fmocdmac — FM's OCD LATEX Macro*

Fabio Mogavero fm@fabiomogavero.com

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Abstract

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

1 Implementation & Usage

```
1 (*package)
    Required external packages:
  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 %% AMS defaults
 16 \newif\ifamsdef@ \amsdef@true
17 \DeclareOption{noamsdef}{\amsdef@false}
19\ \mbox{\%\%} AMS theorem tools
20 \newif\ifamsthm@ \amsthm@true
23 %% Extended Theorem tools
24 \newif\ifthmtls@ \thmtls@true
25 \DeclareOption{nothmtls}{\thmtls@false}
27 %% Enumeration tools
28 \newif\ifenmtls@ \enmtls@true
29 \verb|\DeclareOption{noenmtls}{\cline{Condition}} | \cline{Condition} | \cline{Condit
31 %% Hyper reference
32 \neq 0 
35 %% Font tools
36 \newif\iffnttls@ \fnttls@true
```

^{*}This document describes version v0.13 of the fmocdmac package, last revised 2023/02/01.

```
37 \DeclareOption{nofnttls}{\fnttls@false}
39 %% Camera-ready version
40 \newif\ifcrv@ \crv@false
41 \DeclareOption{crv}{\crv@true}
43 %% Change bars
44 \newif\ifchgbar@ \chgbar@false
45 \DeclareOption{chgbar}{\chgbar@true}
47 %% Line numbers
48 \newif\iflinnum@ \linnum@false
49 \DeclareOption{linnum}{\linnum@true}
51
52 %% Text macro generation
53 \newif\iftxtgen@ \txtgen@false
54 \DeclareOption{txtgen}{\txtgen@true}
55 \DeclareOption{notxtgen}
    {\txtgen@false\text@false\com@false\log@false\aut@false}
57
58 %% Math macro generation
59 \newif\ifmthgen@ \mthgen@false
60 \DeclareOption{mthgen}{\mthgen@true}
61 \DeclareOption{nomthgen}
    {\mthgen@false\math@false\gam@false\log@false\aut@false}
63
64
65 %% Elementary macros for text
66 \newif\iftext@ \text@false
67 \DeclareOption{text}{\text@true\txtgen@true}
68 \DeclareOption{notext}{\text@false}
70 %% Elementary macros for math
71 \newif\ifmath@ \math@false
72 \DeclareOption{math}{\math@true\mthgen@true}
73 \ensuremath{$\ $\ $} \{\math@false}
75
76 %% Macros for computational-complexity classes
77 \newif\ifcom@ \com@false
78 \DeclareOption{com}{\com@true\txtgen@true}
79 \DeclareOption{nocom}{\com@false}
82 %% Macros for games
83 \newif\ifgam@ \gam@false
84 \end{true} txtgen@true\mthgen@true\}
85 \DeclareOption{nogam}{\gam@false}
87 %% Macros for logics
88 \newif\iflog@ \log@false
89 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
90 \DeclareOption{nolog}{\log@false}
91
92 %% Macros for automata
93 \newif\ifaut@ \aut@false
94 \end{aut} {\aut@true} txtgen@true\mthgen@true}
95 \DeclareOption{noaut}{\aut@false}
96
98 %% Format-related tricks
99 \newif\iffrm@ \frm@false
```

```
100 \DeclareOption{frm}{\frm@true}
101 \DeclareOption{nofrm}{\frm@false}
102
103
104 %% Figure-related tricks
105 \neq \frac{1}{100} \fig@false
106 \DeclareOption{fig}{\fig@true}
107 \DeclareOption{nofig}{\fig@false}
108
109 %% Wrapfig package
110 \newif\ifwrpfig@ \wrpfig@true
111 \DeclareOption{nowrpfig}{\wrpfig@false}
112
113
114 %% Table-related tricks
115 \newif\iftab@ \tab@false
116 \DeclareOption{tab}{\tab@true}
117 \DeclareOption{notab}{\tab@false}
118
119
120 %% Algorithm-related tricks
121 \newif\ifalg@ \alg@false
122 \DeclareOption{alg}{\alg@true}
123 \DeclareOption{noalg}{\alg@false}
124
          Option-processing code:
125
126 \ensuremath{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{
128 \ExecuteOptions{aux,txtgen,mthgen,text,math,com,gam,log,aut}%
130 \ProcessOptions\relax%
132 \ \texttt{\formula} \ \texttt{\formu
137 \ifaux@
138
139 \ifamsdef@
140 % AMS Packages
                    \RequirePackage{amsmath}
                    \RequirePackage{amssymb}
                    \RequirePackage{stmaryrd}
                    \interdisplaylinepenalty=2500
144
145\,\backslash\mathrm{fi}
146
147 \ifamsthm@
148 % AMS Theorem Tools
                \RequirePackage{amsthm}
150 \fi
151
152 \left| \text{ifthmtls@} \right|
153 % Extended Theorem Tools
154
                    \RequirePackage{thmtools, thm-restate}
155 \fi
156
157 \ifenmtls@
                    % Enumeration Tools
                    \RequirePackage{paralist}
160 \fi
161
```

```
163
                                                                                  % Hyper References
                                                         164
                                                                                    \RequirePackage{hyperref}
                                                         165
                                                                                   \hypersetup {
                                                                                                                                                                       = {},
                                                                                             pdfsubject
                                                         166
                                                                                             pdfkeywords
                                                                                                                                                                       = {},
                                                         167
                                                                                             pdfproducer
                                                                                                                                                                       = {},
                                                         168
                                                                                             pdfcreator
                                                         169
                                                                                                                                                                       = {},
                                                                                             pdfpagemode
                                                                                                                                                                      = {UseNone},
                                                         170
                                                                                             pdfstartview = {FitH},
                                                         171
                                                                                              urlcolor
                                                                                                                                                                       = {blue},
                                                         172
                                                         173
                                                                                               colorlinks
                                                         174
                                                                                }
                                                         175 \fi
                                                        176
                                                        177 \iffnttls@
                                                                                 % Font Tools
                                                                                   \RequirePackage[final]{microtype}
                                                         179
                                                         180 \fi
                                                        181
                                                         182 \ifcrv@
                                                         183
                                                                                 % Camera-Ready Version
                                                         184
                                                                                  %%...
                                                         185
                                                         186
                                                        187 \else
                                                                                 % Draft Version
                                                        188
                                                         189
                                                        190
                                                                                 %%...
                                                        191
                                                                                   \ifchgbar@
                                                         192
                                                                                             % Change Bars
                                                         193
                                                                                              \RequirePackage{changebar}
                                                         194
                                                         195
                                                                                   \fi
                                                         196
                                                                                   \iflinnum@
                                                         197
                                                                                             % Line Numbers
                                                         198
                                                                                               \if@twocolumn
                                                         199
                                                                                                         \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
                                                         200
                                                         201
                                                         202
                                                                                                         \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
                                                         203
                                                         204
                                                                                   \fi
                                                         205
                                                                                  %%...
                                                        206
                                                        207
                                                       208 \fi
                                                       209
                                                       210 \fi
                                                        \mathbbo Bbo Math Font: ... to do!
                                                         215 \left\{ \mathbf{Mathbbo}_{\ mathbbo}_{\ mathbboo}_{\ mathb
\matheus Eus Math Font: ... to do!
                                                        216 \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheux} \right\} \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheus} \right\} \left\{ \mathbf{Matheux} \right\} 
\mathpzc Pzc Math Font: ... to do!
                                                        217 \ifdef{\mathpzc}{}{\DeclareMathAlphabet{\mathpzc}{T1}{pzc}{m}{it}}
```

162 \ifhypref@

```
\mathscr Scr Math Font: ... to do!
                                218 \left\{ \mathbf{Wathscr} \right\} \left\{ \mathbf{Mathscr} \right\} 
                                \omicron Auxiliary Greek lowercase letter: ... to do!
                                223 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
                                224 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
                                225 \texttt{\Zeta}{Z} \texttt{\Acsdef{Eta}{H} \texttt{\Iota}{I} \texttt{\Acsdef{Kappa}{K}}
                                226 \csdef{Nu}{N} \csdef{Nu}{N} \csdef{Omicron}{O}
                                227 \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"
                                232 \newcommand{\empchk}[2]
                                          {\left\{ if & 1 \right\} }
         \defval Default value: \defval{\langle A \rangle}{\langle B \rangle} evaluates to Argument \langle B \rangle, if Argument \langle A \rangle is empty, and to
                              Argument \langle A \rangle itself, otherwise.
                                      • \defval{}{B} = "B"
                                      • \defval{A}{B} = "A"
                                234 \newcommand{\defval}[2]
                                           {\left\{ if & 1 & 2 \leq 1 \leq 1 \right\}}
                                \alpha Left extension: \alpha \alpha evaluates to the concatenation \langle AB \rangle of the two arguments, if
                              Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                                      • \arglef{A}{} = ""
                                      • \arglef{A}{B} = "AB"
                                237 \newcommand{\arglef}[2]
                                           {\empchk{#2}{#1#2}}
         \argrig Right extension: \argrig{\langle A\rangle}{\langle B\rangle} evaluates to the concatenation \langle AB \rangle of the two arguments,
                              if Argument \langle A \rangle is non-empty, and to the empty string, otherwise.
                                      • \argrig{}{B} = ""
                                      • \argrig{A}{B} = "AB"
                                239 \newcommand{\argrig}[2]
                                          {\empchk{#1}{#1#2}}
         \ Middle extension: \ 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"
                                 241 \newcommand{\argmid}[3]
                                242 {\empchk{#2}{#1#2#3}}
```

```
Separators: \argsep{\langle A \rangle}{\langle B \rangle}{\langle C \rangle} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
                         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"
                          243 \newcommand{\argsep}[3]
                                  {\if&#1&#3\else#1\arglef{#2}{#3}\fi}
                          Variadic commands: \operatorname{Varcmd}\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\}\{\langle D \rangle\}\{\langle E \rangle\}\{\langle F \rangle\} \dots to do!
        \varcmd
                          246 \newcommand{\varcmd}[6]
                                   {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
                          247
                                       {\csname check#1arg\endcsname{\argsep{##1}{#4}{##2}}}%
                          248
                          249
                                   \expandafter\newcommand\csname check#larg\endcsname[1]
                          250
                                       {\csname @ifnextchar\endcsname%
                                           \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
                          251
                                    \expandafter\newcommand\csname#1\endcsname[1]
                          252
                                       {\csname check#1arg\endcsname{#3##1}}}
                          Sequence of tags: \ensuremath{\mathsf{Sequence}}\ (A) + (B) + (C) + \dots  to do!
     \seqoftag
                          255 \newcommand{\seqoftag}[3]
                          256
                                  {\@for\itr:={#1}\do%
                          257
                                       {\expandafter\csedef{\itr#2}%
                                           {\noexpand\csname #3\endcsname{\itr}}}
                          258
                        Sequence of commands: \sqoign{A}{\langle A \rangle} {\langle A \rangle} {\langle C \rangle} \dots \text{ to do!}
     \seqofcmd
                          259 \newcommand{\seqofcmd}[3]
                          260
                                   {\@for\itr:={#1}\do%
                          261
                                       {\expandafter\csedef{\itr#2}%
                          262
                                           {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}}
                          \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow{\langle A \rangle}{\langle B \rangle} ... to do!
                          264 \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)}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                          266 \newcommand{\seqoflatupp}
                                   {\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)}
\seqoflatlet Sequence of Latin letters: \seqoflatlet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                          268 \newcommand{\seqoflatlet}[2]
                                   {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
                          Sequence of Greek lowercase letters: \square{A} : \squa
\seqofgrklow
                          271 \newcommand{\seqofgrklow}
                                   {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                          272
                                   iota, kappa, varkappa, lambda, mu, nu, xi, omicron, pi, varpi, rho, varrho, sigma, %
                          273
                          274
                                   varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
                        Sequence of Greek uppercase letters: \seqofgrkupp\{\langle A \rangle\}\{\langle B \rangle\}\ ... to do!
\seqofgrkupp
                          275 \newcommand{\seqofgrkupp}
                          276
                                   {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
                          277
                                   Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                          278
                                   varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
```

```
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                       279 \newcommand{\seqofgrklet}[2]
                                                  {\seqofgrklow{#1}{#2}\seqofgrkupp{#1}{#2}}
                                       \seqoflow Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
                                       282 \newcommand{\seqoflow}[2]
                                       283
                                                 {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
         \seqofupp Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                       284 \newcommand{\seqofupp}[2]
                                                   {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
         \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
                                       286 \newcommand{\seqoflet}[2]
                                                  {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
                                       \newtxt ... to do!
                                             • \newtxt[\rmfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                             • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                             • \newtxt[\ttfamily]{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                       292 \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_sub_Ext"
                                             • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                       294 \newcommandx{\newtxtsty}[2][2=]
                                                  {\newtxt[\defval{#2}{#1}]}
       \newtxtarg ... to do!
                                             • \newtxtarg[\rmfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                             • \newtxtarg[\sffamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sup_Ext1(Arg)Ext2"
                                             • \newtxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                       296 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                   {\newtxt[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
\newtxtargsty ... to do!
                                              \bullet \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1}_{Arg}[\mathtt{Ext2}] = \mathtt{Name}^{\sup}_{\sup} \mathrm{Ext1}_{Arg}(\mathrm{Ext2})^{\mathrm{Sup}}_{\sup} \mathrm{Ext1}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext1}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext1}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext1}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}}^{\sup}_{\sup} \mathrm{Ext2}_{\operatorname{Name}
                                             • \newtxtargsty{\rmfamily}[\sffamily][\sup][\sup][\sup][\sup][\st1]{\Arg}[\st2] = "Name_sup_\sup]\st1(\Arg)\st2"
                                             • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Namesup Ext1(Arg)Ext2"
                                       298 \newcommandx{\newtxtargsty}[2][2=]
                                                 {\newtxtarg[\defval{#2}{#1}]}
     \newtxtoarg ... to do!
                                             • \newtxtoarg[\rmfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                             • \newtxtoarg[\sffamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                             • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name_sub_(Arg)"
                                       300 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
```

```
\newtxtoargsty ... to do!
                                                     • \mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargsty}(\mbox{\newtxtoargs
                                                     • \mbox{\normality}[\mbox{\normality}]{\normality}[\sub][\sub][\sub][\sub][\normality] = "Name_{sub}^{sup}(\normality)"
                                                      \bullet \verb| \newtxtoargsty{\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}[\mbox{\newtxtoargsty}] [\mbox{\newtxtoargsty}] [\mbox{\newtxt
                                              302 \newcommandx{\newtxtoargsty}[2][2=]
                                              303 {\newtxtoarg[\defval{#2}{#1}]}
           \newtxtpar ... to do!
                                                     • \newtxtpar[\rmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup_Ext1[Par]Ext2"
                                                     • \newtxtpar[\sffamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup}Ext1[Par]Ext2"
                                                     • \newtxtpar[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sub_Ext1[Par]Ext2"
                                               304 \newcommandx{\newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                         {\newtxt[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
  \newtxtparsty ... to do!
                                                     • \newtxtparsty{\rmfamily}{Name}[sub] [sup] [Ext1] {Par} [Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2"
                                                     • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[\Par]Ext2"
                                                     • \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NamesubExt1[Par]Ext2"
                                               306 \newcommandx{\newtxtparsty}[2][2=]
                                              307 {\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]"
                                              308 \newcommandx{\newtxtopar}[5][1=, 3=, 4=, 5=]
                                                         {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                                                     • \mbox{\ensuremath{\mbox{Name}} (Sub) [Sup] [Par] = "Name}_{sub} [Par]"}
                                                     \newtxtoparsty{\rmfamily}[\sffamily] {\Name} [sub] [sup] [Par] = "Name_sup[Par]"
                                                     • \newtxtoparsty{\rmfamily}[\ttfamily]{\Name}[sub][sup][Par] = "Name_sup_[Par]"
                                              310 \newcommandx{\newtxtoparsty}[2][2=]
                                                          {\newtxtopar[\defval{#2}{#1}]}
           \txtsubsup ... to do!
                                                     • \txtsubsup{sub}{} = "sub"; \txtsubsup{}{sup} = "sup"; \txtsubsup{sub}{sup} = "sub"
                                                     • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                                     • \txtsubsup[\ttfamily]{Aa}{Bb} = ^{\text{"Bb"}}_{Aa}
                                              312 \newcommand{\txtsubsup}[3][]
                                                          \txt ... to do!
                                                     • \text{txt{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext"}
                                                     • \text{txt[\scshape]{Name}[sub][sup][Ext]} = \text{"Name}_{\text{Sub}}^{\text{SUP}} \text{Ext"}
                                                     • \text{txt}[\text{bfseries}]{\text{Name}}[\text{sub}][\text{sup}][\text{Ext}] = \text{"Name}_{\text{sub}}^{\text{sup}}\text{Ext}"
                                              315 \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}"
                                                     • \txtarg[\scshape]{Name}[sub] [sup] [Ext1] {Arg}[Ext2] = "NAME_SUB_EXT1(ARG)EXT2"
```

```
• \txtarg[\bfseries]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
               317 \newcommand{\txtarg}
               318 {\newtxtargsty{\txtsty}}
   \txtoarg ... to do!
                  • \txtoarg{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                  • \txtoarg[\scshape]{Name}[sub][sup][Arg] = "NAME_SUB(ARG)"
                  • \t \ [sub] [sup] [Arg] = "Name \ [sub]" [Arg] = "Name \ [sub]"
               319 \newcommand{\txtoarg}
               320 {\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[\scshape]{Name}[sub][sup][Ext1]{Par}[Ext2] = "NAME_{SUB}^{SUP}EXT1[PAR]EXT2"
                  • \txtpar[\bfseries] {Name} [sub] [sub] [Ext1] {Par} [Ext2] = "Name_sub_Ext1[Par]Ext2"
               321 \newcommand{\txtpar}
               322 {\newtxtparsty{\txtsty}}
   \txtopar ... to do!
                  • \text{txtopar{Name}[sub][sup][Par]} = \text{"Name}_{\text{sub}}^{\text{sup}}[Par]"
                  • \txtopar[\schape]{Name}[sub][sup][Par] = "NAME_{SUB}^{SUP}[PAR]"
                  • \t \ [Sub] [Sup] [Par] = "Name \ [Par]"
               323 \newcommand{\txtopar}
                    {\newtxtoparsty{\txtsty}}
    \txtsty ... to do!
               325 \newcommand{\txtsty}
                    {\mdseries\upshape\rmfamily}
               \cmdtxt ... to do!
                  • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                    \mathsf{Name}[\mathsf{sub}][\mathsf{sup}][\mathsf{Ext}] = \mathsf{Name}^{\mathsf{SUP}}_{\mathsf{SUB}}[\mathsf{Ext}]
               328 \mbox{ }\mbox{newcommand{\cmdtxt}[1]}
                    {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}
 \cmdtxtarg ... to do!
                  • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                    \texttt{\txtargNewCmd}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Arg}\}[\texttt{Ext2}] = \texttt{Name}^{\texttt{SUP}}_{\texttt{SUE}}\texttt{Ext1}(\texttt{Arg})\texttt{Ext2}
               330 \newcommand{\cmdtxtarg}[1]
                    {\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)
               332 \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_SUB_EXT1[PAR]EXT2
               334 \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]|
                                                 336 \newcommand{\cmdtxtopar}[1]
                                                                 {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}
\cmdtxtall ... to do!
                                                           • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                                                  \t Name [sub] [sup] [Ext] = Name_{SUB}^{SUP} Ext
                                                                  \txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_SUB_EXT1(ARG)EXT2
                                                                  \verb|\txtoargNewCmd{Name}[sub][sup][Arg] = \verb|\Name|^{SUP}(Arg)
                                                                  \verb|\txtoparNewCmd{Name}[sub][sup][Par] = \verb|\NAME_{SUB}^{SUP}[PAR]|
                                                 338 \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)
                                                                  • \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                                  \t \t {cmdName} {Suf} {arg} [newName]; \t \t \t {Arg} = newName (Arg)
                                                                  \t {cmdName} {Suf} {par} [newName]; \t {Par} = newName [Par]
                                                 341 \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[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                           • \newmth[mathtt] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup} Ext"
                                                 347 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                                                 {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
\newmthsty ... to do!
                                                          • \newmthsty{mathrm}{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                           • \newmthsty{mathrm}[mathsf]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                           • \newmthsty{mathrm}[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                 349 \newcommandx{\newmthsty}[2][2=]
                                                 350 {\newmth[\defval{#2}{#1}]}
\newmtharg ... to do!
                                                          • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2" | Ext2" 
                                                          • \newmtharg[mathsf] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                           • \newmtharg[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                           • \newmtharg*[mathtt]{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name _{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
```

```
351 \newcommand{\newmtharg}
                                                                                                                                                                                                               352 {\@ifstar{\@snewmtharg}{\@newmtharg}}
                                                                                                                                                                                                               353 \newcommandx{\@newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                             354 \quad {\newnth[#1] $ $ [#3] [#4] [\argmid{#5}!\eft(){#6}{\right)\arglef{\!}{#7}}] }
                                                                                                                                                                                                             355 \newcommandx{\@snewmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                                                                                                                {\newmth[#1]{#2}[#3][#4][\argmid{#5(}{#6}{)#7}]}
           \newmthargsty ... to do!
                                                                                                                                                                                                                                             • \newmthargsty{mathrm}{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                                                                                                                                                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                                                              \bullet \texttt{\newmthargsty*\{mathrm\}\{Name\}[sub][sup][Ext1]\{Arg^{\{Ex^{\{Ex\}\}}\}[Ext2]} = "Name^{\sup_{sub}}Ext1(Arg^{Ex^{Ex}})Ext2" \} } \\
                                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                                                                               357 \newcommand{\newmthargsty}
                                                                                                                                                                                                                                                                            {\@ifstar{\@snewmthargsty}{\@newmthargsty}}
                                                                                                                                                                                                               359 \newcommandx{\@newmthargsty}[2][2=]
                                                                                                                                                                                                                                                                            {\newmtharg[\defval{#2}{#1}]}
                                                                                                                                                                                                               361 \newcommandx{\@snewmthargsty}[2][2=]
                                                                                                                                                                                                                                                                        {\newmtharg*[\defval{#2}{#1}]}
                                     \newmthoarg ... to do!
                                                                                                                                                                                                                                           • \newmthoarg[mathrm] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                                                                                                                                                                                            \bullet \ \texttt{Name} \ [\texttt{Sub}] \ [\texttt{Sup}] \ [\texttt{Arg}^{\texttt{Ex}^{\texttt{Ex}}}] = \ \texttt{"Name} \ [\texttt{Arg}^{E_x^{E_x}}) "
                                                                                                                                                                                                                                              \bullet \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{\  \  } \ \texttt{
                                                                                                                                                                                                                                              \bullet \ \texttt{\ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ } \ \texttt{\ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt{\ \ \ \ \ } \ \texttt
                                                                                                                                                                                                                                             • \newmthoarg*[mathsf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{Ex})" = "Name_{sub}^{sup}(Arg^{E
                                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                               363 \newcommand{\newmthoarg}
                                                                                                                                                                                                                                                                    {\@ifstar{\@snewmthoarg}{\@newmthoarg}}
                                                                                                                                                                                                               365 \newcommandx{\Onewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                                                                  {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                                                                                             367 \newcommandx{\@snewmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                                                                                                                                                                                                    {\newmtharg*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                                                                                                                                                                                            \bullet \ \texttt{\normalform} \{\texttt{Name}\} [\texttt{sub}] [\texttt{sup}] [\texttt{Arg}^* \{\texttt{Ex}\}\}] = "\texttt{Name}^{sup}_{sub} \Big(Arg^{Ex}^{Ex}\Big) "
                                                                                                                                                                                                                                            \bullet \ \texttt{\name}_{sub}[\texttt{\name}] \ [\texttt{\name}] \ [\texttt{\name}]
                                                                                                                                                                                                                                            \bullet \verb| \newmthoargsty{mathrm}[mathtt]{Name}[sub][sup][Arg^{\{Ex^{\{Ex\}}\}}] = \verb| ``Name| ^{sup}_{sub} \Big(Arg^{Ex^{Ex}}\Big)" 
                                                                                                                                                                                                                                             • \newmthoargsty*{mathrm}{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                                                                                                                                                                                              \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } 
                                                                                                                                                                                                               369 \newcommand{\newmthoargsty}
                                                                                                                                                                                                             370 {\@ifstar{\@snewmthoargsty}{\@newmthoargsty}}
                                                                                                                                                                                                             371 \newcommandx{\@newmthoargsty}[2][2=]
                                                                                                                                                                                                                                                            {\newmthoarg[\defval{#2}{#1}]}
                                                                                                                                                                                                               373 \newcommandx{\@snewmthoargsty}[2][2=]
                                                                                                                                                                                                                                                                    {\newmthoarg*[\defval{#2}{#1}]}
                                                 \newmthpar ... to do!
```

```
• \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par^{Ex^{2}}} [Ext2] = "Name_{sub}^{sup} Ext1 \left[ Par^{Ex^{Ex}} \right] Ext2"
                                                                                                                                                      • \newmthpar[mathsf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1 \left| Par^{Ex^{Ex}} \right| Ext2"
                                                                                                                                                      \bullet \mathtt{Name}^{sup}[\mathtt{Ext1}] \\ \{\mathtt{Par}^{\mathsf{Ex}^{\mathsf{Ex}}}\} \\ [\mathtt{Ext2}] = \mathtt{``Name}^{sup}_{sub} \\ Ext1[Par^{\mathsf{Ex}^{\mathsf{Ex}}}] \\ Ext2" \\ \exists t \in [\mathtt{Ext2}] \\ [\mathtt{
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                      • \newmthpar*[mathtt]{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2"
                                                                                                                                    375 \newcommand{\newmthpar}
                                                                                                                                                                    {\@ifstar{\@snewmthpar}{\@newmthpar}}
                                                                                                                                  377 \newcommandx{\@newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                        {\text{[$4] [$4] [$4] [}42] [$4] [\argmid{$5'}\left[{\frac{46}{\right]}arglef{\'!}{$7}}]}
                                                                                                                                    379 \newcommandx{\@snewmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                                                                        {\newmth[#1]{#2}[#3][#4][\argmid{#5[}{#6}{]#7}]}
       \newmthparsty ... to do!
                                                                                                                                                      • \newmthparsty{mathrm}{Name}[sub][sup] [Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}] Ext2"
                                                                                                                                                      \bullet \verb| \newmthparsty{mathrm}[mathsf]{Name}[sub][sup][Ext1]{Par^{Ex^{2}}}[Ext2] = "Name_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2" = "Name_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2
                                                                                                                                                      \bullet \mathtt{Name}_{sub} \texttt{[Sub] [Sup] [Ext1] \{Par^{\{Ex^{\{Ex\}\}}\}} \texttt{[Ext2]} = \mathtt{``Name}_{sub}^{sup} Ext1 \texttt{[} Par^{Ex^{Ex}} \texttt{]} Ext2 \texttt{''} } \texttt{[} Ext2 \texttt{''} \texttt{[} Ext2 \texttt{''} \texttt{[} Ext2 \texttt{]} \texttt{''} \texttt{[} Ext2
                                                                                                                                                       \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ 
                                                                                                                                                      381 \newcommand{\newmthparsty}
                                                                                                                                                                            {\@ifstar{\@snewmthparsty}{\@newmthparsty}}
                                                                                                                                    383 \newcommandx{\@newmthparsty}[2][2=]
                                                                                                                                                                   {\text{\newmthpar}[\defval{#2}{#1}]}
                                                                                                                                    385 \newcommandx{\@snewmthparsty}[2][2=]
                                                                                                                                                                   {\newmthpar*[\defval{#2}{#1}]}
                       \newmthopar ... to do!
                                                                                                                                                      • \newmthopar[mathrm] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                                                                                                                                     • \newmthopar*[mathrm]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                      • \newmthopar*[mathsf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                      387 \newcommand{\newmthopar}
                                                                                                                                                                   {\@ifstar{\@snewmthopar}{\@newmthopar}}
                                                                                                                                    389 \newcommandx{\newmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                                                                              {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
                                                                                                                                  391 \newcommandx{\communication} [5] [1=, 3=, 4=, 5=]
                                                                                                                                                                   {\newmthpar*[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                                                                                     • \newmthoparsty{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                                                                                                                                      \bullet \ \texttt{\ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ } \ \texttt{\ \ \ } \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ \ } \ \texttt{\ \ \ }
                                                                                                                                                      \bullet \verb| \name | sub| [sub] [sup] [Par^{Ex^*}] = "Name | sub| [Par^{Ex^{Ex}}] = "Name | sub| [Par^{Ex}] = "Name | sub| [Par^{Ex^{Ex}}] = "Name | sub| [Par^{Ex}] = "Name | sub| [Par^{Ex^{Ex}}] = "Name | sub| [Par^{Ex}] = "Name | sub| 
                                                                                                                                                      • \newmthoparsty*{mathrm}{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
```

```
 \bullet \verb| \newmthoparsty*{mathrm}[mathtt]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]" 
                                                          393 \newcommand{\newmthoparsty}
                                                         394 {\@ifstar{\@snewmthoparsty}{\@newmthoparsty}}
                                                         395 \newcommandx{\@newmthoparsty}[2][2=]
                                                         396 \quad \{\texttt{\newmthopar[\defval{#2}{\#1}]}\}
                                                         397 \newcommandx{\@snewmthoparsty}[2][2=]
                                                                             {\newmthopar*[\defval{#2}{#1}]}
\mthsubsup ... to do!
                                                         399 \newcommand{\mthsubsup}[2]
                                                                           {\empchk{#1}{_{#1}}\empchk{#2}{^{#2}}}
                                                         \mth ... to do!
                                                                    • \mth{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                     • \mathbf{Name}_{sub}^{sup}[\mathbf{Ext}] = \mathbf{Name}_{sub}^{sup}Ext
                                                                     402 \neq 02 
                                                         403 {\newmthsty{\mthsty}}
            \mtharg ... to do!
                                                                    • \mtharg{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                                     • \mtharg[mathbf] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2"
                                                                     • \mtharg*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = "Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2"
                                                                     \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  } \texttt{\ \ }} \texttt{
                                                                     • \mtharg*[mathtt] {Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}}} [Ext2] = "Name _{sub}^{sup} Ext1(Arg^{Ex^{Ex}})Ext2"
                                                          404 \newcommand{\mtharg}
                                                                           {\@ifstar{\newmthargsty*{\mthsty}}{\newmthargsty{\mthsty}}}
                                                         405
         \mthoarg ... to do!
                                                                     \bullet \ \texttt{\ \ } [sub] [sup] [Arg^{\{Ex^{\}}\}}] = "Name^{sup}_{sub} \Big(Arg^{Ex^{Ex}}\Big)" 
                                                                    • \mthoarg[mathbf] {Name} [sub] [sup] [Arg^{Ex^{Ex}}] = "Name_{sub}^{sup} (Arg^{Ex^{Ex}})"
                                                                     \bullet \ \texttt{\normalfont{Mame}[sub][sup][Arg^{Ex^{}}Ex^{}\}]} = \texttt{\normalfont{Name}} \\ \left(Arg^{Ex^{Ex}}\right) \texttt{\normalfont{Mame}} \\ \left(Arg^{Ex}\right) \texttt{\normalfont{Mame}} \\ \left(Arg^{Ex}\right) \texttt{\normalfont{Mame}} \\ \left(Arg^
                                                                     • \mthoarg*{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                     • \mthoarg*[mathbf]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                                     • \mthoarg*[mathtt]{Name}[sub][sup][Arg^{Ex^{Ex}}] = "Name_{sub}^{sup}(Arg^{Ex^{Ex}})"
                                                          406 \newcommand{\mthoarg}
                                                                           {\@ifstar{\newmthoargsty*{\mthsty}}{\newmthoargsty{\mthsty}}}
            \mthpar ... to do!
                                                                     • \mthpar{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name^{sup}_{sub}Ext1|Par^{Ex^{Ex}}|Ext2"
                                                                     • \mthpar[mathbf] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}}} [Ext2] = "Name_{sub}^{sup} Ext1 | Par^{Ex^{Ex}}| Ext2" | Par^{Ex}| Ext2" | 
                                                                     • \mthpar[mathtt] {Name} [sub] [sup] [Ext1] {Par^{Ex^{Ex}}} [Ext2] = "Name _{sub}^{sup} Ext1 [Par^{Ex^{Ex}}] Ext2"
                                                                     • \mthpar*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = "Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2"
```

```
408 \newcommand{\mthpar}
                                       409 {\@ifstar{\newmthparsty*{\mthsty}}}{\newmthparsty{\mthsty}}}
        \mthopar ... to do!
                                              • \mthopar[mathbf] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                              • \mthopar[mathtt] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                               • \mthopar*[mathbf]{Name}[sub][sup][Par^{Ex^{Ex}}] = "Name_{sub}^{sup}[Par^{Ex^{Ex}}]"
                                               • \mthopar*[mathtt] {Name} [sub] [sup] [Par^{Ex^{Ex}}] = "Name_{sub}^{sup} [Par^{Ex^{Ex}}]"
                                       410 \newcommand{\mthopar}
                                                   {\@ifstar{\newmthoparsty*{\mthsty}}{\newmthoparsty{\mthsty}}}
           \mthsty ... to do!
                                       412 \newcommand{\mthsty}
                                       413 {}
                                       \cmdmth ... to do!
                                              • \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                   \mathbf{Name} [sub] [sup] [Ext] = \mathbf{Name}_{sub}^{sup}Ext
                                       415 \newcommand{\cmdmth}[1]
                                       416 {\csdef{mth#1}{\newmthsty{mthsty#1}}}
  \cmdmtharg ... to do!
                                              • \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                    \verb| \mathbf{Arg^{Ex^{Ex}}}| \ [\mathtt{Ext2}] = \mathtt{Name}_{sub}^{sup} Ext1 \ [\mathtt{Ext2}] = \mathtt{Name}_{sub}^{sup} Ext1 \ \Big(Arg^{Ex^{Ex}}\Big) Ext2
                                                   \verb|\mathragNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][ext1][ext2][ext2] = \verb|\mathragNewCmd*{Name}[sub][sup][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][ex
                                       417 \newcommand{\cmdmtharg}[1]
                                                  {\csdef{mtharg#1}%
                                       419
                                                             {\@ifstar{\newmthargsty*{mthsty#1}}}{\newmthargsty{mthsty#1}}}
\cmdmthoarg ... to do!
                                               • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                   \verb|\mbox| \mbox{ $\mathbb{E}_{sub}$ [sub] [sup] [Arg^{Ex^*}] = \mathbb{E}_{sub}^{sup}(Arg^{Ex^{Ex}}) } |
                                       420 \newcommand{\cmdmthoarg}[1]
                                                   {\csdef{mthoarg#1}%
                                                             {\@ifstar{\newmthoargsty*{mthsty#1}}}{\newmthoargsty{mthsty#1}}}}
                                       422
  \cmdmthpar ... to do!
                                               • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                    \verb|\mbox| $$\mathbf{Ext1} = \mathbf{Ex}^{sup} Ext1 = \mathbf{Ex}^{su
                                                   423 \newcommand{\cmdmthpar}[1]
                                                  {\csdef{mthpar#1}%
                                       425
                                                             {\@ifstar{\newmthparsty*{mthsty#1}}}{\newmthparsty{mthsty#1}}}
\cmdmthopar ... to do!
                                               • \cmdmthopar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                   \verb|\mbox| \verb|\mbox| thoparNewCmd*{\tt Name}[sub][sup][Par^{Ex^{Ex}}] = \verb|\mbox| ame | sub | [Par^{Ex^{Ex}}]
```

```
426 \newcommand{\cmdmthopar}[1]
                                                                                                                                     {\csdef{mthopar#1}%
                                                                                                       128
                                                                                                                                                        {\@ifstar{\newmthoparsty*{mthsty#1}}}\newmthoparsty{mthsty#1}}}
                   \cmdmthall ... to do!
                                                                                                                        • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                                                    \verb|\mthNewCmd{Name}[sub][sup][Ext]| = \verb|\mame| sup | Ext|
                                                                                                                                    \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \verb|\mathargNewCmd{Name}[sub][sup][ext1][Arg^{*}][ext2] = \verb|\mathargNewCmd{Name}[sub][sub][ext1][ext2][ext2] = \verb|\mathargNewCmd{Name}[sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                                                                                                                   \verb|\mbox| \verb|\mbox| | [sup] [Arg^{Ex^*}[Ex^*]] = \verb|\mbox| | [Arg^{Ex^{Ex'}}] = \verb|\mbox| | [sup] | [Arg^*(Ex^*)] = arg^*(Ex^*) = 
                                                                                                                                    \verb|\mbox| \textbf{Sub} [\textbf{Sub}] [\textbf{Sup}] [\textbf{Ext1}] \{ \texttt{Par}^{\{\texttt{Ex}^{}\}} \} [\texttt{Ext2}] = \texttt{Name}_{sub}^{sup} Ext1 \left| Par^{Ex}^{Ex} \right| Ext2 \} 
                                                                                                                                   \label{eq:local_par_exp} $$ \mathbf{Ex^{Ex}} = \mathbf{Name}_{sub}^{sup} \left[ Par^{Ex^{Ex}} \right] = \mathbf{Name}_{sub}^{sup} \left[ Par^{Ex} 
                                                                                                                                   429 \newcommand{\cmdmthall}[1]
                                                                                                                                   {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthopar{#1}\
                                                                                                       \usrmth ... to do!
                                                                                                                       • \label{suf}{Suf}{}; \cmdNameSuf = cmdName
                                                                                                                                   \verb|\arg|{Ex^{Ex}}| = cmdName \{ Arg^{Ex^{Ex}} \} \} = cmdName \{ Arg^{Ex} \} \} = cmdName \{ 
                                                                                                                                   \verb|\usrmth{cmdName}{Suf}{par}; \verb|\cmdNameSuf{Par^{Ex^{Ex}}}| = cmdName \Big[Par^{Ex^{Ex}}\Big]
                                                                                                                        • \ \ \usrmth{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                                                                                                     \verb|\usrmth{cmdName}{Suf}{arg}[newName]; \verb|\cmdNameSuf{Arg^{Ex^{Ex}}}{} = newName (Arg^{Ex^{Ex}}) = newName (Arg^{Ex^{Ex}}) = newName (Arg^{Ex^{Ex}}) = newName (Arg^{Ex}) = newN
                                                                                                                                   \verb|\cmdName| {Suf} {par} [newName]; \verb|\cmdNameSuf} {Par^{Ex^*}} = newName \Big[ Par^{Ex^{Ex}} + newName \Big] = newName \Big[ Par^{Ex^
                                                                                                       432 \mbox{ } \{\mbox{usrmth} [4] [4=]
                                                                                                                              {\csdef{#1#2}{\csname\expandafter mth#3\endcsname{\defval{#4}{#1}}}}
                                                                                                      \usrmthlatlow ... to do!
                                                                                                      435 \newcommandx{\usrmthlatlow}[4][4=]
                                                                                                      436 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
                                                                                                       437 \newcommandx{\usrmthlatupp}[4][4=]
                                                                                                                                 {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
                                                                                                       439 \newcommandx{\usrmthlatlet}[4][4=]
                                                                                                      440 \quad \{ \text{\t wsrmth} \{ \#1 \} \{ \#2 \} \{ \#3 \} [ \#4 ] \  \  \} \} \}
\usrmthgrklow ... to do!
                                                                                                      441 \newcommandx{\usrmthgrklow}[4][4=]
                                                                                                      442 {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
                                                                                                      443 \newcommandx{\usrmthgrkupp}[4][4=]
                                                                                                      444 \quad {\bf \{\{41\}\{\#2\}\{\#3\}[\#4]\} } 
\usrmthgrklet ... to do!
                                                                                                      445 \newcommandx{\usrmthgrklet}[4][4=]
                                                                                                      446 \{ \text{usrmth} \{ \#1 \} \{ \#3 \} [ \#4 ] \ seqofgrklet \{ \#1 \#2 \} \{ \#3 \} \} \}
```

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\usrmthlow ... to do!
                                                 447 \newcommandx{\usrmthlow}[4][4=]
                                                 448 {\usrmth{#1}{#2}{#3}[#4]\seqoflow{#1#2}{mth#3}}
            \usrmthupp ... to do!
                                                 449 \newcommandx{\usrmthupp}[4][4=]
                                                             {\usrmth{#1}{#2}{#3}[#4]\seqofupp{#1#2}{mth#3}}
            \usrmthlet ... to do!
                                                 451 \newcommandx{\usrmthlet}[4][4=]
                                                 452 {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
                                                 457 \iftxtgen@
     \txtdef, ... to do!
                                                         ullet \txtdef{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                         ullet \txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                                          ullet \txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1/Par/Ext2
                                                  458 %% Style for Definitions
                                                 459 \verb|\def|\def| \\ \label{txtstydef} \\ \def| \\ \def|
            \cmdtxtdef ... to do!
                                                         \cmdtxtdef{cmdName};
                                                              \colon colon col
                                                          • \cmdtxtdef{cmdName}[newName];
                                                              \verb|\cmdName[sub][sub][ext]| = newName_{sub}^{sub}ext
                                                  460 \newcommandx{\cmdtxtdef}[2][2=]
                                                             {\usrtxt{#1}{}{def}[#2]}
  \cmdtxtargdef ... to do!
                                                         • \cmdtxtargdef{cmdName};
                                                              \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                          • \cmdtxtargdef{cmdName}[newName];
                                                              \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName_{sub}^{sub}ext1(arg)ext2|
                                                  462 \newcommandx{\cmdtxtargdef}[2][2=]
                                                 463 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                                                         • \cmdtxtoargdef{cmdName};
                                                              \cmdName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                          \cmdtxtoargdef{cmdName}[newName];
                                                              \verb|\cmdName[sub][sub][arg]| = newName_{sub}^{sub}(arg)
                                                  464 \newcommandx{\cmdtxtoargdef}[2][2=]
                                                  465 {\usrtxt{#1}{}{oargdef}[#2]}
  \cmdtxtpardef ... to do!
                                                          \cmdtxtpardef{cmdName};
                                                              \cmdName[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1/par]ext2
                                                          • \cmdtxtpardef{cmdName}[newName];
                                                              \cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1/par]ext2
                                                  466 \newcommandx{\cmdtxtpardef}[2][2=]
                                                 467 {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
```

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\cmdtxtopardef{cmdName};
                       \verb|\cmdName[sub][sub][par]| = cmdName_{sub}^{sub}/par|
                     \cmdtxtopardef{cmdName}[newName];
                       \cmdName[sub][sub][par] = newName_{sub}^{sub}/par
                  468 \newcommandx{\cmdtxtopardef}[2][2=]
                       {\usrtxt{#1}{}{opardef}[#2]}
  \txtabr, ... to do!
                     ullet \txtabr{Name} [sub] [sup] [Ext] = Name_{
m sub}^{
m sup} Ext
                     • \txtargabr{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{sub}^{sup} Ext1(Arg)Ext2
                     • \txtparabr{Name} [sub] [sup] [Ext1] {Par} [Ext2] = Name_{\mathrm{sub}}^{\mathrm{sup}} Ext1[Par]Ext2
                  470 %% Style for Abbreviations
                  471 \cmdtxtall{abr}\newcommand{\txtstyabr}{\cm}
    \cmdtxtabr ... to do!
                     • \cmdtxtabr{cmdName};
                       \verb|\cmdName[sub][sub][ext]| = cmdName_{\rm sub}^{\rm sub}ext
                     • \cmdtxtabr{cmdName}[newName];
                       \verb|\cmdName[sub][sub][ext]| = newName_{\rm sub}^{\rm sub}ext
                  472 \newcommandx{\cmdtxtabr}[2][2=]
                  473 {\usrtxt{#1}{}{abr}[#2]}
 \c to do!
                     • \cmdtxtargabr{cmdName};
                       \cmdName[sub][sub][ext1]{arg}[ext2] = cmdName[sub]ext1(arg)ext2
                     • \cmdtxtargabr{cmdName} [newName];
                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName^{\text{sub}}_{\text{sub}}ext1(arg)ext2
                  474 \newcommandx{\cmdtxtargabr}[2][2=]
                  475 {\usrtxt{#1}{}{argabr}[#2]}
\cmdtxtoargabr ... to do!
                     \cmdtxtoargabr{cmdName};
                       \colon dName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                     • \cmdtxtoargabr{cmdName}[newName];
                       \cmdName[sub] [sub] [arg] = newName_{\text{sub}}^{\text{sub}}(arg)
                  476 \newcommandx{\cmdtxtoargabr}[2][2=]
                       {\usrtxt{#1}{}{oargabr}[#2]}
 \cmdtxtparabr ... to do!
                     • \cmdtxtparabr{cmdName};
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName^{\text{sub}}_{\text{sub}}ext1/par|ext2
                     \cmdtxtparabr{cmdName} [newName];
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName_{sub}^{sub}ext1/par|ext2
                  478 \newcommandx{\cmdtxtparabr}[2][2=]
                      {\usrtxt{#1}{}{parabr}[#2]}
\cmdtxtoparabr ... to do!
                     • \cmdtxtoparabr{cmdName};
                       \cmdName[sub][sub][par] = cmdName_{\text{sub}}^{\text{sub}}/par
                     \cmdtxtoparabr{cmdName}[newName];
                       \cmdName[sub][sub][par] = newName_{\text{sub}}^{\text{sub}}/par
                  480 \newcommandx{\cmdtxtoparabr}[2][2=]
                       {\usrtxt{#1}{}{oparabr}[#2]}
                  \txtname, ... to do!
```

```
• \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}_{\text{SUB}}^{\text{SUP}}\text{Ext}
                        • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                        • \text{txtparname}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext1}]\{\text{Par}\}[\text{Ext2}] = \text{Name}_{\text{SUB}}^{\text{SUP}} \text{Ext1}[\text{Par}] \text{Ext2}
                     483 %% Style for Names
                     484 \cmdtxtall{name}\newcommand{\txtstyname}{\normalfont\mdseries\scshape\sffamily}
     \cmdtxtname ... to do!
                        • \cmdtxtname{cmdName};
                          \verb|\cmdName[sub][sub][ext]| = CMDNAME_{SUB}^{SUB}EXT
                        • \cmdtxtname{cmdName}[newName];
                          \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]| = \verb|\cmdName[sub][sub][ext]|
                     485 \newcommandx{\cmdtxtname}[2][2=]
                          {\usrtxt{#1}{}{name}[#2]}
 \cmdtxtargname ... to do!
                        • \cmdtxtargname{cmdName};
                          \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = CMDNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                        • \cmdtxtargname{cmdName}[newName];
                          487 \newcommandx{\cmdtxtargname}[2][2=]
                     488 {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
                        • \cmdtxtoargname{cmdName};
                          \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                        \cmdtxtoargname{cmdName} [newName];
                          \colon = NEWNAME_{SUB}^{SUB}(ARG)
                     489 \newcommandx{\cmdtxtoargname}[2][2=]
                          {\usrtxt{#1}{}{oargname}[#2]}
 \cmdtxtparname ... to do!
                        \cmdtxtparname{cmdName};
                          \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1][par][ext2]} = \operatorname{CMDNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1[par]EXT2} $$
                        • \cmdtxtparname{cmdName}[newName];
                          491 \newcommandx{\cmdtxtparname}[2][2=]
                          {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname ... to do!
                        • \cmdtxtoparname{cmdName};
                          \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR]
                        \cmdtxtoparname{cmdName} [newName];
                          \colon = NEWNAME_{SUB}^{SUB}[PAR]
                     493 \newcommandx{\cmdtxtoparname}[2][2=]
                     494 {\usrtxt{#1}{}{oparname}[#2]}
   \txtcom, ... to do!
                        • \text{txtcom{Name}[sub][sup][Ext]} = \text{Name}_{\text{Sup}}^{\text{SUP}} \text{Ext}
                        • \t xtargcom{Name}[sub][sup][Ext1]{Arg}[Ext2] = NAME_{SUB}^{SUP}EXT1(ARG)EXT2
                        • \text{txtparcom{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{Name}_{\text{SUB}}^{\text{SUP}} \text{Ext1}[Par] \text{Ext2}
                     495 %% Style for Complexities
                     496 \cmdtxtall{com}\newcommand{\txtstycom}{\normalfont\mdseries\scshape\rmfamily}
     \cmdtxtcom ... to do!
                        \cmdtxtcom{cmdName};
                          \verb|\cmdName[sub][sub][ext]| = \texttt{CMDNAME}^{\texttt{SUB}}_{\texttt{SUB}} \texttt{EXT}
```

```
\cmdtxtcom{cmdName} [newName];
                                                                                  \cmdName[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                                                 497 \newcommandx{\cmdtxtcom}[2][2=]
                                                                                  {\usrtxt{#1}{}{com}[#2]}
   \cmdtxtargcom ... to do!
                                                                           • \cmdtxtargcom{cmdName};
                                                                                  \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName[sub][sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2] = \verb|\cmdName[sub][ext1][ext2][ext2] = \verb|\cmdName[sub][ext2][ext2][ext2][ext2][ext2][ext2] = \verb|\cmdName[sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2]
                                                                           • \cmdtxtargcom{cmdName} [newName];
                                                                                  \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][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][e
                                                                 499 \newcommandx{\cmdtxtargcom}[2][2=]
                                                                                  {\usrtxt{#1}{}{argcom}[#2]}
\cmdtxtoargcom ... to do!
                                                                           • \cmdtxtoargcom{cmdName};
                                                                                  \colon 
                                                                           • \cmdtxtoargcom{cmdName}[newName];
                                                                                  \verb|\cmdName[sub][sub][arg]| = NEWNAME_{SUB}^{SUB}(ARG)
                                                                 501 \newcommandx{\cmdtxtoargcom}[2][2=]
                                                                 502 {\usrtxt{#1}{}{oargcom}[#2]}
   \cmdtxtparcom ... to do!
                                                                           • \cmdtxtparcom{cmdName};
                                                                                  \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1][par][ext2]} = \operatorname{CMDNAME}_{\operatorname{SUB}}^{\operatorname{SUB}} \operatorname{EXT1[par]EXT2} $$
                                                                           • \cmdtxtparcom{cmdName}[newName];
                                                                                  503 \newcommandx{\cmdtxtparcom}[2][2=]
                                                                               {\usrtxt{#1}{}{parcom}[#2]}
\cmdtxtoparcom ... to do!
                                                                           • \cmdtxtoparcom{cmdName};
                                                                                  \cmdName[sub][sub][par] = CMDNAME_{SUB}^{SUB}[PAR]
                                                                           • \cmdtxtoparcom{cmdName}[newName];
                                                                                  \cmdName[sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                                                  505 \newcommandx{\cmdtxtoparcom}[2][2=]
                                                                                 {\usrtxt{#1}{}{oparcom}[#2]}
                                                                 507\fi
                                                                 512 \ifmthgen@
    \mthname, ... to do!
                                                                           • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                                                                           • \mthparname{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                           • \mthparname*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                  513 %% Style for Names
                                                                 514 \mbox{ \newcommand{\mbstyname}{\mathbb{}}} \
           \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}
                                                                 515 \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
                                                                            516 \newcommandx{\cmdmthname}[2][2=]
                                                                            517 {\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];
                                                                                             \verb|\cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}^{sub}_{sub}ext1(arg)ext2
                                                                            518 \newcommandx{\cmdmthargname}[2][2=]
                                                                                             {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                                                                                       \cmdmthoargname{CMDNAME};
                                                                                             \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                                                                                       • \cmdmthoargname{cmdName}[NEWNAME];
                                                                                              \colon {\tt CmdNameName[sub][sub][arg]} = \mathcal{NEWNAME}^{sub}_{sub}(arg)
                                                                            520 \newcommandx{\cmdmthoargname}[2][2=]
                                                                                            {\usrmth{#1}{Name}{oargname}[#2]}
    \cmdmthparname ... to do!
                                                                                      • \cmdmthparname{CMDNAME};
                                                                                              \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
                                                                            522 \newcommandx{\cmdmthparname}[2][2=]
                                                                                             {\usrmth{#1}{Name}{parname}[#2]}
\cmdmthoparname ... to do!
                                                                                       \cmdmthoparname{CMDNAME};
                                                                                              \verb|\CMDNAMEName[sub][sub][par]| = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                                       • \cmdmthoparname{cmdName}[NEWNAME];
                                                                                              \cmdNameName[sub] [sub] [par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                                                            524 \newcommandx{\cmdmthoparname}[2][2=]
                                                                                            {\usrmth{#1}{Name}{oparname}[#2]}
            \mthfam, ... to do!
                                                                                      • \mthfam{NAME}[sub][sup][Ext] = \mathcal{N} \mathcal{A} \mathcal{M} \mathcal{E}_{sub}^{sup} Ext
                                                                                      \bullet \  \, \texttt{\  \, } \\ \texttt{
                                                                                       • \mthargfam*{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                      \bullet \  \, \texttt{\baselinestylembers} \  \, \texttt{\baselinestylembers
                                                                                       • \mthparfam*{NAME}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                            526 %% Style for Families
                                                                           527 \mbox{ \cmdmthall{fam}\newcommand{\mbox{\mbox{\cm}mthstyfam}{\mbox{\cm}mathscr}}
                                                                        \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{F}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                                                            528 \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
                                              529 \newcommandx{\cmdmthfam}[2][2=]
                                              530 {\usrmth{#1}{Fam}{fam}[#2]}
  \cmdmthargfam ... to do!
                                                     • \cmdmthargfam{CMDNAME};
                                                         \CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][sub][ext1]
                                                     • \cmdmthargfam{cmdName}[NEWNAME];
                                                          \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathscr{NEWNAME}_{sub}^{sub}ext1(arg)ext2
                                              531 \newcommandx{\cmdmthargfam}[2][2=]
                                              532 {\usrmth{#1}{Fam}{argfam}[#2]}
\cmdmthoargfam ... to do!
                                                     • \cmdmthoargfam{CMDNAME};
                                                          \CMDNAMEFam[sub][sub][arg] = \mathscr{CMDNAMEFam}[sub](arg)
                                                     • \cmdmthoargfam{cmdFam}[NEWNAME];
                                                         \cmbox{cmdFamFam[sub] [sub] [arg]} = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                                              533 \newcommandx{\cmdmthoargfam}[2][2=]
                                                          {\usrmth{#1}{Fam}{oargfam}[#2]}
  \cmdmthparfam ... to do!
                                                     • \cmdmthparfam{CMDNAME};
                                                         \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par]ext2
                                                     • \cmdmthparfam{cmdName}[NEWNAME];
                                                         \verb|\cmdNameFam[sub][sub][ext1]{par}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1[par]ext2
                                              535 \newcommandx{\cmdmthparfam}[2][2=]
                                                         {\usrmth{#1}{Fam}{parfam}[#2]}
\cmdmthoparfam ... to do!
                                                     \cmdmthoparfam{CMDNAME};
                                                         \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                                                     \cmdmthoparfam{cmdFam} [NEWNAME];
                                                         \verb|\cmdFamFam[sub][sub][par]| = \mathcal{NEWNAME}_{sub}^{sub}[par]|
                                              537 \newcommandx{\cmdmthoparfam}[2][2=]
                                              538 {\usrmth{#1}{Fam}{oparfam}[#2]}
     \mthcls, ... to do!
                                                     • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                                                     • \mthargcls{NAME}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = NAME_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                     \bullet \  \  \, \texttt{`mthargcls*{NAME}[sub][sup][Ext1]{Arg^{Ex^{*}}}[Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2 = \mathcal{NAME}^{sup}_{sub}Ext2(Arg^{Ex^{Ex}})Ext2 = \mathcal{NAME}^{sub}Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex
                                                     \bullet \  \  \, \texttt{ \mthparcls{NAME}[sub][sub][Ext1]{Par^{Ex^*}[Ext2]}} = \mathcal{NAME}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathcal{NAME}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big]
                                                     539 %% Style for Classes
                                              540 \mbox{ \cmdmthall{cls}\newcommand{\mbox{\mbox{\cmthstycls}}{\mbox{\mbox{\cmtheus}}}}
           \ACls, ... to do!
                                           \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                                              541 \seqoflatupp{Cls}{mthcls}
           \cmdmthcls ... to do!
                                                     • \cmdmthcls{CMDNAME};
                                                          \CMDNAMEC1s[sub][sub][ext] = {\it CMDNAME}^{sub}_{sub}ext
```

```
\cmdmthcls{cmdName}[NEWNAME];
                                                                                                         \cmbox{\cmbox{cmdNameCls[sub][sub][ext]}} = \mathcal{NEWNAME}_{sub}^{sub} ext
                                                                                   542 \newcommandx{\cmdmthcls}[2][2=]
                                                                                                     {\usrmth{#1}{Cls}{cls}[#2]}
    \cmdmthargcls ... to do!
                                                                                               • \cmdmthargcls{CMDNAME};
                                                                                                         \verb|\CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \verb|\CMDNAME| subext1(arg)ext2|
                                                                                                • \cmdmthargcls{cmdName}[NEWNAME];
                                                                                                         \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = \verb|\cmloss{NEWNAME}| subset | s
                                                                                   544 \newcommandx{\cmdmthargcls}[2][2=]
                                                                                  545 {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                                                                                               • \cmdmthoargcls{CMDNAME};
                                                                                                        \verb|\CMDNAMECls[sub][sub][arg]| = \verb|\CMDNAME| e^{sub}_{sub}(arg)
                                                                                                \cmdmthoargcls{cmdCls}[NEWNAME];
                                                                                                        \verb|\cmdClsCls[sub][sub][arg]| = NEWNAME_{sub}^{sub}(arg)
                                                                                    546 \newcommandx{\cmdmthoargcls}[2][2=]
                                                                                   547 {\usrmth{#1}{Cls}{oargcls}[#2]}
    \cmdmthparcls ... to do!
                                                                                               • \cmdmthparcls{CMDNAME};
                                                                                                        \CMDNAMECls[sub][sub][ext1]{par}[ext2] = \text{CMDNAME}_{sub}^{sub}ext1[par]ext2
                                                                                                • \cmdmthparcls{cmdName}[NEWNAME];
                                                                                                        \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1|par|ext2|
                                                                                   548 \newcommandx{\cmdmthparcls}[2][2=]
                                                                                   549 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                                                                                               • \cmdmthoparcls{CMDNAME};
                                                                                                        \CMDNAMECls[sub][sub][par] = \mathcal{CMDNAME}_{sub}^{sub}[par]
                                                                                                \cmdmthoparcls{cmdCls}[NEWNAME];
                                                                                                        \cmdClsCls[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                                                                                    550 \newcommandx{\cmdmthoparcls}[2][2=]
                                                                                                     {\usrmth{#1}{Cls}{oparcls}[#2]}
         \mthsig, ... to do!
                                                                                               • \mthsig{Name}[sub][sup][Ext] = \mathcal{N}ame_{sub}^{sup}Ext
                                                                                                • \mthargsig{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                 \bullet \verb| \t Par^{Ex^*}| Ext2] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = \mathcal{N} ame_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex} \Big] Ext2
                                                                                                \bullet \  \  \, \texttt{\bare} = \texttt{\bare} =
                                                                                   552 %% Style for Signatures
                                                                                  553 \cmdmthall{sig}\newcommand{\mthstysig}{\mathpzc}
                   \aSig, ... to do!
                                                                               a,\ b,\ c,\ d,\ e,\ f,\ g,\ h,\ i,\ j,\ k,\ l,\ m,\ n,\ o,\ p,\ q,\ r,\ s,\ t,\ u,\ v,\ w,\ \chi,\ y,\ z
                                                                               \mathcal{A},~\mathcal{B},~\mathcal{C},~\mathcal{D},~\mathcal{E},~\mathcal{F},~\mathcal{G},~\mathcal{H},~I,~\mathcal{I},~\mathcal{K},~\mathcal{L},~\mathcal{M},~\mathcal{N},~\mathcal{O},~\mathcal{P},~\mathcal{Q},~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~\mathcal{X},~\mathcal{Y},~\mathcal{Z}
                                                                               \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, \sigma, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                                                  554 \seqoflatlet{Sig}{mthsig}\seqofgrklow{Sig}{mthsig}
                   \cmdmthsig ... to do!
                                                                                               • \cmdmthsig{cmdName};
                                                                                                        \colon d [sub] [sub] [ext] = cmdName_{sub}^{sub}ext
```

```
• \cmdmthsig{cmdName}[NewName];
                                                                                                                                                                               \verb|\cmdNameSig[sub][sub][ext]| = \textit{NewName}_{sub}^{sub} ext
                                                                                                                                            555 \newcommandx{\cmdmthsig}[2][2=]
                                                                                                                                                                              {\usrmth{#1}{Sig}{sig}[#2]}
        \cmdmthargsig ... to do!
                                                                                                                                                                  \cmdmthargsig{cmdName};
                                                                                                                                                                                \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{cmdName}_{sub}^{sub}ext1(arg)ext2
                                                                                                                                                                  • \cmdmthargsig{cmdName}[NewName];
                                                                                                                                                                                \colone{line} 
                                                                                                                                            557 \newcommandx{\cmdmthargsig}[2][2=]
                                                                                                                                                                              {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                                                                                                                                                                  \cmdmthoargsig{cmdName};
                                                                                                                                                                               \colon = cmdNameSig[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                                                                                                  \cmdmthoargsig{cmdSig}[NewName];
                                                                                                                                                                               \colored{cmdSigSig[sub][sub][arg]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}(arg)
                                                                                                                                              559 \newcommandx{\cmdmthoargsig}[2][2=]
                                                                                                                                                                          {\usrmth{#1}{Sig}{oargsig}[#2]}
        \cmdmthparsig ... to do!
                                                                                                                                                                • \cmdmthparsig{cmdName};
                                                                                                                                                                               \cmdNameSig[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                                                                                                  • \cmdmthparsig{cmdName}[NewName];
                                                                                                                                                                               \verb|\cmdNameSig[sub][sub][ext1]{par}[ext2] = \textit{NewName}^{sub}_{sub}ext1[par]ext2
                                                                                                                                              561 \newcommandx{\cmdmthparsig}[2][2=]
                                                                                                                                            562 {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                                                                                                                                                                • \cmdmthoparsig{cmdName};
                                                                                                                                                                               \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                                                                                                  • \cmdmthoparsig{cmdSig}[NewName];
                                                                                                                                                                               \cmdSigSig[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                                                                                                                                              563 \newcommandx{\cmdmthoparsig}[2][2=]
                                                                                                                                           564 {\usrmth{#1}{Sig}{oparsig}[#2]}
                \mthstr, ... to do!
                                                                                                                                                                • \mthstr{Name}[sub][sup][Ext] = \mathfrak{Name}_{sub}^{sup}Ext
                                                                                                                                                                \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \  }} \texttt{\ \ \ }} \texttt{\ \  \ } \texttt{\ \  }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \  \ }} \texttt{\ \  \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \  }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \  }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \  }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \  \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{
                                                                                                                                                                  \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\  }} \texttt{\ \ }} \texttt{\  } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ }} \texttt{\ \ }
                                                                                                                                                                \bullet \ \texttt{\begin{tabular}{l} $\setminus$ $\mathbb{E}x$} \ \texttt{\begin{tabular}{l} $\mathbb{E}x$} \ \texttt{\begin{tabular}{l}
                                                                                                                                                                  \bullet \  \  \, \texttt{\bare}[sub][sup][Ext1] \{ Par^{Ex^{Ex}} \} \} [Ext2] = \mathfrak{Name}^{sup}_{sub} Ext1 [Par^{Ex^{Ex}}] Ext2 = \mathfrak{Name}^{sub}_{sub} Ext2 = \mathfrak{Name}^{
                                                                                                                                            565 %% Style for Structures
                                                                                                                                           566 \cmdmthall{str}\newcommand{\mthstystr}{\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{x},\ \mathfrak{y},\ \mathfrak{z}
                                                                                                                                      \mathfrak{A}, \mathfrak{B}, \mathfrak{C}, \mathfrak{D}, \mathfrak{E}, \mathfrak{F}, \mathfrak{G}, \mathfrak{H}, \mathfrak{I}, \mathfrak{I}, \mathfrak{K}, \mathfrak{L}, \mathfrak{M}, \mathfrak{N}, \mathfrak{D}, \mathfrak{P}, \mathfrak{Q}, \mathfrak{R}, \mathfrak{G}, \mathfrak{T}, \mathfrak{U}, \mathfrak{W}, \mathfrak{X}, \mathfrak{Y}, \mathfrak{Z}
                                                                                                                                      \alpha, \, \beta, \, \gamma, \, \delta, \, \epsilon, \, \varepsilon, \, \zeta, \, \eta, \, \theta, \, \vartheta, \, \iota, \, \kappa, \, \varkappa, \, \lambda, \, \mu, \, \nu, \, \xi, \, \mathfrak{o}, \, \pi, \, \varpi, \, \rho, \, \varrho, \, \sigma, \, \varsigma, \, \tau, \, \upsilon, \, \phi, \, \varphi, \, \chi, \, \psi, \, \omega
                                                                                                                                           567 \ensuremath{\mbox{Str}{mthstr}}\ensuremath{\mbox{seqofgrklow}{Str}{mthstr}}
                                 \cmdmthstr ... to do!
                                                                                                                                                                • \cmdmthstr{cmdName};
                                                                                                                                                                               \colon d [sub] [sub] [ext] = cmd 	ext{Mame}_{sub}^{sub} ext
```

```
• \cmdmthstr{cmdName} [NewName];
                                                                         \colon d \cmdNameStr[sub] [sub] [ext] = \mathfrak{NewName}_{sub}^{sub}ext
                                                          568 \newcommandx{\cmdmthstr}[2][2=]
                                                                        {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                                  • \cmdmthargstr{cmdName};
                                                                        \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = \verb|\cmdMame$^{sub}_{sub}| ext1(arg)ext2
                                                                  • \cmdmthargstr{cmdName}[NewName];
                                                                        \cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                          570 \newcommandx{\cmdmthargstr}[2][2=]
                                                                      {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                  • \cmdmthoargstr{cmdName};
                                                                        \colon d [sub] [sub] [arg] = cmd Mame_{sub}^{sub}(arg)
                                                                   • \cmdmthoargstr{cmdStr}[NewName];
                                                                        \colored \
                                                          572 \newcommandx{\cmdmthoargstr}[2][2=]
                                                          573 {\usrmth{#1}{Str}{oargstr}[#2]}
   \cmdmthparstr ... to do!
                                                                  • \cmdmthparstr{cmdName};
                                                                        \label{eq:cmdNameStr} $$ \operatorname{sub}[\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmd} \operatorname{\mathfrak{Name}}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                                                                   • \cmdmthparstr{cmdName}[NewName];
                                                                        \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                          574 \newcommandx{\cmdmthparstr}[2][2=]
                                                                        {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                  • \cmdmthoparstr{cmdName};
                                                                        \cmdNameStr[sub] [sub] [par] = cmdName_{sub}^{sub}[par]
                                                                   • \cmdmthoparstr{cmdStr}[NewName];
                                                                         \cmdStrStr[sub][sub][par] = \mathfrak{NewName}_{sub}^{sub}[par]
                                                          576 \newcommandx{\cmdmthoparstr}[2][2=]
                                                                        {\usrmth{#1}{Str}{oparstr}[#2]}
      \mthset, ... to do!
                                                                  • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                   • \mthargset{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                   • \mthargset*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                  \bullet \  \, \texttt{Name}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}] \\ \{\texttt{Par}^{\{\texttt{Ex}^{}\}}\}[\texttt{Ext2}] \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \texttt{Name}^{sup}_{sub} Ext2 \\ = \  \, \texttt{Name}^{sub}_{sub} Ext2 \\ = \  \, \texttt{Nam
                                                                   578 %% Style for Sets
                                                         579 \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
                                                         580 \seqoflet{Set}{mthset}
             \cmdmthset ... to do!
                                                                   \cmdmthset{cmdName};
                                                                         \verb|\cmdNameSet[sub][sub][ext]| = cmdName_{sub}^{sub}ext
```

```
• \cmdmthset{cmdName}[NewName];
                                                                                                     \colon = NewName_{sub}^{sub} = NewName_{sub}^{sub} ext
                                                                                581 \newcommandx{\cmdmthset}[2][2=]
                                                                                                    {\usrmth{#1}{Set}{set}[#2]}
    \cmdmthargset ... to do!
                                                                                             \cmdmthargset{cmdName};
                                                                                                     \colored Name Set [sub] [sub] [ext1] {arg} [ext2] = cmd Name {sub \atop sub} ext1 (arg) ext2
                                                                                             • \cmdmthargset{cmdName}[NewName];
                                                                                                     \colored {\tt CmdNameSet[sub][sub][ext1]{arg}[ext2] = NewName}_{sub}^{sub}ext1(arg)ext2
                                                                                583 \mbox{ \cmdmthargset}[2][2=]
                                                                                                 {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                                                                                             \cmdmthoargset{cmdName};
                                                                                                    \verb|\cmdNameSet[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                                                                             • \cmdmthoargset{cmdSet}[NewName];
                                                                                                     \colon = NewName_{sub}^{sub}(arg)
                                                                                 585 \newcommandx{\cmdmthoargset}[2][2=]
                                                                                                 {\usrmth{#1}{Set}{oargset}[#2]}
    \cmdmthparset ... to do!
                                                                                            • \cmdmthparset{cmdName};
                                                                                                    \cmdNameSet[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|
                                                                                 587 \newcommandx{\cmdmthparset}[2][2=]
                                                                                                 {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                                                                                            • \cmdmthoparset{cmdName}:
                                                                                                    \cmdNameSet[sub][sub][par] = \operatorname{cmdName}_{sub}^{sub}[par]
                                                                                             • \cmdmthoparset{cmdSet}[NewName];
                                                                                                    \colon dSetSet[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                                 589 \newcommandx{\cmdmthoparset}[2][2=]
                                                                                                 {\usrmth{#1}{Set}{oparset}[#2]}
    \cmdmthsetext ... to do!
                                                                                591 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                                                                                      {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                                                                                         \usrmthlet{\thestring}{Sym}{sym}
                                                                                                                    [\defval{#3}{\defval{\empchk{#2}}{\lowercase{#2}}}{\thestring}}]%
                                                                                                         \usrmthlet{\thestring}{Elm}{elm}
                                                                                596
                                                                                                                    [\defval{#3}{\defval{\empchk{#2}}{\defval{}}}]
         \mthrel, ... to do!
                                                                                            • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                           \bullet \  \  \, \texttt{\bary}[Sub][Sub][Sub][Ext1] \\ \{ \texttt{Arg}^{\{}(Ex^{\}}) \} \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext1 \\ \Big( Arg^{Ex^{Ex}} \Big) \\ Ext2 \\ [Ext2] = Name_{sub}^{sup} Ext2 \\ [Ext
                                                                                             • \mthargrel*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                            \bullet \ \texttt{\normalfont{Mame}[sub][sub][Ext1][Par^{Ex^{}}]} \ [\texttt{Ext2}] = Name_{sub}^{sup} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 = Name_{sub}^{sup} Ext2 = Name_{sub}^{sub} Ext2 = Name
                                                                                             \bullet \  \  \, \texttt{\bare} = Name \} [\texttt{sub}] [\texttt{sup}] [\texttt{Ext1}] \{ \texttt{Par} \\ \texttt{\bare} = Start \} \} [\texttt{Ext2}] \\ = Name \\ sub \\ \texttt{\bare} = Start \\ \texttt{\bare} =
                                                                                597 %% Style for Relations
                                                                                598 \mbox{\cmdmthall{rel}\newcommand{\mbox{\mbox{\cmthstyrel}}{\mbox{\cmdmthit}}}
```

```
\aRel, ... to do!
                                                                       a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                                       A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                                                                       \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\,o,\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                                       A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\varSigma,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                                                                          599 \seqoflet{Rel}{mthrel}
                 \cmdmthrel ... to do!
                                                                                     • \cmdmthrel{cmdName};
                                                                                             \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                                      • \cmdmthrel{cmdName}[NewName];
                                                                                             \verb|\cmdNameRel[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                                                           600 \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
                                                                           602 \newcommandx{\cmdmthargrel}[2][2=]
                                                                          603 {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                                                                                     • \cmdmthoargrel{cmdName}:
                                                                                             \cmdNameRel[sub][sub] [arg] = cmdName_{sub}^{sub}(arg)
                                                                                      • \cmdmthoargrel{cmdRel}[NewName];
                                                                                             \colon dRelRel[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                                           604 \newcommandx{\cmdmthoargrel}[2][2=]
                                                                                          {\usrmth{#1}{Rel}{oargrel}[#2]}
    \cmdmthparrel ... to do!
                                                                                     • \cmdmthparrel{cmdName};
                                                                                             \cmdNameRel[sub][sub][ext1]\{par\}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                                      • \cmdmthparrel{cmdName}[NewName];
                                                                                             \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                           606 \newcommandx{\cmdmthparrel}[2][2=]
                                                                                           {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to \mathrm{do}!
                                                                                     • \cmdmthoparrel{cmdName};
                                                                                             \cmdNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                                      • \cmdmthoparrel{cmdRel}[NewName];
                                                                                             \colone{local} \col
                                                                          608 \newcommandx{\cmdmthoparrel}[2][2=]
                                                                                             {\usrmth{#1}{Rel}{oparrel}[#2]}
        \mthfun, ... to do!
                                                                                     \bullet \ \  \  \, \texttt{Name} \texttt{[sub][sup][Ext]} = \mathsf{Name}^{sup}_{sub} Ext
                                                                                      • \mthargfun{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                                                                    \bullet \  \  \, \texttt{Name}[sub][sup][Ext1]\{Arg^{\{Ex^{\{Ex\}}\}}[Ext2] = \mathsf{Name}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2] = \mathsf{Name}^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2 = \mathsf{Name}^{sup}_{sub}Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex^{Ex}})Ext2(Arg^{Ex
                                                                                     \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{*}}]Ext2]} = \mathsf{\bar{Name}}^{sup}_{sub}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathsf{\bar{Name}}^{sup}_{sub}Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathsf{\bar{Name}}^{sup}_{sub}Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[P
                                                                                      • \mthparfun*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                                           610 %% Style for Functions
                                                                          611 \mbox{ \cmdmthall{fun}\newcommand{\mbox{\cmthstyfun}{\mbox{\cmthsf}}}
```

```
\aFun, ... to do!
                                                       a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                       A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                       \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                                                       A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                         612 \seqoflet{Fun}{mthfun}
             \cmdmthfun ... to do!
                                                                  • \cmdmthfun{cmdName};
                                                                        \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub}ext|
                                                                   • \cmdmthfun{cmdName} [NewName];
                                                                         \cmdNameFun[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                           613 \newcommandx{\cmdmthfun}[2][2=]
                                                          614 {\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];
                                                                         \verb|\cmdNameFun[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                          615 \newcommandx{\cmdmthargfun}[2][2=]
                                                          616 {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                                                  • \cmdmthoargfun{cmdName};
                                                                        \verb|\cmdNameFun[sub][sub][arg]| = \verb|\cmdNameFun[sub][arg]| = \verb|\cmdNameFun[sub][sub]|
                                                                   • \cmdmthoargfun{cmdFun}[NewName];
                                                                        \colon 
                                                           617 \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}_{sub}ext1[par]ext2
                                                           619 \newcommandx{\cmdmthparfun}[2][2=]
                                                                        {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to \mathrm{do}!
                                                                  • \cmdmthoparfun{cmdName};
                                                                         \cmdNameFun[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                   • \cmdmthoparfun{cmdFun} [NewName];
                                                                        \cmbox{cmdFunFun[sub] [sub] [par]} = NewName_{sub}^{sub}[par]
                                                          621 \newcommandx{\cmdmthoparfun}[2][2=]
                                                          622 {\usrmth{#1}{Fun}{oparfun}[#2]}
      \mbox{\em mthsym}, ... to do!
                                                                  • \mathbb{E}_{sub}[Sub][Sup][Ext] = \mathbb{E}_{sub}Ext
                                                                   • \mthargsym{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                  • \mthargsym*{Name}[sub][sup][Ext1]{Arg^{Ex^{}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                  \bullet \  \, \texttt{\bar{Ext1}[Ext1][Ext1][Ext2]} = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big] = \mathtt{Name}_{sub}^{sup}Ext1\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex^{Ex}}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}\Big]Ext2\Big[Par^{Ex}}\Big]Ext2\Big[Par^{Ex}}\Big
                                                                   • \mthparsym*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                                           623 %% Style for Symbols
                                                          624 \mbox{ \cmdmthall{sym}\newcommand{\mbox{\mbox{\cmthstysym}}{\mbox{\cmthtt}}}
```

```
\asym, ... to do!
                                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                    \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                    A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, T, \Phi, \Phi, X, \Psi, \Omega
                                     625 \seqoflet{Sym}{mthsym}
         \cmdmthsym ... to do!
                                           • \cmdmthsym{cmdName};
                                               \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                                            • \cmdmthsym{cmdName}[NewName];
                                                \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                      626 \newcommandx{\cmdmthsym}[2][2=]
                                      627 {\usrmth{#1}{Sym}{sym}[#2]}
  \cmdmthargsym ... to do!
                                            \cmdmthargsym{cmdName};
                                               \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg)ext2
                                            • \cmdmthargsym{cmdName}[NewName];
                                                \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                      628 \newcommandx{\cmdmthargsym}[2][2=]
                                      629 {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                           • \cmdmthoargsym{cmdName};
                                               \verb|\cmdNameSym[sub][sub][arg]| = \verb|\cmdName|^{sub}_{sub}(arg)
                                            • \cmdmthoargsym{cmdSym}[NewName];
                                               \c mdSymSym[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                      630 \newcommandx{\cmdmthoargsym}[2][2=]
                                               {\usrmth{#1}{Sym}{oargsym}[#2]}
  \cmdmthparsym ... to do!
                                           \cmdmthparsym{cmdName};
                                                \cmdNameSym[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                            • \cmdmthparsym{cmdName}[NewName];
                                                \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1[par]ext2|
                                      632 \newcommandx{\cmdmthparsym}[2][2=]
                                               {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym \dots to \mathrm{do}!
                                           • \cmdmthoparsym{cmdName};
                                                \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|_{sub}^{sub}[par]|
                                            \cmdmthoparsym{cmdSym}[NewName];
                                               \colon condSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                      634 \newcommandx{\cmdmthoparsym}[2][2=]
                                               {\usrmth{#1}{Sym}{oparsym}[#2]}
    \mthelm, ... to do!
                                           • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                            • \mthargelm{Name} [sub] [sup] [Ext1] {Arg^{Ex^{Ex}}} [Ext2] = Name_{sub}^{sup} Ext1 (Arg^{Ex^{Ex}}) Ext2
                                           \bullet \  \  \, \texttt{\bargelm*{Name}[sub][sub][Ext1]{Arg^{Ex^{-}}{Ex}})} \  \, \texttt{\bargelm*{Name}[sub][sub][Ext1]{Arg^{Ex^{Ex}}})} \  \, \texttt{\bargelm*{Name}[sub][sub][Ext1]{Arg^{Ex^{-}}{Ex}})} \  \, \texttt{\bargelm*{Name}[sub][sub][sub][ext1]{Arg^{Ex^{-}}{Ex}})} \  \, \texttt{\bargelm*{Name}[sub][sub][sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2]
                                            • \mthparelm{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                            • \mthparelm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2
                                      636 %% Style for Elements
                                      637 \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,\,A,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\,\Phi,\,X,\,\Psi,\,\Omega
                                    638 \seqoflet{Elm}{mthelm}
        \cmdmthelm ... to do!
                                          • \cmdmthelm{cmdName};
                                              \colon dNameElm[sub][sub][ext] = cmdName^{sub}_{sub}ext
                                          • \cmdmthelm{cmdName}[NewName];
                                              \verb|\cmdNameElm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                     639 \newcommandx{\cmdmthelm}[2][2=]
                                            {\usrmth{#1}{Elm}{elm}[#2]}
  \cmdmthargelm ... to do!
                                          • \cmdmthargelm{cmdName};
                                              \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                          • \cmdmthargelm{cmdName}[NewName];
                                              \cmdNameElm[sub] [sub] [ext1] {arg} [ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                     641 \newcommandx{\cmdmthargelm}[2][2=]
                                             {\usrmth{#1}{Elm}{argelm}[#2]}
\cmdmthoargelm ... to do!
                                          • \cmdmthoargelm{cmdName};
                                              \colon dNameElm[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                                          • \cmdmthoargelm{cmdElm}[NewName];
                                              \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                     643 \newcommandx{\cmdmthoargelm}[2][2=]
                                            {\usrmth{#1}{Elm}{oargelm}[#2]}
  \cmdmthparelm ... to do!
                                          \cmdmthparelm{cmdName};
                                              \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                          • \cmdmthparelm{cmdName}[NewName];
                                              \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                     645 \newcommandx{\cmdmthparelm}[2][2=]
                                             {\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]
                                     647 \newcommandx{\cmdmthoparelm}[2][2=]
                                              {\usrmth{#1}{Elm}{oparelm}[#2]}
                                     \cmdmthsymelm ... to do!
                                          • \cmdmthsymelm{cmdName};
                                              \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                                              \verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                          • \cmdmthsymelm{cmdName}[NewName];
                                              \colon colon col
                                              \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                     650 \newcommandx{\cmdmthsymelm}[2][2=]
                                               {\cmdmthsym{#1}[#2]%
                                     652
                                                \cmdmthelm{#1}[#2]}
```

```
\cmdmthargsymelm{cmdName};
                                              \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
                                     653 \newcommandx{\cmdmthargsymelm}[2][2=]
                                               {\cmdmthargsym{#1}[#2]%
                                               \cmdmthargelm{#1}[#2]}
\cmdmthoargsymelm ... to do!
                                          \cmdmthoargsymelm{cmdName};
                                              \colonerge{cmdNameElm[sub][sub][arg]} = cmdName^{sub}_{sub}(arg)
                                          • \cmdmthoargsymelm{cmdName}[NewName];
                                              \colonergian [sub] [sub] [arg] = NewName_{sub}^{sub} (arg)
                                     656 \mbox{ } \mbox{cmdmthoargsymelm} [2] [2=]
                                               {\cmdmthoargsym{#1}[#2]%
                                               \cmdmthoargelm{#1}[#2]}
                                     658
 \cmdmthparsymelm ... to do!
                                          • \cmdmthparsymelm{cmdName};
                                             \cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                          • \cmdmthparsymelm{cmdName}[NewName];
                                              \cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                     659 \newcommandx{\cmdmthparsymelm}[2][2=]
                                              {\cmdmthparsym{#1}[#2]%
                                     661
                                               \cmdmthparelm{#1}[#2]}
\colone{thoparsymelm} ... to do!
                                          \cmdmthoparsymelm{cmdName};
                                              \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|_{sub}^{sub}[par]|
                                              \cmdNameElm[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                             \cmdmthoparsymelm{cmdName}[NewName];
                                              \colon = \
                                              \colonerge{cmdNameElm[sub][sub][par]} = NewName^{sub}_{sub}[par]
                                     662 \newcommandx{\cmdmthoparsymelm}[2][2=]
                                              {\cmdmthoparsym{#1}[#2]%
                                               \cmdmthoparelm{#1}[#2]}
                                     \mthluop, ... to do!
                                          • \mthluop{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                          • \mthlbop{\oplus}[sub][sup][Ext] = \oplus_{sub}^{sup}Ext
                                     666 %% Style for \LaTex Operators
                                     667 \label{luop}\newcommand{\mthstyluop}[1]{\textstyle}\newcommand{\mthstyluop}
                                     668 \cmdmth{lbop}\newcommand{\mthstylbop}[1]{\textstyle\mathbin{#1}}
 \cmdmthluop, ... to do!
                                          \cmdmthluop{cmdName};
                                             \colon dNameUOp[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                          • \cmdmthluop{cmdName}[\oplus];
                                             \cmdNameUOp[sub][sub][ext] = \bigoplus_{sub}^{sub} ext
```

\cmdmthargsymelm ... to do!

```
\cmdmthlbop{cmdName};
                                                                         \verb|\cmdNameBOp[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                   • \cmdmthlbop{cmdName}[\oplus];
                                                                         \colon = \oplus_{sub} [sub] [sub] [ext] = \oplus_{sub} ext
                                                          669 \newcommandx{\cmdmthluop}[2][2=]
                                                           670 {\usrmth{#1}{UOp}{luop}[#2]}
                                                          671 \newcommandx{\cmdmthlbop}[2][2=]
                                                          672 {\usrmth{#1}{BOp}{1bop}[#2]}
                     \mthlrel ... to do!
                                                                   • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                          673 %% Style for \LaTex Relations
                                                          \cmdmthlrel ... to do!
                                                                   • \cmdmthlrel{cmdName};
                                                                         \cmdNameRel[sub][sub][ext] = cmdName_{sub}^{sub} ext
                                                                   • \cmdmthlrel{cmdName}[\preceq];
                                                                         \colon 
                                                          675 \newcommandx{\cmdmthlrel}[2][2=]
                                                          676 {\usrmth{#1}{Rel}{lrel}[#2]}
                                                          \mthsnt, ... to do!
                                                                   \bullet \ \texttt{\t Name} \texttt{\t [sub] [sup] [Ext]} = \mathsf{\t Name}^{sup}_{sub} Ext
                                                                   • \mthargsnt{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                   • \mthargsnt*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                   \bullet \  \, \texttt{Name}[\text{Sub}][\text{Sup}][\text{Ext1}] \\ \{\text{Par}^{\{\text{Ex}^{}\}}\}[\text{Ext2}] \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext1 \\ \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 \\ = \  \, \text{Name}_{sub}^{sup}Ext2 
                                                                   \bullet \  \  \, \texttt{Name}[sub][sup][Ext1]\{Par^{Ex^{Ex}}\}\}[Ext2] = \mathsf{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2]
                                                           678 %% Style for Sentences
                                                          679 \cmdmthall{snt}\newcommand{\mthstysnt}{\mathsf}
             \aSnt, ... to do!
                                                       a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                                                       A,\,B,\,C,\,D,\,E,\,F,\,G,\,H,\,I,\,J,\,K,\,L,\,M,\,N,\,O,\,P,\,Q,\,R,\,S,\,T,\,U,\,V,\,W,\,X,\,Y,\,Z
                                                       \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\mathsf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                       \mathsf{A},\,\mathsf{B},\,\mathsf{\Gamma},\,\Delta,\,\mathsf{E},\,\mathsf{E},\,\mathsf{Z},\,\mathsf{H},\,\Theta,\,\varTheta,\,\mathsf{I},\,\mathsf{K},\,\mathsf{K},\,\mathsf{\Lambda},\,\mathsf{M},\,\mathsf{N},\,\Xi,\,\mathsf{O},\,\mathsf{\Pi},\,\varPi,\,\mathsf{P},\,\mathsf{P},\,\Sigma,\,\varSigma,\,\mathsf{T},\,\Upsilon,\,\Phi,\,\varPhi,\,\mathsf{X},\,\Psi,\,\Omega
                                                          680 \seqoflet{Snt}{mthsnt}
             \cmdmthsnt ... to do!
                                                                   • \cmdmthsnt{cmdName};
                                                                         \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub}ext|
                                                                   • \cmdmthsnt{cmdName}[NewName];
                                                                         \colon = NewName_{sub}^{sub}[sub][ext] = NewName_{sub}^{sub}ext
                                                          681 \newcommandx{\cmdmthsnt}[2][2=]
                                                          682 {\usrmth{#1}{Snt}{snt}[#2]}
   \cmdmthargsnt ... to do!
                                                                   • \cmdmthargsnt{cmdName};
                                                                         \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                                                   • \cmdmthargsnt{cmdName}[NewName];
                                                                         \cmdNameSnt[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                          683 \newcommandx{\cmdmthargsnt}[2][2=]
                                                          684 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
```

```
\cmdmthoargsnt{cmdName};
                                                \colon = cmdNameSnt[sub][sub][arg] = cmdName<math>_{sub}^{sub}(arg)
                                             • \cmdmthoargsnt{cmdName}[NewName];
                                                \colon = NewNameSub[sub][sub][arg] = NewNameSub(arg)
                                       685 \newcommandx{\cmdmthoargsnt}[2][2=]
                                               {\usrmth{#1}{Snt}{oargsnt}[#2]}
  \cmdmthparsnt ... to do!
                                            \cmdmthparsnt{cmdName};
                                                \label{lem:cmdNameSnt} $$ \operatorname{sub}[\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[par]ext2 $$
                                             • \cmdmthparsnt{cmdName}[NewName];
                                                 \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameSnt[sub][sub][ext1]{par}ext2|
                                       687 \newcommandx{\cmdmthparsnt}[2][2=]
                                                {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                                             \cmdmthoparsnt{cmdName};
                                                 \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdNameSnt[sub][par]|
                                             • \cmdmthoparsnt{cmdName}[NewName];
                                                \colon = NewNameSnt[sub][sub][par] = NewName_{sub}^{sub}[par]
                                       689 \newcommandx{\cmdmthoparsnt}[2][2=]
                                                {\usrmth{#1}{Snt}{oparsnt}[#2]}
    \mthfrm, ... to do!
                                            • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                                             • \mthargfrm{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                            \bullet \  \, \texttt{\bar{Name}[sub][sub][Ext1][Par^{Ex^{}}]} \  \, [\texttt{Ext2}] = Name_{sub}^{sup} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 = Name_{sub}^{sup} Ext1 \left\lceil Par^{Ex^{Ex}} \right\rceil Ext2 = Name_{sub}^{sub} Ext1 = Name_{sub}^{sub} 
                                             • \mthparfrm*{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2
                                       691 %% Style for Formulae
                                       692 \mbox{ \cmdmthall{frm}\newcommand{\mbox{\mbox{\cmthstyfrm}}{\mbox{\cmthit}}}
         \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
                                      693 \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
                                       694 \newcommandx{\cmdmthfrm}[2][2=]
                                       695 {\usrmth{#1}{Frm}{frm}[#2]}
  \cmdmthargfrm ... to do!
                                            • \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
                                       696 \newcommandx{\cmdmthargfrm}[2][2=]
                                       697 {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
```

```
\cmdmthoargfrm{cmdName};
                                                                    \colon dNameFrm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                               • \cmdmthoargfrm{cmdName}[NewName];
                                                                    \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                       698 \newcommandx{\cmdmthoargfrm}[2][2=]
                                                                  {\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];
                                                                     \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                                       700 \newcommandx{\cmdmthparfrm}[2][2=]
                                                                   {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                                                               \cmdmthoparfrm{cmdName};
                                                                     \colon dNameFrm[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                               • \cmdmthoparfrm{cmdName}[NewName];
                                                                    \verb|\cmdNameFrm[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                                                       702 \newcommandx{\cmdmthoparfrm}[2][2=]
                                                                  {\usrmth{#1}{Frm}{oparfrm}[#2]}
                                                      \mbox{\em mthmat}, ... to do!
                                                               • \mthmat{Name}[sub][sup][Ext] = \mathbf{Name}_{sub}^{sup}Ext
                                                               \bullet \  \  \, \texttt{\barrel{large}[Ext1][Ext1][Ext2]} = \mathbf{Name}^{sup}_{sub} Ext1 \Big( Arg^{Ex^{Ex}} \Big) Ext2 \\ = \mathbf{Name}^{sup}_{sub} Ext2 \\ = \mathbf{Name}^{sub}_{sub} Ext2 \\ = \mathbf{Name}^{sub}_{sub}_{sub} Ext2 \\ = \mathbf{Name}^{sub}_{sub} Ext2 \\ = \mathbf{Name}^{sub}_{s
                                                               • \mthargmat*{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                               • \mthparmat{Name}[sub][sup][Ext1]{Par^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1|Par^{Ex^{Ex}}|Ext2
                                                               \bullet \  \  \, \texttt{\bare}[sub][sub][sup][Ext1] \\ \{Par^{Ex^*}[Ext2] = \mathbf{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2] \\ = \mathbf{Name}^{sup}_{sub}Ext1[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]
                                                       705 %% Style for Matrices
                                                       706 \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,\,\mathbf{o},\,\pi,\,\varpi,\,\rho,\,\varrho,\,\sigma,\,\varsigma,\,\tau,\,\upsilon,\,\phi,\,\varphi,\,\chi,\,\psi,\,\omega
                                                    A, B, \Gamma, \Delta, E, E, Z, H, \Theta, \Theta, I, K, K, \Lambda, M, N, \Xi, O, \Pi, \Pi, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                                                       707 \seqoflet{Mat}{mthmat}
             \cmdmthmat ... to do!
                                                               \cmdmthmat{cmdName};
                                                                     \colon dNameMat[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                               • \cmdmthmat{cmdName}[NewName];
                                                                    \colon dNameMat[sub][sub][ext] = NewName_{sub}^{sub}ext
                                                       708 \newcommandx{\cmdmthmat}[2][2=]
                                                       709 {\usrmth{#1}{Mat}{mat}[#2]}
   \cmdmthargmat ... to do!
                                                               • \cmdmthargmat{cmdName};
                                                                    \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \mathbf{cmdName}_{sub}^{sub}ext1(arg)ext2
                                                               • \cmdmthargmat{cmdName}[NewName];
                                                                    \cmdNameMat[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                       710 \newcommandx{\cmdmthargmat}[2][2=]
                                                       711 {\usrmth{#1}{Mat}{argmat}[#2]}
```

```
\cmdmthoargmat ... to do!
                                                                                                    • \cmdmthoargmat{cmdName};
                                                                                                              \cmdNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                                    • \cmdmthoargmat{cmdName}[NewName];
                                                                                                             \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                                                                                        712 \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];
                                                                                                             \cmdNameMat[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                                        714 \newcommandx{\cmdmthparmat}[2][2=]
                                                                                        715 {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                                                                                                    • \cmdmthoparmat{cmdName};
                                                                                                             \colone{line} 
                                                                                                     • \cmdmthoparmat{cmdName}[NewName];
                                                                                                             \colon dNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                                                        716 \newcommandx{\cmdmthoparmat}[2][2=]
                                                                                       717 {\usrmth{#1}{Mat}{oparmat}[#2]}
          \mthvec, ... to do!
                                                                                                    ullet \mthvec{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                                                     • \mthargvec{Name}[sub][sup][Ext1]{Arg^{Ex^{Ex}}}[Ext2] = Name_{sub}^{sup}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                     • \mthargvec*{Name}[sub][sup][Ext1]{Arg^{Ex^{2}}}[Ext2] = Name^{sup}_{sub}Ext1(Arg^{Ex^{Ex}})Ext2
                                                                                                    \bullet \  \, \texttt{\bar{Ext1}[Far^{Ex^*}]} \  \, \texttt{\bar{Ext2}} = Name_{sub}^{sup} Ext1 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big] = Name_{sub}^{sup} Ext2 \Big[ Par^{Ex^{Ex}} \Big] Ext2 \Big[ Par^{Ex^{Ex}} \Big] = Name_{sub}^{sup} Ext2 \Big[ Par^{Ex} Ext2 \Big] = Name_{sub}^{sup}
                                                                                                     \bullet \  \, \texttt{\colored}[sub][sup][Ext1] \{ Par^{Ex^{-}}[Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2] = Name_{sub}^{sup}Ext1[Par^{Ex^{Ex}}]Ext2 = Name_{sub}^{sup}Ext2[Par^{Ex^{Ex}}]Ext2 = Name_{sub}^{sup}Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^{Ex^{Ex}}]Ext2[Par^
                                                                                        718 %% Style for Vectors
                                                                                       719 \cmdmthall{vec}\newcommand{\mthstyvec}[1]{\boldsymbol{\mthit{#1}}}
                    \aVec, \dots 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}
                                                                                       720 \seqoflet{Vec}{mthvec}
                    \cmdmthvec ... to do!
                                                                                                     \cmdmthvec{cmdName};
                                                                                                             \verb|\cmdNameVec[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                                                                                                     • \cmdmthvec{cmdName} [NewName];
                                                                                                             \verb|\cmdNameVec[sub][sub][ext]| = NewName^{sub}_{sub}ext
                                                                                        721 \mbox{newcommandx{\cmdmthvec}[2][2=]}
                                                                                       722 {\usrmth{#1}{Vec}{vec}[#2]}
     \cmdmthargvec ... to do!
                                                                                                    • \cmdmthargvec{cmdName};
                                                                                                             \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName^{sub}_{sub}ext1(arg)ext2
                                                                                                     • \cmdmthargvec{cmdName} [NewName];
                                                                                                             \colon = NewName (sub) [sub] [ext1] {arg} [ext2] = NewName (sub) [ext1] {arg} [ext2] [ext2] = NewName (sub) [ext1] {arg} [ext2] [
                                                                                        723 \newcommandx{\cmdmthargvec}[2][2=]
                                                                                        724 {\usrmth{#1}{Vec}{argvec}[#2]}
```

```
• \cmdmthoargvec{cmdName};
                  \colon dNameVec[sub][sub][arg] = cmdName^{sub}_{sub}(arg)
                 • \cmdmthoargvec{cmdName}[NewName];
                  \colon = NewName (sub) [sub] [arg] = NewName _{sub}^{sub} (arg)
               725 \newcommandx{\cmdmthoargvec}[2][2=]
                  {\usrmth{#1}{Vec}{oargvec}[#2]}
 \cmdmthparvec ... to do!
                 • \cmdmthparvec{cmdName};
                  \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = cmdName^{sub}_{sub}ext1[par]ext2|
                 • \cmdmthparvec{cmdName} [NewName];
                  \cmdNameVec[sub][sub][ext1]\{par\}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
               727 \newcommandx{\cmdmthparvec}[2][2=]
                  {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                 • \cmdmthoparvec{cmdName};
                  \cmdNameVec[sub][sub][par] = cmdName_{sub}^{sub}[par]
                 • \cmdmthoparvec{cmdName} [NewName];
                  \colon dNameVec[sub][sub][par] = NewName^{sub}_{sub}[par]
               729 \newcommandx{\cmdmthoparvec}[2][2=]
                  {\usrmth{#1}{Vec}{oparvec}[#2]}
               730
               731 \fi
               736 \iftext@
               \adhoc
                 • \adhoc = ad\ hoc
               738 \cmdtxtabr{adhoc}[ad hoc]
                 • \arrange a fortiori
    \afortiori
               739 \cmdtxtabr{afortiori}[a fortiori]
      \apriori
                 • \apriori = a priori
               740 \cmdtxtabr{apriori}[a priori]
                 • \arrowvertaposteriori = a\ posteriori
  \aposteriori
               741 \cmdtxtabr{aposteriori}[a posteriori]
                 • \backslash cf = cf.
          \cf
               742 \cmdtxtabr{cf}[cf.]
      \dedicto
                 • \del{dedicto} = de \ dicto
               743 \cmdtxtabr{dedicto}[de dicto]
      \defacto
                 • \defacto = de facto
               744 \cmdtxtabr{defacto}[de facto]
                 • \dere = de re
        \dere
               745 \cmdtxtabr{dere}[de re]
                 • \divideetimpera = divide et impera
\divideetimpera
               746 \cmdtxtabr{divideetimpera} [divide et impera]
```

\cmdmthoargvec ... to do!

```
\eg
                        • \backslash eg = e.g.
                     747 \cmdtxtabr{eg}[e.g.]
                        • \ensuremath{\backslash} \text{ergo} = ergo
            \ergo
                     748 \cmdtxtabr{ergo}
          \errata
                        • \errata = errata
                     749 \cmdtxtabr{errata}
         \erratum
                        • \erratum = erratum
                     750 \cmdtxtabr{erratum}
                        • \ensuremath{\backslash} \mathtt{etal} = et \ al.
            \etal
                     751 \cmdtxtabr{etal}[et al.]
                        • \ensuremath{\backslash} \mathsf{etc} = \mathit{etc}.
             \etc
                     752 \cmdtxtabr{etc}[etc.]
                        • \ie = i.e.
              \ie
                     753 \cmdtxtabr{ie}[i.e.]
                        • \mutatismutandis = mutatis mutandis
\mutatismutandis
                     754 \cmdtxtabr{mutatismutandis} [mutatis mutandis]
      \percontra
                        • \protect\ per contra = per contra
                     755 \cmdtxtabr{percontra}[per contra]
     \primafacie
                        • \primafacie = prima facie
                     756 \cmdtxtabr{primafacie}[prima facie]
                        • \viceversa = vice versa
      \viceversa
                     757 \cmdtxtabr{viceversa}[vice versa]
              \vs
                        • \vert vs = vs.
                     758 \cmdtxtabr{vs}[vs.]
                        • \viz = viz.
             \viz
                     759 \cmdtxtabr{viz}[viz.]
                     \Afortiori
                        • \land Afortiori = A \ fortiori
                     761 \cmdtxtabr{Afortiori}[A fortiori]
                        • \Apriori = A \ priori
         \Apriori
                     762 \cmdtxtabr{Apriori}[A priori]
                        • \Aposteriori = A posteriori
    \Aposteriori
                     763 \cmdtxtabr{Aposteriori}[A posteriori]
         \Dedicto
                        • \Dedicto = De \ dicto
                     764 \cmdtxtabr{Dedicto} [De dicto]
         \Defacto
                        • \ensuremath{\texttt{Defacto}} = De\ facto
                     765 \cmdtxtabr{Defacto}[De facto]
            \Dere
                        • \ensuremath{\backslash} \mathtt{Dere} = De \ re
```

766 \cmdtxtabr{Dere}[De re]

```
\Divideetimpera
                ullet \Divideetimpera = Divide\ et\ impera
              767 \cmdtxtabr{Divideetimpera}[Divide et impera]
         \Eg
                • \backslash Eg = E.g.
              768 \cmdtxtabr{Eg}[E.g.]
      \Errata
                • \Errata = Errata
              769 \cmdtxtabr{Errata}
                • \Erratum = Erratum
      \Erratum
              770 \cmdtxtabr{Erratum}
\Mutatismutandis
                • \Mutatismutandis = Mutatis mutandis
              771 \cmdtxtabr{Mutatismutandis}[Mutatis mutandis]
                \bullet \ \ \backslash \texttt{Percontra} = \mathit{Per\ contra}
    \Percontra
              772 \cmdtxtabr{Percontra}[Per contra]
   \Primafacie
                • \Primafacie = Prima facie
              773 \cmdtxtabr{Primafacie} [Prima facie]
                • \Viceversa = Vice versa
    \Viceversa
              774 \cmdtxtabr{Viceversa}[Vice versa]
              \naif
                • \naif = naif
              778 \cmdtxtabr{naif}[na\"{i}f]
                • \ne naive = naive
       \naive
              779 \cmdtxtabr{naive}[na\"{i}ve]
        \role
                • \role = r\hat{o}le
              780 \true {role} [r\^{o}le]
              \Role
                782 \mbox{cmdtxtabr{Role}[R\^{o}le]}
              \aka
                784 \cmdtxtabr{aka}[a.k.a.]
                • \contd = contd.
       \contd
              785 \cmdtxtabr{contd}[contd.]
                • \setminus iff = iff
         \iff
              786 \cmdtxtabr{iff}
                • \ \ \ \ \ stx = s.t.
         \stx
              787 \cmdtxtabr{stx}[s.t.]
```

```
\resp
            • \resp = resp.
           788 \cmdtxtabr{resp}[resp.]
            • \wrt = w.r.t.
      \wrt
           789 \cmdtxtabr{wrt}[w.r.t.]
     \wlogx
            • \wdots w.l.o.g.
           790 \cmdtxtabr{wlogx}[w.l.o.g.]
           • \Contd = Contd.
     \Contd
           792 \cmdtxtabr{Contd}[Contd.]
            • \W logx = W.l.o.q.
     \Wlogx
           793 \cmdtxtabr{Wlogx}[W.l.o.g.]
           794 \fi
           799 \ifmath@
           \defeq, \seteq ...
           801 \DeclareRobustCommand{\defeq}
              {\@ifstar%
           802
               {\bf \{\text{\textup{def}}}{=}}}%
           803
               {\mthlbop{\triangleq}}}
           805 \DeclareRobustCommand{\seteq}
             {\@ifstar{\mthlbop{::=}}}\mthlbop{::=}}}
           \implies, ... ...
           808 \DeclareRobustCommand{\implies}
           809 {\mthlrel{\Rightarrow}}
           810 \DeclareRobustCommand{\notimplies}
           811 {\mthlrel{\not\Rightarrow}}
 \implied, ... ...
           812 \DeclareRobustCommand{\implied}
           813 {\mthlrel{\Leftarrow}}
           814 \DeclareRobustCommand{\notimplied}
           815 {\mthlrel{\not\Leftarrow}}
\coimplies, ... ...
           816 \DeclareRobustCommand{\coimplies}
           817 {\mthlrel{\Leftrightarrow}}
           818 \DeclareRobustCommand{\notcoimplies}
           819 {\mthlrel{\not\!\Leftrightarrow}}
           \cmodels, ... ...
           821 \DeclareRobustCommand{\cmodels}
           822 {\mthlrel{\models}}
           823 \DeclareRobustCommand{\notcmodels}
           824 {\mthlrel{\not\models}}
```

```
\cequiv, ... ...
                                        825 \DeclareRobustCommand{\cequiv}
                                        826 {\mthlrel{\equiv}}
                                        827 \DeclareRobustCommand{\notcequiv}
                                        828 \quad \{\mathbf \nabla_{\mathbf v} 
                                        \denot ...
                                        830 \DeclareRobustCommand{\denot}
                                                 {\@ifstar{\@denot}{\@denot[\left][\right]}}
                                        832 \DeclareRobustCommandx{\@denot}[3][1=, 2=]
                                         833 {\bf 4}^{41}\
                                        \dual, \adj, ... ...
                                        835 \DeclareRobustCommand{\dual}[1]
                                        836 {\mth{\overline{#1}}}
                                        837 \DeclareRobustCommand{\adj}[1]
                                        838 {\mth{\mathring{#1}}}
                                        839 \DeclareRobustCommand{\der}[1]
                                        840 {\bf \{\bf \{}\}}
                                        841 \DeclareRobustCommand{\trn}[1]
                                        842 {\bf \{\mbox{widetilde}\{\#1\}\}}
                          \vec ...
                                        843 \DeclareRobustCommand{\vec}
                                        844 {\c}^{\c}^{\c}
                                        845 \DeclareRobustCommand{\@vec}[1]
                                        846 {\mth{\mathaccent"017E{#1}}}
                                        847 \DeclareRobustCommand{\Qsvec}[1]
                                        848 {\mth{\overline{#1}}}
                                        \enumeration, ... ...
                                        851 \varcmd{enumerationx}{\mth}{}{;}{}}
     \sequence, ... ...
                                        853 \varcmd{sequencel}{\mth}{\left[}{,}{\right.}{}
                                        854 \operatorname{sequencer}{\mathrm{hth}}{\operatorname{ht}}{}
                                        855 \varcmd{sequencex}{\mth}{\left[}{;}{\right]}{}
                                        856 \varcmd{sequencexl}{\mth}{\left[}{;}{\right.}{}
                                        857 \varcmd{sequencexr}{\mth}{\left.}{;}{\right]}{}
           \tuple, ... ...
                                        858 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
                                        859 \t {tuplel}{\bf {left}langle}{,}{\bf {}}{\bf {}}
                                        860 \varcmd{tupler}{\mth}{\left.}{,}{\right\rangle}{}
                                        861 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                                         862 \varcmd{tuplex1}{\mth}{\left\langle}{;}{\right.}{}
                                        863 \varcmd{tuplexr}{\mth}{\left.}{;}{\right\rangle}{}
                                        \set, ... ...
                                        865 \DeclareRobustCommand{\set}
                                        866 {\@ifstar{\@set}{\@set[\left][\middle][\right]}}
                                        867 \DeclareRobustCommandx{\@set}[5][1=, 2=, 3=]
                                        868 {\bf 4}^{41}\ {\argsep{#4}{\,#2\vert\,}{#5}}{#3\rbrace}}
```

```
869 \DeclareRobustCommand{\set1}
                {\@ifstar{\@setl}{\@setl[\left][\right]}}
             871 \DeclareRobustCommandx{\@setl}[3][1=, 2=]
             872 {\mth{\argmid{#1\lbrace}{#3}{\,#2\vert\!}}}
             873 \DeclareRobustCommand{\setr}
             874 {\@ifstar{\@setr}{\@setr[\left.][\right]}}
             875 \DeclareRobustCommandx{\@setr}[3][1=, 2=]
                {\mth{\argmid{#1}{#3}{#2\rbrace}}}
       \card ...
             877 \DeclareRobustCommand{\card}
             878 {\@ifstar{\@card}{\@card[\left][\right]}}
             879 \DeclareRobustCommandx{\@card}[3][1=, 2=]
             880 {\mth{\argmid{#1\lvert}{#3}{#2\rvert}}}
        \pow ...
             881 \DeclareRobustCommand{\pow}[1]
                {\bf 2^{\hat 4}}
             \emptyrel ...
             884 \DeclareRobustCommand{\emptyrel}
                {\mth{\varnothing}}
             \dom, \cod, ... ...
             887 \DeclareRobustCommand{\dom}
             888 {\mthargfun{dom}}
             889 \DeclareRobustCommand{\cod}
             890 {\mthargfun{cod}}
             891 \DeclareRobustCommand{\rng}
             892 {\mthargfun{rng}}
             893 \DeclareRobustCommand{\img}
                {\mthargfun{img}}
             \prj ...
             896 \DeclareRobustCommand{\prj}
             897 {\mthargfun{prj}}
        \rst ...
             898 \DeclareRobustCommand{\rst}
                {\mthlbop{\upharpoonright}}
        \cmp ...
             900 \DeclareRobustCommand{\cmp}
                 {\mthlbop{\circ}}
             \emptyfun
             903 \DeclareRobustCommand{\emptyfun}
                {\mth{\varnothing}}
             \pto, \pmapsto
             906 \DeclareMathOperator{\pto}
                 {\ensuremath{\rightharpoonup}}
             908 \DeclareMathOperator{\pmapsto}
                 {\ensuremath{\mathrel{\raisebox{0.5ex}{\footnotesize${\llcorner}$}%
             910
                   \kern-1.5ex\rightharpoonup}}}
```

```
\fix, \ifp, ... ...
               912 \DeclareRobustCommand{\fix}
               913 {\mthfun{fix}}
               914 \DeclareRobustCommand{\ifp}
               915 {\mthfun{ifp}}
               916 \DeclareRobustCommand{\lfp}
               917 {\mthfun{lfp}}
               918 \DeclareRobustCommand{\gfp}
                   {\mthfun{gfp}}
               \Aomega, \AOmega
               921 \DeclareRobustCommand{\Aomega}
               922 {\mthargset{\omega}}
               923 \DeclareRobustCommand{\AOmega}
               924 {\mthargset{\Omega}}
\Atheta, \ATheta ...
               925 \DeclareRobustCommand{\Atheta}
               926 {\mthargset{\theta}}
               927 \DeclareRobustCommand{\ATheta}
               928 {\mthargset{\Theta}}
 \Aomicron, ... ...
               929 \DeclareRobustCommand{\Aomicron}
               930 {\mthargset{\omicron}}
               931 \DeclareRobustCommand{\AOmicron}
               932 {\mthargset{\Omicron}}
               \SetB ...
               934 \DeclareRobustCommand{\SetB}
               935 {\mthset[mathbb]{B}}
         \SetF ...
               936 \DeclareRobustCommand{\SetF}
               937 {\mthset[mathbb]{F}}
     \SetN, ... ...
               938 \DeclareRobustCommand{\SetN}
                   {\mthset[mathbb]{N}}
               940 \DeclareRobustCommand{\SetNI}[1][]
               941 {\SetN[\infty #1]}
     \SetZ, ... ...
               942 \DeclareRobustCommand{\SetZ}
               943 {\mthset[mathbb]{Z}}
               944 \DeclareRobustCommand{\SetZI}[1][]
                   {\SetZ[\pm\infty #1]}
               946 \DeclareRobustCommand{\SetZPI}[1][]
                   {\SetZ[+\infty #1]}
               948 \DeclareRobustCommand{\SetZNI}[1][]
                   {\SetZ[-\infty #1]}
     \SetQ, ... ...
               950 \DeclareRobustCommand{\SetQ}
                   {\mthset[mathbb]{Q}}
               952 \DeclareRobustCommand{\SetQI}[1][]
               953 {\SetQ[\pm\infty #1]}
```

```
954 \DeclareRobustCommand{\SetQPI}[1][]
             955 {\SetQ[+\infty #1]}
             956 \DeclareRobustCommand{\SetQNI}[1][]
             957 {\SetQ[-\infty #1]}
  \SetR, ... ...
             958 \DeclareRobustCommand{\SetR}
             959 {\mthset[mathbb]{R}}
             960 \DeclareRobustCommand{\SetRI}[1][]
             961 {\SetR[\pm\infty #1]}
             962 \DeclareRobustCommand{\SetRPI}[1][]
             963 {\SetR[+\infty #1]}
             964 \DeclareRobustCommand{\SetRNI}[1][]
             965 {\SetR[-\infty #1]}
  \SetC, ... ...
             966 \DeclareRobustCommand{\SetC}
             967 {\mthset[mathbb]{C}}
             968 \DeclareRobustCommand{\SetCI}[1][]
                {\SetC[\infty #1]}
             \num, ... ...
             971 \DeclareRobustCommand{
num}[1]
             972 {\mth{[#1]}}
             973 \DeclareRobustCommand{\numcc}[2]
             974 {\mth{[\argsep{#1}{,}{#2}]}}
             975 \DeclareRobustCommand{\numco}[2]
             976 {\mth{[\argsep{#1}{,}{#2})}}
             977 \DeclareRobustCommand{\numoc}[2]
             978 {\mth{(\argsep{#1}{,}{#2}]}}
             979 \DeclareRobustCommand{\numoo}[2]
                 {\mth{(\argsep{#1}{,}{#2})}}
             \abs ...
             982 \DeclareRobustCommand{\abs}
             983 {\@ifstar{\@abs}{\@abs[\left][\right]}}
             984 \DeclareRobustCommandx{\Qabs}[3][1=, 2=]
             985 {\bf 4}^{41}\
\floor, \ceil
             986 \DeclareRobustCommand{\floor}
             987 {\@ifstar{\@floor}{\@floor[\left][\right]}}
             988 \DeclareRobustCommandx{\@floor}[3][1=, 2=]
             989 {\mth{\argmid{#1\lfloor}{#3}{#2\rfloor}}}
             990 \DeclareRobustCommand{\ceil}
             991 {\@ifstar{\@ceil}{\@ceil[\left][\right]}}
             992 \DeclareRobustCommandx{\@ceil}[3][1=, 2=]
                 {\mth{\argmid{#1\lceil}{#3}{#2\rceil}}}
             \arg ...
             995 \DeclareRobustCommand{\arg}
             996 {\mthfun{arg}}
  \evn, \odd ...
             997 \DeclareRobustCommand{\evn}
             998 \{ \mathbf{vn} \}
             999 \DeclareRobustCommand{\odd}
             1000 \quad \{\mathbf Mthfun\{odd\}\}\
```

```
\bst, ... ...
               1001 \DeclareRobustCommand{\bst}
               1002 \quad \{\mbox{mthfun{bst}}\}
               1003 \DeclareRobustCommand{\argbst}
               1004 {\mthfun{arg bst}}
\min, \max, ...
               1005 \DeclareRobustCommand{\min}
               1006 {\mthfun{min}}
               1007 \DeclareRobustCommand{\max}
               1008 \quad \{\mathbf{mthfun}\{\mathbf{max}\}\}\
               1009 \DeclareRobustCommand{\argmin}
               1010 {\mthfun{arg min}}
               1011 \DeclareRobustCommand{\argmax}
               1012 {\mthfun{arg max}}
    \inf, \sup ...
               1013 \DeclareRobustCommand{\inf}
               1014 {\mthfun{inf}}
               1015 \DeclareRobustCommand{\sup}
               1016 \quad \{\mathbf{sup}\}
               \emptyseq
               1018 \DeclareRobustCommand{\emptyseq}
               1019 {\mth{\varepsilon}}
    \fst, \lst ...
               1020 \DeclareRobustCommand{\fst}
                    {\mthargfun{fst}}
               1022 \DeclareRobustCommand{\lst}
               1023 {\mthargfun{lst}}
               1024 \fi
               1029 \ifcom@
    \defcomcls ... to do!
                  • \defcomcls{CompClass};
                    \CompClass[sub][sup][ext] = COMPCLASS_{SUB}^{SUP}EXT
                    \CoCompClass[sub][sup][ext] = CoCompCLASS_{SUB}^{SUP}EXT
                    \CompClassE[sub][sup][ext] = COMPCLASS-EASY_{SUB}^{SUP}EXT
                    \verb|\CoCompClassE[sub][sup][ext]| = CoCompClass-Easy_{SUB}^{SUP}EXT|
                    \verb|\CompClassH[sub][sup][ext]| = CompClass-Hard_{SUB}^{SUP}EXT
                    \verb|\CoCompClassH[sub][sup][ext]| = CoCompClass-Hard_{SUB}^{SUP}EXT
                    \verb|\CompClassC[sub][sup][ext]| = CompClass-complete_{SUB}^{SUP}EXT
                    \CoCompClassC[sub][sup][ext] = CoCompClass-CompLete_{SUB}^{SUP}EXT
                    \verb|\NCompClass[sub][sup][ext]| = NCOMPCLASS^{SUP}_{SUB}EXT
                    \verb|\CoNCompClass[sub][sup][ext]| = CoNCompClass_{SUB}^{SUP}EXT
                    \verb|\NCompClassE[sub][sup][ext]| = NCOMPCLASS-EASY_{SUB}^{SUP}EXT
                    \verb|\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
                    \label{eq:ncompClassC} $$\N{\compClassC[sub][sup][ext]} = N{\ccompClass-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_{SUR}^{SUP}EXT
         \UCompClassE[sub][sup][ext] = UCompClass-Easy_{SUB}^{SUP}EXT
         \verb|\CoUCompClassE[sub][sup][ext]| = CoUCOMPCLASS-EASY_{SUB}^{SUP}EXT
         \verb|\UCompClassH[sub][sup][ext]| = UCompClass-Hard_{SUB}^{SUP}EXT
         \Coulomb ClassH[sub][sup][ext] = Coulomp Class-Hard_{Sup}^{Sup}EXT
         \label{eq:UCompClassCsub} $$ UCompClassC[sub] [sup] [ext] = UCompClass-CompLete_{SUB}^{SUP} EXT $$
         \texttt{CoUCompClassC[sub][sup][ext]} = \texttt{CoUCompClass-complete}_{\texttt{SUB}} \texttt{EXT}
         \triangle CompClass[sub][sup][ext] = ACOMPCLASS_{SUB}^{SUP}EXT
         \verb|\CoACompClass[sub][sup][ext]| = CoACompClass_{SUB}^{SUP}EXT
         \verb|\ACompClassE[sub][sup][ext]| = ACompClass-Easy_{SUB}^{SUP}EXT
         \verb|\CoACompClassE[sub][sup][ext]| = CoACompClass-Easy_{SUB}^{SUP}EXT|
         \triangle CompClassH[sub][sup][ext] = ACOMPCLASS-HARD_{SUB}^{SUP}EXT
         \CoACompClassH[sub][sup][ext] = CoACompClass-HARD_{SUB}^{SUP}EXT
         \label{eq:acompClassC} $$\ACompClassC[sub][sup][ext] = ACompClass-CompLete_{SUB}^{SUP}EXT$
          \verb|\CoACompClassC[sub][sup][ext]| = CoACompClass-complete_{sur}^{SUP}EXT
      \defcomcls{CompClass}[NewClass];
         \CompClass[sub][sup][ext] = NewClass_{SUB}^{SUP}EXT
         \CoCompClass[sub][sup][ext] = CoNewClass_{Sup}^{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
         \CoCompClassH[sub][sup][ext] = CoNewClass-Hard_{SUB}^{SUP}EXT
         \compClassC[sub][sup][ext] = NewClass-complete_{SUB}^{SUP}EXT
         \verb|\CoCompClassC[sub][sup][ext]| = \operatorname{CoNewClass-complete}_{\operatorname{SUB}} \text{Ext}
         \verb|\NCompClass[sub][sup][ext]| = NNEWCLASS^{SUP}_{SUB}EXT
         \verb|\CoNCompClass[sub][sup][ext]| = CoNNewClass_{SUB}^{SUP}EXT
         \verb|\NCompClassE[sub][sup][ext]| = NNEWCLASS-EASY_{SUB}^{SUP}EXT
         \verb|\ConCompClassE[sub][sup][ext]| = ConNewClass-Easy_{Sub}^{SUP}Ext
          \N{\c ClassH[sub][sup][ext]} = NNEWCLASS-HARD_{SUB}^{SUP}EXT
          \verb|\CoNCompClassH[sub][sup][ext]| = CoNNewClass-Hard_{SUB}^{SUP}EXT
         \verb|\NCompClassC[sub][sup][ext]| = NNewClass-complete_{SUB}^{SUP}EXT
         \ConCompClassC[sub][sup][ext] = ConNewClass-Complete_{Sup}^{SUP}EXT
         \UCompClass[sub][sup][ext] = UNEWCLASS_{SUR}^{SUP}EXT
         \CoUCompClass[sub][sup][ext] = CoUNEWCLASS^{SUP}_{SUR}EXT
         \UCompClassE[sub][sup][ext] = UNEWCLASS-EASY_{SUR}^{SUP}EXT
         \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEWCLASS-EASY_{SUB}^{SUP}EXT
         \verb|\UCompClassH[sub][sup][ext]| = UNEWCLASS-HARD_{SUB}^{SUP}EXT
         \verb|\CoUCompClassH[sub][sup][ext]| = CoUNewClass-Hard_{SUB}^{SUP}EXT
         \UCompClassC[sub][sup][ext] = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
         \texttt{CoUCompClassC[sub][sup][ext]} = \texttt{CoUNEwCLASS-COMPLETE}^{SUP}_{SUB} \texttt{EXT}
         \triangle CompClass[sub][sup][ext] = ANEWCLASS_{SUB}^{SUP}EXT
         \CoACompClass[sub][sup][ext] = CoANEWCLASS_{SUB}^{SUP}EXT
         \verb|\ACompClassE[sub][sup][ext]| = ANEWCLASS-EASY_{SUB}^{SUP}EXT
         \verb|\CoACompClassE[sub][sup][ext]| = CoANewClass-easy_{Sub}^{SUP}EXT
         \Lambda CompClassH[sub][sup][ext] = ANEWCLASS-HARD_{SUB}^{SUP}EXT
         \CoACompClassH[sub][sup][ext] = CoANEWCLASS-HARD_{SUR}^{SUP}EXT
         \triangle CompClassC[sub][sup][ext] = ANEWCLASS-COMPLETE_{SUP}^{SUP}EXT
         \CoACompClassC[sub][sup][ext] = CoANEWCLASS-COMPLETE_{SUB}^{SUP}EXT
1030 \newcommandx{\defcomcls}[2][2=]
1031
           {\displaystyle \{ \def comclssem \{ \#1 \} \{ \def val \{ \#2 \} \{ \#1 \} \} \} \}}
           \defcomclssem{#1}{\defval{#2}{#1}}[Co]}
1032
1033 \newcommandx{\defcomclssem}[3][3=]
           {\defcomclsred{#3#1}{#2}[#3]%
1034
           \defcomclsred{#3N#1}{#2}[#3N]%
1035
           \defcomclsred{#3U#1}{#2}[#3U]%
1036
           \defcomclsred{#3A#1}{#2}[#3A]}
1037
1038 \newcommandx{\defcomclsred}[3][3=]
           {\defcomclscmd{#1}{#2}[#3]%
1039
           \label{lem:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:equation:lemma:eq
1040
```

```
\defcomclscmd{#1H}{#2}[#3][-hard]%
                            \defcomclscmd{#1C}{#2}[#3][-complete]}%
                     1043 \newcommandx{\defcomclscmd}[4][3=, 4=]
                           {\csdef{#1}{\txtcom{#3#2#4}}}
                     1044
       \defcomhrc ... to do!
                         \defcomhrc{CompHierarchy};
                           CompHierarchy[sub][sup][ext] = COMPHIERARCHY<sup>SUP</sup><sub>SUR</sub>EXT
                         • \defcomhrc{CompHierarchy} [NewHierarchy];
                           \texttt{CompHierarchy[sub][sup][ext]} = \texttt{NewHierarchy}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{EXT}
                     1045 \newcommandx{\defcomhrc}[2][2=]
                           {\csdef{#1}{\txtcom{\defval{#2}{#1}}}}
                     \Easy, \Hard, ...
                     1048 \cmdtxtcom{Easy}
                     1049 \cmdtxtcom{Hard}
                     1050 \cmdtxtcom{Complete}
                     \Time, ...
                         • Time[sub][sup][ext] = TIME_{SUB}^{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
                           \TimeE[sub][sup][ext] = NTIME-EASY_{SUB}^{SUP}EXT
                           \NTimeH[sub][sup][ext] = NTIME-HARD_{SUB}^{SUP}EXT
                           \verb|\NTimeC[sub][sup][ext]| = NTIME-COMPLETE_{SUR}^{SUP}EXT
                         • \UTime[sub][sup][ext] = UTIME_{SUB}^{SUP}EXT
                           \UTimeE[sub][sup][ext] = UTIME-EASY_{SUB}^{SUP}EXT
                           \UTimeH[sub][sup][ext] = UTIME-HARD_{SUB}^{SUP}EXT
                           \verb|\UTimeC[sub][sup][ext]| = UTIME-COMPLETE_{SUR}^{SUP}EXT
                         • ATime[sub][sup][ext] = ATIME_{SUB}^{SUP}EXT
                           \Delta TimeE[sub][sup][ext] = ATIME-EASY_{SUB}^{SUP}EXT
                           \texttt{\ATimeH[sub][sup][ext]} = \text{ATIME-HARD}^{\text{SUP}}_{\text{SUB}} \text{EXT}
                           \Delta TimeC[sub][sup][ext] = ATIME-COMPLETE_{SUB}^{SUP}EXT
                     1052 \defcomcls{Time}
                         • Space[sub][sup][ext] = Space_{Sub}^{SUP}EXT
      \Space, ...
                           \SpaceE[sub][sup][ext] = SPACE-EASY_{SUB}^{SUP}EXT
                           \SpaceH[sub][sup][ext] = SPACE-HARD_{SUB}^{SUP}EXT
                           \SpaceC[sub][sup][ext] = SPACE-COMPLETE_{SUB}^{SUP}EXT
                         • \NSpace[sub][sup][ext] = NSPACE_{SUB}^{SUP}EXT
                           \verb|\NSpaceE[sub][sup][ext]| = NSPACE-EASY_{SUB}^{SUP}EXT
                           \verb|\NSpaceH[sub][sup][ext]| = NSPACE-HARD_{SUB}^{SUP}EXT
                           \NSpaceC[sub][sup][ext] = NSPACE-COMPLETE_{SUB}^{SUP}EXT
                         \verb|\USpaceE[sub][sup][ext]| = USPACE-EASY_{SUB}^{SUP}EXT
                           \verb|\USpaceH[sub][sup][ext]| = USpace-Hard_{Sub}^{SUP}EXT
                           \verb|\USpaceC[sub][sup][ext]| = USPACE\text{-}COMPLETE^{SUP}_{SUB}EXT
                         • ASpace[sub][sup][ext] = ASPACE_{SUB}^{SUP}EXT
                           \verb|\ASpaceE[sub][sup][ext]| = ASPACE-EASY_{SUB}^{SUP}EXT
                           \verb|\ASpaceH[sub][sup][ext]| = ASPACE-HARD^{SUP}_{SUB}EXT
                           \verb|\ASpaceC[sub][sup][ext]| = ASPACE-COMPLETE_{SUB}^{SUP}EXT
                     1053 \setminus defcomcls{Space}
```

```
\LogTime, ...
                                                                               • \lfloor LogTime[sub][sup][ext] = LogTime_{Sub}^{SUP}EXT
                                                                                      \LogTimeE[sub][sup][ext] = LogTime-Easy_{SUB}^{SUP}EXT
                                                                                      \LogTimeH[sub][sup][ext] = LogTime-HARD_{SUB}^{SUP}EXT
                                                                                      \verb|\LogTimeC[sub][sup][ext]| = LogTime-complete_{sub}^{SUP}EXT|
                                                                               \NLogTimeE[sub][sup][ext] = NLogTime-EASY_{SUB}^{SUP}EXT
                                                                                      \verb|\NLogTimeH[sub][sup][ext]| = NLogTime-Hard_{SUB}^{SUP}EXT
                                                                                      \label{eq:nlogTimeC} $$\NLogTimeC[sub][sup][ext] = NLogTime-COMPLETE_{SUB}^{SUP}EXT$
                                                                               • \ULogTime[sub][sup][ext] = ULogTime_{SUB}^{SUP}EXT
                                                                                      \verb|VLogTimeE[sub][sup][ext]| = ULogTime-EASY_{SUB}^{SUP}EXT|
                                                                                      \ULogTimeH[sub][sup][ext] = ULogTime-HARD_{SUB}^{SUP}EXT
                                                                                      \label{eq:ULogTimeCsub} $$ \ULogTimeC[sub][sup][ext] = ULogTime-COMPLETE_{SUB}^{SUP}EXT $$
                                                                               • ALogTime[sub][sup][ext] = ALogTime_{SUB}^{SUP}EXT
                                                                                      \verb|\ALogTimeE[sub][sup][ext]| = ALogTime-Easy_{SUB}^{SUP}EXT
                                                                                      \Lambda LogTimeH[sub][sup][ext] = ALogTime-HARD_{SUB}^{SUP}EXT
                                                                                      ALogTimeC[sub][sup][ext] = ALogTime-Complete_{Sub}^{SUP}EXT
                                                                 1054 \defcomcls{LogTime}
                                                                               • LogSpace[sub][sup][ext] = LogSpace_{SUB}^{SUP}EXT
\LogSpace, ...
                                                                                      LogSpaceE[sub][sup][ext] = LogSpace-Easy_{SUB}^{SUP}EXT
                                                                                      LogSpaceH[sub][sup][ext] = LogSpace-Hard_{SUB}^{SUP}EXT
                                                                                      LogSpaceC[sub][sup][ext] = LogSpace-Complete_{Sup}^{SUP}EXT
                                                                               • \NLogSpace[sub][sup][ext] = NLogSpace_{SUB}^{SUP}EXT
                                                                                      \verb|\NLogSpaceE[sub][sup][ext]| = NLogSpace-Easy_{SUB}^{SUP}EXT|
                                                                                      \verb|\NLogSpaceH[sub][sup][ext]| = NLogSpace-Hard_{SUB}^{SUP}EXT
                                                                                      \NLogSpaceC[sub][sup][ext] = NLogSpace-Complete_{SUB}^{SUP}EXT
                                                                               • \ULogSpace[sub][sup][ext] = ULogSpace_{SUB}^{SUP}EXT
                                                                                      \verb| ULogSpaceE[sub][sup][ext] = ULogSpace-easy_{Sub}^{SUP}EXT
                                                                                     \ULogSpaceH[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
                                                                                      ALogSpaceE[sub][sup][ext] = ALogSpace-Easy_{SUB}^{SUP}EXT
                                                                                      \verb|\ALogSpaceH[sub][sup][ext]| = ALogSpace-Hard_{SUB}^{SUP}EXT
                                                                                      ALogSpaceC[sub][sup][ext] = ALogSpace-Complete_{Sub}^{SUP}EXT
                                                                 1055 \defcomcls{LogSpace}
                                                                               • \P [sub] [sup] [ext] = PTIME_{SUB}^{SUP}EXT
            \PTime, ...
                                                                                     \verb|\PTimeE[sub][sup][ext]| = PTIME-EASY_{SUB}^{SUP}EXT
                                                                                     \label{eq:ptimeH} $$ \Pr[\text{sub}][\text{sup}][\text{ext}] = \Pr[\text{TIME-HARD}^{SUP}_{SUB}] = \Pr[\text{TIME-HARD}^
                                                                                     \verb|\PTimeC[sub][sup][ext]| = PTIME-COMPLETE_{SUR}^{SUP}EXT
                                                                               • \NPTime[sub][sup][ext] = NPTIME_{SUB}^{SUP}EXT
                                                                                      \label{eq:nptimeEsub} $$ \DTIME-EASY_{SUB}^{SUP} = NPTIME-EASY_{SUB}^{SUP} = NPTIME-EASY_{SUB}
                                                                                      \NPTimeH[sub][sup][ext] = NPTIME-HARD_{SUB}^{SUP}EXT
                                                                                      \verb|\NPTimeC[sub][sup][ext]| = NPTIME-COMPLETE_{SUB}^{SUP}EXT
                                                                               • \UPTime[sub][sup][ext] = UPTIME_{SUB}^{SUP}EXT
                                                                                      \verb|\UPTimeE[sub][sup][ext]| = UPTIME-EASY_{SUB}^{SUP}EXT
                                                                                     \UPTimeH[sub][sup][ext] = UPTIME-HARD_{SUB}^{SUP}EXT
                                                                                     \UPTimeC[sub][sup][ext] = UPTIME-COMPLETE_{SUB}^{SUP}EXT
                                                                               \bullet \ \ \texttt{APTime[sub][sup][ext]} = \mathrm{APTIME}^{\mathtt{SUP}}_{\mathtt{SUB}} \mathtt{EXT}
                                                                                      \label{eq:aptimeEsub} $$ \operatorname{APTIME-EASY}^{SUP}_{SUB} = \operatorname{APTIME-EASY}^{SU
                                                                                      \APTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT
                                                                                      \verb|\APTimeC[sub][sup][ext]| = APTIME-COMPLETE_{SUR}^{SUP}EXT
                                                                 1056 \setminus defcomcls{PTime}
                                                                               • \PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT
       \PSpace, ...
                                                                                      \verb|\PSpaceE[sub][sup][ext]| = PSPACE-EASY_{SUB}^{SUP}EXT|
                                                                                      \verb|\PSpaceH[sub][sup][ext]| = PSpace-Hard_{Sub}^{SUP}EXT
```

 $\label{eq:pspaceC} $$ \PSpaceC[sub][sup][ext] = PSpace-Complete_{SUB}^{SUP}EXT $$

```
\NPSpaceE[sub][sup][ext] = NPSPACE-EASY_{SUB}^{SUP}EXT
                          \NPSpaceH[sub][sup][ext] = NPSPACE-HARD_{SUB}^{SUP}EXT
                          \verb|\NPSpaceC[sub][sup][ext]| = NPSPACE-COMPLETE_{SUB}^{SUP}EXT
                        • \UPSpace[sub][sup][ext] = UPSPACE_{SUB}^{SUP}EXT
                          \verb|VPSpaceE[sub][sup][ext]| = UPSPACE-EASY_{SUR}^{SUP}EXT|
                          \verb|\UPSpaceH[sub][sup][ext]| = UPSPACE-HARD_{SUB}^{SUP}EXT
                          \label{eq:upspaceCsub} $$ \UPSPACE-COMPLETE_{SUB}^{SUP}EXT $$
                        • APSpace[sub][sup][ext] = APSPACE_{SUB}^{SUP}EXT
                          \verb|\APSpaceE[sub][sup][ext]| = APSPACE-EASY_{SUB}^{SUP}EXT
                          \label{eq:apsilon} $$ \APSpaceH[sub][sup][ext] = APSpace-HARD_{SUB}^{SUP}EXT $$
                          \verb|\APSpaceC[sub][sup][ext]| = APSPACE-COMPLETE_{SUB}^{SUP}EXT
                   1057 \defcomcls{PSpace}
 \QPTime, ...
                        • \QPTime[sub][sup][ext] = QPTIME_{SUB}^{SUP}EXT
                          \verb|\QPTimeE[sub][sup][ext]| = \mathrm{QPTIME\text{-}EASY}^{SUP}_{SUB}\mathrm{EXT}|
                          \verb|\QPTimeH[sub][sup][ext]| = \mathrm{QPTIME-HARD}^{SUP}_{SUB} \mathrm{EXT}|
                          \QPTimeC[sub][sup][ext] = QPTIME-COMPLETE_{SUB}^{SUP}EXT
                        \NQPTimeE[sub][sup][ext] = NQPTIME-EASY_{SUB}^{SUP}EXT
                          \verb|\NQPTimeH[sub][sup][ext]| = NQPTIME-HARD_{SUB}^{SUP}EXT
                          \texttt{NQPTimeC[sub][sup][ext]} = NQPTIME-COMPLETE_{SUB}^{SUP}EXT
                        • \UQPTime[sub][sup][ext] = UQPTIME_{SUB}^{SUP}EXT
                          \verb|VQPTimeE[sub][sup][ext]| = UQPTIME-EASY_{SUB}^{SUP}EXT|
                          \verb|VQPTimeH[sub][sup][ext] = \mathrm{UQPTIME-HARD}^{SUP}_{SUB}{\rm EXT}
                          \UQPTimeC[sub][sup][ext] = UQPTIME-COMPLETE_{SUB}^{SUP}EXT
                        • AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT
                          \verb|\AQPTimeE[sub][sup][ext]| = AQPTIME-EASY_{SUB}^{SUP}EXT|
                          \verb| AQPTimeH[sub][sup][ext] = AQPTIME-HARD_{SUB}^{SUP}EXT
                          \texttt{\AQPTimeC[sub][sup][ext]} = \mathrm{AQPTIME\text{-}COMPLETE}^{SUP}_{SUB}\mathrm{EXT}
                    1058 \defcomcls{QPTime}
                        • \QPSpace[sub][sup][ext] = QPSPACE_{SUB}^{SUP}EXT
\QPSpace, ...
                          \label{eq:QPSpaceEsub} $$ \QPSpaceE[sub][sup][ext] = QPSpace-EASY_{SUB}^{SUP}EXT $$
                          \label{eq:QPSpaceHardSup} $$ \QPSpaceHardSup[ext] = QPSpace-HardSupEXT $$
                          \verb|QPSpaceC[sub][sup][ext]| = QPSPACE-COMPLETE_{SUB}^{SUP}EXT
                        • \NQPSpace[sub][sup][ext] = NQPSPACE_{SUB}^{SUP}EXT
                          \verb|NQPSpaceE[sub][sup][ext]| = NQPSPACE-EASY_{SUB}^{SUP}EXT|
                          \verb|NQPSpaceH[sub][sup][ext]| = NQPSPACE-HARD_{SUB}^{SUP}EXT|
                          \verb|NQPSpaceC[sub][sup][ext]| = NQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                        • UQPSpace[sub][sup][ext] = UQPSPACE_{SUB}^{SUP}EXT
                          \verb|VQPSpaceE[sub][sup][ext]| = UQPSPACE-EASY_{SUB}^{SUP}EXT
                          \UQPSpaceH[sub][sup][ext] = UQPSPACE-HARD_{SUB}^{SUP}EXT
                          \verb|VQPSpaceC[sub][sup][ext]| = UQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                        • \AQPSpace[sub][sup][ext] = AQPSPACE_SUPEXT
                          \verb|AQPSpaceE[sub][sup][ext]| = \mathrm{AQPSPACE\text{-}EASY}^{\mathrm{SUP}}_{\mathrm{SUB}} \mathrm{EXT}
                          \AQPSpaceH[sub][sup][ext] = AQPSPACE-HARD_{SUR}^{SUP}EXT
                          AQPSpaceC[sub][sup][ext] = AQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                   1059 \defcomcls{QPSpace}
                        • \ensuremath{\mathsf{ExpTime}}[\mathtt{sub}][\mathtt{sup}][\mathtt{ext}] = \mathsf{ExpTime}^{\mathtt{SUP}}_{\mathtt{SUB}} \mathsf{Ext}
\ExpTime, ...
                          \verb|\ExpTimeE[sub][sup][ext]| = EXPTIME-EASY_{SUB}^{SUP}EXT
                          \ExpTimeH[sub][sup][ext] = EXPTIME-HARD_{SUB}^{SUP}EXT
                          \verb|\ExpTimeC[sub][sup][ext]| = EXPTIME-COMPLETE_{SUB}^{SUP}EXT
                        • \NExpTime[sub][sup][ext] = NEXPTIME_{SUB}^{SUP}EXT
                          \NExpTimeE[sub][sup][ext] = NEXPTIME-EASY_{SUB}^{SUP}EXT
                          \verb|\NExpTimeH[sub][sup][ext]| = NEXPTIME-HARD_{SUB}^{SUP}EXT
                          \NExpTimeC[sub][sup][ext] = NEXPTIME-COMPLETE_{SUB}^{SUP}EXT
```

• $\NPSpace[sub][sup][ext] = NPSPACE_{SUB}^{SUP}EXT$

```
\UExpTimeH[sub][sup][ext] = UEXPTIME-HARD_{SUB}^{SUP}EXT
                   \label{eq:uexptimeC} $$ \UExpTimeC[sub][sup][ext] = UExpTime-COMPLETE_{SUB}^{SUP}EXT $$
                 • \triangle 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
                   \verb|\AExpTimeC[sub][sup][ext]| = AEXPTIME-COMPLETE_{SUB}^{SUP}EXT
              1060 \defcomcls{ExpTime}
\ExpSpace, ...
                 • \ExpSpace[sub][sup][ext] = ExpSpace[sub]Ext
                   \ExpSpaceE[sub][sup][ext] = ExpSpace-Easy_{SUR}^{SUP}EXT
                   \ExpSpaceH[sub][sup][ext] = ExpSpace-Hard_{Sup}^{SUP}EXT
                   \ExpSpaceC[sub][sup][ext] = ExpSpace-completesup Ext
                 • \NExpSpace[sub][sup][ext] = NExpSpace_{SUB}^{SUP}EXT
                   \NExpSpaceE[sub][sup][ext] = NEXPSPACE-EASY_{SUB}^{SUP}EXT
                   \verb|\NExpSpaceH[sub][sup][ext]| = NEXPSPACE-HARD_{SUB}^{SUP}EXT
                   \NExpSpaceC[sub][sup][ext] = NEXPSPACE-COMPLETE_{SUB}^{SUP}EXT
                 • \UExpSpace[sub][sup][ext] = UExpSpace_{SUB}^{SUP}EXT
                   \verb|\UExpSpaceE[sub][sup][ext]| = UEXPSPACE-EASY_{SUR}^{SUP}EXT
                   \UExpSpaceH[sub][sup][ext] = UEXPSPACE-HARD_{SUB}^{SUP}EXT
                   \UExpSpaceC[sub][sup][ext] = UExpSpace-Complete_{Sub}^{SUP}Ext
                 • AExpSpace[sub][sup][ext] = AExpSpace_{Sub}^{SUP}EXT
                   \verb|\AExpSpaceE[sub][sup][ext]| = AEXPSPACE-EASY_{SUB}^{SUP}EXT
                   \verb|\AExpSpaceH[sub][sup][ext]| = AExpSpace-Hard_{SuB}^{SUP}EXT
                   \texttt{AExpSpaceC[sub][sup][ext]} = \texttt{AExpSpace-complete}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{Ext}
              1061 \defcomcls{ExpSpace}
              \PH
                 • \PH[sub][sup][ext] = PH_{SUB}^{SUP}EXT
              1063 \defcomhrc{PH}
              1064 \fi
              1069 \ifgam@
              \SATG, ...
              1071 %% Satisfiability Games
              1072 \cmdtxtoparname{SATG}[Sat]
              1073
              1074 %% Validity Games
              1075 \cmdtxtoparname{VALG}[Val]
              1077 %% Evaluation Games
              1078 \cmdtxtoparname{EVLG}[Ev1]
              1080 %% Synthesis Games
              1081 \cmdtxtoparname{SYNG}[Syn]
              1083 %% Model-Checking Games
              1084 \cmdtxtoparname{MCG} [MC]
              1086 %% Ehrenfeucht-Fraisse Games
              1087 \cmdtxtoparname{EFG}[EF]
```

• \UExpTime[sub][sup][ext] = UExpTIME_SUB_EXT

 $\verb|\UExpTimeE[sub][sup][ext]| = UEXPTIME-EASY_{SUB}^{SUP}EXT$

```
\PlrSym, \OppSym
                 1089 \newcommand{\plrsym}{E}
                 1090 \cmdmthsym{Plr}[\plrsym]
                 1091 \newcommand{\oppsym}{A}
                 1092 \cmdmthsym{Opp} [\oppsym]
\ArenaName, ... ...
                 1093 \newcommand{\arenaname}{A}
                 1094 \verb|\arena| {\tt Name} {\tt [\arenaname]}|
   \PosSet, ...
                1095 \newcommand{\possym}{v}
                1096 \newcommand{\posset}{Ps}
                1097 \cmdmthsetext{Pos}[\posset][\possym]
                 1098 \cmdmthsymelm{ipos}[\possym_{I}]
                 1099 \cmdmthsymelm{fpos}[\possym_{F}]
                 1100 \cmdmthset{PPos}[\posset_{\PlrSym}]
                 1101 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                 1102 \cmdmthset{OPos} [\posset_{\OppSym}]
                 1103 \cmdmthsymelm{opos}[\possym_{\OppSym}]
        \PlrFun
                 1104 \mbox{ } \mbox{newcommand{\plrfun}{pl}}
                 1105 \cmdmthfun{plr}[\plrfun]
        \MovRel ...
                1106 \newcommand{\movrel}{Mv}
                1107 \cmdmthrel{Mov}[\movrel]
 \GameName, ...
                1108 \newcommand{\gamename}{\Game}
                1109 \usrmthlatupp{Game}{Name}{name}[\gamename]
        \WinSet ...
                1110 \newcommand{\winset}{Wn}
                 1111 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun ...
                 1112 \newcommand{\obsset}{Ob}
                 1113 \cmdmthset{Obs}[\obsset]
                 1114 \cmdmthfun{obs}
                 \PthSet, \pthFun ...
                1116 \newcommand{\pthsym}{\pi}
                 1117 \newcommand{\pthset}{Pth}
                 1118 \cmdmthsetext{Pth}[\pthset][\pthsym]
                1119 \cmdmthfun{pth}
   \HstSet, ... ...
                1120 \newcommand{\hstsym}{\rho}
                1121 \newcommand{\hstset}{Hst}
                1122 \cmdmthsetext{Hst}[\hstset][\hstsym]
                 1123 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                 1124 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                 1125 \cmdmthset{OHst}[\hstset_{\OppSym}]
                 1126 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                 1127 \cmdmthfun{hst}
```

```
\PlaySet,\playFun
                   1128 \newcommand{\playsym}{\pi}
                   1129 \mbox{\newcommand{\playset}{Play}}
                   1130 \cmdmthsetext{Play}[\playset][\playsym]
                   1131 \cmdmthfun{play}
    \StrSet, ... ...
                  1132 \newcommand{\strsym}{\sigma}
                  1133 \newcommand{\strset}{Str}
                   1134 \cmdmthsetext{Str}[\strset][\strsym]
                   1135 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1136 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1137 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1138 \verb|\cmdmthsymelm{ostr}[\strsym_{\colored}]|
\PrfSet, \prfFun
                   1139 \newcommand{\prfsym}{\xi}
                   1140 \newcommand{\prfset}{Prf}
                   1141 \cmdmthsetext{Prf}[\prfset][\prfsym]
\preFun, \sucFun
                   1142 \newcommand{\prefun}{pre}
                   1143 \cmdmthoargfun{pre}[\prefun]
                   1144 \newcommand{\sucfun}{suc}
                   1145 \cmdmthoargfun{suc}[\sucfun]
\entFun, \escFun ...
                  1146 \newcommand{\entfun}{ent}
                   1147 \cmdmthoargfun{ent}[\entfun]
                   1148 \mbox{ }\mbox{newcommand{\escfun}{esc}}
                   1149 \cmdmthoargfun{esc}[\escfun]
\intFun, \outFun ...
                   1150 \newcommand{\intfun}{int}
                   1151 \cmdmthoargfun{int}[\intfun]
                   1152 \neq \{ outfun \} 
                   1153 \cmdmthoargfun{out}[\outfun]
\atrFun, \rchFun ...
                  1154 \newcommand{\atrfun}{atr}
                   1155 \cmdmthoargfun{atr}[\atrfun]
                   1156 \mbox{ } \mbox{newcommand{\rchfun}{rch}}
                   1157 \cmdmthoargfun{rch}[\rchfun]
         \liftFun ...
                   1158 \newcommand{\liftfun}{lift}
                   1159 \cmdmthoargfun{lift}[\liftfun]
         \solFun ...
                   1160 \mbox{ } \mbox{newcommand{\solfun}{sol}}
                   1161 \cmdmthoargfun{sol}[\solfun]
                   \BG, ... ...
                  1163 %% Buchi Games
                   1164 \cmdtxtoparname{BG}
                   1165
                   1166 %% Co-Buchi Games
                   1167 \cmdtxtoparname{CG}
                   1169 %% Parity Games
```

```
1170 \cmdtxtoparname{PG}
          1172 %% Rabin Games
          1173 \cmdtxtoparname{RG}
          1175 %% Streett Games
          1176 \cmdtxtoparname{SG}
          1178 %% Muller Games
          1179 \cmdtxtoparname{MG}
          \EvnSym, \OddSym
          1181 \newcommand{\evnsym}{0}
          1182 \cmdmthsym{Evn}[\ensuremath{\cmsym}]
          1183 \neq 1183 
          1184 \cmdmthsym{Odd} [\oddsym]
\PrtSet, \prtFun
          1185 \newcommand{\prtsym}{p}
          1186 \mbox{ } \mbox{newcommand{\prtset}{Pr}}
          1187 \cmdmthsetext{Prt}[\prtset][\prtsym]
          1188 \cmdmthfun{prt}[pr]
          \EG, ... ...
          1191 %% Energy Games
          1192 \cmdtxtoparname{EG}
          1194 %% Mean-Payoff Games
          1195 \cmdtxtoparname{MPG}
          1196
          1197 %% Discounted-Payoff Games
          1198 \cmdtxtoparname{DPG}
          \MaxSym, \MinSym
          1200 \mbox{newcommand{\maxsym}{\oplus}}
          1201 \cmdmthsym{Max}[\maxsym]
          1202 \mbox{ \newcommand{\minsym}{\hoxminus}}
          1203 \cmdmthsym{Min}[\minsym]
\WghSet, \wghFun
          1204 \mbox{ \newcommand{\wghsym}{w}}
          1205 \mbox{ \newcommand{\wghset}{Wg}}
          1206 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
          1207 \cmdmthfun{wgh} [wg]
          1209 \fi
          1214 \iflog@
```

```
\BF, \QBF, ... ...
                 1216 % Boolean Formulae
                 1217 \cmdtxtoparname{BF}
                 1219 % Quantified Boolean Formulae
                 1220 \DeclareRobustCommand{\QBF}
                 1221 \{\{\text{txtname}\{Q\}\}\}\}
                 1222 \DeclareRobustCommand{\EBF}
                 1223 {\ensuremath{\exists}\BF}
                 1224 \DeclareRobustCommand{\UBF}
                      {\ensuremath{\forall}\BF}
                 \LogSig, ... ...
                 1227 \newcommand{\lceil logsig}{L}
                 1228 \usrmthlatupp{Log}{Sig}{sig}[\logsig]
       \Tt, \Ff ...
                 1229 \mbox{newcommand{\ttsym}{\top}}
                 1230 \operatorname{Tt}{sym}[\operatorname{ttsym}]
                 1231 \newcommand{\ffsym}{\bot}
                 1232 \operatorname{ffsym}[\ffsym]
    \LNeg, \LNot ...
                 1233 \newcommand{\lnegsym}{\neg}
                 1234 \usrmth{LNeg}{}{luop}[\lnegsym]
                 1235 \newcommand{\lnotsym}{\sim}
                 1236 \usrmth{LNot}{}{luop}[\lnotsym]
    \LCon, \LDis ...
                 1237 \mbox{\newcommand{\lconsym}{\land}}
                 1238 \usrmth{LCon}{}{lbop}[\lconsym]
                 1239 \mbox{ \newcommand{\ldissym}{\lor}}
                 1240 \usrmth{LDis}{}{lbop}[\ldissym]
    \LImp, \LCoi ...
                 1241 \newcommand{\limpsym}{\rightarrow}
                 1242 \usrmth{LImp}{}{lbop}[\limpsym]
                 1243 \newcommand{\lcoisym}{\leftrightarrow}
                 1244 \usrmth{LCoi}{}{lbop}[\lcoisym]
    \LExs, \LAll ...
                 1245 \newcommand{\lexssym}{\exists}
                 1246 \usrmth{LExs}{}{luop}[\lexssym]
                 1247 \newcommand{\lallsym}{\forall}
                 1248 \usrmth{LAll}{}{luop}[\lallsym]
     \APSet, ... ...
                 1249 \newcommand{\apsym}{p}
                 1250 \mbox{ } \mbox{apset}{AP}
                 1251 \cmdmthsetext{AP}[\apset][\apsym]
                 1252 \cmdmthfun{ap}\usrmth{ap}{}{argfun}
           \sub ...
                 1253 \usrmth{sub}{}{argfun}
\Cnt, \Qnt, \Sym ...
                 1254 \usrmth{Cnt}{}{sym}[C]
                 1255 \usrmth{Qnt}{}{sym}[Q]
                 1256 \usrmth{Sym}{}{sym}[\odot]
```

```
\QAE, \QEA ...
                                     1257 \usrmth{QAE}{}{sym}[\forall\exists]
                                     1258 \verb|\usrmth{QEA}{{}} sym} [\ensuremath{\columnwidth} [\ensuremath{\columnwidth} sym}] [\ensure
      \QntSet, ... ...
                                    1259 \newcommand{\qntsym}{\wp}
                                     1260 \mbox{ } \mbox{qntset}{Qn}
                                     1261 \cmdmthsetext{Qnt}[\qntset][\qntsym]
    \free, \bound ...
                                     1262 \usrmth{free}{}{argfun}
                                     1263 \usrmth{bound}{}{argfun}
           \dep, \alt ...
                                     1264 \usrmth{dep}{}{argfun}
                                     1265 \usrmth{alt}{}{argfun}
\cnf, \dnf, ... ...
                                     1266 \cmdtxtabr{cnf}
                                     1267 \cmdtxtabr{dnf}
                                     1268 \cmdtxtabr{pnf}
                                     1269 \cmdtxtabr{nnf}
                                     \LogStr, ... ...
                                    1271 \newcommand{\logstr}{L}
                                    1272 \usrmthlatupp{Log}{Str}{str}[\logstr]
      \ValSet, ... ...
                                    1273 \newcommand{\valsym}{\xi}
                                     1274 \newcommand{\valset}{Val}
                                    1275 \cmdmthsetext{Val}[\valset][\valsym]
      \AsgSet, ... ...
                                     1276 \newcommand{\asgsym}{\chi}
                                    1277 \newcommand{\asgset}{Asg}
                                     1278 \cmdmthsetext{Asg}[\asgset][\asgsym]
                                     \FOL, ... ...
                                    1280 % First-Order Logic
                                     1281 \cmdtxtoparname{FOL}[Fol]
                                     1282 \cmdtxtoparname{F0}[F0]
                                    1284 % Monadic First-Order Logic
                                    1285 \DeclareRobustCommand{\MFOL}
                                     1286 \quad \{\{\text{txtname}\{M\}\}\} \setminus \{0\}\}
                                     1287 \DeclareRobustCommand{\MFO}
                                     1288 \quad \{\{\text{txtname}\{M\}\}\} \}
                                     \VarSig, ... ...
                                     1290 \newcommand{\varsig}{V}
                                     1291 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                                     1292 \newcommand{\varsym}{x}
                                     1293 \newcommand{\varset}{Vr}
                                     1294 \cmdmthsetext{Var}[\varset][\varsym]
                                     1295 \usrmth{var}{}{argfun}[vr]
```

```
\ConSig, ... ...
              1297 \mbox{ } \mbox{command{\consig}{C}}
              1298 \usrmthlatupp{Con}{Sig}{sig}[\consig]
              1299 \mbox{ } \mbox{consym}{c}
              1300 \newcommand{\conset}{Cn}
              1301 \cmdmthsetext{Con}[\conset][\consym]
              1302 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
              1303 \mbox{ }\mbox{newcommand{\funsig}{F}}
              1304 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
              1305 \mbox{ }\mbox{newcommand{\hrunsym}{f}}
              1306 \newcommand{\funset}{Fn}
              1307 \cmdmthsetext{Fun} [\funset] [\funsym]
              1308 \usrmth{fun}{}{argfun}[fn]
              1309 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
              1310 \newcommand{\tersig}{T}
              1311 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
              1312 \newcommand{\tersym}{t}
              1313 \newcommand{\terset}{Tr}
              1314 \cmdmthsetext{Ter}[\terset][\tersym]
              1315 \usrmth{ter}{}argfun}
\RelSig, ... ...
              1316 \newcommand{\relsig}{R}
              1317 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
              1318 \mbox{ } \mbox{newcommand{\relsym}{r}}
              1319 \newcommand{\relset}{Rl}
              1320 \cmdmthsetext{Rel}[\relset][\relsym]
              1321 \usrmth{rel}{}{argfun}[rl]
        \skm ...
              1322 \usrmth{skm}{}{argfun}
              \ConStr, ... ...
              1324 \newcommand{\constr}{C}
              1325 \verb|\usrmth|| atupp{Con}{Str}{str}[\constr]|
\FunStr, ... ...
              1326 \mbox{ } \mbox{newcommand{\funstr}{F}}
              1327 \usrmthlatupp{Fun}{Str}{str}[\funstr]
\TerStr, ... ...
              1328 \mbox{ } \mbox{newcommand{\terstr}{T}}
              1329 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
              1330 \newcommand{\relstr}{R}
              1331 \usrmthlatupp{Rel}{Str}{str}[\relstr]
              \DF, \IF, ... ...
              1333 % Dependence-Friendly Logic
              1334 \cmdtxtoparname{DF}
              1336 % Independence-Friendly Logic
              1337 \cmdtxtoparname{IF}
              1338
```

```
1339 % Dependence/Independence-Friendly Logic
              1340 \cmdtxtoparname{DIF}
              1341
              1342 % Dependence Logic
              1343 \cmdtxtoparname{DL}
              1345 % Team Logic
              1346 \cmdtxtoparname{TL}
              1348 % Alternating Dependence-Friendly Logic
              1349 \cmdtxtoparname{ADF}
              1351 % Alternating Independence-Friendly Logic
              1352 \cmdtxtoparname{AIF}
              1353
              1354 \% Alternating Dependence/Independence-Friendly Logic
              1355 \cmdtxtoparname{ADIF}
              \LEExs, \LAA11
              1357 \newcommand{\leexssym}{\Sigma}
              1358 \usrmth{LEExs}{}{luop}[\leexssym]
              1359 \newcommand{\laallsym}{\Pi}
              1360 \usrmth{LAAll}{}{luop}[\laallsym]
              \SOL, ... ...
              1363 % Second-Order Logic
              1364 \cmdtxtoparname{SOL}[Sol]
              1365 \cmdtxtoparname{SO}
              1366
              1367 % Weak Second-Order Logic
              1368 \DeclareRobustCommand{\WSOL}
                   {{\txtname{W}}\SOL}
              1370 \DeclareRobustCommand{\WSO}
                   {{\txtname{W}}\SO}
              1371
              1372
              1373 % coWeak Second-Order Logic
              1374 \DeclareRobustCommand{\coWSOL}
                  {{\txtname{coW}}\SOL}
             1376 \DeclareRobustCommand{\coWSO}
             1377
                  {{\txtname{coW}}\SO}
             1378
             1379 % Monadic Second-Order Logic
              1380 \DeclareRobustCommand{\MSOL}
                  {{\txtname{M}}\SOL}
              1382 \DeclareRobustCommand{\MSO}
                  {{\txtname{M}}\SO}
             1384
             1385 % Weak Monadic Second-Order Logic
              1386 \DeclareRobustCommand{\WMSOL}
                  {{\txtname{W}}\MSOL}
              1388 \DeclareRobustCommand{\WMSO}
                  {\{\text{\txtname}\{W\}}\MSO\}
              1389
              1390
              1391 % coWeak Monadic Second-Order Logic
              1392 \DeclareRobustCommand{\coWMSOL}
```

```
{{\txtname{coW}}\MSOL}
             1394 \DeclareRobustCommand{\coWMSO}
                  {{\txtname{coW}}\MSO}
             \FVarSet, ...
             1397 \newcommand{\fvarsym}{x}
             1398 \newcommand{\fvarset}{FVr}
             1399 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
\SVarSet, ... ...
             1400 \newcommand{\svarsym}{X}
             1401 \newcommand{\svarset}{SVr}
             1402 \cmdmthsetext{SVar}[\svarset][\svarsym]
             \TL, \PL, ... ...
             1405 % Tree Logic
             1406 \cmdtxtoparname{TL}
             1407
             1408 % Weak Tree Logic
             1409 \DeclareRobustCommand{\WTL}
             1410
                   {\{\text{txtname}\{W\}}\}\TL\}
             1411
             1412 % coWeak Tree Logic
             1413 \DeclareRobustCommand{\coWTL}
                  {\{\text{txtname}\{\text{coW}\}\}\}}
             1415
             1416\ \% Monadic Tree Logic
             1417 \DeclareRobustCommand{\MTL}
                  {\{\text{txtname}\{M\}}\TL\}
             1418
             1419
             1420 % Weak Monadic Tree Logic
             1421 \DeclareRobustCommand{\WMTL}
                  {{\txtname{W}}\MTL}
             1423
             1424 % coWeak Monadic Tree Logic
             1425 \DeclareRobustCommand{\coWMTL}
             1426 \quad \{\{\texttt{\txtname}\{\texttt{coW}\}\}\texttt{\MTL}\}
             1427
             1428 % Path Logic
             1429 \cmdtxtoparname{PL}
             1431 % Weak Path Logic
             1432 \DeclareRobustCommand{\WPL}
                   {\{\txtname{W}}\tylength{W}}\tylength{V}
             1433
             1434
             1435 % coWeak Path Logic
             1436 \DeclareRobustCommand{\coWPL}
             1437
                   {\{\text{coW}}\
             1438
             1439 \% Monadic Path Logic
             1440 \DeclareRobustCommand{\MPL}
                   {{\txtname{M}}\PL}
             1441
             1442
             1443 % Weak Monadic Path Logic
             1444 \DeclareRobustCommand{\WMPL}
             1445
                   {{\txtname{W}}\MPL}
             1446
```

```
1447 % coWeak Monadic Path Logic
             1448 \DeclareRobustCommand{\coWMPL}
                {{\txtname{coW}}\MPL}
             \ML, \GML, ... ...
             1453 % Modal Logic
             1454 \cmdtxtoparname{ML}
             1455
             1456 % Graded Modal Logic
             1457 \DeclareRobustCommand{\GML}
                 {{\txtname{G}}\ML}
             1458
             1460 % Quantified Modal Logic
             1461 \DeclareRobustCommand{\QML}
             1462 \quad \{\{\text{txtname}\{Q\}\}\}\}
             1463 \DeclareRobustCommand{\EML}
             1464 {\ensuremath{\exists}\ML}
             1465 \DeclareRobustCommand{\UML}
             1466 {\ensuremath{\forall}\ML}
             \Opr ...
             1468 \usrmth{Opr}{}{sym}[Op]
  \DMod, \BMod ...
             1469 \usrmth{DMod}{}{sym}[\Diamond]
             1470 \usrmth{BMod}{}{sym}[\Box]
    \Exs, \All ...
             1471 \DeclareRobustCommand{\Exs}[1]
             1472 \quad {\bf \{\defval{\argmid{\langle}}{\langle}}{\defval}}
             1473 \DeclareRobustCommand{\All}[1]
             \KrpStr, ... ...
             1476 \newcommand{\krpstr}{K}
            1477 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
  \WrlSet, ... ...
            1478 \newcommand{\wrlsym}{w}
             1479 \newcommand{\wrlset}{W}
             1480 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
             1481 \cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel ...
             1482 \mbox{newcommand{\accsym}{R}}
             1483 \cmdmthrel{Acc}[\accsym]
             1484 \cmdmthrel{Trn}[\accsym]
      \labFun ...
             1485 \mbox{\labsym}{{\labsym}}
```

1486 \cmdmthfun{lab}[\labsym]

```
\PthSet, \pthFun
               1487 \providecommand{\pthsym}{\pi}
               1488 \providecommand{\pthset}{Pth}
               1489 \cmdmthsetext{Pth} [\pthset] [\pthsym]
               1490 \mbox{ } \mbox{cmdmthfun{pth}}
               \MC, \GMC, ... ...
               1492 % Mu Calculus
               1493 \cmdtxtoparname{MC} [\ensuremath{\mu}-Calculus]
               1495 % Graded Mu Calculus
               1496 \DeclareRobustCommand{\GMC}
               1497 \{\{\text{txtname}\{G\}\}\}\
               1499 % Quantified Mu Calculus
               1500 \DeclareRobustCommand{\QMC}
                   {\{\text{txtname}\{Q\}\}\setminus MC\}}
               1502 \DeclareRobustCommand{\EMC}
               1503 {\ensuremath{\exists}\MC}
               1504 \verb|\DeclareRobustCommand{\UMC}|
                   {\ensuremath{\forall}\MC}
               1505
               1507 % Alternation-Free Mu Calculus
               1508 \DeclareRobustCommand{\AFMC}
               1509
                    {{\txtname{AF}}\MC}
               1511 % Alternation-Free Graded Mu Calculus
               1512 \DeclareRobustCommand{\AFGMC}
               1513 {{\txtname{AF}}\GMC}
               1515 % Quantified Alternation-Free Mu Calculus
               1516 \DeclareRobustCommand{\QAFMC}
               1517 \{\{\text{xtname}\{Q\}\}\}\AFMC}
               1518 \DeclareRobustCommand{\EAFMC}
               1519 {\ensuremath{\exists}\AFMC}
               1520 \DeclareRobustCommand{\UAFMC}
               1521
                    {\ensuremath{\forall}\AFMC}
               \PTL, \LTL, ...
               1526 % Propositional Temporal Logic
               1527 \cmdtxtoparname{PTL}
               1529 % Quantified Propositional Temporal Logic
               1530 \DeclareRobustCommand{\QPTL}
                    {\{\text{txtname}\{Q\}\}\PTL}
               1532 \DeclareRobustCommand{\EPTL}
                   {\ensuremath{\exists}\PTL}
               1534 \DeclareRobustCommand{\UPTL}
               1535
                    {\ensuremath{\forall}\PTL}
               1537 % Linear Temporal Logic
               1538 \cmdtxtoparname{LTL}
               1539
```

```
1540 % Quantified Linear Temporal Logic
                                    1541 \DeclareRobustCommand{\QLTL}
                                    1542 {\{\text{txtname}\{Q\}\}\setminus LTL\}}
                                    1543 \DeclareRobustCommand{\ELTL}
                                              {\ensuremath{\exists}\LTL}
                                    1545 \DeclareRobustCommand{\ULTL}
                                               {\ensuremath{\forall}\LTL}
                                    \X, ... ...
                                   1548 \usrmth{X}{}{sym}[X\,]
                                   1549 \usrmth{F}{}{sym}[F\,]
                                    1550 \usrmth{G}{}{sym}[G\,]
                                    1551 \usrmth{U}{}{sym}[\,U\,]
                                   1552 \usrmth{R}{}{sym}[\,R\,]
                \Y, ... ...
                                    1553 \usrmth{Y}{}{sym}[G\,]
                                    1554 \operatorname{P}{{\rm p}}{{\rm p},]\left( {\rm SavePilcrow} \right)}
                                    1555 \usrmth{H}{}{sym}[H\,]\let\SaveDoubleAcute\H
                                    1556 \space{1556 \space{1556
                                    1557 \usrmth{B}{}{sym}[\,B\,]
                                    \PDL, \CTL, ...
                                   1561 % Propositional Dynamic Logic
                                   1562 \cmdtxtoparname{PDL}
                                   1563
                                   1564 % Computation Tree Logic
                                    1565 \cmdtxtoparname{CTL}
                                    1566
                                    1567 % Weak Computation Tree Logic
                                    1568 \DeclareRobustCommand{\WCTL}
                                               {{\txtname{W}}\CTL}
                                    1571 % Quantified Computation Tree Logic
                                    1572 \DeclareRobustCommand{\QCTL}
                                    1573 \{\{\text{txtname}\{Q\}\}\CTL\}
                                    1574 \DeclareRobustCommand{\ECTL}
                                              {\ensuremath{\exists}\CTL}
                                   1576 \DeclareRobustCommand{\UCTL}
                                               {\ensuremath{\forall}\CTL}
                                    1579 % Improved Computation Tree Logic
                                    1580 \cmdtxtoparname{CTLP}[CTL$^{+}$]
                                    1582 % Weak Improved Computation Tree Logic
                                    1583 \DeclareRobustCommand{\WCTLP}
                                    1584
                                                {{\txtname{W}}\CTLP}
                                    1585
                                    1586\ \% Quantified Improved Computation Tree Logic
                                    1587 \DeclareRobustCommand{\QCTLP}
                                               {{\txtname{Q}}\CTLP}
                                    1588
                                    1589 \DeclareRobustCommand{\ECTLP}
                                               {\ensuremath{\exists}\CTLP}
                                    1591 \DeclareRobustCommand{\UCTLP}
                                    1592
                                               {\ensuremath{\forall}\CTLP}
                                    1593
```

```
1594 % Full Computation Tree Logic
         1595 \cmdtxtoparname{CTLS}[CTL*]
         1596
         1597 % Weak Full Computation Tree Logic
         1598 \DeclareRobustCommand{\WCTLS}
               {{\txtname{W}}\CTLS}
         1599
         1600
         1601 % Quantified Full Computation Tree Logic
         1602 \DeclareRobustCommand{\QCTLS}
              {{\txtname{Q}}\CTLS}
         1604 \DeclareRobustCommand{\ECTLS}
              {\ensuremath{\exists}\CTLS}
         1606 \DeclareRobustCommand{\UCTLS}
              {\ensuremath{\forall}\CTLS}
         \E, \A ...
         1609 \usrmth{E}{}{sym}
         1610 \usrmth{A}{}{sym}
         \ATL, ...
         1613 % Alternating Temporal Logic
         1614 \cmdtxtoparname{ATL}
         1616 % Weak Alternating Tree Logic
         1617 \DeclareRobustCommand{\WATL}
         1618
               {\{\text{Xtname}\{W\}\}\setminus ATL\}}
         1619
         1620 % Quantified Alternating Temporal Logic
         1621 \DeclareRobustCommand{\QATL}
              {\{\text{txtname}\{Q\}\}\setminus ATL\}}
         1622
         1623 \DeclareRobustCommand{\EATL}
              {\ensuremath{\exists}\ATL}
         1625 \DeclareRobustCommand{\UATL}
         1626
               {\ensuremath{\forall}\ATL}
         1628 % Improved Alternating Temporal Logic
         1629 \cmdtxtoparname{ATLP}[ATL$^{+}$]
         1631 % Weak Improved Alternating Tree Logic
         1632 \DeclareRobustCommand{\WATLP}
              {\{\text{XTLP}\}}
         1635 % Quantified Improved Alternating Temporal Logic
         1636 \DeclareRobustCommand{\QATLP}
              {{\txtname{Q}}\ATLP}
         1638 \DeclareRobustCommand{\EATLP}
              {\ensuremath{\exists}\ATLP}
         1640 \DeclareRobustCommand{\UATLP}
         1641
              {\ensuremath{\forall}\ATLP}
         1643\ \% Full Alternating Temporal Logic
         1644 \cmdtxtoparname{ATLS}[ATL*]
         1645
         1646 % Weak Full Alternating Tree Logic
         1647 \DeclareRobustCommand{\WATLS}
               {{\txtname{W}}\ATLS}
          1649
```

```
1650 % Quantified Full Alternating Temporal Logic
             1651 \DeclareRobustCommand{\QATLS}
             1652 \{\{\text{txtname}\{Q\}\}\setminus ATLS\}
             1653 \DeclareRobustCommand{\EATLS}
             1654 {\ensuremath{\exists}\ATLS}
             1655 \DeclareRobustCommand{\UATLS}
                 {\ensuremath{\forall}\ATLS}
             \EExs, \AAll
             1658 \DeclareRobustCommand{\EExs}[1]
                  {\mth{\argmid{\langle\!\langle}{\defval{#1}{\emptyset}}}{\rangle\!\rangle}}}
             1660 \DeclareRobustCommand{\AAll}[1]
                  \CGS ...
             1663 \cmdtxtname{CGS}
\CGSStr, ... ...
             1664 \mbox{newcommand{\cgsstr}{G}}
             1665 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
             1666 \newcommand{\agnsym}{a}
             1667 \newcommand{\agnset}{Ag}
             1668 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
             1669 \providecommand{\possym}{v}
             1670 \providecommand{\posset}{Ps}
             1671 \cmdmthsetext{Pos}[\posset][\possym]
             1672 \cmdmthsymelm{ipos}[\possym_{I}]
             1673 \cmdmthsymelm{fpos}[\possym_{F}]
             1674 \cmdmthset{PPos} [\posset_{\PlrSym}]
             1675 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
             1676 \cmdmthset{OPos} [\posset_{\OppSym}]
             1677 \cmdmthsymelm{opos}[\possym_{\OppSym}]
\SttSet, ... ...
             1678 \mbox{ } \mbox{newcommand{\sttsym}{s}}
             1679 \newcommand{\sttset}{St}
             1680 \cmdmthsetext{Stt}[\sttset][\sttsym]
             1681 \cmdmthset{IStt}[\sttset_{I}]
             1682 \mbox{ \cmdmthsymelm{istt}[\sttsym_{I}]}
             1683 \cmdmthset{FStt}[\sttset_{F}]
             1684 \cmdmthsymelm{fstt}[\sttsym_{F}]
\ActSet, ... ...
             1685 \newcommand{\actsym}{c}
             1686 \newcommand{\actset}{Ac}
             1687 \cmdmthsetext{Act}[\actset][\actsym]
\DecSet, ... ...
             1688 \mbox{ \newcommand{\decsym}{d}}
             1689 \newcommand{\decset}{Dc}
             1690 \cmdmthsetext{Dec} [\decset] [\decsym]
    \movFun
             1691 \newcommand{\movsym}{\tau}
             1692 \cmdmthfun{mov} [\movsym]
```

```
\HstSet, ... ...
                   1693 \providecommand{\hstsym}{\rho}
                   1694 \providecommand{\hstset}{Hst}
                   1695 \cmdmthsetext{Hst}[\hstset][\hstsym]
                   1696 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                   1697 \verb|\cmdmthsymelm{phst}[\hstsym_{\prox m}]
                   1698 \cmdmthset{OHst}[\hstset_{\OppSym}]
                   1699 \verb|\cmdmthsymelm{ohst}[\hstsym_{\coloredge m}]|
                   1700 \cmdmthfun{hst}
\PlaySet,\playFun
                   1701 \providecommand{\playsym}{\pi}
                   1702 \providecommand{\playset}{Play}
                   1703 \cmdmthsetext{Play}[\playset][\playsym]
                   1704 \cmdmthfun{play}
     \StrSet, ...
                   1705 \providecommand{\strsym}{\sigma}
                   1706 \providecommand{\strset}{Str}
                   1707 \verb|\cmdmthsetext{Str}| [\verb|\strset|] [\|\strsym|]
                   1708 \cmdmthset{PStr}[\strset_{\PlrSym}]
                   1709 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                   1710 \cmdmthset{OStr}[\strset_{\OppSym}]
                   1711 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
 \PrfSet, \prfFun
                   1712 \displaystyle \frac{\providecommand{\prfsym}{\xi}}
                   1713 \providecommand{\prfset}{Prf}
                   1714 \verb|\cmdmthsetext{Prf}[\prfset][\prfsym]
                   \SL, ... ...
                   1716 % Strategy Logic
                   1717 \cmdtxtoparname{SL}
                   1718
                   1719 \DeclareRobustCommand{\ESL}
                   1720 {\ensuremath{\exists}\SL}
                   1721 \DeclareRobustCommand{\USL}
                         {\ensuremath{\forall}\SL}
                   1722
                   1723
                   1724 \DeclareRobustCommand{\FSL}
                         {\{\text{txtname}\{F\}\}\SL\}}
                   1727 \DeclareRobustCommand{\EFSL}
                         {\ensuremath{\exists}\FSL}
                   1729 \DeclareRobustCommand{\UFSL}
                   1730
                         {\ensuremath{\forall}\FSL}
                   1731
                   1732 \mbox{\ensuremath{\%}} One-Goal Strategy Logic
                   1733 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                         {\SL[#1][#2][1g\arglef{,}{#3}]}
                   1734
                   1735
                   1736 \DeclareRobustCommand{\EOGSL}
                          {\ensuremath{\exists}\OGSL}
                   1738 \DeclareRobustCommand{\UOGSL}
                   1739
                         {\ensuremath{\forall}\OGSL}
                   1740
                   1741 \DeclareRobustCommand{\FOGSL}
                         {{\txtname{F}}\OGSL}
                   1742
                   1743
                   1744 \DeclareRobustCommand{\EFOGSL}
                         {\ensuremath{\exists}\FOGSL}
```

```
1746 \DeclareRobustCommand{\UFOGSL}
1747
      {\ensuremath{\forall}\FOGSL}
1748
1749 % Conjunctive-Goal Strategy Logic
1750 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][cg\arglef{,}{#3}]}
1752
1753 \DeclareRobustCommand{\ECGSL}
     {\ensuremath{\exists}\CGSL}
1755 \DeclareRobustCommand{\UCGSL}
      {\ensuremath{\forall}\CGSL}
1758 \DeclareRobustCommand{\FCGSL}
      {\{\text{xtname}\{F\}\}\}\}
1759
1760
1761 \DeclareRobustCommand{\EFCGSL}
      {\ensuremath{\exists}\FCGSL}
1763 \DeclareRobustCommand{\UFCGSL}
1764
      {\ensuremath{\forall}\FCGSL}
1766 % Disjunctive-Goal Strategy Logic
1767 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
1768
      {\SL[#1][#2][dg\arglef{,}{#3}]}
1769
1770 \DeclareRobustCommand{\EDGSL}
      {\ensuremath{\exists}\DGSL}
1771
1772 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
1774
1775 \DeclareRobustCommand{\FDGSL}
      {\{\text{txtname}\{F\}\}\setminus xGSL\}}
1776
1778 \DeclareRobustCommand{\EFDGSL}
      {\ensuremath{\exists}\FDGSL}
1780 \DeclareRobustCommand{\UFDGSL}
      {\ensuremath{\forall}\FDGSL}
1781
1782
1783 % Alternating-Goal Strategy Logic
1784 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1786
1787 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
1789 \DeclareRobustCommand{\UAGSL}
1790
      {\ensuremath{\forall}\AGSL}
1791
1792 \DeclareRobustCommand{\FAGSL}
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1793
1794
1795 \DeclareRobustCommand{\EFAGSL}
     {\ensuremath{\exists}\FAGSL}
1797 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
1800 % Extended-Goal Strategy Logic
1801 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
1802
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1803
1804 \DeclareRobustCommand{\EEGSL}
      {\ensuremath{\exists}\EGSL}
1806 \DeclareRobustCommand{\UEGSL}
1807
      {\ensuremath{\forall}\EGSL}
1808
```

```
1809 \DeclareRobustCommand{\FEGSL}
              1810
                    {\{\text{txtname}\{F\}\}\setminus xGSL\}}
              1811
              1812 \DeclareRobustCommand{\EFEGSL}
                   {\ensuremath{\exists}\FEGSL}
              1814 \DeclareRobustCommand{\UFEGSL}
                    {\ensuremath{\forall}\FEGSL}
              1815
              1817 % Boolean-Goal Strategy Logic
              1818 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
                    {\SL[#1][#2][bg\arglef{,}{#3}]}
              1821 \DeclareRobustCommand{\EBGSL}
              1822
                    {\ensuremath{\exists}\BGSL}
              1823 \verb|\DeclareRobustCommand{\UBGSL}|
                    {\ensuremath{\forall}\BGSL}
              1824
              1825
              1826 \DeclareRobustCommand{\FBGSL}
                    {\{ \text{xtname}\{F\} \} \times GSL \}}
              1827
              1828
              1829 \DeclareRobustCommand{\EFBGSL}
                    {\ensuremath{\exists}\FBGSL}
              1831 \DeclareRobustCommand{\UFBGSL}
              1832
                    {\ensuremath{\forall}\FBGSL}
              1833
              1834 % Nested-Goal Strategy Logic
              1835 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
                    {\SL[#1][#2][ng\arglef{,}{#3}]}
              1836
              1837
              1838 \DeclareRobustCommand{\ENGSL}
                    {\ensuremath{\exists}\NGSL}
              1840 \DeclareRobustCommand{\UNGSL}
                    {\ensuremath{\forall}\NGSL}
              1841
              1842
              1843 \DeclareRobustCommand{\FNGSL}
                    {\{\text{xtname}\{F\}\}\times GSL\}}
              1844
              1845
              1846 \DeclareRobustCommand{\EFNGSL}
                    {\ensuremath{\exists}\FNGSL}
              1848 \DeclareRobustCommand{\UFNGSL}
              1849
                    {\ensuremath{\forall}\FNGSL}
              1851 % Undefined-Goal Strategy Logic
              1852 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
              1853
                    {\SL[#1][#2][xg\arglef{,}{#3}]}
              1854
              1855 \DeclareRobustCommand{\EXGSL}
              1856
                    {\ensuremath{\exists}\XGSL}
              1857 \DeclareRobustCommand{\UXGSL}
                    {\ensuremath{\forall}\XGSL}
              1858
              1859
              1860 \DeclareRobustCommand{\FXGSL}
                    {\{ \text{xtname}\{F\} \} xGSL \}}
              1861
              1863 \DeclareRobustCommand{\EFXGSL}
                    {\ensuremath{\exists}\FXGSL}
              1865 \DeclareRobustCommand{\UFXGSL}
                    {\ensuremath{\forall}\FXGSL}
              \BndSet, ...
              1868 \newcommand{\bndsym}{\flat}
              1869 \newcommand{\bndset}{Bn}
```

```
1870 \cmdmthsetext{Bnd}[\bndset][\bndsym]
                                                                      1871 \usrmth{bnd}{}{argfun}
                                            \psn
                                                                     1872 \usrmth{psn}{}{argfun}
                                                                      \nxtFun ...
                                                                      1874 \newcommand{\nxtfun}{nxt}
                                                                     1875 \cmdmthfun{nxt}[\nxtfun]
                                                                      1876 \fi
                                                                      1881 \ifaut@
                                                                      \DFA, ... ...
                                                                      1883 \verb|\cmdtxtoparname{DFA}\cmdtxtoparname{UFA}\cmdtxtoparname{AFA}|
                                                                      1885 \verb|\cmdtxtoparname{DWA}\cmdtxtoparname{WMA}\cmdtxtoparname{AWA}|
                                                                      1887 \verb|\cmdtxtoparname{DFW}\cmdtxtoparname{AFW}| cmdtxtoparname{AFW}| 
                                                                      1888 \cmdtxtoparname{DBW}\cmdtxtoparname{ABW}
                                                                      1889 \verb|\cmdtxtoparname{DCW}\cmdtxtoparname{ACW}| cmdtxtoparname{ACW}| 
                                                                      1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{ARW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}| $$ 1891 \verb|\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparname{DRW}\cmdtxtoparna
                                                                      1893 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
\GFG, \PD, ... ...
                                                                     1894 \cmdtxtoparname{GFG}
                                                                     1896 \cmdtxtoparname{PD}
                                                                     1897
                                                                     1898 %% ...
                                                                      \AutName, ...
                                                                     1900 \newcommand{\autname}{A}
                                                                     1901 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                                      1902 \newcommand{\autset}{Aut}
                                                                     1903 \cmdmthset{Aut}[\autset]
                          \WAutSet ...
                                                                      1904 \newcommand{\wautset}{WAut}
                                                                     1905 \cmdmthset{WAut}[\wautset]
        \SttSet, ... ...
                                                                     1906 \def\sttsym{q}
                                                                     1907 \def\sttset{Q}
                                                                      1908 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                                      1909 \cmdmthset{IStt}[\sttset_{I}]
                                                                      1910 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                                      1911 \cmdmthset{FStt}[\sttset_{F}]
                                                                      1912 \cmdmthsymelm{fstt}[\sttsym_{F}]
```

```
\SymSet, ... ...
                                     1913 \newcommand{\symsym}{\sigma}
                                     1914 \newcommand{\symset}{\Sigma}
                                     1915 \cmdmthsetext{Sym}[\symset][\symsym]
              \trnFun ...
                                     1916 \newcommand{\trnsym}{\delta}
                                     1917 \cmdmthfun{trn}[\trnsym]
                                     \LangFun
                                     1919 \mbox{newcommand{\langfun}{L}}
                                     1920 \cmdmthfun{Lang}[\langfun]
  \WrdSet, ...
                                    1921 \newcommand{\wrdsym}{w}
                                     1922 \newcommand{\wrdset}{Wr}
                                     1923 \cmdmthsetext{Wrd}[\wrdset][\wrdsym]
                                     \DTA, ... ...
                                     1925 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| cmdtxtoparname{ATA} | cmdtxtoparname{ATA}| cmdtxtoparname{ATA}|
                                     1927 \verb|\cmdtxtoparname{NFT}\cmdtxtoparname{VFT}\cmdtxtoparname{AFT}|
                                     1928 \verb|\cmdtxtoparname{NBT}\cmdtxtoparname{MBT}\cmdtxtoparname{ABT}|
                                     1929 \verb|\cmdtxtoparname{DCT}\cmdtxtoparname{ACT}| \\
                                     1930 \verb|\cmdtxtoparname{DPT}\cmdtxtoparname{MPT}| cmdtxtoparname{APT}| 
                                     1931 \verb|\cmdtxtoparname{DRT}\cmdtxtoparname{ART}| \\
                                     1932 \verb|\cmdtxtoparname{UST}\cmdtxtoparname{AST}| \\
                                     1933 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}\cmdtxtoparname{UMT}\cmdtxtoparname{AMT}|
                                     \TAutSet
                                     1935 \newcommand{\tautset}{TAut}
                                    1936 \cmdmthset{TAut}[\tautset]
  \DirSet, ... ...
                                    1937 \newcommand{\dirsym}{d}
                                     1938 \newcommand{\dirset}{\Lambda}
                                     1939 \cmdmthsetext{Dir}[\dirset][\dirsym]
                                     \TreeSet, ... ...
                                     1941 \newcommand{\treesym}{T}
                                     1942 \newcommand{\treeset}{Tr}
                                     1943 \cmdmthsetext{Tree} [\treeset] [\treesym]
               \wotFun
                                     1944 \newcommand{\wotfun}{wot}
                                     1945 \cmdmthfun{wot}[\wotfun]
                                     1951 \iffrm@
```

```
1952 %%...
       1953 \fi
       1958 \iffig@
       1959 \RequirePackage{tikz}
       1960 \usetikzlibrary{arrows,graphs,matrix,patterns,shapes}
       1961 \tikzstyle{every node} =
       1962 [draw = none, fill = none, black, thin]
       1963 \tikzstyle{every edge} +=
       1964 [black, thick]
       1965 \tikzstyle{noall} =
         [draw = none, fill = none]
       1967 \tikzstyle{nodraw} =
       1968 [draw = none, fill = white]
       1969 \tikzstyle{nofill} =
       1970 [draw = black, fill = none]
       1971 \ifwrpfig@
       1972 % Wrapfig Package
       1973 \RequirePackage{wrapfig}
       1974 \fi
       1975 \fi
       1980 \iftab@
       1981 %%...
       1987 \ifalg@
       1988 \RequirePackage[ruled,vlined]{algorithm2e}
       1989 \setlength{\algomargin}{1.25em}
       1990 \DontPrintSemicolon
       1991 \SetInd{0.25em}{0.5em}
 \Signature ...
       1992 \SetKw{Signature}{signature}
 \Macro, ... ...
       1993 \SetKwFor{Macro}{macro}{}}
       1994 \SetKwFor{Function}{function}{}}
       1995 \SetKwFor{Procedure}{procedure}{}{}
    \Let ...
       1996 \SetKwFor{Let}{let}{in}{}
\True, \False ...
       1997 \SetKw{True}{true}
       1998 \SetKw{False}{false}
```

. . .

```
\From, ... ...
                                                     1999 \SetKw{From}{from}
                                                      2000 \texttt{\SetKw{To}{to}}
                                                      2001 \SetKw{DownTo}{downto}
\GoTo, ... ...
                                                      2002 \SetKw{GoTo}{goto}
                                                      2003 \SetKw{Break}{break}
                                                      2004 \SetKw{Continue}{continue}
    \MIf, ... ...
                                                      2005 \texttt{\MElseIf}{\texttt{MElse}{\wif}{\welse \wif}{\welse}{\welse} \
                           \nlr ...
                                                       2006 \label{localized} $2006 \label{localized} $$2006 \label{localize
                                                                               {\addtocounter{AlgoLine}{1}%
                                                                                 \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
                                                      2008
                                                      2009 \fi
                                                      2011 \endinput
                                                       2012 (/package)
```

2 Change History

v0.0	v0.4
General: First public release 1	General: Refactoring, corrections, and
v0.1	extensions
General: Algorithm tricks	v0.5
v0.10	
General: Small refinements 1	General: Figure tricks
v0.11	v0.6
General: Few additions and corrections 1	General: Small refinements 1
v0.12	v0.7
General: New starred variants	General: Refinements, corrections, and
v0.13	extensions
General: Further starred variants 1	
v0.2	VU.8
General: Changes in auxiliary tricks 1	General: Few refinements and corrections 1
v0.3	v0.9
General: Few problems solved $\dots 1$	General: Small addition to 'Algorithm tricks' 1

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\bst,	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630 657	1099, 1101, 1103, 1124, 1126, 1136, 1138, 1481, 1672, 1673, 1675, 1677, 1682, 1684, 1697, 1699, 1709, 1711, 1910, 1912
\bst, _□	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \\ \verb \cmdmthvec \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
\bst,_\(\text{\left}\) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656 \cmdmthoargvec 725	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \verb \cmdmthvec \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
C \card 877 \caselower 592 \cdot 882 \cequiv, □ 825	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \verb \cmdmthvec \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
C \card 877 \caselower 592 \cdot 882 \cequiv, □ 825 \cf 742	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656 \cmdmthoargvec 725	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \verb \cmdmthvec \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
C \card 877 \caselower 592 \cdot 882 \cequiv, □ 825 \cf 742 \CGS 1663	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656 \cmdmthoargvec 725 \cmdmthopar 426, 430	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \verb \cmdmthvec \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $
C \card 877 \caselower 592 \cdot 882 \cequiv, □ 825 \cf 742 \CGS 1663 \CGSL 1750, 1754, 1756	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656 \cmdmthoargvec 725 \cmdmthopar 426, 430 \cmdmthoparcls 550	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \verb \cmdmthvec $
C \card 877 \caselower 592 \cdot 882 \cequiv,□ 825 \cf 742 \CGS 1663 \CGSL 1750, 1754, 1756 \cgsstr 1664, 1665	\cmdmthoargset 585 \cmdmthoargsig 559 \cmdmthoargsnt 685 \cmdmthoargstr 572 \cmdmthoargsym 630, 657 \cmdmthoargsymelm 656 \cmdmthoargvec 725 \cmdmthopar 426, 430 \cmdmthoparcls 550 \cmdmthoparelm 647, 664 \cmdmthoparfam 537	$\begin{array}{c} 1099,\ 1101,\ 1\overline{103},\ 1124,\\ 1126,\ 1136,\ 1138,\ 1481,\\ 1672,\ 1673,\ 1675,\ 1677,\\ 1682,\ 1684,\ 1697,\ 1699,\\ 1709,\ \ 1711,\ \ 1910,\ \ 1912\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ $
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