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

Required external packages:

1 (*package)

```
3 \RequirePackage{etoolbox}
5 \RequirePackage{xargs}
6 \RequirePackage{xspace}
7 \RequirePackage{stringstrings}
 Package options:
10 %% Auxiliary packages
11 \newif\ifaux@ \aux@false
12 \DeclareOption{aux}{\aux@true}
13 \DeclareOption{noaux}{\aux@false}
15
16 %% AMS defaults
17 \newif\ifamsdef@ \amsdef@true
18 \DeclareOption{noamsdef}{\amsdef@false}
19
20 %% AMS theorem tools
21 \newif\ifamsthm@ \amsthm@true
22 \DeclareOption{noamsthm}{\amsthm@false}
23
24 %% Theorem tools
25 \newif\ifthmtls@ \thmtls@true
26 \DeclareOption{nothmtls}{\thmtls@false}
27
28 %% Enumeration tools
29 \newif\ifenmtls@ \enmtls@true
```

30 \DeclareOption{noenmtls}{\enmtls@false}

34 \DeclareOption{nohypref}{\hypref@false}

31

32 %% Hyper reference

36 %% Font tools

33 \newif\ifhypref@ \hypref@true

^{*}This document describes version v0.4 of the fmocdmac package, last revised 2021/05/10.

```
37 \newif\iffnttls@ \fnttls@true
38 \DeclareOption{nofnttls}{\fnttls@false}
41 %% Camera-ready version
42 \newif\ifcrv@ \crv@false
43 \DeclareOption{crv}{\crv@true}
45 %% Change bars
46 \newif\ifchgbar@ \chgbar@false
47 \DeclareOption{chgbar}{\chgbar@true}
49 %% Line numbers
50 \newif\iflinnum@ \linnum@false
51 \DeclareOption{linnum}{\linnum@true}
53
54 %% Text macro generation
55 \newif\iftxtgen@ \txtgen@false
56 \DeclareOption{txtgen}{\txtgen@true}
57 \DeclareOption{notxtgen}
    {\txtgen@false\text@false\com@false\gam@false\log@false\aut@false}
60 %% Math macro generation
61 \newif\ifmthgen@ \mthgen@false
62 \DeclareOption{mthgen}{\mthgen@true}
63 \DeclareOption{nomthgen}
    {\mthgen@false\math@false\gam@false\log@false\aut@false}
65
67 %% Elementary macros for text
68 \newif\iftext@ \text@false
69 \label{lem:condition} $$ \Phi(t) = \Phi(t) + \Phi(t) . $$
70 \DeclareOption{notext}{\text@false}
71
72 %% Elementary macros for math
73 \newif\ifmath@ \math@false
74 \DeclareOption{math}{\math@true\mthgen@true}
75 \DeclareOption{nomath}{\math@false}
76
78 %% Macros for computational-complexity classes
79 \newif\ifcom@ \com@false
80 \DeclareOption{com}{\com@true\txtgen@true}
81 \DeclareOption{nocom}{\com@false}
82
84 %% Macros for games
85 \newif\ifgam@ \gam@false
86 \DeclareOption{gam}{\gam@true\txtgen@true\mthgen@true}
87 \DeclareOption{nogam}{\gam@false}
88
89 %% Macros for logics
90 \newif\iflog@ \log@false
91 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
92 \DeclareOption{nolog}{\log@false}
94 %% Macros for automata
95 \newif\ifaut@ \aut@false
96 \DeclareOption{aut}{\aut@true\txtgen@true\mthgen@true}
97 \DeclareOption{noaut}{\aut@false}
98
99
```

```
100 %% Format-related tricks
101 \newif\iffrm@ \frm@false
102 \DeclareOption{frm}{\frm@true}
103 \DeclareOption{nofrm}{\frm@false}
104
105 %% Figure-related tricks
106 \newif\iffig@ \fig@false
107 \DeclareOption{fig}{\fig@true}
108 \DeclareOption{nofig}{\fig@false}
110 %% Table-related tricks
111 \newif\iftab@ \tab@false
112 \DeclareOption{tab}{\tab@true}
113 \DeclareOption{notab}{\tab@false}
114
115 %% Algorithm-related tricks
116 \newif\ifalg@ \alg@false
117 \DeclareOption{alg}{\alg@true}
118 \DeclareOption{noalg}{\alg@false}
119
  Option-processing code:
121 \DeclareOption*{\PackageWarning{fmocdmac}{Unknown~'\CurrentOption'}}%
123 \ExecuteOptions{aux,txtgen,mthgen,text,math,com,gam,log,aut}%
125 \ProcessOptions\relax%
127 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
132 \ifaux@
133
134 \ifamsdef@
135 % AMS Packages
    \RequirePackage{amsmath}
    \RequirePackage{amssymb}
138
    \interdisplaylinepenalty=2500
139 \fi
140
141 \ifamsthm@
142 % AMS Theorem Tools
143 \RequirePackage{amsthm}
144 \fi
145
146 \ifthmtls@
147 % Theorem Tools
148 \RequirePackage{thmtools, thm-restate}
149 \fi
150
151 \ifenmtls@
152 % Enumeration Tools
   \RequirePackage{paralist}
154\ \mathbf{\backslash fi}
155
156 \ifhypref@
    % Hyper References
    \RequirePackage{hyperref}
158
159 \fi
161 \iffnttls@
```

```
% Font Tools
                                   163
                                                \RequirePackage[final]{microtype}
                                   164 \fi
                                   165
                                   166 \ifcrv@
                                               % Camera-Ready Version
                                   167
                                   168
                                                %%...
                                   169
                                   170
                                   171 \else
                                                % Draft Version
                                   173
                                   174
                                                %%...
                                   175
                                                \ifchgbar@
                                   176
                                                     % Change Bars
                                   177
                                                     \RequirePackage{changebar}
                                   178
                                                \fi
                                   179
                                   180
                                                \iflinnum@
                                   181
                                                     % Line Numbers
                                                      \if@twocolumn
                                   183
                                                           \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                                   184
                                   185
                                                           \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                                   186
                                                     \fi
                                   187
                                                \fi
                                   188
                                   189
                                   190
                                                %%...
                                   191
                                   192 \fi
                                   193
                                   194\fi
                                   \mathbbo
                                Bbo Math Font: ... to do!
                                   \matheus Eus Math Font: ... to do!
                                   200 \left\{ \mathbf{Watheus} \right\} \left\{ \mathbf{U} \right\} \left\{ \mathbf{n} \right\}
       \mathpzc Pzc Math Font: ... to do!
                                   201 \ifdef{\mathpzc}{}{\DeclareMathAlphabet{\mathpzc}{T1}{pzc}{m}{it}}
       \mathscr Scr Math Font: ... to do!
                                   202 \left\{ \mathbf{Mathscr} { \mathbb{T} {\mathbb{T}} {\mathbb{
                                   \omicron Auxiliary Greek lowercase letter: ... to do!
                                   207 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
                                   208 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
                                   209 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
                                   210 \csdef{VarKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{O}
                                   211 \csdef{Rho}{P} \csdef{varRho}{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"
         216 \newcommand{\empchk}[2]
             {\left\{ if \& #1 \& else #2 \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"
         218 \newcommand{\defval}[2]
             {\left\{ if \&#1\&#2\right\} }
         Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
           • \arglef{A}{} = ""
           • \operatorname{Alg}(A) = \operatorname{AB}''
         221 \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"
         223 \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"
         225 \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"
         227 \newcommand{\argsep}[3]
             {\if&#1&#3\else#1\allowbreak\arglef{#2}{#3}\fi}
```

```
Variadic commands: \operatorname{Varcmd}\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\{\langle E \rangle\}\{\langle F \rangle\} \dots to do!
              230 \newcommand{\varcmd}[6]
                   {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
              231
                     232
                   \expandafter\newcommand\csname check#larg\endcsname[1]
              233
                     {\csname @ifnextchar\endcsname%
              234
                       \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
              235
              236
                   \expandafter\newcommand\csname#1\endcsname[1]
                     {\csname check#1arg\endcsname{#3##1}}}
              Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\ \dots\ to\ do!
              239 \newcommand{\seqoftag}[3]
                  {\@for\itr:={#1}\do%
              240
              241
                     {\expandafter\csedef{\itr#2}%
                       {\noexpand\csname #3\endcsname{\itr}}}
              242
             Sequence of commands: \sq d(A) + (B) + (C) + \dots + (C)
              243 \newcommand{\seqofcmd}[3]
                  {\@for\itr:={#1}\do%
              244
                     {\expandafter\csedef{\itr#2}%
              245
                       {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}
              246
              \sequipsequence of Latin lowercase letters: \sequipsequence (A)\{\langle A \rangle\} ... to do!
              248 \newcommand{\seqoflatlow}
                   {\left(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\right)}
             Sequence of Latin uppercase letters: \ensuremath{\mathsf{Vagain}} \{\langle A \rangle\} \{\langle B \rangle\} \dots \text{ to do!}
\seqoflatupp
              250 \newcommand{\seqoflatupp}
                   {\seqoftag{A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z}}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
              252 \newcommand{\seqoflatlet}[2]
                  {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
              Sequence of Greek lowercase letters: \seqofgrklow{\langle A \rangle}{\langle B \rangle} ... to do!
\seqofgrklow
              255 \newcommand{\seqofgrklow}
                   {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
              257
                   iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
              258
                   varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
             Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\}\ ... to do!
\seqofgrkupp
              259 \newcommand{\seqofgrkupp}
                   Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                   varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
             Sequence of Greek letters: \seqofgrklet{\langle A \rangle}{\langle B \rangle} ... to do!
\seqofgrklet
              263 \newcommand{\seqofgrklet}[2]
                   {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
              \seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
              266 \newcommand{\seqoflow}[2]
                  {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
```

```
\seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                        268 \newcommand{\seqofupp}[2]
                                                   {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
           \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                        270 \newcommand{\seqoflet}[2]
                                                  {\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"
                                        276 \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"
                                        278 \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"
                                        280 \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
                                        282 \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)"
                                        284 \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)"
                                        286 \newcommandx{\newtxtoargsty}[2][2=]
                                                {\newtxtoarg[\defval{#2}{#1}]}
         \newtxtpar ... to do!
```

```
 \bullet \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"
                                                                                                                                  288 \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{\normall}] (\texttt{\normall}] (\texttt{\normal
                                                                                                                                                    • \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
                                                                                                                                  290 \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]"
                                                                                                                                292 \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{\
                                                                                                                                  294 \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
                                                                                                                                  296 \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"
                                                                                                                                                    • \text{txt[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext}] = \text{``Name}_{\text{sub}}^{\text{sup}}\text{Ext''}
                                                                                                                                  299 \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''
                                                                                                                                                    301 \newcommand{\txtarg}
                                                                                                                                                                {\newtxtargsty{\txtsty}}
                                              \txtoarg ... to do!
                                                                                                                                                   • \text{txtoarg{Name}[sub][sup][Arg]} = \text{"Name}_{\text{sub}}^{\text{sup}}(Arg)"
                                                                                                                                                    • \t \ [sub] [sup] [Arg] = "Name\ [Sub] [sup] [Arg] = "Name\ [Sub] [sub] [sub] [sub] = "Name\ [sub] [sub] [sub] = "Name\ [sub] [sub] = "Name\ [sub
                                                                                                                                                     \qquad \qquad \bullet \  \, \texttt{ \txtoarg[\bfseries] \{Name\} [sub] [sup] [Arg] = "Name}_{sub}^{sup} (Arg)" }
```

```
303 \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"
                           305 \newcommand{\txtpar}
                                   {\newtxtparsty{\txtsty}}
                           306
     \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]"
                           307 \newcommand{\txtopar}
                           308 {\newtxtoparsty{\txtsty}}
       \txtsty ... to do!
                           309 \newcommand{\txtsty}
                                   {\mdseries\upshape\rmfamily}
       \cmdtxt ... to do!
                                • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                    \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|_{SUB}Ext|
                           312 \newcommand{\cmdtxt}[1]
                           313 {\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
                           314 \newcommand{\cmdtxtarg}[1]
                           315 {\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)
                           316 \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
                           318 \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]|
                           320 \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]|
```

```
322 \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)
                                                       325 \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"
                                           331 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                           332 {\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"
                                            333 \newcommandx{\newmthsty}[2][2=]
                                           334 {\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" | 
                                            335 \newcommandx{\newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                           336 {\mathbf{1}} {\newmth[#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 
                                            337 \newcommandx{\newmthargsty}[2][2=]
                                           338 {\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{\ \ \ } ]
                                                  • \newmthoarg[mathtt]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                            339 \newcommandx{\newmthoarg}[5][1=, 3=, 4=, 5=]
                                           340 {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                  • \newmthoargsty{mathrm}{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
```

```
• \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)" 
                                                                                                341 \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"
                                                                                                343 \newcommandx{\newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                              {\mathbb{41}} = {\text{1}} = 
     \newmthparsty ... to do!
                                                                                                               \bullet \ \texttt{Name} \ [\texttt{sub}] \ [\texttt{Ext1}] \ \{\texttt{Par}\} \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext1}] \ \{\texttt{Par}\} \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext1}] \ \{\texttt{Par}\} \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext1}] \ \{\texttt{Par}\} \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext2}] \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext2}] \ [\texttt{Ext2}] \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext2}] \ [\texttt{Ext2}] \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext2}] \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext2}] \ [\texttt{Ext2}] \ [\texttt{Ext2}] \ [\texttt{Ext2}] = \ \texttt{``Name} \ [\texttt{Ext2}] \ 
                                                                                                345 \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]}" \\
                                                                                                347 \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]"
                                                                                                               • \newmthoparsty{mathrm} [mathtt] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup} [Par]"
                                                                                                349 \newcommandx{\newmthoparsty}[2][2=]
                                                                                                                        {\newmthopar[\defval{#2}{#1}]}
                       \mthsubsup ... to do!
                                                                                                351 \newcommand{\mthsubsup}[2]
                                                                                                                       {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                                                                                \mth ... to do!
                                                                                                              • \mathbb{Sup}[Sup][Ext] = "Name^{sup}_{sub}Ext"
                                                                                                               • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                                                               • \mth[mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                                                354 \newcommand{\mth}
                                                                                                                       {\newmthsty{\mthsty}}
                                                                                                355
                                        \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
                                                                                                356 \newcommand{\mtharg}
                                                                                                357 {\newmthargsty{\mthsty}}
                                   \mthoarg ... to do!
                                                                                                               • \mthoarg{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
```

```
• \mthoarg[mathbf]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                        • \mthoarg[mathtt]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                  358 \newcommand{\mthoarg}
                                            {\newmthoargsty{\mthsty}}
         \mthpar ... to do!
                                       • \mthpar{Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name_{sub}^{sup} Ext1[Par]Ext2"
                                       • \mathbb{E}[xt1] = \mathbb{E}[xt2] = \mathbb{E}[xt1] = \mathbb{E}[xt2]
                                        • \mthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
                                  360 \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]"
                                  362 \newcommand{\mthopar}
                                             {\newmthoparsty{\mthsty}}
         \verb|\mthsty| \dots to do!
                                 364 \newcommand{\mthsty}
                                 \cmdmth ... to do!
                                        • \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                            \verb|\mbox| \verb|\mbox| [sub] [sup] [Ext] = \verb|\mbox| \verb|\mbox| ame | sup | Ext| = \verb|\mbox| ame | sup | Ext|
                                  367 \newcommand{\cmdmth}[1]
                                          {\csdef{mth#1}{\newmthsty{mthsty#1}}}
  \cmdmtharg ... to do!
                                        • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                            369 \newcommand{\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
                                  371 \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|
                                  373 \newcommand{\cmdmthpar}[1]
                                           {\csdef{mthpar#1}{\newmthparsty{mthsty#1}}}
\cmdmthopar ... to do!
                                        • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                            \verb|\mbox| {\bf Sub} [{\bf Sub}] [{\bf Sup}] [{\bf Par}] = {\bf Name}_{sub}^{sup} [Par]
                                  375 \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| [sup] [Ext] = \verb|\mbox| e
                                                                     \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\mathargNewCmd{Name}| Ext1(Arg)Ext2
                                                                    \verb|\mbox| \verb| [sub] [sup] [Arg] = \verb|\mbox| \verb| [sup] [arg] = \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb| [sup] [arg] = \verb|\mbox| \mbox| \mbox| \mbox| \mbox|
                                                                     \verb|\mbox| \verb|\mbox| thparNewCmd{Name}[sub][sub][Ext1]{Par}[Ext2] = \verb|\mbox| ame|_{sub}^{sup} Ext1[Par]Ext2]
                                                                    \verb|\mbox| {\bf Sub} [{\bf Sup}] [{\bf Par}] = {\bf Name}_{sub}^{sup} [Par]
                                                     377 \newcommand{\cmdmthall}[1]
                                                                  {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
                                                     \usrmth ... to do!
                                                              • \ \ \usrmth{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                                                   \t \mathbb{Suf} = cmdName \{Par\} = cmdName [Par] \}
                                                              \verb|\cmdName| {Suf} {par} [newName]; \verb|\cmdNameSuf} {Par} = newName [Par]
                                                     380 \newcommandx{\usrmth}[4][4=]
                                                     381 {\csdef{\#1}#2}{\csname mth#3\endcsname{\defval{\#4}{\#1}}}
                                                     \usrmthlatlow ... to do!
                                                     383 \newcommandx{\usrmthlatlow}[4][4=]
                                                     384 \quad \{ \text{\t wsrmth} \{\#1\} \{\#2\} \{\#3\} \, [\#4] \, \text{\t seqoflat} \, \{\#1\#2\} \{\#3\} \} \}
\usrmthlatupp ... to do!
                                                     385 \newcommandx{\usrmthlatupp}[4][4=]
                                                     386 {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                                     387 \newcommandx{\usrmthlatlet}[4][4=]
                                                                   {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
\usrmthgrklow ... to do!
                                                     389 \newcommandx{\usrmthgrklow}[4][4=]
                                                                   {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                                     391 \newcommandx{\usrmthgrkupp}[4][4=]
                                                     392 {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
\usrmthgrklet ... to do!
                                                     393 \newcommandx{\usrmthgrklet}[4][4=]
                                                     394 \quad \{ \text{\em th} \{\#1\} \{\#2\} \{\#3\} [\#4] \em \{\#1\#2\} \{\#3\} \} \}
          \usrmthlow ... to do!
                                                     395 \newcommandx{\usrmthlow}[4][4=]
                                                     396 {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}
          \usrmthupp ... to do!
                                                     397 \newcommandx{\usrmthupp}[4][4=]
                                                     398 \{ \text{$1}{\#2}{\#3}[\#4] \eqofupp{$1$\#2}{mth}$
          \usrmthlet ... to do!
                                                     399 \newcommandx{\usrmthlet}[4][4=]
                                                                   {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
```

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405 \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 
                   406 %% Style for Definitions
                   407 \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
                   408 \newcommandx{\cmdtxtdef}[2][2=]
                   409 {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                      \cmdtxtargdef{cmdName};
                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName^{\tt sub}_{\tt sub}ext1(arg)ext2
                      \cmdtxtargdef{cmdName}[newName];
                       \colon = [sub][sub][ext1][arg][ext2] = newName^{sub}_{sub}[ext1][arg][ext2]
                   410 \newcommandx{\cmdtxtargdef}[2][2=]
                   411 {\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)
                   412 \mbox{\mbox{newcommandx}(\mbox{cmdtxtoargdef}[2][2=]}
                   413 {\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|
                   414 \newcommandx{\cmdtxtpardef}[2][2=]
                   415 {\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|
                   416 \newcommandx{\cmdtxtopardef}[2][2=]
                   417 {\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
```

```
418 %% Style for Abbreviations
                   419 \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
                   420 \newcommandx{\cmdtxtabr}[2][2=]
                   421 {\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
                   422 \newcommandx{\cmdtxtargabr}[2][2=]
                   423 {\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)
                   424 \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
                   426 \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
                   428 \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} } 
                   431 %% Style for Names
                   432 \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];
```

```
433 \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
                                                        435 \newcommandx{\cmdtxtargname}[2][2=]
                                                        436 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                                                                • \cmdtxtoargname{cmdName};
                                                                     \cmdName[sub][sub][arg] = CMDNAME_{SUB}^{SUB}(ARG)
                                                                • \cmdtxtoargname{cmdName}[newName];
                                                                      \colon 
                                                         437 \newcommandx{\cmdtxtoargname}[2][2=]
                                                        438 {\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];
                                                                     439 \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]
                                                        441 \newcommandx{\cmdtxtoparname}[2][2=]
                                                        442 {\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]
                                                        443 %% Style for Complexities
                                                        444 \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];
                                                                     \c Mame[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                                        445 \newcommandx{\cmdtxtcom}[2][2=]
                                                        446 {\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
                                                        447 \newcommandx{\cmdtxtargcom}[2][2=]
                                                        448 {\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)
                                  449 \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
                                  451 \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];
                                           \label{eq:cmdName} $$ \operatorname{[sub][par]} = \operatorname{NEWNAME}_{SUB}^{SUB}[PAR] $$
                                  453 \verb|\newcommandx{\cmdtxtoparcom}[2][2=]
                                          {\usrtxt{#1}{}{oparcom}[#2]}
                                  455 \fi
                                  460 \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
                                  461 %% Style for Names
                                  462 \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}
                                  463 \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|
                                  464 \newcommandx{\cmdmthname}[2][2=]
                                  465 {\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
                                  466 \newcommandx{\cmdmthargname}[2][2=]
                                  467 {\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)
                                           468 \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
                                           470 \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]
                                           472 \newcommandx{\cmdmthoparname}[2][2=]
                                                    {\usrmth{#1}{Name}{oparname}[#2]}
       \mbox{\em mthfam}, ... to do!
                                                 • \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{\baselinestable MAME} \  \, \texttt{\baseline Sub} \  \, \texttt{\baseline Ext1} \  \, \texttt{\baseline Par} \  \, \texttt{\baseline Ext2} \  \, = \  \, \mathcal{NAME} \  \, \mathcal{E}^{sup}_{sub} Ext1 [Par] Ext2
                                           474 %% Style for Families
                                           475 \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}
                                           476 \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
                                           477 \newcommandx{\cmdmthfam}[2][2=]
                                           478 {\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] = \mathscr{NEWNAME}^{sub}_{sub}ext1(arg)ext2
                                           479 \newcommandx{\cmdmthargfam}[2][2=]
                                                    {\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)
```

```
481 \newcommandx{\cmdmthoargfam}[2][2=]
                    482 {\usrmth{#1}{Fam}{oargfam}[#2]}
 \cmdmthparfam ... to do!
                       \cmdmthparfam{CMDNAME};
                         \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par]ext2
                       • \cmdmthparfam{cmdName}[NEWNAME];
                         \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1[par]ext2
                    483 \newcommandx{\cmdmthparfam}[2][2=]
                    484 {\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]
                    485 \mbox{ \mbox{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]} \texttt{\ \ } \texttt{[Ext2]} = \texttt{NAME} sub \texttt{\ \ } \texttt{\ \ } \texttt{Ext1}(Arg) \texttt{\ \ } \texttt{Ext2}
                       \bullet \ \texttt{\mbox{\tt hthparcls{NAME}[sub][sup][Ext1]{Par}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1[Par]Ext2}
                    487 %% Style for Classes
                    488 \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
                    489 \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|
                    490 \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
                    492 \newcommandx{\cmdmthargcls}[2][2=]
                    493 {\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)
                    494 \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|
                                        496 \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] = NEWNAME_{sub}^{sub}[par]
                                        498 \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
                                        500 %% Style for Signatures
                                        501 \mbox{ \mbox{$\mbox{mthstysig}}{\mathbf{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\mbox{$}\m
         \aSig, ... to do!
                                      a,\; b,\; c,\; d,\; e,\; f,\; g,\; h,\; i,\; j,\; k,\; l,\; m,\; n,\; o,\; p,\; q,\; r,\; s,\; t,\; u,\; v,\; w,\; \chi,\; y,\; z
                                      \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{I}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                      \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                       502 \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
                                        503 \newcommandx{\cmdmthsig}[2][2=]
                                        504 {\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
                                        505 \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)
                                        507 \newcommandx{\cmdmthoargsig}[2][2=]
                                       508 {\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
                                        509 \newcommandx{\cmdmthparsig}[2][2=]
                                        510 {\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]
                                                      511 \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
                                                      513 %% Style for Structures
                                                      514 \mathfrak
            \aStr, ... to do!
                                                   \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}, \mathfrak{g}
                                                   \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{H}
                                                   \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \mathfrak{o}, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                     515 \seqoflatlet{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
                                                      516 \newcommandx{\cmdmthstr}[2][2=]
                                                      517 {\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
                                                      518 \newcommandx{\cmdmthargstr}[2][2=]
                                                      519 {\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)
                                                      520 \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
                                                      522 \newcommandx{\cmdmthparstr}[2][2=]
                                                                   {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                              \cmdmthoparstr{cmdName};
                                                                   \cmdNameStr[sub] [sub] [par] = cmdName_{sub}^{sub}[par]
```

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• \cmdmthoparstr{cmdStr}[NewName];
                           \verb|\cmdStrStr[sub][sub][par]| = \mathfrak{NewName}_{sub}^{sub}[par]|
                     524 \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
                     526 %% Style for Sets
                     527 \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
                     528 \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
                     529 \newcommandx{\cmdmthset}[2][2=]
                     530 {\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$
                      531 \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)
                      533 \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|
                     535 \newcommandx{\cmdmthparset}[2][2=]
                     536 {\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]
                      537 \newcommandx{\cmdmthoparset}[2][2=]
                     538 {\usrmth{#1}{Set}{oparset}[#2]}
```

```
\cmdmthsetext ... to do!
                                      539 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                      540 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                      541 \usrmthlet{\thestring}{Sym}{sym}
                                                       [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} % \end{matrix} % The string $$ \defval{\mpchk{$\#2$}} $$ \defval
                                      542
                                              \usrmthlet{\thestring}{Elm}{elm}
                                      543
                                                       [\defval{#3}{\defval{\mpchk{#2}}{\defval{\mpchk{#2}}}} \label{eq:lowercase{#2}}} \label{eq:lowercase{#2}}
                                      544
    \mthrel, ... to do!
                                            • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                            \bullet \  \, \texttt{\bar{largrel{Name}}[Sub][Sup][Ext1]{Arg}[Ext2]} = Name_{sub}^{sup}Ext1(Arg)Ext2
                                            • \mthparrel{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                                      545 %% Style for Relations
                                      546 \mbox{ \cmdmthall{rel}\newcommand{\mbox{\mbox{\cmthstyrel}}{\mbox{\mbox{\cmthit}}}}
         \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
                                    547 \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
                                       548 \newcommandx{\cmdmthrel}[2][2=]
                                               {\usrmth{#1}{Rel}{rel}[#2]}
  \cmdmthargrel ... to do!
                                            • \cmdmthargrel{cmdName};
                                                \cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                            • \cmdmthargrel{cmdName}[NewName];
                                                \verb|\cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                       550 \newcommandx{\cmdmthargrel}[2][2=]
                                      551 {\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)
                                       552 \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];
                                                \cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                       554 \newcommandx{\cmdmthparrel}[2][2=]
                                      555 {\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]|
                    556 \newcommandx{\cmdmthoparrel}[2][2=]
                         {\usrmth{#1}{Rel}{oparrel}[#2]}
  \mthfun, ... to do!
                       • \mathbb{E}_{sub}[sub][sup][Ext] = \mathbb{E}_{sub}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]
                    558 %% Style for Functions
                    559 \cmdmthall{fun}\newcommand{\mthstyfun}{\mathsf}
    \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
                    560 \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|
                    561 \newcommandx{\cmdmthfun}[2][2=]
                    562 {\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];
                         563 \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)
                    565 \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|
                    567 \newcommandx{\cmdmthparfun}[2][2=]
                         {\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]
                    569 \newcommandx{\cmdmthoparfun}[2][2=]
                    570 {\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]
                                                         571 %% Style for Symbols
                                                         572 \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
                                                         573 \seqoflet{Sym}{mthsym}
             \cmdmthsym ... to do!
                                                                  • \cmdmthsym{cmdName};
                                                                        \colon colon col
                                                                  • \cmdmthsym{cmdName}[NewName];
                                                                        \cmdNameSym[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                          574 \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
                                                         576 \newcommandx{\cmdmthargsym}[2][2=]
                                                         577 {\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)
                                                          578 \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|
                                                          580 \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]
                                                          582 \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
                     584 %% Style for Elements
                     585 \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
                     586 \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
                      587 \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
                      589 \newcommandx{\cmdmthargelm}[2][2=]
                     590 {\usrmth{#1}{Elm}{argelm}[#2]}
\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)
                     591 \newcommandx{\cmdmthoargelm}[2][2=]
                     592 {\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
                      593 \newcommandx{\cmdmthparelm}[2][2=]
                     594 {\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]
                      595 \newcommandx{\cmdmthoparelm}[2][2=]
                     596 {\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
                     598 \newcommandx{\cmdmthsymelm}[2][2=]
                          {\cmdmthsym{#1}[#2]%
                          \cmdmthelm{#1}[#2]}
                     600
 \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
                     601 \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)
                     604 \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
                     607 \newcommandx{\cmdmthparsymelm}[2][2=]
                           {\cmdmthparsym{#1}[#2]%
                     609
                          \cmdmthparelm{#1}[#2]}
\cmdmthoparsymelm
                    ... to do!
                        \cmdmthoparsymelm{cmdName};
                          \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdNames|^{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]|
                          610 \newcommandx{\cmdmthoparsymelm}[2][2=]
                           {\cmdmthoparsym{#1}[#2]%
                          \cmdmthoparelm{#1}[#2]}
                     \mthlopr, ... to do!
                        • \mthlopr{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                     614 %% Style for Sentences
                     615 \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
                      616 \newcommandx{\cmdmthlopr}[2][2=]
                     617 {\usrmth{#1}{0pr}{lopr}[#2]}
 \mthlrel, ... to do!
                         • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                     618 %% Style for Sentences
                     619 \cmdmth{lrel}\newcommand{\mthstylrel}{\mathrel}
    \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
                      620 \newcommandx{\cmdmthlrel}[2][2=]
                      621 {\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]
                      623 %% Style for Sentences
                     624 \mbox{ \cmdmthall{snt}\newcommand{\mbox{\mbox{\cmthstysnt}}{\mbox{\cmdmthsf}}}
     \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
                     625 \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|
                      626 \newcommandx{\cmdmthsnt}[2][2=]
                          {\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
                      628 \newcommandx{\cmdmthargsnt}[2][2=]
                     629 {\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)
```

```
630 \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
                     632 \newcommandx{\cmdmthparsnt}[2][2=]
                     633 {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                        \cmdmthoparsnt{cmdName};
                          \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdNameSnt[sub][par]|
                        • \cmdmthoparsnt{cmdName}[NewName];
                          \cmdNameSnt[sub][sub][par] = NewName_{sub}^{sub}[par]
                     634 \newcommandx{\cmdmthoparsnt}[2][2=]
                     635 {\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
                     636 %% Style for Formulae
                    637 \mbox{\mbox{\mbox{$\sim$}}{\rm mathit}}
     \aFrm, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                    \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                    A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                     638 \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
                     639 \newcommandx{\cmdmthfrm}[2][2=]
                          {\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
                     641 \newcommandx{\cmdmthargfrm}[2][2=]
                     642 {\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)
                     643 \newcommandx{\cmdmthoargfrm}[2][2=]
                     644 {\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];
                        645 \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]
                   647 \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] = Name_{sub}^{sup}Ext1(Arg)Ext2
                      • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sub}Ext1[Par]Ext2
                   650 %% Style for Matrices
                   651 \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
                   652 \seqoflet{Mat}{mthmat}
    \cmdmthmat ... to do!
                      \cmdmthmat{cmdName};
                        \verb|\cmdNameMat[sub][sub][ext]| = \mathbf{cmdName}_{sub}^{sub} ext
                      • \cmdmthmat{cmdName}[NewName];
                        \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName||_{sub}^{sub} ext|
                   653 \newcommandx{\cmdmthmat}[2][2=]
                   654 {\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
                   655 \newcommandx{\cmdmthargmat}[2][2=]
                   656 {\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)
                   657 \newcommandx{\cmdmthoargmat}[2][2=]
                        {\usrmth{#1}{Mat}{oargmat}[#2]}
 \cmdmthparmat ... to do!
                      \cmdmthparmat{cmdName};
                        \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1[par]ext2
```

```
• \cmdmthparmat{cmdName}[NewName];
                           \verb|\cmdNameMat[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}ext1[par]ext2|
                      659 \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]
                      661 \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
                      663 %% Style for Vectors
                      664 \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}
                     665 \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
                      666 \newcommandx{\cmdmthvec}[2][2=]
                          {\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
                      668 \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)
                      670 \newcommandx{\cmdmthoargvec}[2][2=]
                     671 {\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]
                      672 \newcommandx{\cmdmthparvec}[2][2=]
                      673 {\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]|
              674 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
              681 \iftext@
              \adhoc
                • \adhoc = ad\ hoc
              683 \cmdtxtabr{adhoc}[ad hoc]
    \afortiori
                • \arrange a fortiori
              684 \cmdtxtabr{afortiori}[a fortiori]
     \apriori
                • \arrange a priori = a priori
              685 \cmdtxtabr{apriori}[a priori]
                • \arrowvertaposteriori = a posteriori
  \aposteriori
              686 \cmdtxtabr{aposteriori}[a posteriori]
          \cf
                • \backslash cf = cf.
              687 \cmdtxtabr{cf}[cf.]
     \dedicto
                • \dedicto = de \ dicto
              688 \cmdtxtabr{dedicto}[de dicto]
     \defacto
                • \del{defacto} = de \ facto
              689 \cmdtxtabr{defacto}[de facto]
                • \dere = de re
        \dere
              690 \cmdtxtabr{dere}[de re]
\divideetimpera
                • \divideetimpera = divide et impera
              691 \cmdtxtabr{divideetimpera} [divide et impera]
          \eg
                • \backslash eg = e.g.
              692 \cmdtxtabr{eg}[e.g.]
        \ergo
                • \ergo = ergo
              693 \cmdtxtabr{ergo}
                • \errata = errata
      \errata
              694 \cmdtxtabr{errata}
                • \erratum = erratum
     \erratum
              695 \cmdtxtabr{erratum}
        \etal
                • \ensuremath{\backslash} \mathtt{etal} = et \ al.
              696 \cmdtxtabr{etal}[et al.]
```

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

```
\role
                                      • \role = r\hat{o}le
                                 719 \cmdtxtabr{role}[r\^{o}le]
                                 \Role
                                      • \label{eq:Role} \operatorname{Role} = R \hat{o} l e
                                  721 \cmdtxtabr{Role}[R\^{o}le]
                                 \aka
                                      • \arrowvert aka = a.k.a.
                                 723 \cmdtxtabr{aka}[a.k.a.]
                \contd
                                      • \contd = contd.
                                 724 \cmdtxtabr{contd}[contd.]
                    \iff
                                      • \iff = iff
                                 725 \cmdtxtabr{iff}
                    \stx
                                      • \ \ \ \ stx = s.t.
                                 726 \cmdtxtabr{stx}[s.t.]
                                      • \resp = resp.
                  \resp
                                 727 \cmdtxtabr{resp}[resp.]
                    \wrt
                                      728 \cmdtxtabr{wrt}[w.r.t.]
                \wlogx
                                      • \wordsymbol{\scalebox{$\sim$}} \width{\scalebox{$\sim$}} \width{\scale
                                 729 \cmdtxtabr{wlogx}[w.l.o.g.]
                                  \Contd
                                       • \Contd = Contd.
                                 731 \cmdtxtabr{Contd}[Contd.]
               \Wlogx
                                      • \W logx = W.l.o.q.
                                 732 \cmdtxtabr{Wlogx}[W.l.o.g.]
                                 733 \fi
                                  738 \ifmath@
                                 \defeq, \seteq ...
                                 740 \DeclareRobustCommand{\defeq}
                                          {\mthlopr{\triangleq}}
                                 742 \DeclareRobustCommand{\seteq}
                                 743 {\mthlopr{:=}}
```

```
\implies, ... ...
                745 \DeclareRobustCommand{\implies}
                746 {\mthlrel{\Rightarrow}}
                747 \DeclareRobustCommand{\notimplies}
                748 {\mthlrel{\not\Rightarrow}}
 \coimplies, ... ...
                749 \DeclareRobustCommand{\coimplies}
                750 {\mthlrel{\Leftrightarrow}}
                751 \DeclareRobustCommand{\notcoimplies}
                752 {\mthlrel{\not\!\Leftrightarrow}}
                \cmodels, ... ...
                754 \DeclareRobustCommand{\cmodels}
                755 {\mthlrel{\models}}
                756 \DeclareRobustCommand{\notcmodels}
                757 {\mthlrel{\not\models}}
   \cequiv, ... ...
                758 \DeclareRobustCommand{\cequiv}
                759 {\mthlrel{\equiv}}
                760 \DeclareRobustCommand{\notcequiv}
                761 {\mthlrel{\not\equiv}}
                \dual, \adj, ... ...
                763 \DeclareRobustCommand{\dual}[1]
                764 {\mth{\overline{#1}}}
                765 \DeclareRobustCommand{\adj}[1]
                766 {\mth{\mathring{#1}}}
                767 \DeclareRobustCommand{\der}[1]
                768 {\mth{\widehat{#1}}}
                769 \DeclareRobustCommand{\trn}[1]
                770 {\mth{\widetilde{#1}}}
          \vec ...
                771 \DeclareRobustCommand{\vec}[1]
                772 {\mth{\mathaccent"017E{#1}}}
                \enumeration, ... ...
                774 \varcmd{enumeration}{\mth}{}{,}{}{}
                775 \varcmd{enumerationx}{\bf 1}{}
  \sequence, ... ...
                776 \varcmd{sequence}{\mth}{\left[}{,}{\right]}{}
                778 \ \ \varcmd{sequencer}{\mth}{\left.}{,}{\right]}{}
                779 \varcmd{sequencex}{\mth}{\left[}{;}{\right]}{}
                780 \varcmd{sequencexl}{\mth}{\left[}{;}{\right.}{}
                781 \varcmd{sequencexr}{\mth}{\left.}{;}{\right]}{}
    \tuple, ... ...
                782 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
                783 \varcmd{tuplel}{\mth}{\left\langle}{,}{\right.}{}
                785 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                786 \varcmd{tuplexl}{\mth}{\left\langle}{;}{\right.}{}
                787 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
```

```
\set ...
            789 \DeclareRobustCommand{\set}[2]
            790 {\argmid{\{}{\argsep{#1}{\mid}{#2}}{\}}}
       \card ...
            791 \DeclareRobustCommand{\card}[1]
            792 {\bf \{\d}_{1}_{1}_{rvert}}
       \pow ...
            793 \DeclareRobustCommand{\pow}[1]
            794 {\bf 2^{defval}{\#1}{\cdot}}}
      \denot ...
            795 \DeclareRobustCommand{\denot}[1]
               {\mth{\argmid{\lVert}{#1}{\rVert}}}
            \emptyrel ...
            798 \DeclareRobustCommand{\emptyrel}
            799 {\mth{\varnothing}}
            \dom, \cod, ... ...
            801 \DeclareRobustCommand{\dom}
            802 {\mthargfun{dom}}
            803 \DeclareRobustCommand{\cod}
            804 \quad \{\mathbf{cod}\}
            805 \DeclareRobustCommand{\rng}
            806 {\mthargfun{rng}}
            807 \DeclareRobustCommand{\img}
            808 {\mthargfun{img}}
            \prj ...
            810 \DeclareRobustCommand{\prj}
            811 {\mthargfun{prj}}
       \rst ...
            812 \DeclareRobustCommand{\rst}
            813 {\mthlopr{\upharpoonright}}
       \cmp ...
            814 \DeclareRobustCommand{\cmp}
               {\mthlopr{\circ}}
            \emptyfun ...
            817 \DeclareRobustCommand{\emptyfun}
            818 {\mth{\varnothing}}
            \pto, \pmapsto
            820 \DeclareMathOperator{\pto}
               {\ensuremath{\rightharpoonup}}
            822 \DeclareMathOperator{\pmapsto}
            823 {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}}%
            824
                 \kern-1.5ex\rightharpoonup}}}
```

```
\Aomega, \AOmega
                 826 \DeclareRobustCommand{\Aomega}
                 827 {\mthargset{\omega}}
                 828 \DeclareRobustCommand{\AOmega}
                     {\mthargset{\Omega}}
\Atheta, \ATheta
                 830 \DeclareRobustCommand{\Atheta}
                     {\mthargset{\theta}}
                 832 \DeclareRobustCommand{\ATheta}
                     {\mthargset{\Theta}}
 \Aomicron, ... ...
                 834 \DeclareRobustCommand{\Aomicron}
                 835 {\mthargset{\omicron}}
                 836 \DeclareRobustCommand{\AOmicron}
                    {\mthargset{\Omicron}}
                 \SetB ...
                 839 \DeclareRobustCommand{\SetB}
                 840 {\mthset[mathbb]{B}}
          \SetF ...
                 841 \DeclareRobustCommand{\SetF}
                 842 \quad \{\mathbf{f}\}
     \SetN, ... ...
                 843 \DeclareRobustCommand{\SetN}
                 844 {\mthset[mathbb]{N}}
                 845 \ensuremath{\tt NeclareRobustCommand{\tt SetNI}[1][]}
                 846 {\SetN[\infty #1]}
     \SetZ, ... ...
                 847 \DeclareRobustCommand{\SetZ}
                 848 {\mthset[mathbb]{Z}}
                 849 \DeclareRobustCommand{\SetZI}[1][]
                 850 {\SetZ[\pm\infty #1]}
                 851 \DeclareRobustCommand{\SetZPI}[1][]
                 852 {\SetZ[+\infty #1]}
                 853 \DeclareRobustCommand{\SetZNI}[1][]
                 854 {\SetZ[-\infty #1]}
     \SetQ, ... ...
                 855 \DeclareRobustCommand{\SetQ}
                 856 {\mthset[mathbb]{Q}}
                 857 \DeclareRobustCommand{\SetQI}[1][]
                 858 {\SetQ[\pm\infty #1]}
                 859 \DeclareRobustCommand{\SetQPI}[1][]
                 860 {\SetQ[+\infty #1]}
                 861 \DeclareRobustCommand{\SetQNI}[1][]
                     {\SetQ[-\infty #1]}
     \SetR, ... ...
                 863 \DeclareRobustCommand{\SetR}
                 864 {\mthset[mathbb]{R}}
                 865 \DeclareRobustCommand{\SetRI}[1][]
                 866 {\SetR[\pm\infty #1]}
                 867 \DeclareRobustCommand{\SetRPI}[1][]
                     {\SetR[+\infty #1]}
                 869 \DeclareRobustCommand{\SetRNI}[1][]
                 870 {\SetR[-\infty #1]}
```

```
\SetC, ... ...
               871 \DeclareRobustCommand{\SetC}
               872 {\mthset[mathbb]{C}}
               873 \DeclareRobustCommand{\SetCI}[1][]
               874 {\SetC[\infty #1]}
               \num, ... ...
               876 \DeclareRobustCommand{\num}[1]
                  {\mth{[#1]}}
               878 \DeclareRobustCommand{\numcc}[2]
               879 {\mth{[\argsep{#1}{,}{#2}]}}
               880 \DeclareRobustCommand{\numco}[2]
               881 {\mth{[\argsep{#1}{,}{#2})}}
               882 \DeclareRobustCommand{\numoc}[2]
               883 \quad \{\mth{(\argsep{\#1}{,}{\#2}]}\}
               884 \DeclareRobustCommand{\numoo}[2]
                   {\mth{(\argsep{#1}{,}{#2})}}
               \floor, \ceil ...
               887 \DeclareRobustCommand{\floor}[1]
               888 \quad \{\mth{\argmid{\left\lceil \frac{1}{1}}{\left\lceil \frac{1}{1}\right\rceil}}\}
               889 \DeclareRobustCommand{\ceil}[1]
                  {\mth{\argmid{\left\lceil}{#1}{\right\rceil}}}
               \arg ...
               892 \DeclareRobustCommand{\arg}
               893 {\mthfun{arg}}
    \evn, \odd ...
               894 \DeclareRobustCommand{\evn}
               895 {\mthfun{evn}}
               896 \DeclareRobustCommand{\odd}
                  {\mthfun{odd}}
     \bst, ... ...
               898 \DeclareRobustCommand{\bst}
                  {\mthfun{bst}}
               900 \DeclareRobustCommand{\argbst}
                  {\mthfun{arg bst}}
\min, \max, ... ...
               902 \DeclareRobustCommand{\min}
               903 {\bf mthfun\{min\}}
               904 \DeclareRobustCommand{\max}
               905 \{ \mathbf{mthfun} \{ \mathbf{max} \} \}
               906 \DeclareRobustCommand{\argmin}
                  {\mthfun{arg min}}
               908 \DeclareRobustCommand{\argmax}
                  {\mthfun{arg max}}
    \inf, \sup ...
               910 \DeclareRobustCommand{\inf}
                  {\mthfun{inf}}
               911
               912 \DeclareRobustCommand{\sup}
               913 {\mthfun{sup}}
```

```
\emptyseq ...
                                                 915 \DeclareRobustCommand{\emptyseq}
                                                 916 {\mth{\varepsilon}}
\fst, \lst ...
                                                 917 \DeclareRobustCommand{\fst}
                                                 918 {\mthargfun{fst}}
                                                 919 \DeclareRobustCommand{\lst}
                                                 920 {\mthargfun{lst}}
                                                 921 \fi
                                                 926 \ifcom@
\defcomcls ... to do!
                                                           • \defcomcls{CompClass};
                                                                  \compClass[sub][sup][ext] = CompClass_{SUB}^{SUP}EXT;
                                                                   \CoCompClass[sub][sup][ext] = CoCompClass_{SUB}^{SUP}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_{SUB}^{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{eq:compClass} [sub] [sup] [ext] = NewClass_{Sub}^{Sup} EXT;
                                                                   \CoCompClass[sub][sup][ext] = CONEWCLASS_{SUB}^{SUP}EXT
                                                                   \CompClassE[sub][sup][ext] = NEWCLASS-EASY_{SUB}^{SUP}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]| = \operatorname{CoNewClass-complete}_{SuB} EXT
                   \NCompClass[sub][sup][ext] = NNEWCLASS_{SUB}^{SUP}EXT;
                   \verb|\ConCompClass[sub][sup][ext]| = ConNewClass^{SUP}_{SUR}EXT
                   \label{eq:ncompClassEsub} $$\N{\compClassE[sub][sup][ext]} = NNEWCLASS-EASY^{SUP}_{SUB}EXT;
                   \verb|\ConCompClassE[sub][sup][ext]| = ConNewClass-Easy_{Sub}^{Sup}EXT|
                   \NCompClassH[sub][sup][ext] = NNEWCLASS-HARD_{SUB}^{SUP}EXT;
                    \verb|\CoNCompClassH[sub][sup][ext]| = CoNNewClass-Hard_{SUB}^{SUP}EXT
                    \NCompClassC[sub][sup][ext] = NNEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
                   \ConCompClassC[sub][sup][ext] = ConNewClass-Complete_{Sub}^{SUP}Ext
                   \UCompClass[sub][sup][ext] = UNEWCLASS_{SUB}^{SUP}EXT;
                   \texttt{CoUCompClass[sub][sup][ext]} = CoUNEWCLASS_{SUB}^{SUP}EXT
                   \UCompClassE[sub][sup][ext] = UNEWCLASS-EASY_{SUB}^{SUP}EXT;
                   \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEWCLASS-EASY_{SUB}^{SUP}EXT
                   \UCompClassH[sub][sup][ext] = UNEWCLASS-HARD_{SUB}^{SUP}EXT;
                   \verb|\CoUCompClassH[sub][sup][ext]| = CoUNEwClass-Hard_{Sup}^{SUP}EXT
                   \UCompClassC[sub][sup][ext] = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
                   \verb|\CoUCompClassC[sub][sup][ext]| = CoUNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
                   \label{eq:accompclass} $$ \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
               927 \newcommandx{\defcomcls}[2][2=]
                    {\defcomclssem{#1}{\defval{#2}{#1}}}
              928
                     929
               930 \newcommandx{\defcomclssem}[3][3=]
                    {\defcomclsred{#3#1}{#2}[#3]%}
                    \defcomclsred{#3N#1}{#2}[#3N]%
               932
                    \defcomclsred{#3U#1}{#2}[#3U]%
               933
                    \defcomclsred{#3A#1}{#2}[#3A]}
               935 \newcommandx{\defcomclsred}[3][3=]
                    {\defcomclscmd{#1}{#2}[#3]%
                     \defcomclscmd{#1E}{#2}[#3][-easy]%
               938
                     \defcomclscmd{#1H}{#2}[#3][-hard]%
                     \defcomclscmd{#1C}{#2}[#3][-complete]}%
              940 \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|
```

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

$943 \setminus defcomcls{Time}$

```
• \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
                    944 \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|
                    945 \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-CompleteSub_{Sub}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
                    946 \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
                                                                                                    \Delta PTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT
                                                                                                    \label{eq:aptimeC} $$\operatorname{APTIME-COMPLETE}^{SUP}_{SUB}$ EXT
                                                                               947 \defcomcls{PTime}
    \PSpace, ...
                                                                                            • \PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT
                                                                                                    \label{eq:pspace} $$ \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 $$
                                                                                                    \APSpaceC[sub][sup][ext] = APSPACE-COMPLETE_{SUB}^{SUP}EXT
                                                                               948 \defcomcls{PSpace}
    \QPTime, ...
                                                                                            • \QPTime[sub][sup][ext] = QPTIME_{SUB}^{SUP}EXT
                                                                                                    \label{eq:QPTimeEsub} $$ \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 $$
                                                                                            • AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT
                                                                                                    \verb|\AQPTimeE[sub][sup][ext]| = \mathrm{AQPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                                                                                                    \AQPTimeH[sub][sup][ext] = AQPTIME-HARD_{SUR}^{SUP}EXT
                                                                                                    \texttt{AQPTimeC[sub][sup][ext]} = AQPTIME-COMPLETE_{SUB}^{SUP}EXT
                                                                              949 \defcomcls{QPTime}
                                                                                            • \QPSpace[sub][sup][ext] = QPSPACE_{SUB}^{SUP}EXT
\QPSpace, ...
                                                                                                    \label{eq:QPSpaceEsub} $$ \QPSpaceE[sub][sup][ext] = QPSpace-EASY_{SUB}^{SUP}EXT $$
                                                                                                    \verb|\QPSpaceH[sub][sup][ext]| = QPSPACE-HARD_{SUB}^{SUP}EXT|
                                                                                                    \verb|\QPSpaceC[sub][sup][ext]| = QPSPACE-COMPLETE^{SUP}_{SUB}EXT
                                                                                            • \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| UQPSpaceC[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}
                 950 \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}
                 951 \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]| = \text{ExpSpace-Hard}_{\text{SUB}}^{\text{SUP}}\text{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
                 952 \defcomcls{ExpSpace}
                 \SATG, ... ...
                 961 %% Satisfiability Games
                 962 \cmdtxtoparname{SATG}[Sat]
```

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

```
963
                 964 %% Validity Games
                 965 \cmdtxtoparname{VALG}[Val]
                 967 %% Evaluation Games
                 968 \cmdtxtoparname{EVLG}[Ev1]
                 970 %% Synthesis Games
                 971 \cmdtxtoparname{SYNG}[Syn]
                 973 %% Model-Checking Games
                 974 \cmdtxtoparname{MCG} [MC]
                 975
                 976 %% Ehrenfeucht-Fraisse Games
                 977 \cmdtxtoparname{EFG}[EF]
                 \PlrSym, \OppSym
                 979 \newcommand{\plrsym}{E}
                 980 \cmdmthsym{Plr}[\plrsym]
                 981 \newcommand{\oppsym}{A}
                 982 \cmdmthsym{Opp}[\oppsym]
\ArenaName, ... ...
                 983 \newcommand{\arenaname}{A}
                 984 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
   \PosSet, ... ...
                 985 \newcommand{\possym}{v}
                 986 \newcommand{\posset}{Ps}
                 987 \cmdmthsetext{Pos}[\posset][\possym]
                 988 \cmdmthsymelm{ipos}[\possym_{I}]
                 989 \cmdmthsymelm{fpos}[\possym_{F}]
                 990 \cmdmthset{PPos}[\posset_{\PlrSym}]
                 991 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                 992 \cmdmthset{OPos}[\posset_{\OppSym}]
                 993 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \MovRel
                 994 \newcommand{\movrel}{Mv}
                 995 \cmdmthrel{Mov}[\movrel]
 \GameName. ... ...
                 996 \newcommand{\gamename}{\Game}
                 997 \usrmthlatupp{Game}{Name}{name}[\gamename]
        \WinSet ...
                 998 \newcommand{\winset}{Wn}
                 999 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun
                1000 \newcommand{\obsset}{Ob}
                1001 \cmdmthset{Obs}[\obsset]
                1002 \cmdmthfun{obs}
                \PthSet, \pthFun
                1004 \newcommand{\pthsym}{\pi}
                1005 \newcommand{\pthset}{Pth}
                1006 \cmdmthsetext{Pth}[\pthset][\pthsym]
                1007 \cmdmthfun{pth}
```

```
\HstSet, ... ...
                                              1008 \mbox{ \newcommand{\hstsym}{\rho}}
                                              1009 \mbox{ \newcommand{\hstset}{Hst}}
                                              1010 \cmdmthsetext{Hst}[\hstset][\hstsym]
                                              1011 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                                              1012 \verb|\cmdmthsymelm{phst}| [\verb|\hstsym_{\prox m}|]
                                              1013 \cmdmthset{OHst}[\hstset_{\OppSym}]
                                              1014 \verb|\cmdmthsymelm{ohst}| [\verb|\hstsym_{\colored}]|
                                              1015 \cmdmthfun{hst}
\PlaySet,\playFun
                                              1016 \newcommand{\playsym}{\pi}
                                              1017 \newcommand{\playset}{Play}
                                              1018 \cmdmthsetext{Play}[\playset][\playsym]
                                              1019 \cmdmthfun{play}
           \StrSet, ...
                                              1020 \newcommand{\strsym}{\sigma}
                                              1021 \newcommand{\strset}{Str}
                                              1022 \cmdmthsetext{Str}[\strset][\strsym]
                                              1023 \cmdmthset{PStr}[\strset_{\PlrSym}]
                                              1024 \mbox{ } [\mbox{ } [\mbox{ } \mbox{ } \mb
                                              1025 \cmdmthset{OStr}[\strset_{\OppSym}]
                                              1026 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
 \PrfSet, \prfFun ...
                                              1027 \newcommand{\prfsym}{\xi}
                                              1028 \newcommand{\prfset}{Prf}
                                              1029 \cmdmthsetext{Prf}[\prfset][\prfsym]
  \preFun, \sucFun
                                              1030 \newcommand{\prefun}{pre}
                                              1031 \cmdmthoargfun{pre}[\prefun]
                                              1032 \newcommand{\sucfun}{suc}
                                              1033 \cmdmthoargfun{suc}[\sucfun]
  \entFun, \escFun
                                              1034 \newcommand{\entfun}{ent}
                                              1035 \cmdmthoargfun{ent}[\cmdmthu]
                                              1036 \mbox{ \newcommand{\escfun}{esc}}
                                              1037 \cmdmthoargfun{esc}[\cdot [lescfun]]
 \intFun, \outFun
                                              1038 \newcommand{\intfun}{int}
                                              1039 \cmdmthoargfun{int}[\intfun]
                                              1040 \newcommand{\operatorname{outfun}}{\operatorname{out}}
                                              1041 \cmdmthoargfun{out}[\outfun]
  \atrFun, \rchFun ...
                                              1042 \newcommand{\atrfun}{atr}
                                              1043 \cmdmthoargfun{atr}[\atrfun]
                                              1044 \newcommand{\rchfun}{rch}
                                              1045 \cmdmthoargfun{rch}[\rchfun]
                        \solFun
                                              1046 \newcommand{\solfun}{sol}
                                              1047 \cmdmthoargfun{sol}[\solfun]
```

```
\BG, ... ...
         1049 %% Buchi Games
         1050 \cmdtxtoparname{BG}
         1052 %% Co-Buchi Games
         1053 \cmdtxtoparname{CG}
         1054
         1055 %% Parity Games
         1056 \cmdtxtoparname{PG}
         1057
         1058 %% Rabin Games
         1059 \cmdtxtoparname{RG}
         1061 %% Streett Games
         1062 \cmdtxtoparname{SG}
         1063
         1064 %% Muller Games
         1065 \cmdtxtoparname{MG}
         \PrtSet, \prtFun
         1067 \newcommand{\prtsym}{p}
         1068 \newcommand{\prtset}{Pr}
         1069 \verb|\cmdmthsetext{Prt}[\prtset][\prtsym]|
         1070 \mbox{ } \mbox{cmdmthfun{prt} [pr]}
         \EG, ... ...
         1073 %% Energy Games
         1074 \cmdtxtoparname{EG}
         1075
         1076 \% Mean-Payoff Games
         1077 \cmdtxtoparname{MPG}
         1078
         1079 %% Discounted-Payoff Games
         1080 \cmdtxtoparname{DPG}
         \WghSet, \wghFun
         1082 \mbox{ \newcommand{\wghsym}{w}}
         1083 \mbox{ \newcommand{\wghset}{Wg}}
         1084 \verb|\cmdmthsetext{Wgh}| [\verb|\wghset|]| [\verb|\wghsym|]|
         1085 \cmdmthfun{wgh}[wg]
         1087 \fi
         1092 \iflog@
```

```
\BF, \QBF, ... ...
               1094 % Boolean Formulae
               1095 \cmdtxtoparname{BF}
               1096
               1097 % Quantified Boolean Formulae
               1098 \DeclareRobustCommand{\QBF}
                    {\{\text{txtname}\{Q\}\}\setminus BF\}}
               1100 \DeclareRobustCommand{\EBF}
                    {\ensuremath{\exists}\BF}
               1102 \DeclareRobustCommand{\UBF}
                    {\ensuremath{\forall}\BF}
               \LogSig, ... ...
               1105 \newcommand{\lceil \log sig}{L}
               1106 \verb|\usrmth|| a tupp{Log}{Sig}{sig}[\logsig]
     \Tt, \Ff ...
               1107 \newcommand{\ttsym}{\top}
               1108 \usrmth{Tt}{}{sym}[\ttsym]
               1109 \mbox{ \newcommand{\ffsym}{\bot}}
               1110 \usrmth{Ff}{}{sym}[\ffsym]
  \APSet, ... ...
               1111 \newcommand{\apsym}{p}
               1112 \newcommand{\apset}{AP}
               1113 \cmdmthsetext{AP}[\apset][\apsym]
               1114 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
         \sub
               1115 \usrmth{sub}{}{argfun}
    \Cnt, \Qnt ...
               1116 \usrmth{Cnt}{}{sym}[Cn]
               1117 \usrmth{Qnt}{}{sym}[Qn]
    \QAE, \QEA ...
               1118 \usrmth{QAE}{}{sym}[\forall\exists]
               1119 \usrmth{QEA}{}{sym}[\exists\forall]
  \QntSet, ... ...
               1120 \newcommand{\qntsym}{\wp}
               1121 \newcommand{\qntset}{Qn}
               1122 \cmdmthsetext{Qnt}[\qntset][\qntsym]
        \free ...
               1123 \operatorname{tmth\{free}{\{\}\{argfun\}}
    \dep, \alt ...
               1124 \usrmth{dep}{}{argfun}
               1125 \usrmth{alt}{}{argfun}
    \pnf, \nnf ...
               1126 \cmdtxtabr{pnf}
               1127 \cmdtxtabr{nnf}
               \LogStr, ... ...
               1129 \newcommand{\lceil logstr}{L}
               1130 \usrmthlatupp{Log}{Str}{str}[\logstr]
```

```
\ValSet, ... ...
             1131 \newcommand{\valsym}{\xi}
             1132 \newcommand{\valset}{Val}
             1133 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet, ... ...
             1134 \newcommand{\asgsym}{\chi}
             1135 \newcommand{\asgset}{Asg}
             1136 \cmdmthsetext{Asg}[\asgset][\asgsym]
             \FOL, ... ...
             1138 % First-Order Logic
             1139 \cmdtxtoparname{FOL}[Fol]
             1141 % Monadic First-Order Logic
             1142 \DeclareRobustCommand{\MFOL}
             1143 \{\{\text{txtname}\{M\}\}\}\
             \VarSig, ... ...
             1145 \newcommand{\varsig}{V}
             1146 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
             1147 \rightarrow \{x\}
             1148 \newcommand{\varset}{Vr}
             1149 \cmdmthsetext{Var}[\varset][\varsym]
             1150 \usrmth{var}{}{argfun}[vr]
             1151 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
\ConSig, ... ...
             1152 \newcommand{\consig}{C}
             1153 \usrmthlatupp{Con}{Sig}{sig}[\consig]
             1154 \neq \{c\}
             1155 \mbox{ }\mbox{conset}{Cn}
             1156 \cmdmthsetext{Con}[\conset][\consym]
             1157 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
             1158 \newcommand{\funsig}{F}
             1159 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
             1160 \mbox{ }\mbox{\mbox{$1160$ } \mbox{$1msym}{f}}
             1161 \newcommand{\funset}{Fn}
             1162 \cmdmthsetext{Fun}[\funset][\funsym]
             1163 \usrmth{fun}{}{argfun}[fn]
             1164 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
             1165 \newcommand{\tersig}{T}
             1166 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
             1167 \mbox{ } \mbox{newcommand{\tersym}{t}}
             1168 \newcommand{\terset}{Tr}
             1169 \cmdmthsetext{Ter}[\terset][\tersym]
             1170 \usrmth{ter}{}{argfun}
\RelSig, ... ...
             1171 \newcommand{\relsig}{R}
             1172 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
             1173 \mbox{ } \mbox{newcommand{\relsym}{r}}
             1174 \newcommand{\relset}{Rl}
             1175 \cmdmthsetext{Rel}[\relset][\relsym]
             1176 \usrmth{rel}{}{argfun}[rl]
```

```
\skm ...
        1177 \usrmth{skm}{}{argfun}
        \ConStr, ... ...
        1179 \newcommand{\constr}{C}
        1180 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr, ... ...
        1181 \newcommand{\funstr}{F}
        1182 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr, ... ...
        1183 \newcommand{\terstr}{T}
        1184 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
        1185 \newcommand{\relstr}{R}
        1186 \usrmthlatupp{Rel}{Str}{str}[\relstr]
        \IF, ... ...
        1188 % Independence-Friendly Logic
        1189 \cmdtxtoparname{IF}
        \SOL, ... ...
        1193 % Second-Order Logic
        1194 \cmdtxtoparname{SOL}[Sol]
        1196 % Monadic Second-Order Logic
        1197 \DeclareRobustCommand{\MSOL}
           {{\txtname{M}}\SOL}
        \FVarSet, ... ...
        1200 \newcommand{\fvarsym}{x}
        1201 \newcommand{\fvarset}{FVr}
        1202 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
        1203 \newcommand{\svarsym}{X}
        1204 \newcommand{\svarset}{SVr}
        1205 \cmdmthsetext{SVar}[\svarset][\svarsym]
```

```
\TL, \PL, ... ...
            1208 % Tree Logic
            1209 \cmdtxtoparname{TL}
            1210
            1211 % Monadic Tree Logic
            1212 \DeclareRobustCommand{\MTL}
                {\{\text{txtname}\{M\}}\TL\}
            1214
            1215 % Path Logic
            1216 \cmdtxtoparname{PL}
             1218 % Monadic Path Logic
             1219 \DeclareRobustCommand{\MPL}
             1220 \quad \{\{\text{txtname}\{M\}\}\}\
             \ML, \QML, ...
            1224 % Modal Logic
            1225 \cmdtxtoparname{ML}
            1226
            1227 % Quantified Modal Logic
            1228 \DeclareRobustCommand{\QML}
                 {\{\text{txtname}\{Q\}\}\setminus ML\}}
             1230 \DeclareRobustCommand{\EML}
                 {\ensuremath{\exists}\ML}
             1232 \verb|\DeclareRobustCommand{\UML}|
            1233 {\ensuremath{\forall}\ML}
             \Opr ...
            1235 \usrmth{Opr}{}{sym}[Op]
 \DMod, \BMod ...
             1236 \verb|\usrmth{DMod}{{}} sym{[\Diamond]}
             1237 \operatorname{Month}\{BMod\}\{\}\{sym\}[\Box]\}
   \Exs, \All ...
             1238 \DeclareRobustCommand{\Exs}[1]
                 {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}{\DMod}}}
             1240 \DeclareRobustCommand{\All}[1]
                 {\mth{\defval{\argmid{\left[}{#1}{\right]}}}{\BMod}}}
             \KrpStr, ... ...
            1243 \mbox{ \newcommand{\krpstr}{K}}
            1244 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
 \WrlSet, ... ...
            1245 \newcommand{\wrlsym}{w}
            1246 \mbox{ } \mbox{wrlset}{W}
            1247 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
            1248 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
```

```
\AccRel, \TrnRel
              1249 \mbox{ \newcommand{\accsym}{R}}
              1250 \cmdmthrel{Acc}[\accsym]
              1251 \cmdmthrel{Trn}[\accsym]
       \labFun ...
              1252 \mbox{ \newcommand{\absym}{\absym}{\absym}} \
              1253 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun
              1254 \providecommand{\phihhsym}{\phii}
              1255 \providecommand{\phithset}{Pth}
              1256 \cmdmthsetext{Pth} [\pthset] [\pthsym]
              1257 \cmdmthfun{pth}
              \MC, \QMC, ...
              1259 % Mu Calculus
              1260 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
              1262 % Quantified Modal Logic
              1263 \DeclareRobustCommand{\QMC}
                  {{\txtname{Q}}\MC}
              1265 \DeclareRobustCommand{\EMC}
                  {\ensuremath{\exists}\MC}
              1267 \DeclareRobustCommand{\UMC}
                  {\ensuremath{\forall}\MC}
              \PTL, \LTL, ...
              1272 % Propositional Temporal Logic
              1273 \cmdtxtoparname{PTL}
              1274
              1275 % Quantified Propositional Temporal Logic
              1276 \DeclareRobustCommand{\QPTL}
                   {\{\texttxtname}_{Q}\}\PTL\}
              1277
              1278 \DeclareRobustCommand{\EPTL}
                   {\ensuremath{\exists}\PTL}
              1280 \DeclareRobustCommand{\UPTL}
              1281
                  {\ensuremath{\forall}\PTL}
              1282
              1283 % Linear Temporal Logic
              1284 \cmdtxtoparname{LTL}
              1286 % Quantified Linear Temporal Logic
              1287 \DeclareRobustCommand{\QLTL}
                  {\{\text{txtname}\{Q\}\}\setminus LTL\}}
              1289 \DeclareRobustCommand{\ELTL}
                  {\ensuremath{\exists}\LTL}
              1291 \DeclareRobustCommand{\ULTL}
                  {\ensuremath{\forall}\LTL}
```

```
\X, ... ...
             1294 \usrmth{X}{}{sym}[X\,]
             1295 \usrmth{F}{}{sym}[F\,]
             1296 \usrmth{G}{}{sym}[G\,]
             1297 \usrmth{U}{sym}[\,U\,]
             1298 \usrmth{R}{}{sym}[\,R\,]
      \Y, ... ...
             1299 \usrmth{Y}{}{sym}[G\,]
             1300 \usrmth{P}{}{sym}[P\,]\let\SavePilcrow\P
              1302 \mbox{usrmth{S}{}{sym}[\,S\,]\let\SaveSectionSymbol\S}
              1303 \usrmth{B}{}{sym}[\,B\,]
              \PDL, \CTL, ... ...
             1307 % Propositional Dynamic Logic
              1308 \cmdtxtoparname{PDL}
              1310 % Computation Tree Logic
              1311 \cmdtxtoparname{CTL}
             1312
              1313\,\% Quantified Computation Tree Logic
              1314 \DeclareRobustCommand{\QCTL}
                  {{\txtname{Q}}}\CTL}
              1316 \DeclareRobustCommand{\ECTL}
                  {\ensuremath{\exists}\CTL}
              1318 \DeclareRobustCommand{\UCTL}
             1319
                  {\ensuremath{\forall}\CTL}
              1320
             1321 % Improved Computation Tree Logic
             1322 \cmdtxtoparname{CTLP}[CTL$^{+}$]
             1324 % Quantified Improved Computation Tree Logic
             1325 \DeclareRobustCommand{\QCTLP}
             1326 {\{\text{txtname}\{Q\}\}\CTLP\}}
              1327 \DeclareRobustCommand{\ECTLP}
              1328 {\ensuremath{\exists}\CTLP}
              1329 \DeclareRobustCommand{\UCTLP}
                  {\ensuremath{\forall}\CTLP}
              1330
             1332 % Full Computation Tree Logic
             1333 \cmdtxtoparname{CTLS}[CTL*]
              1334
              1335 % Quantified Full Computation Tree Logic
              1336 \DeclareRobustCommand{\QCTLS}
                  {{\txtname{Q}}\CTLS}
              1338 \DeclareRobustCommand{\ECTLS}
                  {\ensuremath{\exists}\CTLS}
              1340 \DeclareRobustCommand{\UCTLS}
                 {\ensuremath{\forall}\CTLS}
              \E, \A ...
              1343 \usrmth{E}{}{sym}
              1344 \operatorname{A}{{}}{sym}
```

```
\ATL, ... ...
            1347 % Alternating Temporal Logic
            1348 \cmdtxtoparname{ATL}
            1350 % Quantified Alternating Temporal Logic
            1351 \DeclareRobustCommand{\QATL}
            1352 {{\txtname{Q}}\ATL}
            1353 \DeclareRobustCommand{\EATL}
            1354 {\ensuremath{\exists}\ATL}
            1355 \DeclareRobustCommand{\UATL}
                {\ensuremath{\forall}\ATL}
            1358 % Improved Alternating Temporal Logic
            1359 \cmdtxtoparname{ATLP}[ATL$^{+}$]
            1361 % Quantified Improved Alternating Temporal Logic
            1362 \DeclareRobustCommand{\QATLP}
                 {{\txtname{Q}}\ATLP}
            1364 \DeclareRobustCommand{\EATLP}
                 {\ensuremath{\exists}\ATLP}
            1366 \DeclareRobustCommand{\UATLP}
                 {\ensuremath{\forall}\ATLP}
            1369 % Full Alternating Temporal Logic
            1370 \cmdtxtoparname{ATLS}[ATL*]
            1372 \mbox{\ensuremath{\mbox{\sc W}}} Quantified Full Alternating Temporal Logic
            1373 \DeclareRobustCommand{\QATLS}
            1374 \quad \{\{\text{txtname}\{Q\}\} \setminus ATLS\}
            1375 \DeclareRobustCommand{\EATLS}
            1376 {\ensuremath{\exists}\ATLS}
            1377 \DeclareRobustCommand{\UATLS}
                 {\ensuremath{\forall}\ATLS}
            \EExs, \AAll ...
            1380 \DeclareRobustCommand{\EExs}[1]
                 {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
            1382 \DeclareRobustCommand{\AAll}[1]
                 {\mth{\argmid{\left[\{\defval{#1}{\emptyset}}{\right]\right]}}}
            \CGS ...
            1385 \cmdtxtname{CGS}
\CGSStr, ... ...
            1386 \newcommand{\cgsstr}{G}
            1387 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
            1388 \mbox{ \newcommand{\agnsym}{a}}
            1389 \newcommand{\agnset}{Ag}
            1390 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
            1391 \providecommand{\possym}{v}
            1392 \providecommand{\posset}{Ps}
             1393 \cmdmthsetext{Pos}[\posset][\possym]
```

```
1394 \cmdmthsymelm{ipos}[\possym_{I}]
                   1395 \cmdmthsymelm{fpos}[\possym_{F}]
                   1396 \cmdmthset{PPos}[\posset_{\PlrSym}]
                   1397 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                   1398 \cmdmthset{OPos}[\posset_{\OppSym}]
                   1399 \verb|\cmdmthsymelm{opos}[\possym_{\0ppSym}]|
    \SttSet, ... ...
                  1400 \mbox{ } \mbox{newcommand{\sttsym}{s}}
                  1401 \newcommand{\sttset}{St}
                   1402 \cmdmthsetext{Stt}[\sttset][\sttsym]
                   1403 \verb|\cmdmthset{IStt}[\sttset_{I}]|
                   1404 \verb|\cmdmthsymelm{istt}[\sttsym_{I}]|
                   1405 \cmdmthset{FStt}[\sttset_{F}]
                   1406 \cmdmthsymelm{fstt}[\sttsym_{F}]
    \ActSet, ... ...
                  1407 \newcommand{\actsym}{c}
                  1408 \mbox{ \newcommand{\actset}{Ac}}
                  1409 \cmdmthsetext{Act}[\actset][\actsym]
    \DecSet, ... ...
                  1410 \mbox{ } \mbox{decsym}{d}
                   1411 \newcommand{\decset}{Dc}
                   1412 \cmdmthsetext{Dec} [\decsym]
         \movFun
                   1413 \newcommand{\movsym}{\tau}
                   1414 \cmdmthfun{mov} [\movsym]
    \HstSet, ... ...
                  1415 \providecommand{\hstsym}{\rho}
                   1416 \providecommand{\hstset}{Hst}
                   1417 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1418 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1419 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                   1420 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1421 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                   1422 \cmdmthfun{hst}
\PlaySet,\playFun
                   1423 \providecommand{\playsym}{\pi}
                   1424 \providecommand{\playset}{Play}
                   1425 \cmdmthsetext{Play}[\playset][\playsym]
                   1426 \cmdmthfun{play}
    \StrSet, ... ...
                  1427 \providecommand{\strsym}{\sigma}
                   1428 \providecommand{\strset}{Str}
                   1429 \cmdmthsetext{Str}[\strset][\strsym]
                   1430 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1431 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1432 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1433 \cmdmthsymelm{ostr}[\strsym_{\ostr}]
\PrfSet, \prfFun
                   1434 \providecommand{\prfsym}{\xi}
                   1435 \providecommand{\prfset}{Prf}
                   1436 \cmdmthsetext{Prf}[\prfset][\prfsym]
```

```
\SL, ... ...
          1438 % Strategy Logic
          1439 \cmdtxtoparname{SL}
          1440
          1441 \DeclareRobustCommand{\ESL}
                {\ensuremath{\exists}\SL}
          1443 \DeclareRobustCommand{\USL}
                {\ensuremath{\forall}\SL}
          1444
          1445
          1446 \DeclareRobustCommand{\FSL}
                {\{\text{txtname}\{F\}\}\SL\}}
          1449 \DeclareRobustCommand{\EFSL}
                {\ensuremath{\exists}\FSL}
          1451 \DeclareRobustCommand{\UFSL}
                {\ensuremath{\forall}\FSL}
          1452
          1453
          1454\;\text{\%} One-Goal Strategy Logic
          1455 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][1g\arglef{,}{#3}]}
          1457
          1458 \DeclareRobustCommand{\EOGSL}
                {\ensuremath{\exists}\OGSL}
          1460 \DeclareRobustCommand{\UOGSL}
          1461
                {\ensuremath{\forall}\OGSL}
          1462
          1463 \DeclareRobustCommand{\FOGSL}
                {{\txtname{F}}\OGSL}
          1464
          1465
          1466 \DeclareRobustCommand{\EFOGSL}
                 {\ensuremath{\exists}\FOGSL}
          1468 \DeclareRobustCommand{\UFOGSL}
          1469
                {\ensuremath{\forall}\FOGSL}
          1471 % Conjunctive-Goal Strategy Logic
          1472 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
                 {\SL[#1][#2][cg\arglef{,}{#3}]}
          1473
          1474
          1475 \DeclareRobustCommand{\ECGSL}
                {\ensuremath{\exists}\CGSL}
          1477 \DeclareRobustCommand{\UCGSL}
                {\ensuremath{\forall}\CGSL}
          1480 \verb|\DeclareRobustCommand{\FCGSL}|
          1481
                {\{\text{xtname}\{F\}\}\times GSL\}}
          1483 \DeclareRobustCommand{\EFCGSL}
                {\ensuremath{\exists}\FCGSL}
          1485 \DeclareRobustCommand{\UFCGSL}
          1486
                {\ensuremath{\forall}\FCGSL}
          1487
          1488 % Disjunctive-Goal Strategy Logic
          1489 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
                {\SL[#1][#2][dg\arglef{,}{#3}]}
          1491
          1492 \DeclareRobustCommand{\EDGSL}
          1493 {\ensuremath{\exists}\DGSL}
          1494 \DeclareRobustCommand{\UDGSL}
                {\ensuremath{\forall}\DGSL}
          1495
          1496
          1497 \DeclareRobustCommand{\FDGSL}
                {\{\text{xtname}\{F\}\}\times GSL\}}
          1498
          1499
```

```
1500 \DeclareRobustCommand{\EFDGSL}
     {\ensuremath{\exists}\FDGSL}
1502 \DeclareRobustCommand{\UFDGSL}
1503
     {\ensuremath{\forall}\FDGSL}
1504
1505 % Alternating-Goal Strategy Logic
1506 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1508
1509 \DeclareRobustCommand{\EAGSL}
     {\ensuremath{\exists}\AGSL}
1511 \DeclareRobustCommand{\UAGSL}
1512
     {\ensuremath{\forall}\AGSL}
1513
1514 \DeclareRobustCommand{\FAGSL}
      {{\txtname{F}}\xGSL}
1515
1516
1517 \DeclareRobustCommand{\EFAGSL}
      {\ensuremath{\exists}\FAGSL}
1519 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
1520
1522 % Extended-Goal Strategy Logic
1523 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1524
1525
1526 \DeclareRobustCommand{\EEGSL}
      {\ensuremath{\exists}\EGSL}
1527
1528 \DeclareRobustCommand{\UEGSL}
      {\ensuremath{\forall}\EGSL}
1530
1531 \DeclareRobustCommand{\FEGSL}
1532
     {\{\text{xtname}\{F\}\}\times GSL\}}
1533
1534 \DeclareRobustCommand{\EFEGSL}
     {\ensuremath{\exists}\FEGSL}
1536 \DeclareRobustCommand{\UFEGSL}
     {\ensuremath{\forall}\FEGSL}
1537
1538
1539 % Boolean-Goal Strategy Logic
1540 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
     {\SL[#1][#2][bg\arglef{,}{#3}]}
1543 \DeclareRobustCommand{\EBGSL}
     {\ensuremath{\exists}\BGSL}
1545 \verb|\DeclareRobustCommand{\UBGSL}|
1546
      {\ensuremath{\forall}\BGSL}
1547
1548 \DeclareRobustCommand{\FBGSL}
     {\{ \text{xtname}\{F\} \} \times GSL \}}
1549
1550
1551 \DeclareRobustCommand{\EFBGSL}
      {\ensuremath{\exists}\FBGSL}
1553 \DeclareRobustCommand{\UFBGSL}
1554
      {\ensuremath{\forall}\FBGSL}
1555
1556 % Nested-Goal Strategy Logic
1557 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
1558
     {\SL[#1][#2][ng\arglef{,}{#3}]}
1559
1560 \DeclareRobustCommand{\ENGSL}
     {\ensuremath{\exists}\NGSL}
1562 \DeclareRobustCommand{\UNGSL}
```

```
1563
                                                                                                        {\ensuremath{\forall}\NGSL}
                                                                          1564
                                                                         1565 \DeclareRobustCommand{\FNGSL}
                                                                         1566
                                                                                                       {\{\text{xtname}\{F\}\}\times GSL\}}
                                                                         1567
                                                                         1568 \DeclareRobustCommand{\EFNGSL}
                                                                                                    {\ensuremath{\exists}\FNGSL}
                                                                         1570 \DeclareRobustCommand{\UFNGSL}
                                                                                                        {\ensuremath{\forall}\FNGSL}
                                                                         1573 % Undefined-Goal Strategy Logic
                                                                         1574 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
                                                                                                        {\SL[#1][#2][xg\arglef{,}{#3}]}
                                                                         1576
                                                                         1577 \DeclareRobustCommand{\EXGSL}
                                                                                                        {\ensuremath{\exists}\XGSL}
                                                                         1579 \DeclareRobustCommand{\UXGSL}
                                                                                                       {\ensuremath{\forall}\XGSL}
                                                                         1580
                                                                         1581
                                                                         1582 \DeclareRobustCommand{\FXGSL}
                                                                                                       {\{\text{xtname}\{F\}\}\times GSL\}}
                                                                         1583
                                                                         1585 \DeclareRobustCommand{\EFXGSL}
                                                                                                   {\ensuremath{\exists}\FXGSL}
                                                                         1586
                                                                         1587 \DeclareRobustCommand{\UFXGSL}
                                                                                                   {\ensuremath{\forall}\FXGSL}
                                                                         \BndSet, ...
                                                                         1590 \newcommand{\bndsym}{\flat}
                                                                         1591 \newcommand{\bndset}{Bn}
                                                                         1592 \cmdmthsetext{Bnd} [\bndset] [\bndsym]
                                                                         1593 \usrmth{bnd}{}{argfun}
                                          \psn
                                                                         1594 \usrmth{psn}{}{argfun}
                                                                         \nxt.Fiin
                                                                         1596 \newcommand{\nxtfun}{nxt}
                                                                         1597 \cmdmthfun{nxt}[\nxtfun]
                                                                         1598 \fi
                                                                         1603 \ifaut@
                                                                         \DWA, ...
                                                                         1605 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}|
                                                                         1607 \verb|\cmdtxtoparname{DFW}\cmdtxtoparname{MFW}\cmdtxtoparname{AFW}|
                                                                          1608 \cmdtxtoparname{DBW}\cmdtxtoparname{ABW}\cmdtxtoparname{UBW}\cmdtxtoparname{ABW}
                                                                         1609 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{ACW}| $$ 1609 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{ACW}| $$ 1609 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{ACW}| $$ 1609 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{ACW}| $$ 1609 \verb|\cmdtxtoparname{BCW}\cmdtxtoparname{ACW}| $$ 1609 \verb|\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}| $$ 1609 \verb|\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdtxtoparname{BCW}\cmdt
                                                                         1610 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{MPW}| cmdtxtoparname{APW}| cmdtxtoparname{APW}| cmdtxtoparname{MPW}| 
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                                                                         1613 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
```

```
\GFG, \PD, ... ...
                                                             1614 \cmdtxtoparname{GFG}
                                                             1615
                                                             1616 \cmdtxtoparname{PD}
                                                             1617
                                                             1618 %% ...
                                                              \AutName, ... ...
                                                             1620 \mbox{ \newcommand{\autname}{A}}
                                                              1621 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                              1622 \mbox{ \newcommand{\autset}{Aut}}
                                                              1623 \cmdmthset{Aut}[\autset]
                       \WAutSet ...
                                                              1624 \mbox{ \newcommand{\wautset}{WAut}}
                                                              1625 \cmdmthset{WAut}[\wautset]
       \SttSet, ... ...
                                                            1626 \left\lceil \frac{q}{q} \right\rceil
                                                             1627 \def\sttset{Q}
                                                              1628 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                              1629 \cmdmthset{IStt}[\sttset_{I}]
                                                              1630 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                              1631 \cmdmthset{FStt}[\sttset_{F}]
                                                              1632 \cmdmthsymelm{fstt}[\sttsym_{F}]
       \SymSet, ... ...
                                                              1633 \newcommand{\symsym}{\sigma}
                                                              1634 \newcommand{\symset}{\Sigma}
                                                              1635 \cmdmthsetext{Sym}[\symset][\symsym]
                           \trnFun ...
                                                              1636 \mbox{ \newcommand{\trnsym}{\delta}}
                                                              1637 \cmdmthfun{trn}[\trnsym]
                                                              \LangFun
                                                              1639 \newcommand{\langfun}{L}
                                                              1640 \cmdmthfun{Lang}[\langfun]
       \WrdSet, ... ...
                                                             1641 \newcommand{\wrdsym}{w}
                                                              1642 \newcommand{\wrdset}{Wr}
                                                              1643 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                                                              \DTA, ... ...
                                                             1645 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| \\
                                                             1647 \verb|\cmdtxtoparname{OFT}| cmdtxtoparname{IFT} | cmdtxtoparname{UFT}| cmdtxtoparname{AFT}| cmdtxtoparname{AFT}
                                                              1648 \verb|\cmdtxtoparname{UBT}\cmdtxtoparname{ABT}| \\
                                                              1649 \verb|\cmdtxtoparname{UCT}\cmdtxtoparname{ACT}|
                                                              1650 \verb|\cmdtxtoparname{DPT}\cmdtxtoparname{MPT}| cmdtxtoparname{APT}| 
                                                              1651 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{QRT}| \\
                                                              1652 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{AST}| \\
                                                              1653 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}| cmdtxtoparname{MMT}| cmdtxtoparname{MMT}|
```

```
\TAutSet ...
    1655 \mbox{ \newcommand{\tautset}{TAut}}
    1656 \cmdmthset{TAut}[\tautset]
\DirSet, ... ...
    1657 \newcommand{\dirsym}{d}
    1658 \newcommand{\dirset}{\Lambda}
    1659 \cmdmthsetext{Dir}[\dirset][\dirsym]
    \TreeSet, ... ...
    1661 \newcommand{\treesym}{T}
    1662 \newcommand{\treeset}{Tr}
    1663 \cmdmthsetext{Tree} [\treeset] [\treesym]
 \wotFun ...
    1664 \newcommand{\wotfun}{wot}
    1665 \cmdmthfun{wot}[\wotfun]
    1666 \fi
    1671 \iffrm@
   1672 %%...
    1673 \fi
    1678 \iffig@
   1679 %%...
    1680 \fi
    1685 \iftab@
   1686 %%...
    1687 \fi
    1692 \ifalg@
    1693 \RequirePackage[ruled,vlined] {algorithm2e}
    1694 \setlength{\algomargin}{1.25em}
    1695 \DontPrintSemicolon
    1696 \SetInd{0.25em}{0.5em}
```

```
\Signature ...
                                                                              1697 \SetKw{Signature}{signature}
           \Macro, ... ...
                                                                              1698 \SetKwFor{Macro}{macro}{}}
                                                                              1699 \SetKwFor{Function}{function}{}}
                                                                              1700 \SetKwFor{Procedure}{procedure}{}{}
                                              \Let ...
                                                                              1701 \SetKwFor{Let}{let}{in}{}
\True, \False ...
                                                                              1702 \SetKw{True}{true}
                                                                              1703 \SetKw{False}{false}
               \GoTo, ... ...
                                                                              1704 \SetKw{GoTo}{goto}
                                                                              1705 \SetKw{Break}{break}
                                                                              1706 \SetKw{Continue}{continue}
                    \MIf, ... ...
                                                                              1707 \ \texttt{MIf}{\texttt{MElseIf}{\texttt{MElse}{\texttt{wif}{\texttt{wif}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{welse}}{\texttt{wel
                                               \nlr ...
                                                                               1708 \verb|\DeclareRobustCommand{\nlr}[1]
                                                                              1709 {\addtocounter{AlgoLine}{1}%
                                                                              1710 \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
                                                                              1713 \endinput
                                                                              1714 (/package)
```

2 Change History

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

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$\begin{array}{llllllllllllllllllllllllllllllllllll$	$703, 704, 706, 707, 708, \\709, 710, 711, 712, 713, \\714, 715, 719, 721, 723, \\724, 725, 726, 727, 728, \\729, 731, 732, 1126, 1127 \\ \verb \cmdtxtall \underline{322}, 407, 419, 432, 444 $	\csname \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparname 472 \cmdmthoparrel 556 \cmdmthoparset 537	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \frac{322}{322}, 407, 419, 432, 444 \cmdtxtarg \docs \frac{314}{323}	\csname \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparrame 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparsnt 634	$\begin{array}{c} 703, 704, 706, 707, 708,\\ 709, 710, 711, 712, 713,\\ 714, 715, 719, 721, 723,\\ 724, 725, 726, 727, 728,\\ 729, 731, 732, 1126, 1127\\ \verb \cmdtxtall \underline{322}, 407, 419, 432, 444\\ \verb \cmdtxtarg \ldots \underline{314}, 323\\ \verb \cmdtxtargabr \underline{422}\\ \end{aligned}$	\csname
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparrame 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparstr 634 \cmdmthoparstr 524	$\begin{array}{c} 703, 704, 706, 707, 708,\\ 709, 710, 711, 712, 713,\\ 714, 715, 719, 721, 723,\\ 724, 725, 726, 727, 728,\\ 729, 731, 732, 1126, 1127\\ \verb \cmdtxtall 322, 407, 419, 432, 444\\ \verb \cmdtxtarg \dots \qquad 314, 323\\ \verb \cmdtxtargabr \dots \qquad 422\\ \verb \cmdtxtargcom \dots \qquad 447\\ \verb \cmdtxtargdef \dots \qquad 410\\ \hline \end{aligned}$	\csname
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparrame 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparsnt 634 \cmdmthoparsym 582, 611	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \(\frac{322}{322}\), 407, 419, 432, 444 \cmdtxtarg \(\csname
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparname 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparsnt 634 \cmdmthoparstr 524 \cmdmthoparsym 582, 611 \cmdmthoparsymelm 610	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \(\frac{322}{322}\), 407, 419, 432, 444 \cmdtxtarg \(\frac{314}{323}\), 23 \cmdtxtargabr \(\frac{422}{410}\) \cmdtxtargdef \(\frac{410}{410}\) \cmdtxtargname \(\frac{435}{445}\)	\csname
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparname 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparstr 634 \cmdmthoparstr 524 \cmdmthoparsym 582, 611 \cmdmthoparsymelm 610 \cmdmthoparvec 674	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \(\frac{322}{322}\), 407, 419, 432, 444 \cmdtxtarg \(\frac{314}{323}\), \(\frac{422}{323}\) \cmdtxtargdef \(\frac{410}{323}\) \cmdtxtargname \(\frac{435}{325}\) \cmdtxtcom \(\frac{445}{325}\) \cmdtxtdef \(\frac{408}{325}\)	\csname
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparname 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparstr 634 \cmdmthoparsym 582, 611 \cmdmthoparsymelm 610 \cmdmthoparvec 674 \cmdmthpar 373, 378	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \(\frac{322}{322}\), 407, 419, 432, 444 \cmdtxtarg \(\frac{314}{323}\), 23 \cmdtxtargabr \(\frac{422}{447}\) \cmdtxtargdef \(\frac{410}{410}\) \cmdtxtargname \(\frac{435}{445}\) \cmdtxtdef \(\frac{408}{408}\) \cmdtxtname \(\frac{433}{435}\) \cmdtxtname \(\frac{433}{435}\)	\csname
\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparname 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparstr 634 \cmdmthoparstr 524 \cmdmthoparsymelm 610 \cmdmthoparvec 674 \cmdmthpar 373, 378 \cmdmthparcls 496	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \(\frac{322}{322}\), 407, 419, 432, 444 \cmdtxtarg \(\frac{314}{323}\), 23 \cmdtxtargabr \(\frac{422}{447}\) \cmdtxtargdef \(\frac{410}{45}\) \cmdtxtargname \(\frac{435}{438}\) \cmdtxtdef \(\frac{408}{408}\) \cmdtxtname \(\frac{433}{316}\), 323	\csname
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\cmdmthoparfam 485 \cmdmthoparfrm 647 \cmdmthoparfun 569 \cmdmthoparmat 661 \cmdmthoparname 472 \cmdmthoparrel 556 \cmdmthoparset 537 \cmdmthoparsig 511 \cmdmthoparstr 634 \cmdmthoparstr 524 \cmdmthoparsymelm 610 \cmdmthoparvec 674 \cmdmthpar 373, 378 \cmdmthparcls 496 \cmdmthparelm 593, 609	703, 704, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 719, 721, 723, 724, 725, 726, 727, 728, 729, 731, 732, 1126, 1127 \cmdtxtall \(\frac{322}{322}\), 407, 419, 432, 444 \cmdtxtarg \(\frac{314}{323}\), 23 \cmdtxtargabr \(\frac{422}{47}\) \cmdtxtargdef \(\frac{410}{498}\) \cmdtxtcom \(\frac{445}{498}\) \cmdtxtdef \(\frac{408}{408}\) \cmdtxtange \(\frac{433}{323}\) \cmdtxtoarg \(\frac{316}{323}\) \cmdtxtoargabr \(\frac{424}{424}\)	\csname \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \mtharg \ldots \ldot
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{tabular}{l l l l l l l l l l l l l l l l l l l $	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \mtharg 356 \mthargfun 802, 804, 806, 808, 811, 918, 920 \mthargset
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \htharg \ldots \ldot
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \tag{56} \ \text{mthargfun} \tag{56}, 802, 804, 806, 808, 811, 918, 920 \ \text{mthargset} \tag{57}, 829, 831, 833, 835, 837 \ \text{mthcls,} \tag{584}
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\LangFun 1639 \langfum 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \htharg 356 \hthargfun 802, 804, 806, 808, 811, 918, 920 \hthargset 487 \hthalm, 487 \hthalm,
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \tag{56} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthargset} \tag{827}, 829, 831, 833, 835, 837 \ \text{mthelm, \top \tag{474}} \ \text{mthfam, \top \tag{474}} \ \text{mthfrm, \top \tag{636}}
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	\LangFun 1639 \langfum 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ mtharg unitary solutions of the solution of the solu
H \H	\LangFun 1639 \langfun 1639, 1640 \langfun 782, 783, 785, 786, 1239, 1381 \lceil 890 \left 336, 344, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 888, 890, 1241, 1383 \Leftrightarrow 750, 752 \Let 1701 \left 1300, 1301, 1302 \lfloor 888 \linenumbers 184, 186 \linenum@false 50 \linnum@true 51 \llcorner 823	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \tag{56} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthargset} \tag{827}, 829, 831, 833, 835, 837 \ \text{mthelm, \top \tag{474}} \ \text{mthfam, \top \tag{474}} \ \text{mthfrm, \top \tag{636}}
H \H	\LangFun 1639 \langfun 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ mtharg unitary solutions of the solution of the solu
H \H	\LangFun 1639 \langfun 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ mtharg un
H \H	\LangFun 1639 \langfun 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg un} \tag{558} \text{804}, 806, 808, 811, 918, 920 \\ \text{mthargset} \tag{827}, 829, 831, 833, 835, 837 \\ \text{mthelm, \tag{1} \frac{584}{474} \\ \text{mthfrm, \tag{1} \frac{636}{36}} \\ \text{mthfun} \tag{93, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913} \\ \text{mthfun, \tag{1} \frac{558}{558}}
H \H	\LangFun 1639 \langfun 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \tag{56} \\ \text{mthargfun} \tag{82}, 804, 806, 808, 811, 918, 920 \\ \text{mthargset} \tag{827}, 829, 831, 833, 835, 837 \\ \text{mthcls,} \tag{474} \\ \text{mthfun}, \tag{474} \\ \text{mthfun}, \tag{636} \\ \text{mthfun}, \tag{903}, 905, 907, 909, 911, 913 \\ \text{mthfun}, \tag{903}, 905, 907, 909, 911, 913 \\ \text{mthgen@false} \tag{61, 64}
H \H	\LangFun 1639 \langfum 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \times \text{356} \\ \text{mthargfun} \times \text{802}, \text{804}, 806, 808, 811, 918, 920 \\ \text{mthargset} \times \text{474} \\ mthelm, \text{\text{\text{mthelm, \text{\tex{\tex
H \H	\LangFun 1639 \langfun 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \tag{356} \\ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \\ \text{mthargset} \tag{87}, \text{829}, 831, 833, 835, 837 \\ \text{mthelm, \top \tag{474}} \\ \text{mthfam, \top \tag{474}} \\ \text{mthfum} \tag{903}, 905, 907, 909, 911, 913 \\ \text{mthfum, \top \tag{558}} \\ \text{mthgen@false} \tag{61, 64} \\ \text{mthgen@true} \tag{62, 74, 86, 91, 96} \\ \text{mthlopr} \tag{741, 743, 813, 815}
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \times \text{356} \\ \text{mthargfun} \times \text{802}, \text{804}, 806, 808, 811, 918, 920 \\ \text{mthcls}_\times \text{474} \\ \text{mthfam}_\times \text{474} \\ \text{mthfrm}_\times \text{636} \\ \text{mthfun} \text{584} \\ \text{mthfun} \text{584} \\ \text{mthfun} \text{558} \\ \text{mthgen@false} \text{61, 64} \\ \text{mthgen@false} \text{61, 64} \\ \text{mthlopr}_\times \text{743, 813, 815} \\ \text{mthlopr}_\times \text{741, 743, 813, 815} \\ \text{mthlopr}_\ti
H \H	\LangFun 1639 \langfun 1639, 1640 \langle 782,	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mthargfun} \tag{356} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthelm}, \tag{87}, \text{829}, 831, 833, 835, 837 \ \text{mthelm}, \tag{87}, \text{mthelm}, \tag{89}, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913 \ \text{mthfun}, \tag{903}, 905, 907, 909, 911, 913 \ \text{mthgen@false} \tag{616} \ \text{mthlopr}, \tag{614} \
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mthargfun} \tag{356} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthelm, \tag{474}} \ \text{mthelm, \tag{474}} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthelm, \tag{474}} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthgen@false} \tag{61, 64} \ \text{mthgen@true} \tag{62, 74, 86, 91, 96} \ \text{mthlopr, \tag{614}} \ \text{mthlrel} \tag{750, 752, 755, 757, 759, 761} \end{636}
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mthargfun} \tag{356} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthelm}, \tag{87}, \text{829}, 831, 833, 835, 837 \ \text{mthelm}, \tag{87}, \text{mthelm}, \tag{89}, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913 \ \text{mthfun}, \tag{903}, 905, 907, 909, 911, 913 \ \text{mthgen@false} \tag{616} \ \text{mthlopr}, \tag{614} \
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mthargfun} \tag{356} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthelm, \tag{474}} \ \text{mthelm, \tag{474}} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthelm, \tag{474}} \ \text{mthfun} \tag{636} \ \text{mthfun} \tag{636} \ \text{mthgen@false} \tag{61, 64} \ \text{mthgen@true} \tag{62, 74, 86, 91, 96} \ \text{mthlopr, \tag{614}} \ \text{mthlrel} \tag{750, 752, 755, 757, 759, 761} \end{636}
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mthargfun} \tag{356} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthelm}, \tag{81}, \text{829}, 831, 833, 835, 837 \ \text{mthelm}, \tag{82}, 829, 831, 833, 835, 837 \ \text{mthelm}, \tag{82}, \text{84} \ \text{mthfam}, \tag{83}, \text{856} \ \text{mthfam}, \tag{87} \ \text{mthftun}, \tag{836} \ \text{mthfam}, \tag{89}, 999, 901, 903, 905, 907, 909, 911, 913 \ \text{mthfun}, \tag{903}, 905, 907, 909, 911, 913 \ \text{mthgen@false} \tag{61}, 64 \ \text{mthgen@false} \tag{61}, 64 \ \text{mthlopr}, \tag{614} \ \text{mthlrel}, \tag{750}, 752, 755, 757, 759, 761 \ \text{mthlrel}, \tag{618}
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mtharg } \times \frac{356}{2} \\ \text{mthargfun} \triangle \frac{356}{2} \\ \text{mthelm}_{\triangle} \triangle \frac{487}{2} \\ \text{mthelm}_{\triangle} \triangle \frac{487}{2} \\ \text{mthfam}_{\triangle} \triangle \frac{584}{2} \\ \text{mthfun} \triangle \frac{584}{2} \\ \text{mthfun} \triangle \frac{558}{2} \\ \text{mthelm}_{\triangle} \triangle \frac{558}{2} \\ \text{mthgen@false} \triangle \frac{616}{2} \\ \text{mthlopr}_{\triangle} \triangle \frac{614}{2} \\ \text{mthlopr}_{\triangle} \triangle \frac{618}{2} \\ \text{mthlrel}_{\triangle} \triangle \frac{618}{2} \\ \text{mthlrel}_{\triangle} \triangle \frac{650}{2} \\ \text{mthmame}_{\triangle} \triangle \frac{650}{461} \\ \text{mthmame}_{\triangle} \triangle \triangle \triangle \triangle \triangle \triangle \triangle \triangle
H \H	\LangFun	766, 768, 770, 772, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 792, 794, 796, 799, 818, 877, 879, 881, 883, 885, 888, 890, 916, 1239, 1241, 1381, 1383 \ \text{mthargfun} \tag{356} \ \text{mthargfun} \tag{802}, 804, 806, 808, 811, 918, 920 \ \text{mthelm}, \tag{81}, \text{829}, 831, 833, 835, 837 \ \text{mthelm}, \tag{82}, 829, 831, 833, 835, 837 \ \text{mthelm}, \tag{82}, \text{84} \ \text{mthfam}, \tag{83}, \text{89}, 897, 899, 901, 903, 905, 907, 909, 911, 913 \ \text{mthfun} \tag{83}, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913 \ \text{mthgen@false} \tag{61}, 64 \ \text{mthgen@false} \tag{61}, 64 \ \text{mthlopr}, \tag{614} \ \text{mthlrel}, \tag{615} \ \text{mthlrel}, \tag{616} \ \text{mthlrel}, \tag{618} \ \text{mthmthrel}, \tag{618} \ \text{mthmth}

\mthpar $\underline{360}$	61, 68, 73, 79, 85, 90,	\playsym 1016, 1018, 1423, 1425
\mthrel, <u>545</u>	95, 101, 106, 111, 116, 127	\PlrSym 990, 991, 1011, 1012,
\mthset 840,	\newmth $331, 334, 336, 344$	1023, 1024, 1396, 1397,
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\mthsig, 500	\newmthoarg 339, 342	\PlrSym, _\OppSym <u>979</u>
\mthsnt, 623	\newmthoargsty . $\frac{341}{359}$, $\frac{372}{372}$	\pm 850, 858, 866
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\mthsty	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	992, 1392, 1393, 1396, 1398
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\mthstyelm 585		
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\mthstyfrm 637	\newtxtarg \frac{280}{283}, 283, 285	1394, 1395, 1397, 1399
\mthstyfun 559	\newtxtargsty <u>282</u> , 302, 315	\pow
\mthstylopr 615	\newtxtoarg <u>284</u> , 287	\prefun 1030, 1031
\mthstylrel 619	\newtxtoargsty . <u>286</u> , 304, 317	\preFun,_\sucFun 1030
\mthstymat 651	\newtxtopar 292, 295	\prfset . 1028, 1029, 1435, 1436
\mthstyname 462	\newtxtoparsty <u>294</u> , 308, 321	\PrfSet, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\mthstyrel 546	\newtxtpar <u>288</u> , 291, 293	\prfsym . 1027, 1029, 1434, 1436
\mthstyset 527	\newtxtparsty <u>290</u> , 306, 319	\Primafacie <u>714</u>
\mthstysig 501	\newtxtsty <u>278</u> , 300, 313	\primafacie <u>701</u>
\mthstysnt 624	\NGSL 1557, 1561, 1563	\prj <u>810</u>
\mthstystr 514	\nlr <u>1708</u>	\ProcessOptions 125
\mthstysym 572	\nlset 1710	\providecommand
	\noexpand 242, 246	1254, 1255, 1391, 1392,
•	\not 748, 752, 757, 761	1415, 1416, 1423, 1424,
\mthsubsup 332, <u>351</u>	\notcequiv 760	1427, 1428, 1434, 1435
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\MTL 1212	\notimplies 747	\prtsym 1067, 1069
\mu 1260	\num, _ \ldots \. \frac{876}{1}	\psn 1594
\mutatismutandis <u>699</u>	\numcc 878	\PSpace, <u>948</u>
_	\numco 880	\pthset . 1005, 1006, 1255, 1256
N		$\label{eq:pthset} $$ \begin{array}{llll} $$ \begin{array}{llll} & 1005, 1006, 1255, 1256 \\ & \begin{array}{llll} & 1004, \underline{1254} \\ \end{array} \end{array} $$$
$f N$ \newcommandx \dots 276, 278,	\numco	\pthset . 1005, 1006, 1255, 1256
N \newcommandx 276, 278, 280, 282, 284, 286, 288,	\numco	$\label{eq:linear_potential} $$ \begin{array}{llll} \begin{array}{llll} \textbf{pthSet} & . & 1005, 1006, 1255, 1256 \\ \textbf{PthSet,} \textbf{pthFun} & . & \underline{1004}, \underline{1254} \\ \textbf{pthsym} & . & 1004, 1006, 1254, 1256 \\ \textbf{PTime,} \textbf{u} & . & . & . & . & . & . & \underline{947} \\ \end{array} $$$
N \newcommandx 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet,_\\pthFun 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime,_\ 947 \PTL,_\\LTL,_\
N \newcommandx 276, 278,	\numco 880 \numco 882 \numco 884 \nxtFun 1596 \nxtfun 1596, 1597	$\label{eq:linear_potential} $$ \begin{array}{llll} \begin{array}{llll} \textbf{pthSet} & . & 1005, 1006, 1255, 1256 \\ \textbf{PthSet,} \textbf{pthFun} & . & \underline{1004}, \underline{1254} \\ \textbf{pthsym} & . & 1004, 1006, 1254, 1256 \\ \textbf{PTime,} \textbf{u} & . & . & . & . & . & . & \underline{947} \\ \end{array} $$$
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet,_\\pthFun 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime,
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots 947 \PTL, \ldot\LTL, \ldots
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet,_\pthFun 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime,_\
N \newcommandx 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots
N \newcommandx 276, 278,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots
N \newcommandx 276, 278,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots
N \newcommandx 276, 278,	\numco 880 \numco 882 \numco 884 \nxtFun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \osset 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots
N \newcommandx 276, 278,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots
N \newcommandx 276, 278,	\numco 880 \numco 882 \numco 884 \nxtFun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \osset 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529,	\numco 880 \numco 882 \numco 884 \nxtFun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \obsSet 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399,	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ 947 \PTL, \ \ptn, \ \ \ptn, \ \ \ \pto, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516,	\numco 880 \numco 882 \numco 884 \nxtFun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000, 1001 \ObsSet, \obsFun 1000 \ogsL 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \pdot
N \newcommandx \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556,	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots . 947 \PTL, \ldot\LTL, \ldots . 1272 \pto, \ldot\pmapsto . 820 \textbf{Q} \textbf{Q} \QAE, \ldot\QEA . 1118 \QATL . 1351 \QATLP . 1362 \QATLS . 1373 \QCTL . 1314 \QCTLP . 1325 \QCTLS . 1336 \QLTL . 1287 \qntset . 1121, 1122 \QntSet, \ldot\ . 1120 \qntsym . 1120, 1122 \QPSpace, \ldot\ . 950
N \newcommandx \cdots \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569,	\numco	\pthset 1005, 1006, 1255, 1256 \PthSet, \pthFun 1004, 1254 \pthsym 1004, 1006, 1254, 1256 \PTime, \property 947 \PTL, \property 1272 \pto, \pmapsto 820 Q \QAE, \property 1381 \QATL 1351 \QATLS 1373 \QCTL 1314 \QCTL 1336 \QCTLS 1336 \QLTL 1287 \qntset 1121, 1122 \qntset, \property 1120, 1122 \qpSpace, \property 950 \QPTime, \property 949
N \newcommandx \cdots \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582,	\numco 880 \numco 882 \numco 884 \nxtFun 1596 \nxtfun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \ldots . 947 \PTL, \ldot\LTL, \ldots . 1272 \pto, \ldot\pmapsto . 820 \textbf{Q} \textbf{Q} \QAE, \ldot\QEA . 1118 \QATL . 1351 \QATLP . 1362 \QATLS . 1373 \QCTL . 1314 \QCTLP . 1325 \QCTLS . 1336 \QLTL . 1287 \qntset . 1121, 1122 \QntSet, \ldot\ . 1120 \qntsym . 1120, 1122 \QPSpace, \ldot\ . 950
N \newcommandx \cdots \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595,	\numco 880 \numco 882 \numco 884 \nxtFun 1596 \nxtfun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764	\pthset 1005, 1006, 1255, 1256 \PthSet, \pthFun 1004, 1254 \pthsym 1004, 1006, 1254, 1256 \PTime, \pdot 947 \PTL, \pholenown\text{LTL, \pdot 1272 \pto, \pmapsto 820 Q Q \QAE, \pholenown\text{QEA} 1118 \QATL 1351 \QATLP 1362 \QATLS 1373 \QCTL 1314 \QCTLP 1325 \QCTLS 1336 \QLTL 1287 \qntset 1121, 1122 \Qntset, \pholenown 1120, 1122 \QPTL 950 \QPTL 949 \QPTL 1276
N \newcommandx \cdots \cdot 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610,	\numco 880 \numco 882 \numco 884 \nxtFun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764	\text{Pthset . 1005, 1006, 1255, 1256} \ PthSet, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
N \newcommandx \cdots \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610, 616, 620, 626, 628, 630,	\numco 880 \numco 882 \numco 884 \nxtFun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764 P \P 1300 \PackageWarning 121	\text{Pthset . 1005, 1006, 1255, 1256} \ PthSet, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
N \newcommandx \cdots \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610, 616, 620, 626, 628, 630, 632, 634, 639, 641, 643,	\numco	\text{Pthset . 1005, 1006, 1255, 1256} \ PthSet, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
N \newcommandx \cdots \cdot 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610, 616, 620, 626, 628, 630, 632, 634, 639, 641, 643, 645, 647, 653, 655, 657,	\numco 880 \numco 882 \numco 884 \nxtFun 1596 \nxtfun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764 P \P 1300 \PackageWarning 121 \PDL, \operlockTL, \operlock 1306 \Percontra 713	\text{Pthset} \ .1005, 1006, 1255, 1256 \text{PthSet}, \pthFun \ . \ \ 1004, \ 1254 \text{Pthsym} \ .1004, 1006, 1254, 1256 \text{PTime}, \pdots \ \ \ \ \ 1272 \text{Pto}, \ptnpmapsto \ \ 820 \text{QAE}, \pmanu\text{QEA} \ \ \ 1118 \qature \qature \ \ \ 1351 \qature \qature \ \ \ 1362 \qature \qature \ \ \ 1373 \ \ \ 1314 \ \ \ 1314 \ \ 1344 \ \ \ 1365 \q
N \newcommandx 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610, 616, 620, 626, 628, 630, 632, 634, 639, 641, 643, 645, 647, 653, 655, 657, 659, 661, 666, 668, 670,	\numco 880 \numco 882 \numco 884 \nxtFun 1596 \nxtfun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764 P \P 1300 \PackageWarning 121 \PDL, \operlocklim CTL, \overline 306 \Percontra 713 \percontra 700	\text{\text{\perp} \text{\perp} \perp
N \text{newcommandx} \cdots \cdots 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610, 616, 620, 626, 628, 630, 632, 634, 639, 641, 643, 645, 647, 653, 655, 657, 659, 661, 666, 668, 670, 672, 674, 927, 930, 935, 940	\numco	\pthset . 1005, 1006, 1255, 1256 \PthSet, \pthFun . 1004, 1254 \pthsym . 1004, 1006, 1254, 1256 \PTime, \pdot
N \newcommandx 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 325, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 380, 383, 385, 387, 389, 391, 393, 395, 397, 399, 408, 410, 412, 414, 416, 420, 422, 424, 426, 428, 433, 435, 437, 439, 441, 445, 447, 449, 451, 453, 464, 466, 468, 470, 472, 477, 479, 481, 483, 485, 490, 492, 494, 496, 498, 503, 505, 507, 509, 511, 516, 518, 520, 522, 524, 529, 531, 533, 535, 537, 539, 548, 550, 552, 554, 556, 561, 563, 565, 567, 569, 574, 576, 578, 580, 582, 587, 589, 591, 593, 595, 598, 601, 604, 607, 610, 616, 620, 626, 628, 630, 632, 634, 639, 641, 643, 645, 647, 653, 655, 657, 659, 661, 666, 668, 670,	\numco 880 \numco 882 \numco 884 \nxtFun 1596 \nxtfun 1596, 1597 O \obsset 1000, 1001 \ObsSet, \obsFun 1000 \OGSL 1455, 1459, 1461, 1464 \Omega 829 \omega 829 \omega 827 \Omicron 837 \omicron 207, 835 \OppSym 992, 993, 1013, 1014, 1025, 1026, 1398, 1399, 1420, 1421, 1432, 1433 \oppsym 981, 982 \Opr 1235 \outfun 1040, 1041 \overline 764 P \P 1300 \PackageWarning 121 \PDL, \operlocklim CTL, \overline 306 \Percontra 713 \percontra 700	\text{\text{\perp} \text{\perp} \perp

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\RelStr, <u>1185</u>	\SetRI 865	\top 1107
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\seqofcmd	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	\txtopar
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \stx	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub 1115 \sucfun 1032, 1033 \svarset 1204, 1205 \SVarSet, 1203 \svarsym 1203, 1205 \symset \SymSet, \symsym <t< td=""><td>\txtopar \\ \\ \frac{307}{\txtsty} \\ \txtstyabr \\ \\ \txtstycom \\ \\ \txtstycom \\ \\ \txtstycom \\ \\ \txtstyname \\ \\ \txtstyname \\ \\ \txtstyname \\ \\ \txtstyname \\ \\ \txtstubsup \\ \\ \txtstubsup \\ \\ \txtstubsup \\ \\ \txtstubsup \\ \\ \txtstyname \\ \\ \\ \txtstubsup \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\</td></t<>	\txtopar \\ \\ \frac{307}{\txtsty} \\ \txtstyabr \\ \\ \txtstycom \\ \\ \txtstycom \\ \\ \txtstycom \\ \\ \txtstyname \\ \\ \txtstyname \\ \\ \txtstyname \\ \\ \txtstyname \\ \\ \txtstubsup \\ \\ \txtstubsup \\ \\ \txtstubsup \\ \\ \txtstubsup \\ \\ \txtstyname \\ \\ \\ \txtstubsup \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
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$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub 1115 \sucfun 1032, 1033 \svarset 1204, 1205 \SVarSet, 1203 \svarsym 1634, 1635 \symsym \symsym <td>\txtopar \\ \\ \frac{307}{\txtstyar} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\</td>	\txtopar \\ \\ \frac{307}{\txtstyar} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub 1115 \sucfun 1032, 1033 \svarset 1204, 1205 \SVarSet, 1203, 1205 \symset 1634, 1635 \symsym \symsym <td>\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</td>	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub 1115 \sucfun 1032, 1033 \svarset 1204, 1205 \SVarSet, 1203, 1205 \symset 1634, 1635 \SymSet, 1633, 1635 \symsym 111, 113 \tab@false 111, 113 \tab@true 112 \tau 1413	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub 1115 \sucfun 1032, 1033 \svarset 1204, 1205 \SVarSet, 1203, 1205 \symset 1634, 1635 \symsym \symsym <td>\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \</td>	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub 1115 \sucfun 1032, 1033 \svarset 1204, 1205 \SVarSet,□ 1203, \svarsym 1203, 1205 \symset 1634, 1635 \symsym 1633, 1635 T \tab@false 111, 113 \tab@true 112 \tau 1413	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	1626, 1628, 1630, 1632 \sub	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \\ \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
\seqofcmd	1626, 1628, 1630, 1632 \sub	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
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\seqofcmd 243, 256, 260 \seqofgrklet 263, 394 \seqofgrklow 255, 264, 267, 390, 502, 515 \seqofgrkupp 259, 264, 269, 392 \seqoflatlet 252, 388, 502, 515 \seqoflatlow 248, 253, 267, 384 \seqoflatupp 250,	1626, 1628, 1630, 1632 \sub	\txtopar \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \

\UFXGSL 1587	\usrmthgrklet <u>393</u>	\viz <u>704</u>
\ULTL 1291	\usrmthgrklow <u>389</u>	\vs <u>703</u>
\UMC 1267	\usrmthgrkupp <u>391</u>	
\UML 1232	\usrmthlatlet <u>387</u>	\mathbf{W}
\UNGSL 1562	\usrmthlatlow <u>383</u>	\WAutSet <u>1624</u>
\UOGSL 1460	\usrmthlatupp 385 ,	\wautset 1624, 1625
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386, 388, 390, 392, 394,	\usrmthlow <u>395</u>	\WinSet <u>998</u>
396, 398, 400, 465, 467,	\usrmthupp <u>397</u>	\winset 998, 999
469, 471, 473, 478, 480,	\usrtxt	\Wlogx
482, 484, 486, 491, 493,	325, 409, 411, 413, 415,	\wlogx
495, 497, 499, 504, 506,	417, 421, 423, 425, 427,	\wotFun <u>1664</u>
508, 510, 512, 517, 519,	429, 434, 436, 438, 440,	\wotfun 1664, 1665
521, 523, 525, 530, 532,	442, 446, 448, 450, 452, 454	\wp 1120
534, 536, 538, 549, 551,	\UXGSL 1579	\wrdset 1642, 1643
553, 555, 557, 562, 564,		\WrdSet, <u>1641</u>
566, 568, 570, 575, 577,	${f V}$	\wrdsym 1641, 1643
579, 581, 583, 588, 590,	\valset 1132, 1133	\wrlset 1246, 1247
592, 594, 596, 617, 621,	\ValSet, <u>1131</u>	\WrlSet, <u>1245</u>
627, 629, 631, 633, 635,	\valsym 1131, 1133	\wrlsym 1245, 1247, 1248
640, 642, 644, 646, 648,	\varcmd . 230 , 774, 775, 776,	\wrt <u>728</u>
654, 656, 658, 660, 662,	777, 778, 779, 780, 781,	
667, 669, 671, 673, 675,	782, 783, 784, 785, 786, 787	\mathbf{X}
1108, 1110, 1114, 1115,	\varepsilon 916	\X, <u>1294</u>
1116, 1117, 1118, 1119,	\varnothing 799, 818	\XGSL 1574, 1578, 1580
1123, 1124, 1125, 1150,		
	\varset 1148, 1149	\xGSL 1481, 1498, 1515,
1151, 1157, 1163, 1164,	\varset	\xGSL 1481, 1498, 1515, 1532, 1549, 1566, 1583
1151, 1157, 1163, 1164, 1170, 1176, 1177, 1235,	$\label{eq:varsig} $$ \operatorname{Varsig} \dots 1145, 1146 $$ \operatorname{VarSig}_{\sqcup} \dots \dots \underline{1145} $$$	1532, 1549, 1566, 1583 \xi 1027, 1131, 1434
1151, 1157, 1163, 1164, 1170, 1176, 1177, 1235, 1236, 1237, 1294, 1295,	\varsig 1145, 1146 \VarSig,	1532, 1549, 1566, 1583
1151, 1157, 1163, 1164, 1170, 1176, 1177, 1235, 1236, 1237, 1294, 1295, 1296, 1297, 1298, 1299,	$\begin{array}{llllllllllllllllllllllllllllllllllll$	1532, 1549, 1566, 1583 \xi 1027, 1131, 1434 \xspace 277
1151, 1157, 1163, 1164, 1170, 1176, 1177, 1235, 1236, 1237, 1294, 1295,	$\begin{array}{llllllllllllllllllllllllllllllllllll$	1532, 1549, 1566, 1583 \xi 1027, 1131, 1434