete]}%
              945 \newcommandx{\defcomclscmd}[4][3=, 4=]
                    {\csdef{#1}{\txtcom{#3#2#4}}}
              \Time, ...
                 • \Time[sub][sup][ext] = TIME_SUP_EXT
                   TimeE[sub][sup][ext] = TIME-EASY_{SUB}^{SUP}EXT
                   TimeH[sub][sup][ext] = TIME-HARD_{SUB}^{SUP}EXT
                   TimeC[sub][sup][ext] = TIME-COMPLETE_{SUB}^{SUP}EXT
                 • \NTime[sub][sup][ext] = NTIME_{SUB}^{SUP}EXT
                    \NTimeE[sub][sup][ext] = NTIME-EASY_{SUB}^{SUP}EXT
                    \NTimeH[sub][sup][ext] = NTIME-HARD_{SUB}^{SUP}EXT
                    \verb|\NTimeC[sub][sup][ext]| = NTIME-COMPLETE_{SUB}^{SUP}EXT
                 • \UTime[sub][sup][ext] = UTIME_{SUB}^{SUP}EXT
                    \verb| UTimeE[sub][sup][ext] = UTime-EASY_{SUB}^{SUP}EXT
                   \UTimeH[sub][sup][ext] = UTIME-HARD_{SUB}^{SUP}EXT
                    \UTimeC[sub][sup][ext] = UTIME-COMPLETE_{SUB}^{SUP}EXT
                 \bullet \ \texttt{\ATime[sub][sup][ext]} = \mathrm{ATIME}^{SUP}_{SUB} \mathrm{EXT}
                   \verb|\ATimeE[sub][sup][ext]| = ATIME-EASY_{SUB}^{SUP}EXT
                    \verb|\ATimeH[sub][sup][ext]| = ATime-hard_{SUB}^{SUP}EXT
                   \verb| ATimeC[sub][sup][ext] = ATIME-COMPLETE_{SUB}^{SUP}EXT|
```

 $\compClassC[sub][sup][ext] = NewClass-complete_{SUB}^{SUP}EXT;$

$948 \defcomcls{Time}$

```
• \Space[sub][sup][ext] = Space_Sup_EXT
   \Space, ...
                          \verb|\SpaceE[sub][sup][ext]| = Space-easy_{Sub}^{SUP}EXT
                          \SpaceH[sub][sup][ext] = SPACE-HARD_{SUB}^{SUP}EXT
                          \verb|\SpaceC[sub][sup][ext]| = Space-complete_{Sub}^{SUP}EXT|
                        • \NSpace[sub][sup][ext] = NSPACE_SUBEXT
                          \verb|\NSpaceE[sub][sup][ext]| = NSPACE-EASY_{SUB}^{SUP}EXT
                          \verb|\NSpaceH[sub][sup][ext]| = NSPACE-HARD_{SUB}^{SUP}EXT
                          \verb|\NSpaceC[sub][sup][ext]| = NSPACE-COMPLETE_{SUB}^{SUP}EXT
                        • \USpace[sub][sup][ext] = USPACE_SUBEXT
                          \verb|\USpaceE[sub][sup][ext]| = USPACE-EASY_{SUB}^{SUP}EXT
                          \USpaceH[sub][sup][ext] = USPACE-HARD_{SUB}^{SUP}EXT
                          \verb|\USpaceC[sub][sup][ext]| = USPACE-COMPLETE_{SUB}^{SUP}EXT
                        • ASpace[sub][sup][ext] = ASPACE_{SUB}^{SUP}EXT
                          \verb|\ASpaceE[sub][sup][ext]| = ASPACE-EASY_{SUB}^{SUP}EXT
                          ASpaceH[sub][sup][ext] = ASPACE-HARD_{SUB}^{SUP}EXT
                          \verb|\ASpaceC[sub][sup][ext]| = ASPACE-COMPLETE_{SUB}^{SUP}EXT
                    949 \defcomcls{Space}
 \LogTime, ...
                        • \lfloor LogTime[sub][sup][ext] = LogTime_{Sub}^{SUP}EXT
                          \verb|\LogTimeE[sub][sup][ext]| = LogTime-easy_{sub}^{SUP}ext|
                          \LogTimeH[sub][sup][ext] = LogTime-Hard_{Sub}^{SUP}EXT
                          \lceil LogTimeC[sub][sup][ext] = LogTime-Complete_{Sub}^{SUP}EXT
                        \verb|\NLogTimeE[sub][sup][ext]| = NLogTime-EASY_{SUB}^{SUP}EXT
                          \verb|\NLogTimeH[sub][sup][ext]| = NLogTime-Hard_{SUB}^{SUP}EXT
                          \verb|\NLogTimeC[sub][sup][ext]| = NLogTime-Complete_{SUB}^{SUP}EXT|
                        • \ULogTime[sub][sup][ext] = ULogTime_{SUB}^{SUP}EXT
                          \verb|VLogTimeE[sub][sup][ext]| = ULogTime-EASY_{SUB}^{SUP}EXT|
                          \ULogTimeH[sub][sup][ext] = ULogTime-HARD_{SUB}^{SUP}EXT
                          \ULogTimeC[sub][sup][ext] = ULogTIME-COMPLETE_{SUB}^{SUP}EXT
                         \bullet \ \texttt{\ALogTime[sub][sup][ext]} = ALogTime[{\tt SUB}_{\tt SUB}{\tt EXT} \\
                          \verb|\ALogTimeE[sub][sup][ext]| = ALogTime-EASY_{SUB}^{SUP}EXT
                          \verb|\ALogTimeH[sub][sup][ext]| = ALogTime-Hard_{SUB}^{SUP}EXT
                          \verb|\ALogTimeC[sub][sup][ext]| = ALogTime-Complete_{SUB}^{SUP}EXT|
                    950 \defcomcls{LogTime}
                        • LogSpace[sub][sup][ext] = LogSpace_{SUB}^{SUP}EXT
\LogSpace, ...
                          LogSpaceE[sub][sup][ext] = LogSpace-Easy_{Sub}^{SUP}EXT
                          LogSpaceH[sub][sup][ext] = LogSpace-Hard_{Sub}^{SUP}EXT
                          LogSpaceC[sub][sup][ext] = LogSpace-Complete_{SUB}^{SUP}EXT
                        • \NLogSpace[sub][sup][ext] = NLogSpace_{SUB}^{SUP}EXT
                          \verb|\NLogSpaceE[sub][sup][ext]| = NLogSpace-easy_{sur}^{SUP}EXT|
                          \NLogSpaceH[sub][sup][ext] = NLogSpace-HardSup EXT
                          \NLogSpaceC[sub][sup][ext] = NLogSpace-Complete_{SUB}^{SUP}EXT
                        • \ULogSpace[sub][sup][ext] = ULogSpace_{SUB}^{SUP}EXT
                          \ULogSpaceE[sub][sup][ext] = ULogSpace-Easy_{SUB}^{SUP}EXT
                          \verb|VLogSpaceH[sub][sup][ext]| = ULogSpace-Hard_{SUB}^{SUP}EXT
                          \ULogSpaceC[sub][sup][ext] = ULogSpace-Complete_{SUB}^{SUP}EXT
                        • ALogSpace[sub][sup][ext] = ALogSpace_{SUB}^{SUP}EXT
                          \verb|\ALogSpaceE[sub][sup][ext]| = ALogSpace-easy_{SUB}^{SUP}EXT|
                          ALogSpaceH[sub][sup][ext] = ALogSpace-Hard_{SUB}^{SUP}EXT
                          ALogSpaceC[sub][sup][ext] = ALogSpace-Complete_{Sup}^{SUP}EXT
                    951 \defcomcls{LogSpace}
                        • \P [sub] [sup] [ext] = PTIME_{SUB}^{SUP}EXT
   \PTime, ...
                          \verb|\PTimeE[sub][sup][ext]| = PTIME-EASY_{SUB}^{SUP}EXT
                          \P \PTimeH[sub][sup][ext] = \PTIME-HARD_{SUB}^{SUP}EXT
                          \label{eq:ptimeC} $$ \Pr[\text{sub}][\text{sup}][\text{ext}] = \Pr[\text{ME-COMPLETE}^{\text{SUP}}_{\text{SUB}}] $$
```

```
• NPTime[sub][sup][ext] = NPTIME_{SUB}^{SUP}EXT
                                                                                                                    \NPTimeE[sub][sup][ext] = NPTIME-EASY_{SUB}^{SUP}EXT
                                                                                                                    \label{eq:nptimeH} $$ \DTIME-HARD_{SUB}^{SUP} = NPTIME-HARD_{SUB}^{SUP} = NPTIME-HARD_{SUB}^{S
                                                                                                                   \texttt{NPTimeC[sub][sup][ext]} = \mathrm{NPTIME\text{-}COMPLETE}^{SUP}_{SUR}\mathrm{EXT}
                                                                                                          \label{eq:uptimeEsub} $$\operatorname{UPTimeE[sub][sup][ext]} = \operatorname{UPTIME-EASY}^{\operatorname{SUP}}_{\operatorname{SUB}} \operatorname{EXT} 
                                                                                                                   \verb|\UPTimeH[sub][sup][ext]| = \mathrm{UPTIME\text{-}HARD}^{SUP}_{SUB}\mathrm{EXT}|
                                                                                                                   \verb|\UPTimeC[sub][sup][ext]| = UPTIME-COMPLETE_{SUB}^{SUP}EXT
                                                                                                          • APTime[sub][sup][ext] = APTIME_{SUB}^{SUP}EXT
                                                                                                                    \verb| APTimeE[sub][sup][ext] = APTIME-EASY_{SUB}^{SUP}EXT
                                                                                                                    \APTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                   \label{eq:aptimeC} $$ \Delta PTimeC[sub][sup][ext] = APTIME-COMPLETE_{SUB}^{SUP}EXT $$
                                                                                           952 \defcomcls{PTime}
     \PSpace, ...
                                                                                                          • \PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT
                                                                                                                    \label{eq:pspace} $$ \PSpace[sub][sup][ext] = PSpace-Easy_{SUB}^{SUP}EXT $$
                                                                                                                     \verb|PSpaceH[sub][sup][ext]| = PSPACE-HARD_{SUB}^{SUP}EXT
                                                                                                                     \PSpaceC[sub][sup][ext] = PSPACE-COMPLETE_{SUB}^{SUP}EXT
                                                                                                          • \NPSpace[sub][sup][ext] = NPSPACE_{SUB}^{SUP}EXT
                                                                                                                    \NPSpaceE[sub][sup][ext] = NPSPACE-EASY_{SUB}^{SUP}EXT
                                                                                                                    \NPSpaceH[sub][sup][ext] = NPSPACE-HARD_{SUB}^{SUP}EXT
                                                                                                                    \NPSpaceC[sub][sup][ext] = NPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                                                                                          • \UPSpace[sub][sup][ext] = UPSPACE_{SUB}^{SUP}EXT
                                                                                                                    \verb| UPSpaceE[sub][sup][ext] = UPSPACE-EASY_{SUB}^{SUP}EXT|
                                                                                                                     \verb|VPSpaceH[sub][sup][ext]| = UPSpace-Hard_{SUB}^{SUP}EXT
                                                                                                                    \UPSpaceC[sub][sup][ext] = UPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                                                                                          • APSpace[sub][sup][ext] = APSPACE_{SUB}^{SUP}EXT
                                                                                                                    \label{eq:apsilon} $$ APSpaceE[sub][sup][ext] = APSpace-EASY_{SUB}^{SUP}EXT $$
                                                                                                                    \label{eq:apsilon} $$ \APSpaceH[sub][sup][ext] = APSpace-HARD_{SUB}^{SUP}EXT $$
                                                                                                                   \APSpaceC[sub][sup][ext] = APSPACE-COMPLETE_{SUB}^{SUP}EXT
                                                                                           953 \defcomcls{PSpace}
     \QPTime, ...
                                                                                                          • \QPTime[sub][sup][ext] = QPTIME_{SUB}^{SUP}EXT
                                                                                                                    \label{eq:QPTimeEsub} $$ \operatorname{QPTIME-EASY}^{SUP}_{SUB} = \operatorname{QPTIME-EASY}^{SUP}_{SUB} = \operatorname{CASY}^{SUP}_{SUB} = \operatorname{C
                                                                                                                    \label{eq:QPTimeH} $$ \operatorname{QPTIME-HARD}_{\operatorname{SUP}}^{\operatorname{SUP}} = \operatorname{QPTIME-HARD}_{\operatorname{SUR}}^{\operatorname{SUP}} = \operatorname{CPTIME-HARD}_{\operatorname{SUR}}^{\operatorname{SUP}} = \operatorname{CPTIME-HARD}_{\operatorname{SUR}}^{\operatorname{SUR}} = \operatorname{CPTIME-HARD}_{\operatorname{SUR}}^{\operatorname{
                                                                                                                    \verb|\QPTimeC[sub][sup][ext]| = \mathrm{QPTIME\text{-}COMPLETE}^{SUP}_{SUB}{EXT}
                                                                                                          • \NQPTime[sub][sup][ext] = NQPTIME_{SUB}^{SUP}EXT
                                                                                                                    \verb|\NQPTimeE[sub][sup][ext]| = NQPTIME-EASY_{SUB}^{SUP}EXT|
                                                                                                                    \verb|\NQPTimeH[sub][sup][ext]| = NQPTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                    \verb|\NQPTimeC[sub][sup][ext]| = NQPTIME-COMPLETE_{SUB}^{SUP}EXT|
                                                                                                          • \UQPTime[sub][sup][ext] = UQPTIME_{SUB}^{SUP}EXT
                                                                                                                    \UQPTimeE[sub][sup][ext] = UQPTIME-EASY_{SUB}^{SUP}EXT
                                                                                                                     \UQPTimeH[sub][sup][ext] = UQPTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                    \label{eq:uqptimeC} $$ \UQPTimeC[sub][sup][ext] = UQPTIME-COMPLETE^{SUP}_{SUB}EXT $$
                                                                                                          • AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT
                                                                                                                    \verb|\AQPTimeE[sub][sup][ext]| = \mathrm{AQPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                                                                                                                   \AQPTimeH[sub][sup][ext] = AQPTIME-HARD_{SUR}^{SUP}EXT
                                                                                                                    \AQPTimeC[sub][sup][ext] = AQPTIME-COMPLETE_{SUB}^{SUP}EXT
                                                                                          954 \defcomcls{QPTime}
                                                                                                          • \QPSpace[sub][sup][ext] = QPSPACE_{SUB}^{SUP}EXT
\QPSpace, ...
                                                                                                                    \label{eq:QPSpaceEsub} $$ \QPSpaceE[sub][sup][ext] = QPSpace-EASY_{SUB}^{SUP}EXT $$
                                                                                                                    \verb|\QPSpaceH[sub][sup][ext]| = QPSPACE-HARD_{SUB}^{SUP}EXT|
                                                                                                                    \label{eq:QPSpaceCsub} $$ \qrup{QPSpaceCsub} = QPSpace-Complete_{SUB}^{SUP} = QPSpace-Compl
                                                                                                          • \NQPSpace[sub][sup][ext] = NQPSPACE_{SUB}^{SUP}EXT
                                                                                                                     \verb|NQPSpaceE[sub][sup][ext]| = NQPSPACE-EASY_{SUB}^{SUP}EXT|
                                                                                                                     \verb|\NQPSpaceH[sub][sup][ext]| = \mathrm{NQPSpace}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                                                                                                                    \verb|NQPSpaceC[sub][sup][ext]| = NQPSPACE-COMPLETE_{SUB}^{SUP}EXT
```

```
\verb|VQPSpaceE[sub][sup][ext]| = UQPSPACE-EASY_{SUB}^{SUP}EXT
                      \verb|VQPSpaceH[sub][sup][ext]| = \mathrm{UQPSPACE}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                      \verb|VQPSpaceC[sub][sup][ext]| = UQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                    • AQPSpace[sub][sup][ext] = AQPSPACE_{SUB}^{SUP}EXT
                      \verb|\AQPSpaceE[sub][sup][ext]| = AQPSpace-easy_{SUB}^{SUP}EXT
                      \verb|\AQPSpaceH[sub][sup][ext]| = \mathrm{AQPSpace}\text{-}\mathrm{HARD}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                      \verb|\AQPSpaceC[sub][sup][ext]| = \mathrm{AQPSPACE\text{-}COMPLETE}^{SUP}_{SUB}\mathrm{EXT}
                 955 \defcomcls{QPSpace}
                    • \ExpTime[sub][sup][ext] = EXPTIME_SUBEXT
 \ExpTime, ...
                      \verb|\ExpTimeE[sub][sup][ext]| = EXPTIME-EASY_{SUR}^{SUP}EXT
                      \ExpTimeH[sub][sup][ext] = ExpTime-HARD_{SUB}^{SUP}EXT
                      \texttt{\complete}[sub][sup][ext] = \text{ExpTime-complete}_{SUB}^{SUP} \text{Ext}
                    • NExpTime[sub][sup][ext] = NEXPTIME_{SUB}^{SUP}EXT
                      \verb|NExpTimeE[sub][sup][ext]| = NEXPTIME-EASY_{SUB}^{SUP}EXT
                      \NExpTimeH[sub][sup][ext] = NEXpTIME-HARD_{SUB}^{SUP}EXT
                      \NExpTimeC[sub][sup][ext] = NEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                    • \UExpTime[sub][sup][ext] = UEXPTIME_{SUB}^{SUP}EXT
                      \UExpTimeE[sub][sup][ext] = UEXpTIME-EASY_{SUB}^{SUP}EXT
                      \UExpTimeH[sub][sup][ext] = UExpTIME-HARD_{SUB}^{SUP}EXT
                      \verb|\UExpTimeC[sub][sup][ext]| = UEXPTIME-COMPLETE^{SUP}_{SUB}EXT
                    • \Delta ExpTime[sub][sup][ext] = AEXPTIME_{SUB}^{SUP}EXT
                      \verb|\AExpTimeE[sub][sup][ext]| = AEXPTIME-EASY_{SUB}^{SUP}EXT
                      \verb|\AExpTimeH[sub][sup][ext]| = AEXPTIME-HARD_{SUB}^{SUP}EXT
                      \texttt{AExpTimeC[sub][sup][ext]} = \text{AEXPTIME-COMPLETE}_{\text{SUB}}^{\text{SUP}} \text{EXT}
                 956 \defcomcls{ExpTime}
\ExpSpace, ...
                    • \ExpSpace[sub][sup][ext] = ExpSpace[sub]Ext
                      \verb|\ExpSpaceE[sub][sup][ext]| = ExpSpace-easy_{sub}^{SUP}Ext
                      \verb|\ExpSpaceH[sub][sup][ext]| = EXPSPACE-HARD_{SUB}^{SUP}EXT
                      \verb|\ExpSpaceC[sub][sup][ext]| = EXPSPACE-COMPLETE_{SUR}^{SUP}EXT
                    • \NExpSpace[sub][sup][ext] = NExpSpace_Sup_Ext
                      \NExpSpaceE[sub][sup][ext] = NEXPSPACE-EASY_{SUB}^{SUP}EXT
                      \NExpSpaceH[sub][sup][ext] = NEXpSpace-HARD_{SUB}^{SUP}EXT
                      \NExpSpaceC[sub][sup][ext] = NEXpSpace-COMPLETE_{SUB}^{SUP}EXT
                    • \UExpSpace[sub][sup][ext] = UExpSpace_sup_Ext
                      \UExpSpaceE[sub][sup][ext] = UExpSpace-Easy_{SUB}^{SUP}EXT
                      \UExpSpaceH[sub][sup][ext] = UExpSpace-Hard_{SUB}^{SUP}Ext
                      \verb|\UExpSpaceC[sub][sup][ext]| = UExpSpace-complete_{sub}^{sup}Ext
                    • \Delta ExpSpace[sub][sup][ext] = AExpSpace_{SUB}^{SUP}EXT
                      \verb|\AExpSpaceE[sub][sup][ext]| = AEXPSPACE-EASY_{SUB}^{SUP}EXT
                      \texttt{AExpSpaceH[sub][sup][ext]} = \text{AExpSpace-HARD}^{\text{SUP}}_{\text{SUB}}EXT
                      \verb|\AExpSpaceC[sub][sup][ext]| = AExpSpace-complete_{sub}^{Sup}Ext
                 957 \defcomcls{ExpSpace}
                 964 \ifgam@
                 \SATG, ... ...
                 966 %% Satisfiability Games
                 967 \cmdtxtoparname{SATG}[Sat]
```

• $UQPSpace[sub][sup][ext] = UQPSPACE_{SUB}^{SUP}EXT$

```
968
                 969 %% Validity Games
                 970 \cmdtxtoparname{VALG}[Val]
                 972 %% Evaluation Games
                 973 \cmdtxtoparname{EVLG}[Ev1]
                 975 %% Synthesis Games
                 976 \cmdtxtoparname{SYNG}[Syn]
                 978 %% Model-Checking Games
                 979 \cmdtxtoparname{MCG} [MC]
                 980
                 981 %% Ehrenfeucht-Fraisse Games
                 982 \cmdtxtoparname{EFG}[EF]
                 \PlrSym, \OppSym
                 984 \newcommand{\plrsym}{E}
                 985 \cmdmthsym{Plr}[\plrsym]
                 986 \newcommand{\oppsym}{A}
                 987 \cmdmthsym{Opp}[\oppsym]
\ArenaName, ... ...
                 988 \newcommand{\arenaname}{A}
                 989 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
   \PosSet, ... ...
                 990 \newcommand{\possym}{v}
                 991 \newcommand{\posset}{Ps}
                 992 \cmdmthsetext{Pos} [\posset] [\possym]
                 993 \cmdmthsymelm{ipos}[\possym_{I}]
                 994 \cmdmthsymelm{fpos}[\possym_{F}]
                 995 \cmdmthset{PPos}[\posset_{\PlrSym}]
                 996 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                 997 \cmdmthset{OPos}[\posset_{\OppSym}]
                 998 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \MovRel
                 999 \newcommand{\movrel}{Mv}
                1000 \cmdmthrel{Mov}[\movrel]
 \GameName, ... ...
                1001 \newcommand{\gamename}{\Game}
                1002 \usrmthlatupp{Game}{Name}{name}[\gamename]
        \WinSet ...
                1003 \newcommand{\winset}{Wn}
                1004 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun
                1005 \newcommand{\obsset}{Ob}
                1006 \cmdmthset{Obs}[\obsset]
                1007 \cmdmthfun{obs}
                \PthSet, \pthFun
                1009 \newcommand{\pthsym}{\pi}
                1010 \newcommand{\pthset}{Pth}
                1011 \cmdmthsetext{Pth}[\pthset][\pthsym]
                1012 \cmdmthfun{pth}
```

```
\HstSet, ... ...
                    1013 \newcommand{\hstsym}{\rho}
                    1014 \newcommand{\hstset}{Hst}
                     1015 \cmdmthsetext{Hst}[\hstset][\hstsym]
                     1016 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                     1017 \verb|\cmdmthsymelm{phst}| [\verb|\hstsym_{\parbox{$\sim$}}]
                     1018 \cmdmthset{OHst}[\hstset_{\OppSym}]
                     1019 \verb|\cmdmthsymelm{ohst}| [\verb|\hstsym_{\colored}]|
                     1020 \mbox{ \cmdmthfun{hst}}
\PlaySet,\playFun
                     1021 \newcommand{\playsym}{\pi}
                     1022 \newcommand{\playset}{Play}
                     1023 \cmdmthsetext{Play}[\playset][\playsym]
                     1024 \cmdmthfun{play}
     \StrSet, ...
                    1025 \newcommand{\strsym}{\sigma}
                    1026 \newcommand{\strset}{Str}
                     1027 \cmdmthsetext{Str}[\strset][\strsym]
                     1028 \cmdmthset{PStr}[\strset_{\PlrSym}]
                     1029 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                     1030 \cmdmthset{OStr}[\strset_{\OppSym}]
                     1031 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
\PrfSet, \prfFun
                     1032 \mbox{ \newcommand{\prfsym}{\xi}}
                     1033 \newcommand{\prfset}{Prf}
                     1034 \cmdmthsetext{Prf}[\prfset][\prfsym]
 \preFun, \sucFun
                     1035 \newcommand{\prefun}{pre}
                     1036 \cmdmthoargfun{pre}[\prefun]
                     1037 \newcommand{\sucfun}{suc}
                     1038 \cmdmthoargfun{suc}[\sucfun]
 \entFun, \escFun
                     1039 \mbox{ } \mbox{newcommand{\entfun}{ent}}
                     1040 \cmdmthoargfun{ent}[\cmdmthoargfun]
                     1041 \newcommand{\escfun}{esc}
                    1042 \verb|\cmdmthoargfun{esc}[\escfun]|
\intFun, \outFun ...
                    1043 \newcommand{\intfun}{int}
                     1044 \cmdmthoargfun{int}[\intfun]
                     1045 \newcommand{\operatorname{outfun}}{\operatorname{out}}
                    1046 \cmdmthoargfun{out}[\outfun]
 \atrFun, \rchFun ...
                     1047 \newcommand{\atrfun}{atr}
                     1048 \cmdmthoargfun{atr}[\atrfun]
                     1049 \newcommand{\rchfun}{rch}
                     1050 \cmdmthoargfun{rch}[\rchfun]
          \solFun
                    1051 \newcommand{\solfun}{sol}
                     1052 \cmdmthoargfun{sol}[\solfun]
```

```
\BG, ... ...
         1054 %% Buchi Games
         1055 \cmdtxtoparname{BG}
         1056
         1057 %% Co-Buchi Games
         1058 \cmdtxtoparname{CG}
         1059
         1060 %% Parity Games
         1061 \cmdtxtoparname{PG}
         1062
         1063 %% Rabin Games
         1064 \cmdtxtoparname{RG}
         1066 %% Streett Games
         1067 \cmdtxtoparname{SG}
         1068
         1069 %% Muller Games
         1070 \cmdtxtoparname{MG}
         \PrtSet, \prtFun
         1072 \mbox{ \newcommand{\prtsym}{p}}
         1073 \mbox{ \newcommand{\prtset}{Pr}}
         1074 \verb|\cmdmthsetext{Prt}| [\verb|\prtset|] [\verb|\prtsym|]
         1075 \mbox{ } \mbox{cmdmthfun{prt} [pr]}
         \EG, ... ...
         1078 %% Energy Games
         1079 \cmdtxtoparname{EG}
         1080
         1081 %% Mean-Payoff Games
         1082 \cmdtxtoparname{MPG}
         1083
         1084 %% Discounted-Payoff Games
         1085 \cmdtxtoparname{DPG}
         \WghSet, \wghFun
         1087 \newcommand{\wghsym}{w}
         1088 \mbox{ \newcommand{\wghset}{Wg}}
         1089 \cmdmthsetext{Wgh}[\wghset][\wghsym]
         1090 \cmdmthfun{wgh}[wg]
         1092 \fi
         1097 \iflog@
```

```
\BF, \QBF, ... ...
               1099 % Boolean Formulae
               1100 \cmdtxtoparname{BF}
               1101
               1102 % Quantified Boolean Formulae
               1103 \DeclareRobustCommand{\QBF}
                    {\{\text{txtname}\{Q\}\}\setminus BF\}}
               1105 \DeclareRobustCommand{\EBF}
                    {\ensuremath{\exists}\BF}
               1107 \DeclareRobustCommand{\UBF}
                    {\ensuremath{\forall}\BF}
               \LogSig, ... ...
               1110 \newcommand{\lceil \log sig \rceil}{L}
               1111 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
     \Tt, \Ff ...
               1112 \neq \{tsym}{\top}
               1113 \usrmth{Tt}{}{sym}[\ttsym]
               1114 \neq \{ffsym}{\bot}
               1115 \usrmth{Ff}{}{sym}[\ffsym]
   \APSet, ... ...
               1116 \newcommand{\apsym}{p}
               1117 \newcommand{\apset}{AP}
               1118 \cmdmthsetext{AP}[\apset][\apsym]
               1119 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
         \sub
               1120 \mbox{ }\mbox{usrmth} \mbox{sub}{{\mbox{argfun}}}
    \Cnt, \Qnt ...
               1121 \usrmth{Cnt}{}{sym}[Cn]
               1122 \operatorname{lgmth{Qnt}{sym}[Qn]}
    \QAE, \QEA ...
               1123 \usrmth{QAE}{}{sym}[\forall\exists]
               1124 \usrmth{QEA}{}{sym}[\exists\forall]
  \QntSet, ... ...
               1125 \newcommand{\qntsym}{\wp}
               1126 \mbox{ } \mbox{newcommand} \mbox{\qntset} \mbox{\Qn}
               1127 \cmdmthsetext{Qnt}[\qntset][\qntsym]
        \free ...
               1128 \usrmth{free}{}{argfun}
    \dep, \alt ...
               1129 \usrmth{dep}{}{argfun}
               1130 \usrmth{alt}{}{argfun}
    \pnf, \nnf ...
               1131 \cmdtxtabr{pnf}
               1132 \cmdtxtabr{nnf}
               \LogStr, ... ...
               1134 \newcommand{\lceil logstr}{L}
               1135 \usrmthlatupp{Log}{Str}{str}[\logstr]
```

```
\ValSet, ... ...
                             1136 \newcommand{\valsym}{\xi}
                             1137 \newcommand{\valset}{Val}
                             1138 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet, ... ...
                             1139 \newcommand{\asgsym}{\chi}
                             1140 \newcommand{\asgset}{Asg}
                             1141 \cmdmthsetext{Asg}[\asgset][\asgsym]
                             \FOL, ... ...
                             1143 % First-Order Logic
                             1144 \cmdtxtoparname{FOL}[Fol]
                             1146 % Monadic First-Order Logic
                             1147 \DeclareRobustCommand{\MFOL}
                             1148 \{\{\text{txtname}\{M\}\}\}\
                             \VarSig, ... ...
                             1150 \newcommand{\varsig}{V}
                             1151 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                             1152 \neq 1152 
                             1153 \newcommand{\varset}{Vr}
                             1154 \cmdmthsetext{Var}[\varset][\varsym]
                             1155 \usrmth{var}{}{argfun}[vr]
                             1156 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
\ConSig, ... ...
                             1157 \newcommand{\consig}{C}
                             1158 \usrmthlatupp{Con}{Sig}{sig}[\consig]
                             1159 \mbox{ }\mbox{consym}{c}
                             1160 \mbox{ } \mbox{conset}{Cn}
                             1161 \cmdmthsetext{Con}[\conset][\consym]
                             1162 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
                             1163 \newcommand{\funsig}{F}
                             1164 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
                             1165 \mbox{ }\mbox{newcommand{\hrunsym}{f}}
                             1166 \newcommand{\funset}{Fn}
                             1167 \cmdmthsetext{Fun}[\funset][\funsym]
                             1168 \usrmth{fun}{}{argfun}[fn]
                             1169 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
                             1170 \newcommand{\tersig}{T}
                             1171 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
                             1172 \mbox{ } \mbox
                             1173 \newcommand{\terset}{Tr}
                             1174 \cmdmthsetext{Ter}[\terset][\tersym]
                             1175 \usrmth{ter}{}{argfun}
\RelSig, ... ...
                             1176 \newcommand{\relsig}{R}
                             1177 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
                             1178 \mbox{ } \mbox{newcommand{\relsym}{r}}
                             1179 \newcommand{\relset}{Rl}
                             1180 \cmdmthsetext{Rel}[\relset][\relsym]
                             1181 \usrmth{rel}{}{argfun}[rl]
```

```
\skm ...
                            1182 \usrmth{skm}{}{argfun}
                            \ConStr, ... ...
                           1184 \newcommand{\constr}{C}
                           1185 \usrmthlatupp{Con}{Str}{str}[\constr]
 \FunStr, ... ...
                           1186 \mbox{ } \mbox
                           1187 \usrmthlatupp{Fun}{Str}{str}[\funstr]
 \TerStr, ... ...
                           1188 \newcommand{\terstr}{T}
                            1189 \usrmthlatupp{Ter}{Str}{str}[\terstr]
 \RelStr, ... ...
                           1190 \newcommand{\relstr}{R}
                            1191 \usrmthlatupp{Rel}{Str}{str}[\relstr]
                            \IF, ... ...
                            1193 % Independence-Friendly Logic
                            1194 \cmdtxtoparname{IF}
                            \SOL, ... ...
                           1198 % Second-Order Logic
                           1199 \cmdtxtoparname{SOL}[Sol]
                           1200
                           1201 % Monadic Second-Order Logic
                           1202 \DeclareRobustCommand{\MSOL}
                            1203 \{\{\text{txtname}\{M\}\}\}\
                            \FVarSet, ...
                           1205 \newcommand{\fvarsym}{x}
                           1206 \newcommand{\fvarset}{FVr}
                           1207 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
                           1208 \newcommand{\svarsym}{X}
                            1209 \newcommand{\svarset}{SVr}
                            1210 \cmdmthsetext{SVar}[\svarset][\svarsym]
```

```
\TL, \PL, ... ...
            1213 % Tree Logic
            1214 \cmdtxtoparname{TL}
            1215
            1216 % Monadic Tree Logic
            1217 \DeclareRobustCommand{\MTL}
                {\{\text{txtname}\{M\}}\TL\}
            1218
            1219
            1220 % Path Logic
            1221 \cmdtxtoparname{PL}
            1223 % Monadic Path Logic
            1224 \DeclareRobustCommand{\MPL}
            1225 \quad \{\{\text{txtname}\{M\}\}\}\}
            \ML, \QML, ...
            1229 % Modal Logic
            1230 \cmdtxtoparname{ML}
            1231
            1232 % Quantified Modal Logic
            1233 \DeclareRobustCommand{\QML}
                {\{\text{txtname}\{Q\}\}\setminus ML\}}
            1235 \DeclareRobustCommand{\EML}
            1236 {\ensuremath{\exists}\ML}
            1237 \DeclareRobustCommand{\UML}
            1238 {\ensuremath{\forall}\ML}
            \Opr ...
            1240 \usrmth{Opr}{}{sym}[Op]
 \DMod, \BMod ...
            1241 \writingth{DMod}{{sym}[\Diamond]}
            1242 \usrmth{BMod}{}{sym}[\Box]
   \Exs, \All ...
            1243 \DeclareRobustCommand{\Exs}[1]
                {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}{\DMod}}}
            1245 \DeclareRobustCommand{\All}[1]
                {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
            \KrpStr, ... ...
            1248 \newcommand{\krpstr}{K}
            1249 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
 \WrlSet, ... ...
            1250 \newcommand{\wrlsym}{w}
            1251 \newcommand{\wrlset}{W}
            1252 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
            1253 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
```

```
\AccRel, \TrnRel
              1254 \mbox{ \newcommand{\accsym}{R}}
              1255 \cmdmthrel{Acc}[\accsym]
              1256 \verb|\cmdmthrel{Trn}| [\verb|\accsym|]|
       \labFun ...
              1257 \mbox{ \newcommand{\absym}{\absym}{\absym}}
              1258 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun
              1259 \providecommand{\phihhsym}{\phii}
              1260 \providecommand{\phithset}{Pth}
              1261 \cmdmthsetext{Pth} [\pthset] [\pthsym]
              1262 \cmdmthfun{pth}
              \MC, \QMC, ...
              1264 % Mu Calculus
              1265 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
              1267 % Quantified Modal Logic
              1268 \DeclareRobustCommand{\QMC}
                  {{\txtname{Q}}\MC}
              1270 \DeclareRobustCommand{\EMC}
                  {\ensuremath{\exists}\MC}
              1272 \DeclareRobustCommand{\UMC}
              1273 {\ensuremath{\forall}\MC}
              \PTL, \LTL, ...
              1277 % Propositional Temporal Logic
              1278 \cmdtxtoparname{PTL}
              1279
              1280 % Quantified Propositional Temporal Logic
              1281 \DeclareRobustCommand{\QPTL}
                  {{\txtname{Q}}\PTL}
              1283 \DeclareRobustCommand{\EPTL}
                  {\ensuremath{\exists}\PTL}
              1285 \DeclareRobustCommand{\UPTL}
              1286
                  {\ensuremath{\forall}\PTL}
              1287
              1288 % Linear Temporal Logic
              1289 \cmdtxtoparname{LTL}
              1291 % Quantified Linear Temporal Logic
              1292 \DeclareRobustCommand{\QLTL}
                  {\{\text{txtname}\{Q\}\}\setminus LTL\}}
              1294 \DeclareRobustCommand{\ELTL}
              1295 {\ensuremath{\exists}\LTL}
              1296 \DeclareRobustCommand{\ULTL}
                  {\ensuremath{\forall}\LTL}
```

```
\X, ... ...
              1299 \usrmth{X}{}{sym}[X\,]
              1300 \usrmth{F}{}{sym}[F\,]
              1301 \usrmth{G}{}{sym}[G\,]
              1302 \t \{U\}{sym}[\t,U\t,]
              1303 \usrmth{R}{}{sym}[\,R\,]
      \Y, ... ...
              1304 \usrmth{Y}{}{sym}[G\,]
              1305 \usrmth{P}{}{sym}[P\,]\let\SavePilcrow\P
              1306 \mbox{\sc h}_{H},]\left( \mbox{\sc h} \right)
              1307 \space{1}{sym}[\space{1}{sym}[\space{1}{sym}]\space{1}{saveSectionSymbol}
              1308 \usrmth{B}{}{sym}[\,B\,]
              \PDL, \CTL, ... ...
              1312 % Propositional Dynamic Logic
              1313 \cmdtxtoparname{PDL}
              1315 % Computation Tree Logic
              1316 \cmdtxtoparname{CTL}
              1317
              1318\,\% Quantified Computation Tree Logic
              1319 \DeclareRobustCommand{\QCTL}
                   {{\txtname{Q}}\CTL}
              1321 \DeclareRobustCommand{\ECTL}
                   {\ensuremath{\exists}\CTL}
              1323 \DeclareRobustCommand{\UCTL}
              1324
                  {\ensuremath{\forall}\CTL}
              1325
              1326 % Improved Computation Tree Logic
              1327 \cmdtxtoparname{CTLP}[CTL$^{+}$]
              1329 % Quantified Improved Computation Tree Logic
              1330 \DeclareRobustCommand{\QCTLP}
                  {\{\text{txtname}\{Q\}\}\CTLP}
              1332 \DeclareRobustCommand{\ECTLP}
              1333 {\ensuremath{\exists}\CTLP}
              1334 \DeclareRobustCommand{\UCTLP}
                  {\ensuremath{\forall}\CTLP}
              1335
              1337 % Full Computation Tree Logic
              1338 \cmdtxtoparname{CTLS}[CTL*]
              1340 % Quantified Full Computation Tree Logic
              1341 \DeclareRobustCommand{\QCTLS}
                   {{\txtname{Q}}\CTLS}
              1343 \DeclareRobustCommand{\ECTLS}
                  {\ensuremath{\exists}\CTLS}
              1345 \DeclareRobustCommand{\UCTLS}
              1346 {\ensuremath{\forall}\CTLS}
              \E, \A ...
              1348 \usrmth{E}{}{sym}
              1349 \operatorname{A}{{A}}{sym}
```

```
\ATL, ... ...
            1352 % Alternating Temporal Logic
            1353 \cmdtxtoparname{ATL}
            1355 % Quantified Alternating Temporal Logic
            1356 \DeclareRobustCommand{\QATL}
            1357 {{\txtname{Q}}\ATL}
            1358 \DeclareRobustCommand{\EATL}
            1359 {\ensuremath{\exists}\ATL}
            1360 \DeclareRobustCommand{\UATL}
                 {\ensuremath{\forall}\ATL}
            1362
            1363 % Improved Alternating Temporal Logic
            1364 \cmdtxtoparname{ATLP}[ATL$^{+}$]
            1366 % Quantified Improved Alternating Temporal Logic
            1367 \DeclareRobustCommand{\QATLP}
                 {{\txtname{Q}}\ATLP}
            1369 \DeclareRobustCommand{\EATLP}
                 {\ensuremath{\exists}\ATLP}
            1371 \DeclareRobustCommand{\UATLP}
                 {\ensuremath{\forall}\ATLP}
            1374 % Full Alternating Temporal Logic
            1375 \cmdtxtoparname{ATLS}[ATL*]
            1377 \mbox{\ensuremath{\mbox{\%}}} Quantified Full Alternating Temporal Logic
            1378 \DeclareRobustCommand{\QATLS}
            1379 \{\{\text{txtname}\{Q\}\}\} ATLS\}
            1380 \DeclareRobustCommand{\EATLS}
            1381 {\ensuremath{\exists}\ATLS}
            1382 \DeclareRobustCommand{\UATLS}
            1383 {\ensuremath{\forall}\ATLS}
            \EExs, \AAll ...
            1385 \DeclareRobustCommand{\EExs}[1]
                 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
            1387 \DeclareRobustCommand{\AAll}[1]
                 {\mth{\argmid{\left[\left[\}{\defval{#1}\{\emptyset\}\{\right]\}\}}}
            \CGS ...
            1390 \cmdtxtname{CGS}
\CGSStr, ... ...
            1391 \newcommand{\cgsstr}{G}
            1392 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
            1393 \mbox{ } \mbox{newcommand{\agnsym}{a}}
            1394 \newcommand{\agnset}{Ag}
            1395 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
            1396 \providecommand{\possym}{v}
            1397 \providecommand{\posset}{Ps}
            1398 \cmdmthsetext{Pos}[\posset][\possym]
```

```
1399 \cmdmthsymelm{ipos}[\possym_{I}]
                   1400 \cmdmthsymelm{fpos}[\possym_{F}]
                   1401 \cmdmthset{PPos}[\posset_{\PlrSym}]
                   1402 \mbox{ \cmdmthsymelm{ppos}[\possym_{\PlrSym}]}
                   1403 \cmdmthset{OPos}[\posset_{\OppSym}]
                   1404 \verb|\cmdmthsymelm{opos}[\possym_{\0ppSym}]|
    \SttSet, ... ...
                   1405 \mbox{ } \mbox{newcommand{\sttsym}{s}}
                   1406 \newcommand{\sttset}{St}
                   1407 \cmdmthsetext{Stt}[\sttset][\sttsym]
                   1408 \verb|\cmdmthset{IStt}[\sttset_{I}]|
                   1409 \cmdmthsymelm{istt}[\sttsym_{I}]
                   1410 \cmdmthset{FStt}[\sttset_{F}]
                   1411 \cmdmthsymelm{fstt}[\sttsym_{F}]
    \ActSet, ... ...
                   1412 \neq 1412 
                   1413 \mbox{ \newcommand{\actset}{Ac}}
                   1414 \cmdmthsetext{Act}[\actset][\actsym]
    \DecSet, ... ...
                   1415 \mbox{ } \mbox{newcommand{\decsym}{d}}
                   1416 \newcommand{\decset}{Dc}
                   1417 \cmdmthsetext{Dec} [\decsym]
         \movFun
                   1418 \newcommand{\movsym}{\tau}
                   1419 \cmdmthfun{mov} [\movsym]
    \HstSet, ... ...
                   1420 \providecommand{\hstsym}{\rho}
                   1421 \providecommand{\hstset}{Hst}
                   1422 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1423 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1424 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1425 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1426 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                   1427 \cmdmthfun{hst}
\PlaySet,\playFun
                   1428 \providecommand{\playsym}{\pi}
                   1429 \providecommand{\playset}{Play}
                   1430 \cmdmthsetext{Play}[\playset][\playsym]
                   1431 \cmdmthfun{play}
    \StrSet, ... ...
                   1432 \providecommand{\strsym}{\sigma}
                   1433 \providecommand{\strset}{Str}
                   1434 \cmdmthsetext{Str}[\strset][\strsym]
                   1435 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1436 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1437 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1438 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
\PrfSet, \prfFun
                   1439 \providecommand{\prfsym}{\xi}
                   1440 \providecommand{\prfset}{Prf}
                   1441 \cmdmthsetext{Prf}[\prfset][\prfsym]
```

```
\SL, ... ...
          1443 % Strategy Logic
          1444 \cmdtxtoparname{SL}
          1446 \verb|\DeclareRobustCommand{\ESL}|
                {\ensuremath{\exists}\SL}
          1448 \verb|\DeclareRobustCommand{\USL}|
                {\ensuremath{\forall}\SL}
          1449
          1450
          1451 \DeclareRobustCommand{\FSL}
                {\{\text{txtname}\{F\}\}\SL\}}
          1454 \DeclareRobustCommand{\EFSL}
                {\ensuremath{\exists}\FSL}
          1456 \DeclareRobustCommand{\UFSL}
                {\ensuremath{\forall}\FSL}
          1457
          1458
          1459 \% One-Goal Strategy Logic
          1460 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][1g\arglef{,}{#3}]}
          1462
          1463 \DeclareRobustCommand{\EOGSL}
                {\ensuremath{\exists}\OGSL}
          1465 \DeclareRobustCommand{\UOGSL}
                {\ensuremath{\forall}\OGSL}
          1467
          1468 \DeclareRobustCommand{\FOGSL}
                {{\txtname{F}}\OGSL}
          1469
          1470
          1471 \DeclareRobustCommand{\EFOGSL}
                 {\ensuremath{\exists}\FOGSL}
          1473 \DeclareRobustCommand{\UFOGSL}
          1474
                {\ensuremath{\forall}\FOGSL}
          1476\ \% Conjunctive-Goal Strategy Logic
          1477 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][cg\arglef{,}{#3}]}
          1478
          1479
          1480 \DeclareRobustCommand{\ECGSL}
                 {\ensuremath{\exists}\CGSL}
          1482 \DeclareRobustCommand{\UCGSL}
                {\ensuremath{\forall}\CGSL}
          1485 \verb|\DeclareRobustCommand{\FCGSL}|
          1486
                {\{\text{xtname}\{F\}\}\times GSL\}}
          1488 \DeclareRobustCommand{\EFCGSL}
                {\ensuremath{\exists}\FCGSL}
          1490 \DeclareRobustCommand{\UFCGSL}
          1491
                {\ensuremath{\forall}\FCGSL}
          1492
          1493 % Disjunctive-Goal Strategy Logic
          1494 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][dg\arglef{,}{#3}]}
          1496
          1497 \DeclareRobustCommand{\EDGSL}
                {\ensuremath{\exists}\DGSL}
          1499 \DeclareRobustCommand{\UDGSL}
                {\ensuremath{\forall}\DGSL}
          1500
          1501
          1502 \DeclareRobustCommand{\FDGSL}
                {\{\text{txtname}\{F\}\}\setminus xGSL\}}
          1503
          1504
```

```
1505 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
1507 \DeclareRobustCommand{\UFDGSL}
1508
      {\ensuremath{\forall}\FDGSL}
1509
1510 % Alternating-Goal Strategy Logic
1511 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1513
1514 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
1516 \DeclareRobustCommand{\UAGSL}
1517
      {\ensuremath{\forall}\AGSL}
1518
1519 \DeclareRobustCommand{\FAGSL}
1520
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1521
1522 \DeclareRobustCommand{\EFAGSL}
      {\ensuremath{\exists}\FAGSL}
1524 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
1527 % Extended-Goal Strategy Logic
1528 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1529
1530
1531 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
1532
1533 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
1534
1535
1536 \DeclareRobustCommand{\FEGSL}
1537
      {\{\text{xtname}\{F\}\}\times GSL\}}
1538
1539 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
1541 \DeclareRobustCommand{\UFEGSL}
     {\ensuremath{\forall}\FEGSL}
1542
1543
1544 % Boolean-Goal Strategy Logic
1545 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][bg\arglef{,}{#3}]}
1548 \DeclareRobustCommand{\EBGSL}
     {\ensuremath{\exists}\BGSL}
1550 \verb|\DeclareRobustCommand{\UBGSL}|
1551
      {\ensuremath{\forall}\BGSL}
1552
1553 \DeclareRobustCommand{\FBGSL}
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1554
1555
1556 \DeclareRobustCommand{\EFBGSL}
      {\ensuremath{\exists}\FBGSL}
1558 \DeclareRobustCommand{\UFBGSL}
1559
      {\ensuremath{\forall}\FBGSL}
1560
1561 % Nested-Goal Strategy Logic
1562 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
1563
      {\SL[#1][#2][ng\arglef{,}{#3}]}
1564
1565 \DeclareRobustCommand{\ENGSL}
     {\ensuremath{\exists}\NGSL}
1567 \DeclareRobustCommand{\UNGSL}
```

```
1568
                                                                                      {\ensuremath{\forall}\NGSL}
                                                             1569
                                                            1570 \DeclareRobustCommand{\FNGSL}
                                                            1571
                                                                                    {\{\text{xtname}\{F\}\}\times GSL\}}
                                                            1572
                                                            1573 \DeclareRobustCommand{\EFNGSL}
                                                                                  {\ensuremath{\exists}\FNGSL}
                                                            1575 \DeclareRobustCommand{\UFNGSL}
                                                                                    {\ensuremath{\forall}\FNGSL}
                                                            1578 % Undefined-Goal Strategy Logic
                                                            1579 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
                                                                                      {\SL[#1][#2][xg\arglef{,}{#3}]}
                                                            1581
                                                            1582 \DeclareRobustCommand{\EXGSL}
                                                                                     {\ensuremath{\exists}\XGSL}
                                                            1583
                                                            1584 \DeclareRobustCommand{\UXGSL}
                                                                                    {\ensuremath{\forall}\XGSL}
                                                            1585
                                                            1586
                                                            1587 \DeclareRobustCommand{\FXGSL}
                                                                                    {\{\text{xtname}\{F\}\}\times GSL\}}
                                                            1588
                                                            1590 \DeclareRobustCommand{\EFXGSL}
                                                            1591
                                                                                   {\ensuremath{\exists}\FXGSL}
                                                            1592 \DeclareRobustCommand{\UFXGSL}
                                                                               {\ensuremath{\forall}\FXGSL}
                                                            \BndSet, ...
                                                            1595 \newcommand{\bndsym}{\flat}
                                                            1596 \newcommand{\bndset}{Bn}
                                                            1597 \cmdmthsetext{Bnd} [\bndset] [\bndsym]
                                                            1598 \usrmth{bnd}{}{argfun}
                                   \psn
                                                            1599 \usrmth{psn}{}{argfun}
                                                            \nxt.Fiin
                                                            1601 \newcommand{\nxtfun}{nxt}
                                                            1602 \mbox{ \cmdmthfun{nxt} [\nxtfun]}
                                                            1603 \fi
                                                            1608 \ifaut@
                                                            \DWA, ...
                                                            1610 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}|
                                                            1612 \verb|\cmdtxtoparname{DFW}\cmdtxtoparname{MFW}\cmdtxtoparname{AFW}|
                                                            1613 \verb|\cmdtxtoparname{DBW}\cmdtxtoparname{MBW}\cmdtxtoparname{ABW}|
                                                            1614 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{ACW}| $$ 1614 \cmdtxtoparname{DCW}\cmdtxtoparname{ACW} $$ 1614 \cmdtxtoparname{DCW}\cmdtxtoparname{ACW} $$ 1614 \cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{ACW} $$ 1614 \cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}\cmdtxtoparname{DCW}
                                                            1615 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{MPW}\cmdtxtoparname{APW}|
                                                            1616 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ \cmdtxtoparname{ARW}$ $$ \cmdtxtoparname{A
                                                            1617 \verb|\cmdtxtoparname{DSW}\cmdtxtoparname{NSW}\cmdtxtoparname{USW}\cmdtxtoparname{ASW}| and the constraints of the constrain
                                                            1618 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
```

```
\GFG, \PD, ... ...
                                                             1619 \cmdtxtoparname{GFG}
                                                             1620
                                                             1621 \cmdtxtoparname{PD}
                                                             1622
                                                             1623 %% ...
                                                              \AutName, ... ...
                                                             1625 \mbox{ \newcommand{\autname}{A}}
                                                              1626 \mbox{ \name}{\name}[\name]
                                                              1627 \mbox{ \newcommand{\autset}{Aut}}
                                                              1628 \cmdmthset{Aut}[\autset]
                        \WAutSet ...
                                                              1629 \newcommand{\wautset}{WAut}
                                                              1630 \cmdmthset{WAut}[\wautset]
        \SttSet, ... ...
                                                             1631 \def\sttsym{q}
                                                             1632 \def\sttset{Q}
                                                              1633 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                              1634 \cmdmthset{IStt}[\sttset_{I}]
                                                              1635 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                              1636 \cmdmthset{FStt}[\sttset_{F}]
                                                              1637 \cmdmthsymelm{fstt}[\sttsym_{F}]
        \SymSet, ... ...
                                                              1638 \newcommand{\symsym}{\sigma}
                                                              1639 \newcommand{\symset}{\Sigma}
                                                              1640 \cmdmthsetext{Sym} [\symset] [\symsym]
                           \trnFun ...
                                                              1641 \mbox{ \newcommand{\trnsym}{\delta}}
                                                              1642 \cmdmthfun{trn}[\trnsym]
                                                              \LangFun ...
                                                              1644 \mbox{ newcommand{\langfun}{L}}
                                                              1645 \cmdmthfun{Lang}[\langfun]
        \WrdSet, ... ...
                                                             1646 \mbox{ } \mbox{wrdsym}{w}
                                                              1647 \newcommand{\wrdset}{Wr}
                                                              1648 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                                                              \DTA, ... ...
                                                             1650 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| cmdtxtoparname{ATA}| 
                                                              1652 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| cmdtxtoparname{UFT}\cmdtxtoparname{AFT}| cmdtxtoparname{AFT}| c
                                                              1653 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{MBT}\cmdtxtoparname{UBT}\cmdtxtoparname{ABT}|
                                                              1654 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{NCT}\cmdtxtoparname{UCT}\cmdtxtoparname{ACT}|
                                                              1655 \verb|\cmdtxtoparname{PPT}\cmdtxtoparname{PPT}\cmdtxtoparname{PPT}|
                                                              1656 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{QRT}| \\
                                                              1657 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| cmdtxtoparname{AST}| 
                                                              1658 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}\cmdtxtoparname{AMT}|
```

```
\TAutSet ...
       1660 \mbox{ \newcommand{\tautset}{TAut}}
       1661 \cmdmthset{TAut}[\tautset]
\DirSet, ...
       1662 \mbox{ \newcommand{\dirsym}{d}}
       1663 \newcommand{\dirset}{\Lambda}
       1664 \cmdmthsetext{Dir}[\dirset][\dirsym]
       \TreeSet, ... ...
       1666 \newcommand{\treesym}{T}
       1667 \newcommand{\treeset}{Tr}
       1668 \cmdmthsetext{Tree} [\treeset] [\treesym]
  \wotFun ...
       1669 \mbox{ \newcommand{\wotfun}{wot}}
       1670 \cmdmthfun{wot}[\wotfun]
       1671 \fi
       1676 \iffrm@
       1677 %%...
       1678 \fi
       1683 \iffig@
       1684 \RequirePackage{tikz}
       1685 \usetikzlibrary{arrows, shapes}
       1686 \tikzstyle{every node} =
       1687 [draw = none, fill = none, black, thin]
       1688 \tikzstyle{every edge} +=
       1689 [black, thick]
       1690 \tikzstyle{noall} =
       1691 [draw = none, fill = none]
       1692 \tikzstyle{nodraw} =
       1693 [draw = none, fill = white]
       1694 \tikzstyle{nofill} =
       1695 [draw = black, fill = none]
       1696 \ifwrpfig@
       1697 % Wrapfig Package
       1698 \RequirePackage{wrapfig}
       1699 \fi
       1700 \fi
       1705 \iftab@
```

1706 %%...

```
1707 \fi
                                  1712 \ifalg@
                                  1713 \RequirePackage[ruled,vlined]{algorithm2e}
                                  1714 \setlength{\algomargin}{1.25em}
                                  1715 \DontPrintSemicolon
                                  1716 \SetInd{0.25em}{0.5em}
       \Signature ...
                                 1717 \SetKw{Signature}{signature}
    \Macro, ... ...
                                 1718 \SetKwFor{Macro}{macro}{}}
                                  1719 \SetKwFor{Function}{function}{}}
                                  1720 \SetKwFor{Procedure}{procedure}{}}
                    \Let ...
                                  1721 \SetKwFor{Let}{let}{in}{}
\True, \False ...
                                  1722 \SetKw{True}{true}
                                  1723 \SetKw{False}{false}
       \GoTo, ... ...
                                 1724 \SetKw{GoTo}{goto}
                                  1725 \SetKw{Break}{break}
                                  1726 \SetKw{Continue}{continue}
        \MIf, ... ...
                                  1727 \ensuremath{\mbox{MElse}{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{
                    \nlr ...
                                  1728 \DeclareRobustCommand{\nlr}[1]
                                                {\addtocounter{AlgoLine}{1}%
                                  1730
                                               \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
                                  1731 \fi
                                  1733 \endinput
                                  1734 \langle /package \rangle
```

2 Change History

v0.0	v0.3
General: First public release 1	General: Few problems solved $\dots \dots 1$
v0.1	v0.4
	General: Refactoring, corrections, and
General: Algorithm tricks 1	extensions
v0.2	v0.5
General: Changes in auxiliary tricks 1	General: Figure tricks

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\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702,	214, 215, 216, 318, 320, 322, 324, 326, 331, 373,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707,	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713,	$\begin{array}{c} 214,\ 215,\ 216,\ 318,\ 320,\\ 322,\ 324,\ 326,\ 331,\ 373,\\ 375,\ 377,\ 379,\ 381,\ 386,\ 946\\ \\ \verb+\csedef+++++++++++++++++++++++++++++++++++$
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718,	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfum 574	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728,	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733,	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \\ \verb \csedef \dots \dots 246, 250\\ \\ \verb \csname 236,\\ 237, 238, 239, 240, 241,\\ 242, 247, 251, 318, 320,\\ \end{array}$
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \\ \verb \csedef $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \(\frac{327}{327}, 412, 424, 437, 449\)	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparset 542	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \frac{327}{24}, 412, 424, 437, 449 \cmdtxtarg \docs \frac{319}{28}, 328	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \verb \csedef $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparset 542 \cmdmthoparsig 516	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \frac{327}{327}, 412, 424, 437, 449 \cmdtxtarg \cdots \frac{319}{328} \cmdtxtargabr \cdots \frac{427}{427}	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \verb \csedef $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 552 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparset 542 \cmdmthoparsig 516 \cmdmthoparsnt 639	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \frac{327}{24}, 412, 424, 437, 449 \cmdtxtarg \cdots \frac{319}{24}, 328 \cmdtxtargabr \frac{427}{24} \cmdtxtargcom \frac{452}{452}	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946 \csedef
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\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparsig 516 \cmdmthoparsig 516 \cmdmthoparstr 529 \cmdmthoparsym 587, 616 \cmdmthoparvec 679 \cmdmthpar 378, 383 \cmdmthparcls 501 \cmdmthparfam 488 \cmdmthparfam 488 \cmdmthparfrm 650	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \frac{327}{24}, 412, 424, 437, 449 \cmdtxtarg \frac{319}{27}, 328 \cmdtxtargdef \frac{415}{27} \cmdtxtargname \frac{450}{28}, 1390 \cmdtxtargabr \frac{438}{29}, 1328 \cmdtxtargabr \frac{438}{29} \cmdtxtargabr \frac{429}{29} \cmdtxtargabr \frac{454}{29} \cmdtxtargabr \frac{454}{29} \cmdtxtargabr \frac{454}{29} \cmdtxtargabr \frac{454}{29} \cmdtxtargabr \frac{454}{417}	$\begin{array}{c} 214, 215, 216, 318, 320,\\ 322, 324, 326, 331, 373,\\ 375, 377, 379, 381, 386, 946\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparsig 516 \cmdmthoparsig 516 \cmdmthoparstr 529 \cmdmthoparsym 587, 616 \cmdmthoparvec 679 \cmdmthpar 378, 383 \cmdmthparcls 501 \cmdmthparfam 488 \cmdmthparfrm 650 \cmdmthparfrm 572	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \frac{327}{24}, 412, 424, 437, 449 \cmdtxtarg \frac{319}{27}, 328 \cmdtxtargdef \frac{415}{27} \cmdtxtargdef \frac{415}{28}, 1390 \cmdtxtarg \frac{438}{29}, 1328 \cmdtxtarg \frac{438}{29}, 1328 \cmdtxtarg \frac{438}{29}, 1328 \cmdtxtarg \frac{450}{29} \cmdtxtarg \frac{450}{29} \cmdtxtarg \frac{450}{29} \cmdtxtarg \frac{450}{29} \cmdtxtarg \frac{450}{29} \cmdtxtarg \frac{450}{417} \cmdtxtarg \frac{417}{29} \cmdtxtarg \frac{417}{242} \cmdtxtarg \frac{417}{242} \cmdtxtarg \frac{412}{242} \cmdtxtarg \frac{442}{242} \cmdtrac{442}{242}	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946 \csedef \ldots 246, 250 \csname \ldots 237, 238, 239, 240, 241, 242, 247, 251, 318, 320, 322, 324, 326, 331, 337, 386 \cTLP \ldots 1331, 1333, 1335 \cTLS \ldots 1342, 1344, 1346 \currentOption \ldots 126 D \DeclareMathAlphabet \ldots 204, 205, 206, 207 \DeclareMathOperator 825, 827 \DeclareOption \ldots 12, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 54, 55, 60, 61, 67, 68, 72, 73, 78, 79, 84, 85, 89, 90, 94, 95, 100, 101, 106, 107, 111, 116, 117, 122, 123, 126 \DeclareRobustCommand \ldots
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparset 542 \cmdmthoparsig 516 \cmdmthoparstr 529 \cmdmthoparsym 587, 616 \cmdmthoparsymelm 615 \cmdmthpar 378, 383 \cmdmthparcls 501 \cmdmthparfam 488 \cmdmthparfam 488 \cmdmthparfrm 650 \cmdmthparfum 572 \cmdmthparmat 664	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \frac{327}{327}, 412, 424, 437, 449 \cmdtxtarg \frac{319}{328} \cmdtxtargdef \frac{415}{415} \cmdtxtargdef \frac{415}{418} \cmdtxtarg \frac{438}{319}, 328 \cmdtxtarg \frac{438}{319}, 328 \cmdtxtargdef \frac{415}{327}, 412, 424, 437, 449 \cmdtxtargdef \frac{413}{327}, 412, 424, 437, 449 \cmdtxtargdef \frac{417}{327}, 422, 424, 437, 449 \cmdtxtargdef \frac{417}{327}, 422, 424, 437, 449 \cmdtxtargdef \frac{417}{327}, 422, 424, 437, 449 \cmdtxtargdef \frac{417}{327}, 412, 424, 437, 449 \cmdtxtargdef \frac{417}{327}, 412, 412, 412, 412, 412, 412, 412, 412	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946 \csedef
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparrame 477 \cmdmthoparrel 561 \cmdmthoparset 542 \cmdmthoparsig 516 \cmdmthoparstr 529 \cmdmthoparsym 587, 616 \cmdmthoparsymelm 615 \cmdmthpar 378, 383 \cmdmthparcls 501 \cmdmthparfam 488 \cmdmthparfam 488 \cmdmthparfum 572 \cmdmthparfum 572 \cmdmthparmat 664 \cmdmthparname 475	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \(\frac{327}{327}\), 412, 424, 437, 449 \cmdtxtarg \(\frac{319}{328}\), 328 \cmdtxtargdef \(\frac{415}{415}\) \cmdtxtarg \(\frac{438}{321}\), 328 \cmdtxtanme \(\frac{438}{430}\) \cmdtxtarg \(\frac{321}{321}\), 328 \cmdtxtarg \(\frac{321}{321}\), 328 \cmdtxtarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{417}{322}\) \cmdtxtoarg \(\frac{417}{325}\), 328 \cmdtxtopar \(\frac{433}{325}\), 328 \cmdtxtopar \(\frac{325}{328}\) \cmdtxtopar \(\frac{325}{328}\) \cmdtxtopar \(\frac{325}{328}\)	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946 \csedef
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparmat 666 \cmdmthoparname 477 \cmdmthoparrel 561 \cmdmthoparsig 516 \cmdmthoparsig 516 \cmdmthoparstr 529 \cmdmthoparsym 587, 616 \cmdmthoparsymelm 615 \cmdmthpar 378, 383 \cmdmthparcls 501 \cmdmthparelm 598, 614 \cmdmthparfam 488 \cmdmthparfum 572 \cmdmthparfum 572 \cmdmthparmat 664 \cmdmthparname 475 \cmdmthparrel 559	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \(\frac{327}{327}\), 412, 424, 437, 449 \cmdtxtarg \(\frac{319}{328}\), 328 \cmdtxtargdef \(\frac{415}{415}\) \cmdtxtarg \(\frac{450}{321}\), 328 \cmdtxtadef \(\frac{413}{327}\), 438, 1390 \cmdtxtarg \(\frac{438}{321}\), 328 \cmdtxtargabr \(\frac{438}{415}\) \cmdtxtarg \(\frac{413}{327}\) \cmdtxtarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{454}{321}\) \cmdtxtoarg \(\frac{454}{417}\) \cmdtxtoarg \(\frac{433}{325}\), 328 \cmdtxtoparabr \(\frac{433}{458}\) \cmdtxtoparcom \(\frac{458}{458}\)	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946 \csedef
\cmdmthoargvec 675 \cmdmthopar 380, 383 \cmdmthoparcls 503 \cmdmthoparelm 600, 617 \cmdmthoparfam 490 \cmdmthoparfrm 652 \cmdmthoparfun 574 \cmdmthoparrame 477 \cmdmthoparrel 561 \cmdmthoparset 542 \cmdmthoparsig 516 \cmdmthoparstr 529 \cmdmthoparsym 587, 616 \cmdmthoparsymelm 615 \cmdmthpar 378, 383 \cmdmthparcls 501 \cmdmthparelm 598, 614 \cmdmthparfam 488 \cmdmthparfun 572 \cmdmthparrame 475 \cmdmthparrame 475 \cmdmthparrel 559 \cmdmthparrel 559 \cmdmthparrel 559 \cmdmthparrel 540	688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 724, 726, 728, 729, 730, 731, 732, 733, 734, 736, 737, 1131, 1132 \cmdtxtall \(\frac{327}{327}\), 412, 424, 437, 449 \cmdtxtarg \(\frac{319}{328}\), 328 \cmdtxtargdef \(\frac{415}{415}\) \cmdtxtarg \(\frac{450}{321}\), 328 \cmdtxtanme \(\frac{438}{438}\), 1390 \cmdtxtoarg \(\frac{321}{321}\), 328 \cmdtxtoarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{438}{321}\), 328 \cmdtxtoarg \(\frac{450}{321}\), 328	214, 215, 216, 318, 320, 322, 324, 326, 331, 373, 375, 377, 379, 381, 386, 946 \csedef

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1528, 1545, 1562, 1579	\EFDGSL	1236,1271,1284,1295,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359,
1528, 1545, 1562, 1579	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557,
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, 1078	$\begin{array}{c} 1236,\ 1271,\ 1284,\ 1295,\\ 1322,\ 1333,\ 1344,\ 1359,\\ 1370,\ 1381,\ 1447,\ 1455,\\ 1464,\ 1472,\ 1481,\ 1489,\\ 1498,\ 1506,\ 1515,\ 1523,\\ 1532,\ 1540,\ 1549,\ 1557,\\ 1566,\ \ 1574,\ \ 1583,\ \ 1591\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534	$\begin{array}{c} 1236,\ 1271,\ 1284,\ 1295,\\ 1322,\ 1333,\ 1344,\ 1359,\\ 1370,\ 1381,\ 1447,\ 1455,\\ 1464,\ 1472,\ 1481,\ 1489,\\ 1498,\ 1506,\ 1515,\ 1523,\\ 1532,\ 1540,\ 1549,\ 1557,\\ 1566,\ \ 1574,\ \ 1583,\ \ 1591\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(_\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294	$\begin{array}{c} 1236,\ 1271,\ 1284,\ 1295,\\ 1322,\ 1333,\ 1344,\ 1359,\\ 1370,\ 1381,\ 1447,\ 1455,\\ 1464,\ 1472,\ 1481,\ 1489,\\ 1498,\ 1506,\ 1515,\ 1523,\\ 1532,\ 1540,\ 1549,\ 1557,\\ 1566,\ \ 1574,\ \ 1583,\ \ 1591\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235 \empchk \(\) 221, 227,	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235 \empchk 221, 227, 229, 231, 302, 357, 547, 549	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFSL 1590 \EG 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235 \empchk \(\) 221, 227, 229, 231, 302, 357, 547, 549 \emptyfun \(\) 822 \emptyrel \(\) 803	$\begin{array}{c} 1236,\ 1271,\ 1284,\ 1295,\\ 1322,\ 1333,\ 1344,\ 1359,\\ 1370,\ 1381,\ 1447,\ 1455,\\ 1464,\ 1472,\ 1481,\ 1489,\\ 1498,\ 1506,\ 1515,\ 1523,\\ 1532,\ 1540,\ 1549,\ 1557,\\ 1566,\ 1574,\ 1583,\ 1591\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFSL 1454 \EFSL 1590 \EG 715 \eg 697 \EG, 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235 \empchk 221, 227, 229, 231, 302, 357, 547, 549 \emptyrel 803 \emptyseq 920	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter \tag{957} \ExpSpace, \tag{957} \ExpTime, \tag{956} \Exs, \tag{All} \tag{1243} \F\fagsl \tag{1549}, 1523, 1525 \FBGSL \tag{1549}, 1557, 1559 \FCGSL \tag{1553}, 1557, 1559 \FCGSL \tag{1560}, 1506, 1508 \FEGSL \tag{1560}, 1540, 1542 \ffsym \tag{1547}, 1114, 1115
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235 \empchk 221, 227,	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL 1505 \EFEGSL 1539 \EFNGSL 1573 \EFOGSL 1471 \EFOGSL 1471 \EFSL 1454 \EFXGSL 1590 \Eg 715 \eg 697 \EG, \(\) 1078 \EGSL 1528, 1532, 1534 \else 176, 190, 222, 224, 233 \ELTL 1294 \em 412, 424 \EMC 1270 \EML 1235 \empchk \(\) 221, 227, 229, 231, 302, 357, 547, 549 \emptyfun \(\) 822 \emptyrel \(\) 803 \emptyseq \(\) 920 \emptyset 1386, 1388 \endcsname 236,	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter \tag{236}, 238, 241, 246, 250 \texpSpace, \tag{957} \texpTime, \tag{956} \texs, \tag{All} \tag{1243} \F\ \FAGSL \tag{1540}, 1519, 1523, 1525 \FBGSL \tag{1540}, 1549, 1543, 1559 \texpSpace, \tag{1540}, 1548, 1489, 1491 \texpTime, \tag{1540}, 1502, 1506, 1508 \texpSpace, \tag{1550}, 1556, 1540, 1542 \texpTime, \tag{1560}, 1540, 1542
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \texpandafter \tag{957} \texpandafter \text{957} \texpSpace, \text{956} \text{ExpSpace, \text{956}} \text{ExpTime, \text{956}} \text{Exs, \text{11}} \text{1519}, 1523, 1525 \text{FBGSL} \text{1553}, 1557, 1559 \text{FGGSL} \text{1553}, 1557, 1559 \text{FGGSL} \text{1485}, 1489, 1491 \text{FDGSL} \text{1502}, 1506, 1508 \text{FEGSL} \text{1536}, 1540, 1542 \text{\text{ffsym}} \text{114}, 1115 \text{\text{fi}} \text{\text{169}}, 184, 192, 193, 197, 199, 222, 224, 233, 460, 681, 738, 926, 959, 1092, 1603, 1671, 1678, 1699, 1700, 1707, 1731
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \texpandafter \tag{957} \texpandafter \text{957} \texpSpace, \text{956} \text{ExpSpace, \text{956}} \text{ExpTime, \text{956}} \text{Exs, \text{11}} \text{1519}, 1523, 1525 \text{FBGSL} \text{1553}, 1557, 1559 \text{FGGSL} \text{1553}, 1557, 1559 \text{FGGSL} \text{1485}, 1489, 1491 \text{FDGSL} \text{1502}, 1506, 1508 \text{FEGSL} \text{1536}, 1540, 1542 \text{\text{ffsym}} \text{114}, 1115 \text{\text{fi}} \text{\text{169}}, 184, 192, 193, 197, 199, 222, 224, 233, 460, 681, 738, 926, 959, 1092, 1603, 1671, 1678, 1699, 1700, 1707, 1731
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \(\texpandafter \ldots \
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\EFDGSL	1236, 1271, 1284, 1295, 1322, 1333, 1344, 1359, 1370, 1381, 1447, 1455, 1464, 1472, 1481, 1489, 1498, 1506, 1515, 1523, 1532, 1540, 1549, 1557, 1566, 1574, 1583, 1591 \expandafter

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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\labFun	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\labFun	\movsym
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\labFun	\movsym 1418, 1419 \MPL 1224 \MSOL 1202 \mth 359, 769,
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\gamename	\labFun	\movsym 1418, 1419 \MPL 1224 \MSOL 1202 \mth 359, 769,
\gamename	\labFun	\movsym 1418, 1419 \MPL 1224 \MSOL 1202 \mth 359, 769,
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\MTL 1217 \mu 1265 \mutatismutandis 704	\num, \(\text{Num}, \(\text{Numcc} \text{ 883} \\ \numco \text{ 885}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\MTL 1217 \mu 1265 \mutatismutandis 704 N	\num, \(\) \\ \) \numcc 883 \numco 885 \numoc 887	\prtsym
\MTL 1217 \mu 1265 \mutatismutandis 704	\num, \(\text{Num}, \(\text{Numcc} \text{ 883} \\ \numco \text{ 885}	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\MTL 1217 \mu 1265 \mutatismutandis 704 N	\num, \(\) \\ \) \numcc 883 \numco 885 \numoc 887	\prtsym
\MTL 1217 \mu 1265 \mutatismutandis 704 N \newcommandx 281, 283, 285, 287, 289, 291, 293,	\num, \(\) \(\) \numcc 883 \numcc 885 \numcc 887 \numco 889 \nxtFun \(\)	\prtsym 1072, 1074 \psn
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\MTL 1217 \mu 1265 \mutatismutandis 704 N \newcommandx 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 330, 336, 338, 340, 342, 344, 346,	\num, \(\) \(\) \numcc 883 \numcc 885 \numcc 887 \numco 889 \nxtfun \(\) \nxtfun \(\) \nxtfun \(\)	\prtsym 1072, 1074 \psn
\MTL	\num, \(\). \(\) \	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet,\pthFun . 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL,\LTL, 1277 \pto,\pmapsto 825 \QAE,\QEA 1123
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet,\pthFun . 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL,\LTL, 1277 \pto,\pmapsto 825 \QAE,\QEA 1123 \QATL 1356
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet,\pthFun . 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL,\LTL, 1277 \pto,\pmapsto 825 \QAE,\QEA 1123
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet, \pthFun . 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1356 \QATL 1367
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet, \pthFun . 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1367 \QATLS 1378
\MTL 1217 \mu 1265 \mutatismutandis 704 \textbf{N} \newcommandx 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 330, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 385, 388, 390, 392, 394, 396, 398, 400, 402, 404, 413, 415, 417, 419, 421, 425, 427, 429, 431, 433, 438, 440, 442, 444, 446, 450, 452, 454, 456, 458, 469,	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet, \pthFun 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1367 \QATLS 1319
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet, \pthFun 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet, \pthFun 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330 \QCTLS 1341
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset .1010, 1011, 1260, 1261 \PthSet, \pthFun 1009, 1259 \pthsym .1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset 1010, 1011, 1260, 1261 \PthSet, \pthFun 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL \QEA 1123 \QATL 1356 \QATLP 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330 \QCTLS 1341 \QLTL 1292
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset 1010, 1011, 1260, 1261 \PthSet, \pthFun 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1356 \QATLP 1367 \QATLS 1378 \QCTL 1319 \QCTL 1319 \QCTLP 1330 \QCTLS 1341 \QLTL 1292 \qntset 1126, 1127
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset 1010, 1011, 1260, 1261 \PthSet, \pthFum 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \Q \QAE, \QEA 1123 \QATL 1356 \QATLP 1367 \QATLS 1378 \QCTL 1319 \QCTL 1319 \QCTLP 1330 \QCTLS 1341 \QLTL 1292 \qntset 1126, 1127 \QntSet, 1125
\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset 1010, 1011, 1260, 1261 \PthSet, \pthFum 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \QATL 1356 \QATL 1356 \QATL 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330 \QCTLP 1341 \QLTL 1292 \qntset 1126, 1127 \QntSet, 1125 \qntsym 1125, 1127
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\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset 1010, 1011, 1260, 1261 \PthSet, \pthFum 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \Q \QAE, \QEA 1123 \QATL 1356 \QATLP 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330 \QCTLS 1341 \QLTL 1292 \qntset 1126, 1127 \qntSet, 1125 \qntsym 1125, 1127 \QPSpace, 955 \QPTime, 955 \QPTime, 954
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\MTL	\num, \(\) \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn 1599 \PSpace, 953 \pthset 1010, 1011, 1260, 1261 \PthSet, \pthFum 1009, 1259 \pthsym 1009, 1011, 1259, 1261 \PTime, 952 \PTL, \LTL, 1277 \pto, \pmapsto 825 \Q \QAE, \QEA 1123 \QATL 1356 \QATLP 1367 \QATLS 1378 \QCTL 1319 \QCTLP 1330 \QCTLS 1341 \QLTL 1292 \qntset 1126, 1127 \qntSet, 1125 \qntsym 1125, 1127 \QPSpace, 955 \QPTime, 955 \QPTime, 954
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\MTL 1217 \mu 1265 \mutatismutandis 704 \textbf{N} newcommandx 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 330, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 385, 388, 390, 392, 394, 396, 398, 400, 402, 404, 413, 415, 417, 419, 421, 425, 427, 429, 431, 433, 438, 440, 442, 444, 446, 450, 452, 454, 456, 458, 469, 471, 473, 475, 477, 482, 484, 486, 488, 490, 495, 497, 499, 501, 503, 508, 510, 512, 514, 516, 521, 523, 525, 527, 529, 534, 536, 538, 540, 542, 544, 553, 555, 557, 559, 561, 566, 568, 570, 572, 574, 579, 581, 583, 585, 587, 592, 594, 596, 598, 600, 603, 606, 609, 612, 615, 621, 625, 631, 633, 635, 637, 639, 644, 646, 648, 650, 652, 658, 660, 662,	\num, \(\) \\ 881 \\numcc \\ 883 \\numcc \\ 885 \\numcc \\ 885 \\numcc \\ 887 \\numcc \\ 889 \\nxtFun \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\prtsym 1072, 1074 \psn
\MTL 1217 \mu 1265 \mutatismutandis 704 \textbf{N} newcommandx 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 330, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 385, 388, 390, 392, 394, 396, 398, 400, 402, 404, 413, 415, 417, 419, 421, 425, 427, 429, 431, 433, 438, 440, 442, 444, 446, 450, 452, 454, 456, 458, 469, 471, 473, 475, 477, 482, 484, 486, 488, 490, 495, 497, 499, 501, 503, 508, 510, 512, 514, 516, 521, 523, 525, 527, 529, 534, 536, 538, 540, 542, 544, 553, 555, 557, 559, 561, 566, 568, 570, 572, 574, 579, 581, 583, 585, 587, 592, 594, 596, 598, 600, 603, 606, 609, 612, 615, 621, 625, 631, 633, 635, 637, 639, 644, 646, 648, 650, 652, 658, 660, 662, 664, 666, 671, 673, 675,	\num, \(\) \\ 881 \\numcc \\ 883 \\numcc \\ 885 \\numcc \\ 885 \\numcc \\ 887 \\numcc \\ 889 \\nxtFun \\ \\ \\ \\ \\ \\ \\ \ \ \ \ \ \ \ \	\prtsym 1072, 1074 \psn
\MTL	\num, \(\) \\ 881 \\numcc \\ 883 \\numcc \\ 885 \\numcc \\ 885 \\numcc \\ 887 \\numcc \\ 889 \\nxtFun \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	\prtsym 1072, 1074 \psn

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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\SttSet,\(\pi\). \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1357, 1368, 1379, 1452, 1469, 1486, 1503, 1520, 1537, 1554, 1571, 1588 \txtname, \(\) \(
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\SttSet,\(\)	1357, 1368, 1379, 1452, 1469, 1486, 1503, 1520, 1537, 1554, 1571, 1588 \txtname,
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\SttSet,\(\pi\). \\ \\ \frac{1405}{1405}, \frac{1631}{1407}, \text{1409}, \text{1411}, \\ \text{1631}, \text{1631}, \text{1633}, \text{1635}, \text{1637} \\ \stx \text{120} \\ \sub \text{120} \\ \sucfun \text{1209}, \text{1210} \\ \svarset \text{1209}, \text{1210} \\ \Svarset,\(\pi\). \\ \text{1208}, \text{1210} \\ \symset \text{1639}, \text{1640} \\ \Symset,\(\pi\). \\ \\ \text{1638}, \text{1640} \\ \text{1638}, \text{1640} \\ \text{1639} \text{1638}, \text{1640} \\	1357, 1368, 1379, 1452, 1469, 1486, 1503, 1520, 1537, 1554, 1571, 1588 \txtname,
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	\SttSet,\(\pi\). \\ \\ \sttsym \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	1357, 1368, 1379, 1452, 1469, 1486, 1503, 1520, 1537, 1554, 1571, 1588 \txtname,
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\SavePilcrow	\SttSet, \(\) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1357, 1368, 1379, 1452, 1469, 1486, 1503, 1520, 1537, 1554, 1571, 1588 \txtname, \(\) \
\SavePilcrow	\SttSet, \(\) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1357, 1368, 1379, 1452, 1469, 1486, 1503, 1520, 1537, 1554, 1571, 1588 \txtname, \(\) \
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487, 489, 491, 496, 498,	447, 451, 453, 455, 457, 459	\WrdSet,
500, 502, 504, 509, 511,	\UXGSL	\wrdsym 1646, 1648
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