fmocdmac — FM's OCD LATEX Macro*

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Abstract

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

1 Implementation & Usage

```
1 (*package)
```

```
Required external packages:
```

```
2
3 \RequirePackage{etoolbox}
4
5 \RequirePackage{xargs}
6 \RequirePackage{xspace}
7 \RequirePackage{stringstrings}
8
9 \RequirePackage{amsmath}
10 \RequirePackage{amssymb}
11 \interdisplaylinepenalty=2500
```

```
Package options:
14 %% Text macro generation
15 \newif\iftxtgen@ \txtgen@false
16 \DeclareOption{txtgen}{\txtgen@true}
17 \DeclareOption{notxtgen}
    {\txtgen@false\text@false\com@false\gam@false\log@false\aut@false}
19
20 %% Math macro generation
21 \newif\ifmthgen@ \mthgen@false
22 \DeclareOption{mthgen}{\mthgen@true}
23 \DeclareOption{nomthgen}
    {\mthgen@false\math@false\gam@false\log@false\aut@false}
26 %% Elementary macros for text
27 \newif\iftext@ \text@false
28 \DeclareOption{text}{\text@true\txtgen@true}
29 \DeclareOption{notext}{\text@false}
31 %% Elementary macros for math
32 \newif\ifmath@ \math@false
33 \DeclareOption{math}{\math@true\mthgen@true}
34 \DeclareOption{nomath}{\math@false}
36 %% Macros for computational-complexity classes
```

^{*}This document describes version v0.3 of the fmocdmac package, last revised 2021/02/03.

```
37 \newif\ifcom@ \com@false
38 \DeclareOption{com}{\com@true\txtgen@true}
39 \DeclareOption{nocom}{\com@false}
41 %% Macros for games
42 \newif\ifgam@ \gam@false
43 \DeclareOption{gam}{\gam@true\txtgen@true\mthgen@true}
44 \DeclareOption{nogam}{\gam@false}
46 %% Macros for logics
47 \newif\iflog@ \log@false
48 \DeclareOption{log}{\log@true\txtgen@true\mthgen@true}
49 \DeclareOption{nolog}{\log@false}
51 %% Macros for automata
52 \newif\ifaut@ \aut@false
53 \DeclareOption{aut}{\aut@true\txtgen@true\mthgen@true}
54 \DeclareOption{noaut}{\aut@false}
55
56 %% Format-related tricks
57 \newif\iffrm@ \frm@false
58 \DeclareOption{frm}{\frm@true}
59 \DeclareOption{nofrm}{\frm@false}
61 %% Figure-related tricks
62 \newif\iffig@ \fig@false
63 \DeclareOption{fig}{\fig@true}
64 \DeclareOption{nofig}{\fig@false}
66 %% Table-related tricks
67 \newif\iftab@ \tab@false
68 \DeclareOption{tab}{\tab@true}
69 \DeclareOption{notab}{\tab@false}
71 %% Algorithm-related tricks
72 \neq 12 
73 \DeclareOption{alg}{\alg@true}
74 \DeclareOption{noalg}{\alg@false}
76 %% Auxiliary tricks
77 \newif\ifaux@ \aux@false
78 \DeclareOption{aux}{\aux@true}
79 \DeclareOption{noaux}{\aux@false}
81 %% Font tools
82 \newif\iffnttls@ \fnttls@true
83 \DeclareOption{nofnttls}{\fnttls@false}
85 %% Enumeration tools
86 \newif\ifenmtls@ \enmtls@true
87 \DeclareOption{noenmtls}{\enmtls@false}
89 %% AMS Theorem tools
90 \newif\ifamsthm@ \amsthm@true
91 \DeclareOption{noamsthm}{\amsthm@false}
93 %% Theorem tools
94 \newif\ifthmtls@ \thmtls@true
95 \DeclareOption{nothmtls}{\thmtls@false}
96
97 %% Hyper reference
98 \newif\ifhypref@ \hypref@true
99 \DeclareOption{nohypref}{\hypref@false}
```

```
100
        101 %% ...
        102
        103 %% Camera-ready version
        104 \newif\ifcrv@ \crv@false
        105 \DeclareOption{crv}{\crv@true}
        106
        107 %% Change bars
        108 \newif\ifchgbar@ \chgbar@false
        109 \DeclareOption{chgbar}{\chgbar@true}
        110
        111 %% Line numbers
        112 \newif\iflinnum@ \linnum@false
        113 \DeclareOption{linnum}{\linnum@true}
        114
         Option-processing code:
        115
        116 \DeclareOption*{\PackageWarning{fmocdmac}{Unknown~\CurrentOption}}%
        117
        118 \ExecuteOptions{txtgen, mthgen, text, math, com, gam, log, aut, aux}%
        120 \ProcessOptions\relax%
        122 \ifcsdef{if@twocolumn}{}{\newif\if@twocolumn}
        \mathbbo Bbo Math Font: ... to do!
        127 \left( \frac{mathbbo}{{\mathbb{Q}}}{\mathbb{Q}} \right)
 \matheus Eus Math Font: ... to do!
        \mathpzc Pzc Math Font: ... to do!
        129 \ifdef{\mathpzc}{}{\DeclareMathAlphabet{\mathpzc}{T1}{pzc}{m}{it}}
 \mathscr Scr Math Font: ... to do!
        130 \left\{ \mathbf{Mathscr} {\DeclareMathAlphabet{\mathbf{U}} {rsfs} {m} {n} \right\}
        \omicron Auxiliary Greek lowercase letter: ... to do!
        135 \csdef{omicron}{o}
\Alpha, ... Auxiliary Greek uppercase letters: ... to do!
        136 \csdef{Alpha}{A} \csdef{Beta}{B} \csdef{Epsilon}{E} \csdef{varEpsilon}{E}
        137 \csdef{Zeta}{Z} \csdef{Eta}{H} \csdef{Iota}{I} \csdef{Kappa}{K}
        138 \csdef{VarKappa}{K} \csdef{Mu}{M} \csdef{Nu}{N} \csdef{Omicron}{O}
        139 \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{A}{B} = "B"
                   144 \newcommand{\empchk}[2]
                           \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"
                   146 \mbox{ } \mbox{newcommand{\defval}[2]}
                           {\left\{ if \&#1\&#2\right\} }
                   \arglef Left extension: \arglef{\langle}\langle} \equiv \langle \lang
                 Argument \langle B \rangle is non-empty, and to the empty string, otherwise.
                        • \arglef{A}{} = ""
                        • \arglef{A}{B} = "AB"
                   149 \newcommand{\arglef}[2]
                            {\empchk{#2}{#1\allowbreak#2}}
                 Right extension: \operatorname{Argrig}(\langle A \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"
                   151 \newcommand{\argrig}[2]
                            {\empchk{#1}{#1\allowbreak#2}}
\Lambda Middle extension: \Lambda 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"
                   153 \newcommand{\argmid}[3]
                            {\verb|\empchk{#2}{#1\allowbreak#2\allowbreak#3}}|
                 Separators: \argsep{\langle A \rangle}{\langle B \rangle}{\langle C \rangle} evaluates to Argument \langle C \rangle, if Argument \langle A \rangle is empty, to
\argsep
                 Argument \langle A \rangle, if Argument \langle C \rangle is empty, and to the concatenation \langle ABC \rangle, otherwise.
                       • \argsep{}{B}{C} = "C"
                       • \argsep{A}{B}{} = "A"
                        • \argsep{A}{}{C} = "AC"
                        • \argsep{A}{B}{C} = "ABC"
                   155 \newcommand{\argsep}[3]
                            {\left. \frac{4}{k}1\&\#3\right.}
                   Variadic commands: \forall A \in \{\langle A \rangle\} \{\langle B \rangle\} \{\langle C \rangle\} \{\langle E \rangle\} \{\langle F \rangle\} \dots \text{ to do!}
                   158 \newcommand{\varcmd}[6]
                             {\expandafter\newcommand\csname gobble#1arg\endcsname[2]
                   159
                                 {\csname check#1arg\endcsname{\argsep{##1}{#4}{##2}}}%
                   160
                             \expandafter\newcommand\csname check#larg\endcsname[1]
                   161
                                 {\csname @ifnextchar\endcsname%
                   162
                                     \bgroup{\csname gobble#1arg\endcsname{##1}}{#2{##1#5}#6}}%
                   163
                             \expandafter\newcommand\csname#1\endcsname[1]
                   164
                                 {\csname check#1arg\endcsname{#3##1}}}
                   165
```

• \empchk{}{B} = ""

```
\seqoftag Sequence of tags: \seqoftag\{\langle A \rangle\}\{\langle B \rangle\}\{\langle C \rangle\} ... to do!
             167 \newcommand{\seqoftag}[3]
                  {\@for\itr:={#1}\do%
                    {\expandafter\csedef{\itr#2}%
             169
                      {\noexpand\csname #3\endcsname{\itr}}}
             170
  \seqofcmd Sequence of commands: \seqofcmd{\langle A\rangle}{\langle B\rangle}{\langle C\rangle} \text{... to do!}
             171 \newcommand{\seqofcmd}[3]
                  {\@for\itr:={#1}\do%
                    {\expandafter\csedef{\itr#2}%
             173
                      {\noexpand\csname #3\endcsname{\csname \itr\endcsname}}}
             174
             \seqoflatlow Sequence of Latin lowercase letters: \seqoflatlow\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             176 \newcommand{\seqoflatlow}
                  \{ \leq \{a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w,x,y,z\} \}
\seqoflatupp Sequence of Latin uppercase letters: \seqoflatupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             178 \newcommand{\seqoflatupp}
                  {\seqoftag{A,B,C,D,E,F,G,H,I,J,K,L,M,N,O,P,Q,R,S,T,U,V,W,X,Y,Z}}
\sequence of Latin letters: \sequence \{A\} \{\Bar{B}\} \... to do!
             180 \newcommand{\seqoflatlet}[2]
                  {\seqoflatlow{#1}{#2}\seqoflatupp{#1}{#2}}
             \seqofgrklow Sequence of Greek lowercase letters: \seqofgrklow\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             183 \newcommand{\seqofgrklow}
                  {\seqofcmd{alpha,beta,gamma,delta,epsilon,varepsilon,zeta,eta,theta,vartheta,%
                  iota,kappa,varkappa,lambda,mu,nu,xi,omicron,pi,varpi,rho,varrho,sigma,%
                  varsigma,tau,upsilon,phi,varphi,chi,psi,omega}}
            Sequence of Greek uppercase letters: \ensuremath{\mathsf{Valighter}} \{A\} \} \{\langle B \rangle \} \dots \text{ to do!}
\seqofgrkupp
             187 \newcommand{\seqofgrkupp}
                  {\seqofcmd{Alpha,Beta,Gamma,Delta,Epsilon,varEpsilon,Zeta,Eta,Theta,varTheta,%
             189
                  Iota, Kappa, varKappa, Lambda, Mu, Nu, Xi, Omicron, Pi, varPi, Rho, varRho, Sigma, %
                  varSigma,Tau,Upsilon,Phi,varPhi,Chi,Psi,Omega}}
\seqofgrklet Sequence of Greek letters: \seqofgrklet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             191 \newcommand{\seqofgrklet}[2]
                  \label{lower} $$\{ \sec \#1 \}_{\#2} \sec \#1 \}_{\#2} $$
             Sequence of lowercase letters: \seqoflow{\langle A \rangle}{\langle B \rangle} ... to do!
             194 \newcommand{\seqoflow}[2]
                 {\seqoflatlow{#1}{#2}\seqofgrklow{#1}{#2}}
            Sequence of uppercase letters: \seqofupp\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
  \seqofupp
             196 \newcommand{\seqofupp}[2]
                 {\seqoflatupp{#1}{#2}\seqofgrkupp{#1}{#2}}
  \seqoflet Sequence of all letters: \seqoflet\{\langle A \rangle\}\{\langle B \rangle\} ... to do!
             198 \newcommand{\seqoflet}[2]
                  {\seqoflow{#1}{#2}\seqofupp{#1}{#2}}
```

```
\newtxt ... to do!
                                                                                  • \mbox{\ensuremath{\text{newtxt[\mbox{\ensuremath{\text{Sup}}[Ext]} = "Name}_{sub}^{sup}Ext"}}
                                                                                  • \newtxt[\sffamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                                                                  \bullet \ \texttt{\newtxt[\ttfamily]{Name}[sub][sup][Ext]} = \texttt{\normalfont{Name}} \texttt{\normalfont{Ext}}
                                                                        204 \newcommandx{\newtxt}[5][1=, 3=, 4=, 5=]
                                                                       205 {\text{#1#2\txtsubsup[#1]{#3}{#4}#5}\xspace}
                 \newtxtsty ... to do!
                                                                                  • \mbox{newtxtsty}{\mbox{nme}[sub][sup][Ext] = "Name}_{sub}Ext"}
                                                                                  • \mbox{\newtxtsty}(\mbox{\newtxtsty}[\mbox{\newtxtsty}] {\newtxtsty}[\mbox{\newtxtsty}] {\newtxtsty}[\mbox{\newtxtsty}] {\newtxtsty}[\mbox{\newtxtsty}] = "Name_{sub}^{sup}Ext"
                                                                                  • \newtxtsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext] = "Name_sup_Ext"
                                                                        206 \newcommandx{\newtxtsty}[2][2=]
                                                                                        {\text{\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_sub_Ext1(Arg)Ext2"
                                                                                  • \newtxtarg[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_sub_Ext1(Arg)Ext2"
                                                                        208 \newcommandx{\newtxtarg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                       {\newtxt[#1]{#2}[#3][#4][#5\argmid{(}{#6}{)}#7]}
    \newtxtargsty ... to do!
                                                                                  • \newtxtargsty{\rmfamily}{\Name}[sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sup}^{sup} Ext1(Arg) Ext2"
                                                                                  • \newtxtargsty{\rmfamily}[\sffamily][\sup][\sup][\sup][\sup][\st1]{\Arg}[\st2] = "\Name*sup Ext1(\Arg)\Ext2"
                                                                                  • \newtxtargsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Namesub_Ext1(Arg)Ext2"
                                                                        210 \newcommandx{\newtxtargsty}[2][2=]
                                                                                        {\newtxtarg[\defval{#2}{#1}]}
            \newtxtoarg ... to do!
                                                                                  • \mbox{\ensuremath{\text{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\text{Name}}} \mbox{\ensuremath{\text{sup}}} \mbox{\ensuremath{\text{(Arg)}}}"
                                                                                  • \mbox{\ensuremath{\texttt{Name}}[sub][sup][Arg]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sub}}[Arg]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Sub}}[Arg]} = \mbox{\ensuremath{\texttt{Name}}} \mbox{\ensuremath{\texttt{Name}
                                                                                  • \newtxtoarg[\ttfamily]{Name}[sub][sup][Arg] = "Name sup (Arg)"
                                                                        212 \newcommandx{\newtxtoarg}[5][1=, 3=, 4=, 5=]
                                                                                            {\newtxtarg[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoargsty ... to do!
                                                                                  • \new txtoargsty{\mbox{\sc Name}}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                  • \mbox{\normalize} \{\mbox{\normalize} \ \mbox{\normalize} \ \mb
                                                                                  • \new txtoargsty{rmfamily}[\ttfamily]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                       214 \newcommandx{\newtxtoargsty}[2][2=]
                                                                                             {\newtxtoarg[\defval{#2}{#1}]}
                 \newtxtpar ... to do!
                                                                                  • \newtxtpar[\rmfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name_sup}Ext1[Par]Ext2"
                                                                                   \bullet \texttt{ \  \  } \texttt{[Ext2]} = \texttt{``Name}^{sup} \texttt{Ext1]} \texttt{[Par]} \texttt{[Ext2]} = \texttt{``Name}^{sup} \texttt{Ext1} \texttt{[Par]} \texttt{Ext2''} 
                                                                                   \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \
                                                                        216 \newcommandx{\newtxtpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                            {\newtxt[#1]{#2}[#3][#4][#5\argmid{[}{#6}{]}#7]}
    \newtxtparsty ... to do!
                                                                                   \bullet \texttt{\newtxtparsty}(\texttt{\name})[sub][sup][Ext1][Par][Ext2] = \texttt{\name}^{sup}_{sub}[Ext1][Par][Ext2] 
                                                                                  • \newtxtparsty{\rmfamily}[\sffamily]{\Name}[sub][sup][Ext1]{\Par}[Ext2] = "Name_sub_Ext1[\Par]Ext2"
```

• \newtxtparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Namesub_Ext1[Par]Ext2"

```
218 \newcommandx{\newtxtparsty}[2][2=]
                                            {\newtxtpar[\defval{#2}{#1}]}
      \newtxtopar ... to do!
                                         • \mbox{\ensuremath{\text{Name}}}[\mbox{\ensuremath{\text{Sub}}}][\mbox{\ensuremath{\text{Sup}}}][\mbox{\ensuremath{\text{Par}}}]"
                                         • \newtxtopar[\sffamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                         • \newtxtopar[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_Par]"
                                    220 \newcommandx{\newtxtopar}[5][1=, 3=, 4=, 5=]
                                              {\newtxtpar[#1]{#2}[#3][#4][]{#5}[]}
\newtxtoparsty ... to do!
                                          \bullet \texttt{\newtxtoparsty}\{\texttt{\name}\}[\texttt{\name}][\texttt{\normalfont{sup}}][\texttt{\normalfont{Par}}]" 
                                         • \newtxtoparsty{\rmfamily}[\sffamily]{Name}[sub][sup][Par] = "Name_sup_[Par]"
                                         • \newtxtoparsty{\rmfamily}[\ttfamily]{Name}[sub][sup][Par] = "Name_sub_[Par]"
                                    222 \newcommandx{\newtxtoparsty}[2][2=]
                                              {\newtxtopar[\defval{#2}{#1}]}
        \txtsubsup ... to do!
                                         • \txtsubsup[\sffamily]{Aa}{Bb} = "Bb" Aa
                                         • \txtsubsup[\ttfamily]{Aa}{Bb} = ^{\text{"Bb"}}_{Aa}
                                    224 \newcommand{\txtsubsup}[3][]
                                              {\ensuremath{\empchk{#2}{_{\frac{\#1}{2}}}\empchk{\#3}{^{\text{\#1}}}}}
                                    \txt ... to do!
                                         • \txt{Name}[sub][sup][Ext] = "Name_sub_Ext"
                                         • \txt[\schape]{Name}[sub][sup][Ext] = "NAME_{SUB}^{SUP}EXT"
                                         • \text{txt[\bfseries]}\{\text{Name}\}[\text{sub}][\text{sup}][\text{Ext}] = \text{``Name}^{\sup}_{\text{sub}}\text{Ext''}
                                    227 \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[\schape]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{SUB}^{SUP}Ext1(Arg)Ext2"
                                          \bullet \texttt{ \txtarg[\bfseries] \{Name\}[sub] [sup] [Ext1] \{Arg\} [Ext2] = "Name_{sub}^{sup} Ext1(Arg) Ext2" } 
                                    229 \newcommand{\txtarg}
                                            {\newtxtargsty{\txtsty}}
             \txtoarg ... to do!
                                         • \txtoarg{Name}[sub][sup][Arg] = "Name<sup>sup</sup><sub>sub</sub>(Arg)"
                                         • \txtoarg[\schape]{Name}[sub][sup][Arg] = "Name_{SUB}(Arg)"
                                         • \t = \t Name [\bfseries] {\t Name} [\sub] [\sup] [\t Arg] = \t Name [\t Name] [\t 
                                    231 \newcommand{\txtoarg}
                                             {\newtxtoargsty{\txtsty}}
              \txtpar ... to do!
                                         • \text{txtpar{Name}[sub][sup][Ext1]{Par}[Ext2]} = \text{"Name}_{\text{sub}}^{\text{sup}} \text{Ext1}[Par] \text{Ext2"}
                                          \qquad \qquad \text{$$ \text{`txtpar[\scshape] {Name}[sub] [sup] [Ext1] {Par} [Ext2] = "NAME_{SUB}^{SUP} EXT1[PAR] EXT2" } 
                                          \bullet \ \texttt{\txtpar[\bfseries]{Name}[sub][sup][Ext1]{Par}[Ext2] = "Name^{\sup}_{\sup} Ext1[Par]Ext2" } 
                                    233 \mbox{ } \mbox{newcommand{\txtpar}}
                                           {\newtxtparsty{\txtsty}}
             \txtopar ... to do!
```

```
• \txtopar{Name}[sub][sup][Par] = "Name sup [Par]"
                              • \text{txtopar}[\scalebox{Name}][\scalebox{Sup}][\scalebox{Par}] = "Namesup [\scalebox{Par}]"
                              • \t \ [Sub] [Sup] [Par] = "Name \ [Par]"
                          235 \newcommand{\txtopar}
                                  {\newtxtoparsty{\txtsty}}
       \txtsty ... to do!
                         237 \mbox{ } \mbox{newcommand{\txtsty}}
                                  {\mdseries\upshape\rmfamily}
                          \cmdtxt ... to do!
                              • \cmdtxt{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                 \verb|\txtNewCmd{Name}[sub][sup][Ext] = \verb|\Name|^{SUP}_{SUB}Ext|
                          240 \newcommand{\cmdtxt}[1]
                                 {\csdef{txt#1}{\newtxtsty{\csname txtsty#1\endcsname}}}
 \cmdtxtarg ... to do!
                              • \cmdtxtarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                 \verb|\txtargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\Name|_{SUB}^{SUP}Ext1(Arg)Ext2|
                          242 \newcommand{\cmdtxtarg}[1]
                          243 \qquad \{\csdef\{txtarg\#1\}\{\newtxtargsty\{\csname\ txtsty\#1\endcsname\}\}\}
\cmdtxtoarg ... to do!
                              • \cmdtxtoarg{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                 \t \sum_{SUP} [SUP] [Arg] = NAME_{SUP} (Arg)
                          244 \newcommand{\cmdtxtoarg}[1]
                          245 {\csdef{txtoarg#1}{\newtxtoargsty{\csname txtsty#1\endcsname}}}
 \cmdtxtpar ... to do!
                              • \cmdtxtpar{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                 \verb|\txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\txtparNewCmd{Name}[sub][sup][ext1][sub][ext2] = \verb|\txtparNewCmd{Name}[sub][sub][sup][ext1][sub][ext2] = \verb|\txtparNewCmd{Name}[sub][sub][sub][ext2][sub][ext2][sub][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][ext2][sub][
                          246 \newcommand{\cmdtxtpar}[1]
                          247 {\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]|
                          248 \newcommand{\cmdtxtopar}[1]
                                  {\csdef{txtopar#1}{\newtxtoparsty{\csname txtsty#1\endcsname}}}
 \cmdtxtall ... to do!
                              • \cmdtxtall{NewCmd}; \newcommand{txtstyNewCmd}{\scshape\ttfamily};
                                 \mathsf{Name}[\mathsf{sub}][\mathsf{sup}][\mathsf{Ext}] = \mathsf{Name}^{\mathsf{SUP}}_{\mathsf{SUB}}[\mathsf{Ext}]
                                 \texttt{\txtargNewCmd}\{\texttt{Name}\}[\texttt{sub}][\texttt{sup}][\texttt{Ext1}]\{\texttt{Arg}\}[\texttt{Ext2}] = \texttt{Name}^{\texttt{SUP}}_{\texttt{SUB}}\texttt{Ext1}(\texttt{Arg})\texttt{Ext2}
                                 \t \ [sub] [sup] [Arg] = NAME_{SUB}^{SUP} (Arg)
                                 \txtparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = NAME_SUB_EXT1[PAR]EXT2
                                 250 \newcommand{\cmdtxtall}[1]
                                 \usrtxt ... to do!
                              • \usrtxt{cmdName}{Suf}{}; \cmdNameSuf = cmdName
                                  \t \text{Suf}_{arg}; \t \text{NameSuf}_{arg} = \text{cmdName}(Arg)
                                  \t {cmdName} {Suf} {par}; \t {Par} = cmdName [Par]
```

```
• \usrtxt{cmdName}{Suf}{}[newName]; \cmdNameSuf = newName
                                                                                   \t {cmdName} {Suf} {arg} {newName}; \t {Arg} = newName(Arg)
                                                                                   \t {cmdName} {Suf} {par} [newName]; \t {Par} = newName [Par]
                                                                  253 \newcommandx{\usrtxt}[4][4=]
                                                                                {\csdef{#1#2}{\csname txt#3\endcsname{\defval{#4}{#1}}}}
                                                                  \newmth ... to do!
                                                                           • \newmth[mathrm] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                            • \newmth[mathtt]{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext"
                                                                  259 \newcommandx{\newmth}[5][1=, 3=, 4=, 5=]
                                                                                  {\ensuremath{\csname#1\endcsname{#2}\mthsubsup{#3}{#4}#5}}
               \newmthsty ... to do!
                                                                            \bullet \verb| \newmthsty{mathrm}{Name}[sub][sup][Ext] = "Name_{sub}^{sup}Ext" 
                                                                           • \newmthsty{mathrm} [mathsf] {Name} [sub] [sup] [Ext] = "Name_{sub}^{sup}Ext"
                                                                             \bullet \ \texttt{\normalform} \
                                                                  261 \newcommandx{\newmthsty}[2][2=]
                                                                  262 {\newmth[\defval{#2}{#1}]}
               \newmtharg ... to do!
                                                                           • \newmtharg[mathrm] {Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sub}^{sup} Ext1(Arg)Ext2"
                                                                            \bullet \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  } \texttt{ \  \  } \texttt{ \  \  \  }
                                                                  263 \newcommandx{\newmtharg}[7][1=, 3=, 4=, 5=, 7=]
                                                                                {\newmth[#1]{#2}[#3][#4][#5\argmid{\!\left(){#6}{\right)\arglef{\!}{#7}}]}
   \newmthargsty ... to do!
                                                                           • \newmthargsty{mathrm}{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2"
                                                                             \bullet \verb| \newmthargsty{mathrm}[mathsf]{Name}[sub][sup][Ext1]{Arg}[Ext2] = "Name_{sub}^{sup}Ext1(Arg)Ext2" | \normalised for the subset of the s
                                                                            265 \newcommandx{\newmthargsty}[2][2=]
                                                                                {\newmtharg[\defval{#2}{#1}]}
           \newmthoarg ... to do!
                                                                           \bullet \ \texttt{\ \ } [\mathtt{sup}] \ [\mathtt{Arg}] = "\mathtt{Name}^{sup}_{sub} (Arg)"
                                                                            \bullet \ \texttt{\newmthoarg[mathsf]{Name}[sub][sup][Arg]} = \texttt{\normalbase}(Arg)"
                                                                            • \newmthoarg[mathtt]{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                  267 \newcommandx{\newmthoarg}[5][1=, 3=, 4=, 5=]
                                                                                {\newmtharg[#1]{#2}[#3][#4][]{#5}[]}
\newmthoargsty ... to do!
                                                                           • \newmthoargsty{mathrm}{Name}[sub][sup][Arg] = "Name_{sub}^{sup}(Arg)"
                                                                           • \newmthoargsty{mathrm} [mathsf] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                            • \newmthoargsty{mathrm} [mathtt] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                  269 \newcommandx{\newmthoargsty}[2][2=]
                                                                 270 {\text{newmthoarg[\defval{#2}{#1}]}}
               \newmthpar ... to do!
                                                                            • \newmthpar[mathrm] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
```

```
• \newmthpar[mathsf] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par]Ext2"
                                                                                                       \bullet \texttt{ \  \  } \texttt{ [Sub] [Sup] [Ext1] {Par} [Ext2] = "Name} \\ \textit{ \  \  } Ext1[Par]Ext2" \\ \texttt{ \  \  } Ext2] = "Name} \\ \text{ \  \  } Ext1[Par]Ext2" \\ \texttt{ \  \  } Ext2" \\ \texttt{ \  \  } Ext2 \\ \texttt{ \  \  } Ext2" \\ \texttt
                                                                                         271 \newcommandx{\newmthpar}[7][1=, 3=, 4=, 5=, 7=]
                                                                                                                {\newmth[#1]{#2}[#3][#4][#5\argmid{\!\left[}{#6}{\right]\arglef{\!}{#7}}]}
     \newmthparsty ... to do!
                                                                                                      • \newmthparsty{mathrm}{Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name_{sub}^{sup} Ext1[Par] Ext2"
                                                                                                      \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \  } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ 
                                                                                         273 \newcommandx{\newmthparsty}[2][2=]
                                                                                                                 {\newmthpar[\defval{#2}{#1}]}
                \newmthopar ... to do!
                                                                                                      • \newmthopar[mathrm] {Name} [sub] [sup] [Par] = "Name _{sub}^{sup}[Par]"
                                                                                                      • \newmthopar[mathsf]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                                      • \newmthopar[mathtt]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                          275 \newcommandx{\newmthopar}[5][1=, 3=, 4=, 5=]
                                                                                                               {\newmthpar[#1]{#2}[#3][#4][]{#5}[]}
\newmthoparsty ... to do!
                                                                                                      • \newmthoparsty{mathrm}{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                                      • \newmthoparsty{mathrm} [mathtt] {Name} [sub] [sup] [Par] = "Name_{sub}^{sup} [Par]"
                                                                                         277 \newcommandx{\newmthoparsty}[2][2=]
                                                                                                                  {\tt \{\newmthopar[\defval{\#2}{\#1}]}
                     \mthsubsup ... to do!
                                                                                         279 \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
                                                                                                      • \mathcal{E}_{sub}[Sub][Sup][Ext] = \mathcal{E}_{sub}[Ext]
                                                                                         282 \neq \{ \
                                                                                                               {\newmthsty{\mthsty}}
                                                                                        283
                                     \mtharg ... to do!
                                                                                                      • \mtharg{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = "Name_{sub}^{sup} Ext1(Arg) Ext2"
                                                                                                      \bullet \ \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ } \texttt{\ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ }} \texttt{\ \ \ \ } \texttt{\ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \ \ }} \texttt{\ \ \
                                                                                                      \bullet \  \  \, \texttt{ \mathered{Mame} [Sub] [Sup] [Ext1] \{Arg\} [Ext2]} = \text{``Name}_{sub}^{sup} Ext1(Arg) Ext2"
                                                                                         284 \newcommand{\mtharg}
                                                                                                              {\newmthargsty{\mthsty}}
                                                                                        285
                                \mthoarg ... to do!
                                                                                                      • \mthoarg{Name}[sub][sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                      • \mthoarg[mathbf] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                                      • \mthoarg[mathtt] {Name} [sub] [sup] [Arg] = "Name_{sub}^{sup}(Arg)"
                                                                                          286 \newcommand{\mthoarg}
                                                                                        287 {\newmthoargsty{\mthsty}}
                                     \mthpar ... to do!
                                                                                                      • \mathbb{E}_{sub}[Sub][Sup][Ext1][Par][Ext2] = "Name_{sub}^{sup}Ext1[Par]Ext2"
```

```
• \mthpar[mathbf] {Name} [sub] [sup] [Ext1] {Par} [Ext2] = "Name _{sub}^{sup} Ext1[Par] Ext2"
                                                                                                  \bullet \ \texttt{\mbox{\tt mthpar[mathtt]{Name}[sub][sup][Ext1]{Par}[Ext2]} = \ \texttt{\mbox{\tt "Name}} \\ sub \ \ \mbox{\tt Ext1[Par]Ext2"}
                                                                                   288 \newcommand{\mthpar}
                                                                                                           {\newmthparsty{\mthsty}}
                  \mthopar ... to do!
                                                                                                 • \mthopar{Name}[sub][sup] [Par] = "Name_{sub}^{sup}[Par]"
                                                                                                  • \mthopar[mathtt]{Name}[sub][sup][Par] = "Name_{sub}^{sup}[Par]"
                                                                                  290 \newcommand{\mthopar}
                                                                                                             {\newmthoparsty{\mthsty}}
                       \mthsty ... to do!
                                                                                 292 \newcommand{\mthsty}
                                                                                  293 {}
                                                                                  \cmdmth ... to do!
                                                                                                  \cmdmth{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                           \verb|\mbox| \verb| [sub] [sup] [Ext] = \verb|\mbox| \verb| [sup] [Ext] = \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb| [sup] [Ext] = \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb|\mbox| \verb| [sup] [Ext] = \verb|\mbox| \mbox| \|\mbox| \mb
                                                                                  295 \newcommand{\cmdmth}[1]
                                                                                  296 {\csdef{mth#1}}{\newmthsty{mthsty#1}}}
     \cmdmtharg ... to do!
                                                                                                  \cmdmtharg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                           \verb|\mathresize Mame| [sub] [sup] [Ext1] {Arg} [Ext2] = \verb|\mathresize Mame| sub | Ext1 | Ext2 | Ext2
                                                                                   297 \newcommand{\cmdmtharg}[1]
                                                                                                           {\csdef{mtharg#1}{\newmthargsty{mthsty#1}}}
\cmdmthoarg \dots to do!
                                                                                                  • \cmdmthoarg{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                           299 \newcommand{\cmdmthoarg}[1]
                                                                                 300 {\csdef{mthoarg#1}{\newmthoargsty{mthsty#1}}}
     \cmdmthpar ... to do!
                                                                                                 • \cmdmthpar{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                           \verb|\mbox| \verb|\mbox| The par | [Ext1] | [Par] | [Ext2] = \verb|\mbox| Rame| | [Par] | [Ext2] | Ext2| | Ext2
                                                                                  301 \mbox{ \newcommand{\cmdmthpar}[1]}
                                                                                                             {\csdef{mthpar#1}{\newmthparsty{mthsty#1}}}
\cmdmthopar ... to do!
                                                                                                 \verb|\mbox| \verb| [sub] [sup] [Par] = \verb|\mbox| ame | sub | sup |
                                                                                   303 \newcommand{\cmdmthopar}[1]
                                                                                                        {\csdef{mthopar#1}{\newmthoparsty{mthsty#1}}}
     \cmdmthall ... to do!
                                                                                                  • \cmdmthall{NewCmd}; \newcommand{mthstyNewCmd}{\mathtt};
                                                                                                             \verb|\mathNewCmd{Name}[sub][sup][Ext]| = \verb|\mathNewCmd{Name}| Ext|
                                                                                                             \verb|\mathargNewCmd{Name}[sub][sup][Ext1]{Arg}[Ext2] = \verb|\mathargNewCmd{Name}Ext1(Arg)Ext2
                                                                                                             \verb|\mbox| \verb|\mbox| mthoargNewCmd{Name}[sub][sup][Arg] = \verb|\mbox| mame|_{sub}^{sup}(Arg)
                                                                                                             \verb|\mathparNewCmd{Name}[sub][sup][Ext1]{Par}[Ext2] = \verb|\mathparNewCmd{Name}| Ext1[Par]Ext2
                                                                                                           \verb|\mbox| \verb| [sub] [sup] [Par] = \verb|\mbox| ame | sub | [sup] [Par] = \verb|\mbox| ame | sub | [sup] | sub 
                                                                                  305 \mbox{ \newcommand{\cmdmthall}[1]}
                                                                                                           {\cmdmth{#1}\cmdmtharg{#1}\cmdmthoarg{#1}\cmdmthpar{#1}\cmdmthopar{#1}}
```

```
\usrmth ... to do!
             • \mbox{\sc \undergoon} surm = cmdName \ \mbox{\sc \undergoon} surm = cmdName \
              308 \newcommandx{\usrmth}[4][4=]
              {\csdef{#1#2}{\csname mth#3\endcsname{\defval{#4}{#1}}}}
           \usrmthlatlow ... to do!
           311 \newcommandx{\usrmthlatlow}[4][4=]
           312 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlow{#1#2}{mth#3}}
\usrmthlatupp ... to do!
           313 \newcommandx{\usrmthlatupp}[4][4=]
              {\usrmth{#1}{#2}{#3}[#4]\seqoflatupp{#1#2}{mth#3}}
\usrmthlatlet ... to do!
           315 \newcommandx{\usrmthlatlet}[4][4=]
           316 {\usrmth{#1}{#2}{#3}[#4]\seqoflatlet{#1#2}{mth#3}}
\usrmthgrklow ... to do!
           317 \newcommandx{\usrmthgrklow}[4][4=]
              {\usrmth{#1}{#2}{#3}[#4]\seqofgrklow{#1#2}{mth#3}}
\usrmthgrkupp ... to do!
           319 \newcommandx{\usrmthgrkupp}[4][4=]
              {\usrmth{#1}{#2}{#3}[#4]\seqofgrkupp{#1#2}{mth#3}}
\usrmthgrklet ... to do!
           321 \newcommandx{\usrmthgrklet}[4][4=]
               \usrmthlow ... to do!
           323 \verb| newcommandx{\usrmthlow}[4][4=]
               {\mbox{\normalfill} {\#2}{\#3}[\#4] \seqoflow{\#1\#2}{mth\#3}}
  \usrmthupp ... to do!
           325 \newcommandx{\usrmthupp}[4][4=]
               {\mbox{\mbox{$1$}{\#2}{\#3}[\#4]}\eqofupp{\#1$}{\mbox{$mth$}}}
  \usrmthlet ... to do!
           327 \newcommandx{\usrmthlet}[4][4=]
              {\usrmth{#1}{#2}{#3}[#4]\seqoflet{#1#2}{mth#3}}
           333 \iftxtgen@
\txtdef, ... to do!
             ullet \txtdef{Name}[sub][sup][Ext] = Name_{
m sub}^{
m sup}Ext
              \bullet \ \texttt{\txtargdef{Name}[sub][sup][Ext1]{Arg}[Ext2]} = Name^{\sup}_{\sup} Ext1(Arg)Ext2 
              \qquad \qquad \texttt{`txtpardef{Name}[sub][sup][Ext1]{Par}[Ext2]} = Name^{\sup}_{\sup} Ext1[Par]Ext2 
           334 %% Style for Definitions
           335 \cmdtxtall{def}\newcommand{\txtstydef}{\bfseries\em}
```

```
\cmdtxtdef ... to do!
                     • \cmdtxtdef{cmdName};
                       \colon dName[sub][sub][ext] = cmdName^{sub}_{sub}ext
                     • \cmdtxtdef{cmdName}[newName];
                       \colon = newName_{
m sub}^{
m sub} = newName_{
m sub}^{
m sub} ext
                   336 \newcommandx{\cmdtxtdef}[2][2=]
                   337 {\usrtxt{#1}{}{def}[#2]}
 \cmdtxtargdef ... to do!
                     • \cmdtxtargdef{cmdName};
                       • \cmdtxtargdef{cmdName}[newName];
                       \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = newName^{\text{sub}}_{\text{sub}}ext1(arg)ext2
                   338 \newcommandx{\cmdtxtargdef}[2][2=]
                   339 {\usrtxt{#1}{}{argdef}[#2]}
\cmdtxtoargdef ... to do!
                     \cmdtxtoargdef{cmdName};
                       \colon = cmdName[sub][sub][arg] = cmdName[sub](arg)
                      \cmdtxtoargdef{cmdName}[newName];
                       \colon = [sub][sub][arg] = newName_{sub}^{sub}(arg)
                   340 \newcommandx{\cmdtxtoargdef}[2][2=]
                   341 {\usrtxt{#1}{}{oargdef}[#2]}
 \cmdtxtpardef ... to do!
                     \cmdtxtpardef{cmdName};
                       \colon = [sub][sub][ext1][par][ext2] = cmdName[sub][ext1][par][ext2]
                      \cmdtxtpardef{cmdName}[newName];
                       \verb|\cmdName[sub][sub][ext1]{par}[ext2] = newName^{\text{sub}}_{\text{sub}}ext1[par]ext2|
                   342 \mbox{ \cmdtxtpardef}[2][2=]
                       {\usrtxt{#1}{}{pardef}[#2]}
\cmdtxtopardef ... to do!
                      \cmdtxtopardef{cmdName};
                        \verb|\cmdName[sub][sub][par]| = cmdName_{\tt sub}^{\tt sub}/par|
                      \cmdtxtopardef{cmdName}[newName];
                       \cmdName[sub][sub][par] = newName_{
m sub}^{
m sub}/par
                   344 \newcommandx{\cmdtxtopardef}[2][2=]
                  345 {\usrtxt{#1}{}{opardef}[#2]}
  \txtabr, ... to do!
                     • \text{txtabr{Name}}[\text{sub}][\text{sup}][\text{Ext}] = Name_{\text{sub}}^{\text{sup}}Ext
                      \bullet \texttt{ \txtargabr{Name}[sub][sup][Ext1]{Arg}[Ext2]} = Name^{\sup}_{\sup} Ext1(Arg) Ext2 
                       \bullet \ \texttt{\txtparabr{Name}[sub][sup][Ext1]{Par}[Ext2]} = Name^{\sup}_{\sup} Ext1[Par]Ext2
                   346 %% Style for Abbreviations
                  347 \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
                   348 \newcommandx{\cmdtxtabr}[2][2=]
                       {\usrtxt{#1}{}{abr}[#2]}
 \cmdtxtargabr ... to do!
```

```
\cmdtxtargabr{cmdName};
                                                \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                            • \cmdtxtargabr{cmdName}[newName];
                                                \cmdName[sub][sub][ext1]{arg}[ext2] = newName_{\text{sub}}^{\text{sub}}ext1(arg)ext2
                                       350 \newcommandx{\cmdtxtargabr}[2][2=]
                                      351 {\usrtxt{#1}{}{argabr}[#2]}
  \cmdtxtoargabr ... to do!
                                            • \cmdtxtoargabr{cmdName};
                                                \colon dName[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                            • \cmdtxtoargabr{cmdName}[newName];
                                                \colon dName[sub][sub][arg] = newName_{sub}^{sub}(arg)
                                       352 \newcommandx{\cmdtxtoargabr}[2][2=]
                                              {\usrtxt{#1}{}{oargabr}[#2]}
    \cmdtxtparabr ... to do!
                                            • \cmdtxtparabr{cmdName};
                                                \verb|\cmdName[sub][sub][ext1]{par}[ext2] = cmdName_{\rm sub}^{\rm sub}ext1/par/ext2
                                            \cmdtxtparabr{cmdName} [newName];
                                                \colon = [sub][sub][ext1][par][ext2] = newName_{sub}^{sub}ext1[par]ext2]
                                       354 \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_{sub}^{sub}/par]
                                       356 \newcommandx{\cmdtxtoparabr}[2][2=]
                                                 {\usrtxt{#1}{}{oparabr}[#2]}
                                       \txtname, ... to do!
                                            • \text{txtname}\{\text{Name}\}[\text{sub}][\text{Ext}] = \text{Name}^{\text{SUP}}_{\text{SUB}}Ext
                                            • \txtargname{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{SUB}^{SUP}Ext1(Arg)Ext2
                                            • \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}
                                       359 %% Style for Names
                                       360 \cmdtxtall{name}\newcommand{\txtstyname}{\mdseries\scshape\sffamily}
         \cmdtxtname ... to do!
                                            • \cmdtxtname{cmdName};
                                                \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                            • \cmdtxtname{cmdName}[newName];
                                                \verb|\cmdName[sub][sub][ext]| = \verb|\NEWNAME| SUB | EXT|
                                       361 \newcommandx{\cmdtxtname}[2][2=]
                                      362 {\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];
                                                \verb|\cmdName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1]{arg}[ext2] = \verb|\newName[sub][sub][ext1][ext2][ext2] = \verb|\newName[sub][sub][ext1][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                       363 \newcommandx{\cmdtxtargname}[2][2=]
                                               {\usrtxt{#1}{}{argname}[#2]}
\cmdtxtoargname ... to do!
```

```
\cmdtxtoargname{cmdName};
                                                \colon = CMDNAME_{SUB}^{SUB}(ARG)
                                             • \cmdtxtoargname{cmdName}[newName];
                                                \colon = NEWNAME_{SUB}^{SUB}(ARG)
                                       365 \newcommandx{\cmdtxtoargname}[2][2=]
                                               {\usrtxt{#1}{}{oargname}[#2]}
  \cmdtxtparname ... to do!
                                             \cmdtxtparname{cmdName};
                                                \verb|\cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2|
                                             • \cmdtxtparname{cmdName}[newName];
                                                \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\newName[sub][sub][ext1]{par}[ext2]
                                       367 \newcommandx{\cmdtxtparname}[2][2=]
                                               {\usrtxt{#1}{}{parname}[#2]}
\cmdtxtoparname
                                   ... to do!
                                             \cmdtxtoparname{cmdName};
                                                \label{eq:cmdName} $$ \operatorname{CMDNAME}_{SUB}^{SUB}[PAR] = \operatorname{CMDNAME}_{SUB}^{SUB}[PAR] $$
                                             • \cmdtxtoparname{cmdName}[newName];
                                                \cmdName[sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                                       369 \newcommandx{\cmdtxtoparname}[2][2=]
                                                {\usrtxt{#1}{}{oparname}[#2]}
      \txtcom, ... to do!
                                            • \txtcom{Name}[sub][sup][Ext] = NAME_SUBEXT
                                             • \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}
                                       371 %% Style for Complexities
                                       372 \cmdtxtall{com}\newcommand{\txtstycom}{\mdseries\scshape\rmfamily}
           \cmdtxtcom ... to do!
                                             • \cmdtxtcom{cmdName};
                                                \cmdName[sub][sub][ext] = CMDNAME_{SUB}^{SUB}EXT
                                             • \cmdtxtcom{cmdName}[newName];
                                                \c Mame[sub][sub][ext] = NEWNAME_{SUB}^{SUB}EXT
                                       373 \newcommandx{\cmdtxtcom}[2][2=]
                                       374 {\usrtxt{#1}{}{com}[#2]}
    \cmdtxtargcom ... to do!
                                             • \cmdtxtargcom{cmdName};
                                                \label{lem:cmdName} $$ \operatorname{[sub][sub][ext1]}_{arg}[ext2] = \operatorname{CMDNAME}_{SUB}^{SUB} \operatorname{EXT1}(\operatorname{ARG}) \operatorname{EXT2} $$
                                             • \cmdtxtargcom{cmdName}[newName];
                                                \cmdName[sub][sub][ext1]{arg}[ext2] = NEWNAME_{SUB}^{SUB}EXT1(ARG)EXT2
                                       375 \mbox{newcommandx{\cmdtxtargcom}[2][2=]}
                                       376 {\usrtxt{#1}{}{argcom}[#2]}
  \cmdtxtoargcom ... to do!
                                             \cmdtxtoargcom{cmdName};
                                                \verb|\cmdName[sub][sub][arg]| = CMDNAME_{SUB}^{SUB}(ARG)
                                             • \cmdtxtoargcom{cmdName}[newName];
                                                \colon 
                                       377 \newcommandx{\cmdtxtoargcom}[2][2=]
                                               {\usrtxt{#1}{}{oargcom}[#2]}
    \cmdtxtparcom ... to do!
                                             \cmdtxtparcom{cmdName};
                                                \cmdName[sub][sub][ext1]{par}[ext2] = CMDNAME_{SUB}^{SUB}EXT1[PAR]EXT2
```

```
\cmdtxtparcom{cmdName} [newName];
                        \verb|\cmdName[sub][sub][ext1]{par}[ext2] = \verb|\nEwName[sub][ext1][PAR][ext2]
                   379 \newcommandx{\cmdtxtparcom}[2][2=]
                        {\usrtxt{#1}{}{parcom}[#2]}
 \cmdtxtoparcom ... to do!
                      \cmdtxtoparcom{cmdName};
                        \verb|\cmdName[sub][sub][par]| = CMDNAME_{SUB}^{SUB}[PAR]|
                     • \cmdtxtoparcom{cmdName}[newName];
                        \colon = [sub][sub][par] = NEWNAME_{SUB}^{SUB}[PAR]
                   381 \mbox{ } [2] [2=]
                       {\usrtxt{#1}{}{oparcom}[#2]}
                   383 \fi
                   388 \ifmthgen@
  \mbox{\em mthname}, \ldots \mbox{\em to do!}
                     • \mthname{NAME}[sub][sup][Ext] = \mathcal{NAME}^{sup}_{sub}Ext
                     \bullet \  \, \texttt{\bar{NAME}[sub][sup][Ext1]{Arg}[Ext2]} = \mathcal{NAME}^{sup}_{sub}Ext1(Arg)Ext2
                      • \mthparname{NAME}[sub] [sup] [Ext1] {Par} [Ext2] = \mathcal{NAME}^{sup}_{sub}Ext1[Par]Ext2
                   389 %% Style for Names
                   390 \cmdmthall{name}\newcommand{\mthstyname}{\mathcal}
    \AName, ... to do!
                  \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                   391 \seqoflatupp{Name}{mthname}
    \cmdmthname ... to do!
                     • \cmdmthname{CMDNAME};
                        \CMDNAMEName[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                     • \cmdmthname{cmdName}[NEWNAME];
                        \cmdNameName[sub][sub][ext] = \mathcal{NEWNAME}_{sub}^{sub}ext
                   392 \newcommandx{\cmdmthname}[2][2=]
                       {\usrmth{#1}{Name}{name}[#2]}
 \cmdmthargname ... to do!
                     • \cmdmthargname{CMDNAME};
                       \CMDNAMEName[sub][sub][ext1]{arg}[ext2] = \mathcal{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                      • \cmdmthargname{cmdName}[NEWNAME];
                        \verb|\cmdNameName[sub][sub][ext1]{arg}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1(arq)ext2
                   394 \newcommandx{\cmdmthargname}[2][2=]
                   395 {\usrmth{#1}{Name}{argname}[#2]}
\cmdmthoargname ... to do!
                      \cmdmthoargname{CMDNAME};
                        \CMDNAMEName[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                     • \cmdmthoargname{cmdName}[NEWNAME];
                       \verb|\cmdNameName[sub][sub][arg]| = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                   396 \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
                                          398 \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]
                                          400 \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{\bar{NAME}[sub][sup][Ext1]{Arg}[Ext2]} = \mathcal{N} \mathcal{M} \mathcal{E}^{sup}_{sub} Ext1(Arg) Ext2
                                                • \mthparfam{NAME}[sub][sup][Ext1]{Par}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par]Ext2
                                          402 %% Style for Families
                                          403 \mbox{ \mbox{$\mbox{mthall{fam}}\newcommand{\mbox{$\mbox{mthstyfam}}{\mbox{$\mbox{mthscr}$}}} }
            \AFam, ... to do!
                                        \mathscr{A}, \mathscr{B}, \mathscr{C}, \mathscr{D}, \mathscr{E}, \mathscr{F}, \mathscr{G}, \mathscr{H}, \mathscr{I}, \mathscr{J}, \mathscr{K}, \mathscr{L}, \mathscr{M}, \mathscr{N}, \mathscr{O}, \mathscr{P}, \mathscr{Q}, \mathscr{R}, \mathscr{S}, \mathscr{T}, \mathscr{U}, \mathscr{V}, \mathscr{W}, \mathscr{X}, \mathscr{Y}, \mathscr{Z}
                                          404 \seqoflatupp{Fam}{mthfam}
            \cmdmthfam ... to do!
                                                • \cmdmthfam{CMDNAME};
                                                    \CMDNAMEFam[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub][ext] = \mathscr{CMDNAMEFam}[sub][sub]
                                                • \cmdmthfam{cmdName}[NEWNAME];
                                                    405 \newcommandx{\cmdmthfam}[2][2=]
                                                    {\usrmth{#1}{Fam}{fam}[#2]}
    \cmdmthargfam ... to do!
                                                \cmdmthargfam{CMDNAME};
                                                    \verb|\CMDNAMEFam[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1]{arg}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2] = \mathscr{CMDNAMEFam}[sub][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ext2][ex
                                                • \cmdmthargfam{cmdName}[NEWNAME];
                                                    \verb|\cmdNameFam[sub][sub][ext1]{arg}[ext2] = \mathscr{NEWNAME}^{sub}_{sub}ext1(arg)ext2
                                          407 \newcommandx{\cmdmthargfam}[2][2=]
                                                   {\usrmth{#1}{Fam}{argfam}[#2]}
  \cmdmthoargfam ... to do!
                                                \cmdmthoargfam{CMDNAME};
                                                    \verb|\CMDNAMEFam[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][arg]| = \mathscr{CMDNAMEFam}[sub][sub][sub][arg]|
                                                \cmdmthoargfam{cmdFam} [NEWNAME];
                                                    \cmdFamFam[sub] [sub] [arg] = \mathcal{NEWNAME}_{sub}^{sub}(arg)
                                          409 \newcommandx{\cmdmthoargfam}[2][2=]
                                          410 {\usrmth{#1}{Fam}{oargfam}[#2]}
    \cmdmthparfam ... to do!
                                                \cmdmthparfam{CMDNAME};
                                                    \CMDNAMEFam[sub][sub][ext1]{par}[ext2] = \mathscr{CMDNAMEFam}[sub][sub][ext1][par]ext2
                                                • \cmdmthparfam{cmdName}[NEWNAME];
                                                    \cmdNameFam[sub][sub][ext1]\{par\}[ext2] = \mathcal{NEWNAME}_{sub}^{sub}ext1[par]ext2
                                          411 \newcommandx{\cmdmthparfam}[2][2=]
                                          412 {\usrmth{#1}{Fam}{parfam}[#2]}
  \cmdmthoparfam ... to do!
```

```
\cmdmthoparfam{CMDNAME};
                           \CMDNAMEFam[sub][sub][par] = \mathscr{CMDNAMEFam}[sub][par]
                         \cmdmthoparfam{cmdFam}[NEWNAME];
                           \label{eq:cmdFamFam} $$ \operatorname{Sub}[\operatorname{sub}] = \mathcal{NEWNAME}_{sub}^{sub}[par] $$
                     413 \newcommandx{\cmdmthoparfam}[2][2=]
                     414 {\usrmth{#1}{Fam}{oparfam}[#2]}
  \mthcls, ... to do!
                         • \mthcls{NAME}[sub][sup][Ext] = \mathcal{NAME}_{sub}^{sup}Ext
                         \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Arg\} [Ext2]} = \mathcal{NAME}^{sup}_{sub} Ext1(Arg) Ext2
                         • \mthparcls{NAME}[sub][sup][Ext1]{Par}[Ext2] = \mathcal{NAME}_{sub}^{sup}Ext1[Par]Ext2
                     415 %% Style for Classes
                     416 \cmdmthall{cls}\newcommand{\mthstycls}{\matheus}
     \ACls, ... to do!
                    \mathcal{A}, \mathcal{B}, \mathcal{C}, \mathcal{D}, \mathcal{E}, \mathcal{F}, \mathcal{G}, \mathcal{H}, \mathcal{I}, \mathcal{J}, \mathcal{K}, \mathcal{L}, \mathcal{M}, \mathcal{N}, \mathcal{O}, \mathcal{P}, \mathcal{Q}, \mathcal{R}, \mathcal{S}, \mathcal{T}, \mathcal{U}, \mathcal{V}, \mathcal{W}, \mathcal{X}, \mathcal{Y}, \mathcal{Z}
                     417 \seqoflatupp{Cls}{mthcls}
     \cmdmthcls ... to do!
                         • \cmdmthcls{CMDNAME};
                           \CMDNAMEC1s[sub][sub][ext] = \mathcal{CMDNAME}_{sub}^{sub}ext
                         • \cmdmthcls{cmdName}[NEWNAME];
                           \verb|\cmdNameCls[sub][sub][ext]| = NEWNAME_{sub}^{sub}ext
                      418 \newcommandx{\cmdmthcls}[2][2=]
                     419 {\usrmth{#1}{Cls}{cls}[#2]}
 \cmdmthargcls ... to do!
                         • \cmdmthargcls{CMDNAME};
                           \CMDNAMECls[sub][sub][ext1]{arg}[ext2] = \text{CMDNAME}_{sub}^{sub}ext1(arg)ext2
                         • \cmdmthargcls{cmdName}[NEWNAME];
                           \verb|\cmdNameCls[sub][sub][ext1]{arg}[ext2] = NEWNAME_{sub}^{sub}ext1(arg)ext2
                     420 \newcommandx{\cmdmthargcls}[2][2=]
                           {\usrmth{#1}{Cls}{argcls}[#2]}
\cmdmthoargcls ... to do!
                         • \cmdmthoargcls{CMDNAME};
                           \CMDNAMECls[sub][sub][arg] = \mathcal{CMDNAME}_{sub}^{sub}(arg)
                         • \cmdmthoargcls{cmdCls}[NEWNAME];
                           \cmdClsCls[sub] [sub] [arg] = NEWNAME_{sub}^{sub}(arg)
                      422 \newcommandx{\cmdmthoargcls}[2][2=]
                     423 {\usrmth{#1}{Cls}{oargcls}[#2]}
 \cmdmthparcls ... to do!
                         • \cmdmthparcls{CMDNAME};
                           \verb|\CMDNAMECls[sub][sub][ext1]{par}[ext2] = \verb|\CMDNAME|^{sub}_{sub}ext1[par]ext2|
                         • \cmdmthparcls{cmdName}[NEWNAME]:
                           \verb|\cmdNameCls[sub][sub][ext1]{par}[ext2] = NEWNAME_{sub}^{sub}ext1[par]ext2
                     424 \newcommandx{\cmdmthparcls}[2][2=]
                     425 {\usrmth{#1}{Cls}{parcls}[#2]}
\cmdmthoparcls ... to do!
                         • \cmdmthoparcls{CMDNAME};
                           \verb|\CMDNAMECls[sub][sub][par]| = \verb|\CMDNAME|^{sub}_{sub}[par]|
                         • \cmdmthoparcls{cmdCls}[NEWNAME];
                           \cmdClsCls[sub][sub][par] = \mathcal{NEWNAME}_{sub}^{sub}[par]
                     426 \newcommandx{\cmdmthoparcls}[2][2=]
                     427 {\usrmth{#1}{Cls}{oparcls}[#2]}
```

```
\mthsig, ... to do!
                           \bullet \ \texttt{\ \ } \texttt{[Sub][Sup][Ext]} = \mathit{Name}^{sup}_{sub}Ext
                           • \mthargsig{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                           • \mthparsig{Name}[sub][sup][Ext1]{Par}[Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                       428 %% Style for Signatures
                       429 \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},~Q,~\mathcal{R},~\mathcal{S},~\mathcal{T},~\mathcal{U},~\mathcal{V},~\mathcal{W},~\mathcal{X},~\mathcal{Y},~\mathcal{Z}
                      \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, v, \phi, \varphi, \chi, \psi, \omega
                       430 \ensuremath{\tt Sig}{\tt mthsig}\\ \verb|\seqofgrklow{Sig}{\tt mthsig}|
     \cmdmthsig ... to do!
                           • \cmdmthsig{cmdName};
                             \cmdNameSig[sub][sub][ext] = cmdName_{sub}^{sub}ext
                           • \cmdmthsig{cmdName}[NewName];
                             \colon dNameSig[sub][sub][ext] = NewName_{sub}^{sub}ext
                       431 \newcommandx{\cmdmthsig}[2][2=]
                       432 {\usrmth{#1}{Sig}{sig}[#2]}
 \cmdmthargsig ... to do!
                           • \cmdmthargsig{cmdName};
                             \cmdNameSig[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                           • \cmdmthargsig{cmdName}[NewName];
                             \verb|\cmdNameSig[sub][sub][ext1]{arg}[ext2] = \textit{NewName}_{sub}^{sub}ext1(arg)ext2
                       433 \newcommandx{\cmdmthargsig}[2][2=]
                       434 {\usrmth{#1}{Sig}{argsig}[#2]}
\cmdmthoargsig ... to do!
                           • \cmdmthoargsig{cmdName};
                             \colon = cmdNameSig[sub][sub][arg] = cmdNameSub(arg)
                           • \cmdmthoargsig{cmdSig}[NewName];
                             \colored{cmdSigSig[sub][sub][arg]} = \mathcal{N}ew\mathcal{N}ame_{sub}^{sub}(arg)
                       435 \newcommandx{\cmdmthoargsig}[2][2=]
                       436 {\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
                       437 \mbox{ \mbox{cmdmthparsig}[2][2=]}
                             {\usrmth{#1}{Sig}{parsig}[#2]}
\cmdmthoparsig ... to do!
                           • \cmdmthoparsig{cmdName};
                             \colon dNameSig[sub][sub][par] = cmdName_{sub}^{sub}[par]
                           • \cmdmthoparsig{cmdSig}[NewName];
                             \colon dSigSig[sub][sub][par] = NewName_{sub}^{sub}[par]
                       439 \newcommandx{\cmdmthoparsig}[2][2=]
                       440 {\usrmth{#1}{Sig}{oparsig}[#2]}
  \mthstr, ... to do!
                           • \mthstr{Name} [sub] [sup] [Ext] = \mathfrak{Name}_{sub}^{sup} Ext
                           \bullet \ \texttt{\ \ } \texttt{[Sub] [sup] [Ext1] \{Arg\} [Ext2]} = \mathfrak{Name}^{sup}_{sub} Ext1(Arg) Ext2
                           \bullet \ \texttt{\ \ } \texttt{[Sub] [Sup] [Ext1] \{Par\} [Ext2]} = \mathfrak{Name}^{sup}_{sub} Ext1[Par]Ext2
```

```
441 %% Style for Structures
                                                             442 \mbox{\mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\box{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{
              \aStr, ... to do!
                                                          \mathfrak{a}, \mathfrak{b}, \mathfrak{c}, \mathfrak{d}, \mathfrak{e}, \mathfrak{f}, \mathfrak{g}, \mathfrak{h}, \mathfrak{i}, \mathfrak{j}, \mathfrak{k}, \mathfrak{l}, \mathfrak{m}, \mathfrak{n}, \mathfrak{o}, \mathfrak{p}, \mathfrak{q}, \mathfrak{r}, \mathfrak{s}, \mathfrak{t}, \mathfrak{u}, \mathfrak{v}, \mathfrak{w}, \mathfrak{r}, \mathfrak{g}
                                                          \mathfrak{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{V}, \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
                                                              \cmdmthstr ... to do!
                                                                       \cmdmthstr{cmdName};
                                                                             \colon d NameStr[sub][sub][ext] = cmd Name_{sub}^{sub}ext
                                                                       • \cmdmthstr{cmdName}[NewName];
                                                                             \verb|\cmdNameStr[sub][sub][ext]| = \mathfrak{NewName}_{sub}^{sub} ext
                                                              444 \newcommandx{\cmdmthstr}[2][2=]
                                                             445 {\usrmth{#1}{Str}{str}[#2]}
   \cmdmthargstr ... to do!
                                                                      • \cmdmthargstr{cmdName};
                                                                             \verb|\cmdNameStr[sub][sub][ext1]{arg}[ext2] = cmd \mathfrak{Name}_{sub}^{sub} ext1(arg) ext2
                                                                       • \cmdmthargstr{cmdName} [NewName];
                                                                             \cmdNameStr[sub][sub][ext1]{arg}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1(arg)ext2
                                                              446 \newcommandx{\cmdmthargstr}[2][2=]
                                                              447 {\usrmth{#1}{Str}{argstr}[#2]}
\cmdmthoargstr ... to do!
                                                                      • \cmdmthoargstr{cmdName};
                                                                             \cmdNameStr[sub] [sub] [arg] = cmdMame_{sub}^{sub}(arg)
                                                                       • \cmdmthoargstr{cmdStr}[NewName];
                                                                             \colon = \
                                                              448 \newcommandx{\cmdmthoargstr}[2][2=]
                                                                                {\usrmth{#1}{Str}{oargstr}[#2]}
   \cmdmthparstr ... to do!
                                                                      • \cmdmthparstr{cmdName};
                                                                             \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = cmd \mathfrak{Name}_{sub}^{sub} ext1[par] ext2
                                                                      • \cmdmthparstr{cmdName} [NewName];
                                                                             \verb|\cmdNameStr[sub][sub][ext1]{par}[ext2] = \mathfrak{NewName}_{sub}^{sub}ext1[par]ext2
                                                              450 \newcommandx{\cmdmthparstr}[2][2=]
                                                                             {\usrmth{#1}{Str}{parstr}[#2]}
\cmdmthoparstr ... to do!
                                                                      • \cmdmthoparstr{cmdName};
                                                                             \verb|\cmdNameStr[sub][sub][par]| = \mathfrak{cmdMame}_{sub}^{sub}[par]
                                                                       • \cmdmthoparstr{cmdStr}[NewName];
                                                                             \color{cmdStrStr[sub][sub][par]} = \mathfrak{NewName}_{sub}^{sub}[par]
                                                              452 \newcommandx{\cmdmthoparstr}[2][2=]
                                                             453 {\usrmth{#1}{Str}{oparstr}[#2]}
       \mthset, ... to do!
                                                                      • \mthset{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                       • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                                                                      \bullet \  \, \texttt{\barker}[\mathtt{Sub}] \  \, \texttt{\barker}[\mathtt{Ext1}] \  \, \texttt{\barker}[\mathtt{Ext2}] \  \, = \  \, \mathtt{Name}^{sup}_{sub} Ext1 [Par] Ext2
                                                              454 %% Style for Sets
                                                              455 \mbox{ \mbox{$\mbox{mthall{set}}\mbox{$\mbox{mthstyset}{\mbox{$\mbox{mthrm}$}}}}
```

```
\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
                                       456 \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} = xt
                                        457 \newcommandx{\cmdmthset}[2][2=]
                                                {\usrmth{#1}{Set}{set}[#2]}
  \cmdmthargset ... to do!
                                             \cmdmthargset{cmdName};
                                                 \cmdNameSet[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                                             • \cmdmthargset{cmdName}[NewName];
                                                  \colored {\tt NewNameSet[sub][sub][ext1]{arg}[ext2] = NewName}_{sub}^{sub}ext1(arg)ext2
                                       459 \newcommandx{\cmdmthargset}[2][2=]
                                       460 {\usrmth{#1}{Set}{argset}[#2]}
\cmdmthoargset ... to do!
                                             • \cmdmthoargset{cmdName}:
                                                 \verb|\cmdNameSet[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                                             • \cmdmthoargset{cmdSet}[NewName];
                                                 \colon dSetSet[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                       461 \newcommandx{\cmdmthoargset}[2][2=]
                                                {\usrmth{#1}{Set}{oargset}[#2]}
  \cmdmthparset ... to do!
                                             • \cmdmthparset{cmdName};
                                                  \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                                             • \cmdmthparset{cmdName}[NewName];
                                                  \verb|\cmdNameSet[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                       463 \newcommandx{\cmdmthparset}[2][2=]
                                                 {\usrmth{#1}{Set}{parset}[#2]}
\cmdmthoparset ... to do!
                                             • \cmdmthoparset{cmdName};
                                                  \verb|\cmdNameSet[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                             • \cmdmthoparset{cmdSet}[NewName];
                                                 \colored{cmdSetSet[sub][sub][par]} = NewName_{sub}^{sub}[par]
                                       465 \newcommandx{\cmdmthoparset}[2][2=]
                                                  {\usrmth{#1}{Set}{oparset}[#2]}
  \cmdmthsetext ... to do!
                                       467 \newcommandx{\cmdmthsetext}[3][2=, 3=]
                                       468 {\cmdmthset{#1}[#2]\caselower[q]{#1}%
                                       469
                                                   \label{the string} {\rm Sym} {\rm sym} {\tt warmthlet} {\tt warmthlet} {\tt sym} {\tt warmthlet} {\tt warmthlet}
                                       470
                                                \usrmthlet{\thestring}{Elm}{elm}[\defval{#3}{\lowercase{#2}}]}
    \mthrel, ... to do!
                                             • \mthrel{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                             • \mthargrel{Name} [sub] [sup] [Ext1] {Arg} [Ext2] = Name_{sub}^{sup} Ext1(Arg) Ext2
                                              \bullet \  \, \texttt{\barrel{Name}[Sub][Sup][Ext1]{Par}[Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2]
```

```
471 %% Style for Relations
                      472 \verb|\cmdmthall{rel}\newcommand{\mthstyrel}{\mathit}|
     \aRel, ... to do!
                     a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, L, T, U, V, W, X, Y, Z
                     \begin{array}{l} \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{array}
                      473 \seqoflet{Rel}{mthrel}
     \cmdmthrel ... to do!
                          \cmdmthrel{cmdName};
                            \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                          • \cmdmthrel{cmdName}[NewName];
                            \colon dNameRel[sub][sub][ext] = NewName_{sub}^{sub}ext
                      474 \newcommandx{\cmdmthrel}[2][2=]
                      475 {\usrmth{#1}{Rel}{rel}[#2]}
 \cmdmthargrel ... to do!
                          • \cmdmthargrel{cmdName};
                            \cmdNameRel[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                          • \cmdmthargrel{cmdName}[NewName];
                            \cmdNameRel[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                      476 \newcommandx{\cmdmthargrel}[2][2=]
                            {\usrmth{#1}{Rel}{argrel}[#2]}
\cmdmthoargrel ... to do!
                          • \cmdmthoargrel{cmdName};
                            \colon dNameRel[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                          • \cmdmthoargrel{cmdRel}[NewName];
                            \colon drel [sub] [sub] [arg] = NewName_{sub}^{sub} (arg)
                      478 \newcommandx{\cmdmthoargrel}[2][2=]
                            {\usrmth{#1}{Rel}{oargrel}[#2]}
 \cmdmthparrel ... to do!
                          • \cmdmthparrel{cmdName};
                            \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2|
                          • \cmdmthparrel{cmdName}[NewName];
                            \verb|\cmdNameRel[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                      480 \newcommandx{\cmdmthparrel}[2][2=]
                            {\usrmth{#1}{Rel}{parrel}[#2]}
\cmdmthoparrel ... to do!
                          • \cmdmthoparrel{cmdName};
                            \colon dNameRel[sub][sub][par] = cmdName_{sub}^{sub}[par]
                          • \cmdmthoparrel{cmdRel}[NewName];
                            \verb|\cmdRelRel[sub][sub][par]| = NewName_{sub}^{sub}[par]|
                      482 \newcommandx{\cmdmthoparrel}[2][2=]
                      483 {\usrmth{#1}{Rel}{oparrel}[#2]}
  \mthfun, ... to do!
                          \bullet \ \  \  \, \texttt{Name} \texttt{[sub][sup][Ext]} = \mathsf{Name}^{sup}_{sub} Ext
                          • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                          \bullet \  \, \texttt{\bar{Name}[sub][sup][Ext1][Par][Ext2]} = \mathsf{\bar{Name}}_{sub}^{sup}Ext1[Par]Ext2
                      484 %% Style for Functions
                      485 \mbox{\cmdmthall} {\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
                                                                        486 \seqoflet{Fun}{mthfun}
                 \cmdmthfun ... to do!
                                                                                   • \cmdmthfun{cmdName};
                                                                                          \verb|\cmdNameFun[sub][sub][ext]| = \verb|\cmdName|^{sub}_{sub} ext|
                                                                                   • \cmdmthfun{cmdName}[NewName];
                                                                                          \verb|\cmdNameFun[sub][sub][ext]| = \verb|\NewName|^{sub}_{sub}ext|
                                                                         487 \newcommandx{\cmdmthfun}[2][2=]
                                                                                          {\usrmth{#1}{Fun}{fun}[#2]}
    \cmdmthargfun ... to do!
                                                                                   • \cmdmthargfun{cmdName};
                                                                                           \verb|\cmdNameFun[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                                                                                   • \cmdmthargfun{cmdName}[NewName];
                                                                                          \cmdNameFun[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                                        489 \newcommandx{\cmdmthargfun}[2][2=]
                                                                        490 {\usrmth{#1}{Fun}{argfun}[#2]}
\cmdmthoargfun ... to do!
                                                                                   • \cmdmthoargfun{cmdName};
                                                                                          \cmdNameFun[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                                   • \cmdmthoargfun{cmdFun}[NewName];
                                                                                           \cmbox{cmdFunFun[sub] [sub] [arg]} = NewName_{sub}^{sub}(arg)
                                                                         491 \newcommandx{\cmdmthoargfun}[2][2=]
                                                                                          {\usrmth{#1}{Fun}{oargfun}[#2]}
    \cmdmthparfun ... to do!
                                                                                   • \cmdmthparfun{cmdName};
                                                                                          \verb|\cmdNameFun[sub][sub][ext1]{par}[ext2] = \verb|\cmdName$| sub| ext1[par]ext2|
                                                                                   • \cmdmthparfun{cmdName}[NewName];
                                                                                          \cmdNameFun[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                        493 \newcommandx{\cmdmthparfun}[2][2=]
                                                                        494 {\usrmth{#1}{Fun}{parfun}[#2]}
\cmdmthoparfun ... to do!
                                                                                   • \cmdmthoparfun{cmdName};
                                                                                          \verb|\cmdNameFun[sub][sub][par]| = \verb|\cmdNameFun[sub][par]|
                                                                                   • \cmdmthoparfun{cmdFun} [NewName];
                                                                                          \cmbox{cmdFunFun[sub][sub][par]} = NewName_{sub}^{sub}[par]
                                                                        495 \newcommandx{\cmdmthoparfun}[2][2=]
                                                                                          {\usrmth{#1}{Fun}{oparfun}[#2]}
        \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\
                                                                                   \bullet \ \texttt{\normalfont{Name}[sub][sup][Ext]} = \texttt{\normalfont{Name}} Ext
                                                                                   • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = \mathbb{E}_{sub}[Ext1][Arg][Ext2]
                                                                                   • \mathbb{E}_{sub}[Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}_{sub}[Ext1][Par][Ext2]
                                                                        497 %% Style for Symbols
                                                                        498 \mbox{\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{}\box{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox{$\mbox
                 \aggreen \
                                                                     \mathtt{a},\,\mathtt{b},\,\mathtt{c},\,\mathtt{d},\,\mathtt{e},\,\mathtt{f},\,\mathtt{g},\,\mathtt{h},\,\mathtt{i},\,\mathtt{j},\,\mathtt{k},\,\mathtt{l},\,\mathtt{m},\,\mathtt{n},\,\mathtt{o},\,\mathtt{p},\,\mathtt{q},\,\mathtt{r},\,\mathtt{s},\,\mathtt{t},\,\mathtt{u},\,\mathtt{v},\,\mathtt{w},\,\mathtt{x},\,\mathtt{y},\,\mathtt{z}
                                                                     A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                                                                     \alpha,\,\beta,\,\gamma,\,\delta,\,\epsilon,\,\varepsilon,\,\zeta,\,\eta,\,\theta,\,\vartheta,\,\iota,\,\kappa,\,\varkappa,\,\lambda,\,\mu,\,\nu,\,\xi,\,\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
```

499 \seqoflet{Sym}{mthsym}

```
\cmdmthsym ... to do!
                                                                • \cmdmthsym{cmdName};
                                                                       \cmdNameSym[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                                                 • \cmdmthsym{cmdName}[NewName];
                                                                       \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub} ext|
                                                         500 \newcommandx{\cmdmthsym}[2][2=]
                                                                      {\usrmth{#1}{Sym}{sym}[#2]}
   \cmdmthargsym ... to do!
                                                                • \cmdmthargsym{cmdName};
                                                                      \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg) ext2
                                                                 • \cmdmthargsym{cmdName}[NewName];
                                                                      \cmdNameSym[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                                         502 \newcommandx{\cmdmthargsym}[2][2=]
                                                                      {\usrmth{#1}{Sym}{argsym}[#2]}
\cmdmthoargsym ... to do!
                                                                 \cmdmthoargsym{cmdName};
                                                                      \colon 
                                                                 • \cmdmthoargsym{cmdSym}[NewName];
                                                                       \colon 
                                                         504 \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|| ext1|| par|| ext2||
                                                        506 \newcommandx{\cmdmthparsym}[2][2=]
                                                                      {\usrmth{#1}{Sym}{parsym}[#2]}
\cmdmthoparsym ... to do!
                                                                 • \cmdmthoparsym{cmdName};
                                                                       \cmdNameSym[sub][sub][par] = cmdName_{sub}^{sub}[par]
                                                                 \cmdmthoparsym{cmdSym}[NewName];
                                                                       \colon dSymSym[sub][sub][par] = NewName_{sub}^{sub}[par]
                                                        508 \newcommandx{\cmdmthoparsym}[2][2=]
                                                                      {\usrmth{#1}{Sym}{oparsym}[#2]}
      \mthelm, ... to do!
                                                                • \mthelm{Name}[sub][sup][Ext] = Name_{sub}^{sup}Ext
                                                                 \bullet \verb| \t targelm{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2 \\
                                                                 \bullet \  \, \texttt{\bar{Name}[Sub][Sup][Ext1][Par][Ext2]} = Name_{sub}^{sup}Ext1[Par]Ext2
                                                         510 %% Style for Elements
                                                        511 \cmdmthall{elm}\newcommand{\mthstyelm}{\mathnormal}
             \all lm, ... 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
                                                        512 \seqoflet{Elm}{mthelm}
             \cmdmthelm ... to do!
                                                                • \cmdmthelm{cmdName};
```

 $\verb|\cmdNameElm[sub][sub][ext]| = cmdName_{sub}^{sub}ext$

```
• \cmdmthelm{cmdName}[NewName];
                          \verb|\cmdNameElm[sub][sub][ext]| = NewName^{sub}_{sub}ext
                     513 \newcommandx{\cmdmthelm}[2][2=]
                          {\usrmth{#1}{Elm}{elm}[#2]}
   \cmdmthargelm ... to do!
                        \cmdmthargelm{cmdName};
                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargelm{cmdName}[NewName];
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     515 \newcommandx{\cmdmthargelm}[2][2=]
                          {\usrmth{#1}{Elm}{argelm}[#2]}
  \cmdmthoargelm ... to do!
                        \cmdmthoargelm{cmdName};
                          \colon = cmdNameElm[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargelm{cmdElm}[NewName];
                          \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                      517 \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
                     519 \newcommandx{\cmdmthparelm}[2][2=]
                          {\usrmth{#1}{Elm}{parelm}[#2]}
  \cmdmthoparelm ... to do!
                        \cmdmthoparelm{cmdName};
                          \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                        • \cmdmthoparelm{cmdElm}[NewName];
                          \cmdElmElm[sub] [sub] [par] = NewName_{sub}^{sub}[par]
                      521 \newcommandx{\cmdmthoparelm}[2][2=]
                          {\usrmth{#1}{Elm}{oparelm}[#2]}
   \cmdmthsymelm ... to do!
                        • \cmdmthsymelm{cmdName};
                          \verb|\cmdNameSym[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                          \cmdNameElm[sub][sub][ext] = cmdName_{sub}^{sub}ext
                        • \cmdmthsymelm{cmdName}[NewName];
                           \verb|\cmdNameSym[sub][sub][ext]| = \verb|\NewName|_{sub}^{sub}ext|
                          \colon dNameElm[sub][sub][ext] = NewName^{sub}_{sub}ext
                      524 \newcommandx{\cmdmthsymelm}[2][2=]
                            {\cmdmthsym{#1}[#2]%
                     526
                           \cmdmthelm{#1}[#2]}
\cmdmthargsymelm ... to do!
                        • \cmdmthargsymelm{cmdName};
                          \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName||_{sub}^{sub} ext1(arg) ext2
                           \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargsymelm{cmdName}[NewName];
                          \verb|\cmdNameSym[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2
                          \verb|\cmdNameElm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
```

```
527 \newcommandx{\cmdmthargsymelm}[2][2=]
                                                                               {\cmdmthargsym{#1}[#2]%
                                                                               \cmdmthargelm{#1}[#2]}
                                                              520
\c do!
                                                                       \cmdmthoargsymelm{cmdName};
                                                                            \cmdNameSym[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                                                                             \colonerge{cmdNameElm[sub][sub][arg]} = cmdName^{sub}_{sub}(arg)
                                                                       • \cmdmthoargsymelm{cmdName}[NewName];
                                                                             \cmdNameSym[sub][sub][arg] = NewName_{sub}^{sub}(arg)
                                                                            \colon = NewName_{sub}^{sub}[arg] = NewName_{sub}^{sub}(arg)
                                                               530 \newcommandx{\cmdmthoargsymelm}[2][2=]
                                                                              {\cmdmthoargsym{#1}[#2]%
                                                                               \cmdmthoargelm{#1}[#2]}
                                                              532
   \cmdmthparsymelm ... to do!
                                                                       \cmdmthparsymelm{cmdName};
                                                                            \verb|\cmdNameSym[sub][sub][ext1]{par}[ext2] = \verb|\cmdName|| sub|| ext1|| par|| ext2||
                                                                             \verb|\cmdNameElm[sub][sub][ext1]{par}[ext2] = cmdName_{sub}^{sub}ext1[par]ext2
                                                                       • \cmdmthparsymelm{cmdName}[NewName];
                                                                             \cmdNameSym[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                                             \cmdNameElm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2
                                                               533 \newcommandx{\cmdmthparsymelm}[2][2=]
                                                                              {\cmdmthparsym{#1}[#2]%
                                                              535
                                                                               \cmdmthparelm{#1}[#2]}
\c do!
                                                                       \cmdmthoparsymelm{cmdName};
                                                                             \verb|\cmdNameSym[sub][sub][par]| = \verb|\cmdName|_{sub}^{sub}[par]|
                                                                             \verb|\cmdNameElm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                                                                       • \cmdmthoparsymelm{cmdName}[NewName];
                                                                             \verb|\cmdNameSym[sub][sub][par]| = \verb|\NewName|^{sub}_{sub}[par]|
                                                                            \colon dNameElm[sub][sub][par] = NewName^{sub}_{sub}[par]
                                                              536 \newcommandx{\cmdmthoparsymelm}[2][2=]
                                                                             {\cmdmthoparsym{#1}[#2]%
                                                                               \cmdmthoparelm{#1}[#2]}
                                                              \mthlopr, ... to do!
                                                                      • \mthlopr{\oplus}[sub][sup][Ext] = \bigoplus_{sub}^{sup} Ext
                                                              540 %% Style for Sentences
                                                              541 \mbox{ }\mbox{ }
                  \cmdmthlopr ... to do!
                                                                      • \cmdmthlopr{cmdName};
                                                                            \verb|\cmdNameOpr[sub][sub][ext]| = cmdName_{sub}^{sub} ext|
                                                                       • \cmdmthlopr{cmdName}[\oplus];
                                                                            \colon = 0 [sub] [sub] [ext] = \oplus_{sub}^{sub} ext
                                                              542 \newcommandx{\cmdmthlopr}[2][2=]
                                                                           {\usrmth{#1}{0pr}{lopr}[#2]}
            \mthlrel, ... to do!
                                                                      • \mthlrel{\preceq}[sub][sup][Ext] = \leq_{sub}^{sup} Ext
                                                              544 %% Style for Sentences
                                                              545 \mbox{ \lower} \mbox{\lower} \mbox{\lo
                  \cmdmthlrel ... to do!
```

```
\cmdmthlrel{cmdName};
                           \verb|\cmdNameRel[sub][sub][ext]| = cmdName_{sub}^{sub}\ ext|
                         \cmdmthlrel{cmdName}[\preceq];
                           \verb|\cmdNameRel[sub][sub][ext]| = \preceq_{sub}^{sub} ext
                      546 \mbox{newcommandx{\cmdmthlrel}[2][2=]}
                      547 {\usrmth{#1}{Rel}{lrel}[#2]}
                     \mthsnt, ... to do!
                         • \mthsnt{Name} [sub] [sup] [Ext] = Name_{sub}^{sup} Ext
                         \bullet \  \, \texttt{\t Name} \  \, \texttt{\t [sub] [sup] [Ext1] \{Arg\} [Ext2]} \  \, = \  \, \texttt{\t Name} \  \, \underbrace{Ext1(Arg)Ext2}
                         • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = \mathbb{E}[Sub][Sub][Ext1][Par][Ext2]
                      549 %% Style for Sentences
                      550 \mbox{\mbox{\mbox{$\sim$}}{\mathbf{\mbox{$\sim$}}}{\mathbf{\mbox{$\sim$}}}
     \aSnt, ... to do!
                    a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                    A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                    \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, 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
                     551 \seqoflet{Snt}{mthsnt}
     \cmdmthsnt ... to do!
                         \cmdmthsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][ext]| = \verb|\cmdName|_{sub}^{sub} ext|
                         • \cmdmthsnt{cmdName}[NewName];
                           552 \newcommandx{\cmdmthsnt}[2][2=]
                      553 {\usrmth{#1}{Snt}{snt}[#2]}
 \cmdmthargsnt ... to do!
                         \cmdmthargsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName|^{sub}_{sub}ext1(arg)ext2|
                         • \cmdmthargsnt{cmdName}[NewName];
                           \verb|\cmdNameSnt[sub][sub][ext1]{arg}[ext2] = \verb|\NewName|^{sub}_{sub}ext1(arg)ext2
                      554 \newcommandx{\cmdmthargsnt}[2][2=]
                      555 {\usrmth{#1}{Snt}{argsnt}[#2]}
\cmdmthoargsnt ... to do!
                         \cmdmthoargsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][arg]| = \verb|\cmdNames|^{sub}(arg)
                         • \cmdmthoargsnt{cmdName}[NewName];
                           \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                      556 \newcommandx{\cmdmthoargsnt}[2][2=]
                     557 {\usrmth{#1}{Snt}{oargsnt}[#2]}
 \cmdmthparsnt ... to do!
                         \cmdmthparsnt{cmdName};
                           \label{lem:lemma:sub} $$ \operatorname{Snt}[\operatorname{sub}][\operatorname{sub}][\operatorname{ext1}] = \operatorname{cmdName}_{\operatorname{sub}}^{\operatorname{sub}} ext1[\operatorname{par}] ext2 $$
                         • \cmdmthparsnt{cmdName}[NewName];
                           \verb|\cmdNameSnt[sub][sub][ext1]{par}[ext2] = \verb|\cmdNameSub| ext1[par]ext2|
                      558 \newcommandx{\cmdmthparsnt}[2][2=]
                          {\usrmth{#1}{Snt}{parsnt}[#2]}
\cmdmthoparsnt ... to do!
                         \cmdmthoparsnt{cmdName};
                           \verb|\cmdNameSnt[sub][sub][par]| = \verb|\cmdName|_{sub}^{sub}[par]|
```

```
\cmdmthoparsnt{cmdName}[NewName];
                          \cmdNameSnt[sub][sub][par] = NewName_{sub}^{sub}[par]
                    560 \newcommandx{\cmdmthoparsnt}[2][2=]
                         {\usrmth{#1}{Snt}{oparsnt}[#2]}
  \mthfrm, ... to do!
                       • \mthfrm{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
                        \bullet \verb| \t targfrm{Name}[sub][sup][Ext1]{Arg}[Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2 
                        • \mathbb{E}[Sub][Sub][Sub][Ext1][Par][Ext2] = Name_{sub}^{sup}Ext1[Par]Ext2
                    562 %% Style for Formulae
                    563 \cmdmthall{frm}\newcommand{\mthstyfrm}{\mathit}
    \aFrm, ... to do!
                   a, b, c, d, e, f, g, h, i, j, k, l, m, n, o, p, q, r, s, t, u, v, w, x, y, z
                   A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                   \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                   A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,\Lambda,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\Phi,\Phi,\,X,\,\Psi,\,\Omega
                    564 \seqoflet{Frm}{mthfrm}
    \cmdmthfrm ... to do!
                       \cmdmthfrm{cmdName};
                          \verb|\cmdNameFrm[sub][sub][ext]| = cmdName_{sub}^{sub}ext
                        • \cmdmthfrm{cmdName}[NewName];
                          \verb|\cmdNameFrm[sub][sub][ext]| = NewName_{sub}^{sub}ext
                    565 \newcommandx{\cmdmthfrm}[2][2=]
                    566 {\usrmth{#1}{Frm}{frm}[#2]}
 \cmdmthargfrm ... to do!
                       • \cmdmthargfrm{cmdName};
                          \cmdNameFrm[sub][sub][ext1]{arg}[ext2] = cmdName_{sub}^{sub}ext1(arg)ext2
                        • \cmdmthargfrm{cmdName}[NewName];
                          \verb|\cmdNameFrm[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                     567 \newcommandx{\cmdmthargfrm}[2][2=]
                         {\usrmth{#1}{Frm}{argfrm}[#2]}
\cmdmthoargfrm ... to do!
                        \cmdmthoargfrm{cmdName};
                          \verb|\cmdNameFrm[sub][sub][arg]| = cmdName_{sub}^{sub}(arg)
                       • \cmdmthoargfrm{cmdName}[NewName];
                          \colon = NewName_{sub}^{sub}(arg) = NewName_{sub}^{sub}(arg)
                     569 \newcommandx{\cmdmthoargfrm}[2][2=]
                         {\usrmth{#1}{Frm}{oargfrm}[#2]}
 \cmdmthparfrm ... to do!
                       • \cmdmthparfrm{cmdName};
                          \cmdNameFrm[sub] [sub] [ext1] {par} [ext2] = cmdName_{sub}^{sub} ext1[par] ext2
                        • \cmdmthparfrm{cmdName}[NewName];
                          \verb|\cmdNameFrm[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                    571 \newcommandx{\cmdmthparfrm}[2][2=]
                    572 {\usrmth{#1}{Frm}{parfrm}[#2]}
\cmdmthoparfrm ... to do!
                       • \cmdmthoparfrm{cmdName};
                          \verb|\cmdNameFrm[sub][sub][par]| = cmdName_{sub}^{sub}[par]|
                        • \cmdmthoparfrm{cmdName}[NewName];
                          \colon dNameFrm[sub][sub][par] = NewName_{sub}^{sub}[par]
                     573 \newcommandx{\cmdmthoparfrm}[2][2=]
                    574 {\usrmth{#1}{Frm}{oparfrm}[#2]}
```

```
\mthmat, ... to do!
                        • \mthmat{Name} [sub] [sup] [Ext] = Name_{sub}^{sup} Ext
                        • \mathbb{E}_{sub}[Sub][Sup][Ext1][Arg][Ext2] = Name_{sub}^{sup}Ext1(Arg)Ext2
                        • \mathbb{E}_{sub}[Sub][Sub][Ext1][Par][Ext2] = \mathbf{Name}_{sub}^{sup}Ext1[Par]Ext2
                     576 %% Style for Matrices
                     577 \mbox{ \maths1}{mat}\newcommand{\mbstymat}[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, P, P, \Sigma, \Sigma, T, \Upsilon, \Phi, \Phi, X, \Psi, \Omega
                     578 \seqoflet{Mat}{mthmat}
     \cmdmthmat ... to do!
                        \cmdmthmat{cmdName};
                          \verb|\cmdNameMat[sub][sub][ext]| = \mathbf{cmdName}_{sub}^{sub} ext|
                        • \cmdmthmat{cmdName}[NewName];
                          \verb|\cmdNameMat[sub][sub][ext]| = \verb|NewName|_{sub}^{sub} ext|
                     579 \newcommandx{\cmdmthmat}[2][2=]
                     580 {\usrmth{#1}{Mat}{mat}[#2]}
 \cmdmthargmat ... to do!
                        • \cmdmthargmat{cmdName};
                          \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \mathbf{cmdName}_{sub}^{sub} ext1(arg) ext2
                        • \cmdmthargmat{cmdName}[NewName];
                          \verb|\cmdNameMat[sub][sub][ext1]{arg}[ext2] = \verb|\cmdName| sub| ext1(arg)ext2|
                     581 \newcommandx{\cmdmthargmat}[2][2=]
                         {\usrmth{#1}{Mat}{argmat}[#2]}
\cmdmthoargmat ... to do!
                        • \cmdmthoargmat{cmdName};
                          \colon dNameMat[sub][sub][arg] = cmdName_{sub}^{sub}(arg)
                        • \cmdmthoargmat{cmdName}[NewName];
                          \colon = NewName_{sub}^{sub}[arg] = NewName_{sub}^{sub}(arg)
                     583 \newcommandx{\cmdmthoargmat}[2][2=]
                     584 {\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];
                          \c NewName Sub [sub] [sub] [ext1] [par] [ext2] = NewName Sub ext1[par] ext2
                     585 \newcommandx{\cmdmthparmat}[2][2=]
                     586 {\usrmth{#1}{Mat}{parmat}[#2]}
\cmdmthoparmat ... to do!
                        \cmdmthoparmat{cmdName};
                          \cmdNameMat[sub][sub][par] = cmdName_{sub}^{sub}[par]
                        • \cmdmthoparmat{cmdName}[NewName];
                          \cmdNameMat[sub][sub][par] = NewName_{sub}^{sub}[par]
                     587 \newcommandx{\cmdmthoparmat}[2][2=]
                     588 {\usrmth{#1}{Mat}{oparmat}[#2]}
  \mthvec, ... to do!
                        • \mthvec{Name} [sub] [sup] [Ext] = Name_{sub}^{sup}Ext
```

```
 \bullet \ \texttt{\normalfont{Name}[Sub][Sub][Ext1][Arg][Ext2]} = \textit{Name}_{sub}^{sup} Ext1(Arg) Ext2 
                                      \bullet \ \texttt{\normalfont{Name}[Sub][Sup][Ext1]{Par}[Ext2]} = \textit{Name}^{sup}_{sub} Ext1[Par]Ext2 
                                589 %% Style for Vectors
                                590 \label{lem:command} \http: [1]{\boldsymbol{\mathit{#1}}} \\
       \aVec, ... to do!
                               a,\,b,\,c,\,d,\,e,f,\,g,\,h,\,i,\,j,\,k,\,l,\,m,\,n,\,o,\,p,\,q,\,r,\,s,\,t,\,u,\,v,\,w,\,x,\,y,\,z
                               A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z
                               \alpha, \beta, \gamma, \delta, \epsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \varkappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \phi, \varphi, \chi, \psi, \omega
                               A,\,B,\,\Gamma,\,\Delta,\,E,\,E,\,Z,\,H,\,\Theta,\,\Theta,\,I,\,K,\,K,\,A,\,M,\,N,\,\Xi,\,O,\,\Pi,\,\Pi,\,P,\,P,\,\Sigma,\,\Sigma,\,T,\,\Upsilon,\,\varPhi,\,\varPhi,\,X,\,\Psi,\,\Omega
                                591 \seqoflet{Vec}{mthvec}
       \cmdmthvec ... to do!
                                     \cmdmthvec{cmdName};
                                         \cmdNameVec[sub][sub][ext] = cmdName_{sub}^{sub}ext
                                     • \cmdmthvec{cmdName}[NewName];
                                         \verb|\cmdNameVec[sub][sub][ext]| = NewName_{sub}^{sub}ext
                                592 \newcommandx{\cmdmthvec}[2][2=]
                                        {\usrmth{#1}{Vec}{vec}[#2]}
 \cmdmthargvec ... to do!
                                     \cmdmthargvec{cmdName};
                                         \verb|\cmdNameVec[sub][sub][ext1]{arg}[ext2] = cmdName^{sub}_{sub}ext1(arg)ext2
                                     • \cmdmthargvec{cmdName}[NewName];
                                         \cmdNameVec[sub][sub][ext1]{arg}[ext2] = NewName_{sub}^{sub}ext1(arg)ext2
                                594 \newcommandx{\cmdmthargvec}[2][2=]
                                         {\usrmth{#1}{Vec}{argvec}[#2]}
\cmdmthoargvec ... to do!
                                     \cmdmthoargvec{cmdName};
                                         \colon = cmdName \col
                                     • \cmdmthoargvec{cmdName}[NewName];
                                         \colon = NewName^{sub}(arg) = NewName^{sub}_{sub}(arg)
                                596 \mbox{newcommandx{\cmdmthoargvec}[2][2=]}
                                597 {\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];
                                         \verb|\cmdNameVec[sub][sub][ext1]{par}[ext2] = NewName_{sub}^{sub}ext1[par]ext2|
                                598 \mbox{ \cmdmthparvec}[2][2=]
                                        {\usrmth{#1}{Vec}{parvec}[#2]}
\cmdmthoparvec ... to do!
                                     \cmdmthoparvec{cmdName};
                                         \verb|\cmdNameVec[sub][sub][par]| = cmdName^{sub}_{sub}[par]|
                                     • \cmdmthoparvec{cmdName}[NewName];
                                         \colon = NewName_{sub}^{sub}[par] = NewName_{sub}^{sub}[par]
                                 600 \newcommandx{\cmdmthoparvec}[2][2=]
                                601
                                       {\usrmth{#1}{Vec}{oparvec}[#2]}
                                602 \fi
```

607 \iftext@

```
\adhoc
                       • \adhoc = ad\ hoc
                    609 \cmdtxtabr{adhoc}[ad hoc]
                       • \arrange a fortiori
      \afortiori
                    610 \cmdtxtabr{afortiori}[a fortiori]
                       • \arrive{apriori} = a priori
        \apriori
                    611 \cmdtxtabr{apriori}[a priori]
                       ullet \aposteriori = a\ posteriori
    \aposteriori
                    612 \cmdtxtabr{aposteriori}[a posteriori]
              \cf
                       • \backslash cf = cf.
                    613 \cmdtxtabr{cf}[cf.]
        \dedicto
                       • \del{dedicto} = de \ dicto
                    614 \cmdtxtabr{dedicto}[de dicto]
        \defacto
                       • \del{defacto} = de \ facto
                    615 \cmdtxtabr{defacto}[de facto]
            \dere
                       • \forall ere = de re
                    616 \cmdtxtabr{dere}[de re]
                       • \divideetimpera = divide et impera
\divideetimpera
                    617 \cmdtxtabr{divideetimpera}[divide et impera]
              \eg
                       • \backslash eg = e.g.
                    618 \cmdtxtabr{eg}[e.g.]
           \ergo
                       • \ergo = ergo
                    619 \cmdtxtabr{ergo}
                       • \errata = errata
         \errata
                    620 \cmdtxtabr{errata}
        \erratum
                       • \erratum = erratum
                    621 \cmdtxtabr{erratum}
            \etal
                       • \ensuremath{\backslash} etal = et~al.
                    622 \cmdtxtabr{etal}[et al.]
                       • \ensuremath{\backslash} \mathsf{etc} = etc.
            \etc
                    623 \cmdtxtabr{etc}[etc.]
                       • \forallie = i.e.
              \ie
                    624 \cmdtxtabr{ie}[i.e.]
                       • \mbox{\mbox{\tt mutatis}} mutandis = mutatis mutandis
\mutatismutandis
                    625 \cmdtxtabr{mutatismutandis}[mutatis mutandis]
                       • \percontra = per contra
      \percontra
                    626 \cmdtxtabr{percontra}[per contra]
     \primafacie
                       • \primafacie = prima facie
```

627 \cmdtxtabr{primafacie}[prima facie]

```
\viceversa
               • \viceversa = vice versa
             628 \cmdtxtabr{viceversa}[vice versa]
         \vs
               • \vert vs = vs.
             629 \cmdtxtabr{vs}[vs.]
        \viz
               • \forall viz = viz.
             630 \cmdtxtabr{viz}[viz.]
             \Dedicto
               • \Dedicto = De \ dicto
             632 \cmdtxtabr{Dedicto}[De dicto]
               • \ensuremath{\texttt{Defacto}} = De\ facto
     \Defacto
             633 \cmdtxtabr{Defacto}[De facto]
               • \Dere = De re
       \Dere
             634 \cmdtxtabr{Dere}[De re]
\Divideetimpera
               ullet \Divideetimpera = Divide\ et\ impera
             635 \cmdtxtabr{Divideetimpera}[Divide et impera]
               • \Eg = E.g.
         \Eg
             636 \cmdtxtabr{Eg}[E.g.]
               • \Errata = Errata
      \Errata
             637 \cmdtxtabr{Errata}
               • \Erratum = Erratum
     \Erratum
             638 \cmdtxtabr{Erratum}
   \Percontra
               • \ensuremath{\backslash} \mathtt{Percontra} = Per\ contra
             639 \cmdtxtabr{Percontra}[Per contra]
   \Primafacie
                \bullet \ \ \verb|\Primafacie| = Prima\ facie \\
             640 \cmdtxtabr{Primafacie} [Prima facie]
               • \Viceversa = Vice versa
   \Viceversa
             641 \cmdtxtabr{Viceversa}[Vice versa]
             \role
               • \role = r\hat{o}le
             645 \cmdtxtabr{role}[r\^{o}le]
             \Role
               • \Role = R\hat{o}le
             647 \cmdtxtabr{Role} [R\^{o}le]
             \aka
               • \again a.k.a.
             649 \cmdtxtabr{aka}[a.k.a.]
```

```
\contd
            • \contd = contd.
           650 \cmdtxtabr{contd}[contd.]
      \iff
            • \setminus iff = iff
           651 \cmdtxtabr{iff}
            • \ \ \ \ \ \ s.t.
      \stx
           652 \cmdtxtabr{stx}[s.t.]
      \resp
            • \resp = resp.
           653 \cmdtxtabr{resp}[resp.]
            • \wrt = w.r.t.
      \wrt
           654 \cmdtxtabr{wrt}[w.r.t.]
            • \wdots w.l.o.g.
     \wlogx
           655 \cmdtxtabr{wlogx}[w.l.o.g.]
           \Contd
            • \contd = Contd.
           657 \cmdtxtabr{Contd}[Contd.]
            • \W log x = W.l.o.g.
     \Wlogx
           658 \cmdtxtabr{Wlogx}[W.l.o.g.]
           659 \fi
           664 \ifmath@
           \defeq, \seteq ...
           666 \verb|\DeclareRobustCommand{\defeq}|
              {\mthlopr{\triangleq}}
           668 \DeclareRobustCommand{\seteq}
              {\mthlopr{:=}}
           \implies, ... ...
           671 \DeclareRobustCommand{\implies}
           672 {\mthlrel{\Rightarrow}}
           673 \DeclareRobustCommand{\notimplies}
           674 {\mthlrel{\not\Rightarrow}}
\coimplies, ... ...
           675 \DeclareRobustCommand{\coimplies}
           676 {\mthlrel{\Leftrightarrow}}
           677 \DeclareRobustCommand{\notcoimplies}
              {\mthlrel{\not\!\Leftrightarrow}}
           \cmodels, ... ...
           680 \DeclareRobustCommand{\cmodels}
             {\mthlrel{\models}}
           682 \DeclareRobustCommand{\notcmodels}
           683 {\mthlrel{\not\models}}
```

```
\cequiv, ... ...
                                     684 \verb|\DeclareRobustCommand{\cequiv}|
                                     685 {\mthlrel{\equiv}}
                                     686 \DeclareRobustCommand{\notcequiv}
                                     687 {\mthlrel{\not\equiv}}
                                     \dual, \adj, ... ...
                                     689 \DeclareRobustCommand{\dual}[1]
                                              {\mth{\overline{#1}}}
                                     691 \DeclareRobustCommand{\adj}[1]
                                     692 {\mth{\mathring{#1}}}
                                     693 \DeclareRobustCommand{\der}[1]
                                     694 \quad \{\mth{\widetilde{\#1}}\}
                                     695 \DeclareRobustCommand{\trn}[1]
                                     696 \quad \{\mathbf {\mathbf{41}}\}\
                        \vec ...
                                     697 \let\oldvec\vec
                                     698 \DeclareRobustCommand{\vec}[1]
                                             {\bf \{\mbox{\mbox{$\setminus$}}}
                                     \enumeration, ... ...
                                    701 \varcmd{enumeration}{\mth}{}{,}{}}
                                     702 \operatorname{denumerationx}{\mathbf{}}{}
     \sequence, ... ...
                                     703 \ \ \quad \
                                     704 \ \ {\mth}{\left[}{;}{\right]}{}
          \tuple, ... ...
                                     705 \varcmd{tuple}{\mth}{\left\langle}{,}{\right\rangle}{}
                                     706 \varcmd{tuplex}{\mth}{\left\langle}{;}{\right\rangle}{}
                                     \set ...
                                     708 \DeclareRobustCommand{\set}[2]
                                             \card ...
                                     710 \DeclareRobustCommand{\card}[1]
                                     711 {\bf \{\d{\drup}{\#1}{\rvert}}}
                    \denot ...
                                     712 \DeclareRobustCommand{\denot}[1]
                                     \pow ...
                                     714 \DeclareRobustCommand{\pow}[1]
                                             {\mth{2^{\defval{#1}{\cdot}}}}
                                     \emptyrel
                                     717 \DeclareRobustCommand{\emptyrel}
                                     718 {\mth{\varnothing}}
```

```
\dom, \cod, ... ...
             720 \DeclareRobustCommand{\dom}
             721 {\mthargfun{dom}}
             722 \DeclareRobustCommand{\cod}
             723 {\mathbf cod}
             724 \DeclareRobustCommand{\rng}
             725 {\mthargfun{rng}}
             726 \DeclareRobustCommand{\img}
                {\mthargfun{img}}
             \prj ...
             729 \DeclareRobustCommand{\prj}
             730 {\mthargfun{prj}}
        \rst ...
             731 \DeclareRobustCommand{\rst}
             732 {\mthlopr{\upharpoonright}}
        \cmp ...
             733 \DeclareRobustCommand{\cmp}
             734 {\mthlopr{\circ}}
             \emptyfun ...
             736 \DeclareRobustCommand{\emptyfun}
             737 {\mth{\varnothing}}
             \pto, \pmapsto
             739 \DeclareMathOperator{\pto}
             740 {\ensuremath{\rightharpoonup}}
             741 \DeclareMathOperator{\pmapsto}
             \kern-1.5ex\rightharpoonup}}}
             \Aomega, \AOmega ...
             745 \DeclareRobustCommand{\Aomega}
             746 {\mthargset{\omega}}
             747 \DeclareRobustCommand{\AOmega}
               {\mthargset{\Omega}}
\Atheta, \ATheta ...
             749 \DeclareRobustCommand{\Atheta}
             750 {\mthargset{\theta}}
             751 \DeclareRobustCommand{\ATheta}
             752 {\mthargset{\Theta}}
 \Aomicron, ... ...
             753 \DeclareRobustCommand{\Aomicron}
             754 {\mthargset{\omicron}}
             755 \DeclareRobustCommand{\AOmicron}
                {\mthargset{\Omicron}}
             \SetB ...
             758 \DeclareRobustCommand{\SetB}
             759 {\mthset[mathbb]{B}}
```

```
\SetF ...
           760 \DeclareRobustCommand{\SetF}
           761 {\mthset[mathbb]{F}}
\SetN, ... ...
           762 \DeclareRobustCommand{\SetN}
           763 {\mthset[mathbb]{N}}
           764 \DeclareRobustCommand{\SetNI}[1][]
           765 {\SetN[\infty #1]}
\SetZ, ... ...
           766 \DeclareRobustCommand{\SetZ}
           767 {\mthset[mathbb]{Z}}
           768 \DeclareRobustCommand{\SetZI}[1][]
           769 {\SetZ[\pm\infty #1]}
           770 \DeclareRobustCommand{\SetZPI}[1][]
           771 {\SetZ[+\infty #1]}
           772 \DeclareRobustCommand{\SetZNI}[1][]
           773 {\SetZ[-\infty #1]}
\SetQ, ... ...
           774 \DeclareRobustCommand{\SetQ}
           775 {\mthset[mathbb]{Q}}
           776 \DeclareRobustCommand{\SetQI}[1][]
           777 {\SetQ[\pm\infty #1]}
           778 \DeclareRobustCommand{\SetQPI}[1][]
           779 {\SetQ[+\infty #1]}
           780 \DeclareRobustCommand{\SetQNI}[1][]
           781 {\SetQ[-\infty #1]}
\SetR, ... ...
           782 \DeclareRobustCommand{\SetR}
           783 {\mthset[mathbb]{R}}
           784 \DeclareRobustCommand{\SetRI}[1][]
           785 {\SetR[\pm\infty #1]}
           786 \DeclareRobustCommand{\SetRPI}[1][]
           787 {\SetR[+\infty #1]}
           788 \DeclareRobustCommand{\SetRNI}[1][]
              {\SetR[-\infty #1]}
\SetC, ... ...
           790 \DeclareRobustCommand{\SetC}
           791 {\mthset[mathbb]{C}}
           792 \DeclareRobustCommand{\SetCI}[1][]
           793 {\SetC[\infty #1]}
           \num, ... ...
           795 \DeclareRobustCommand{\num}[1]
           796 {\mth{[#1]}}
           797 \DeclareRobustCommand{\numcc}[2]
           798 {\mth{[\argsep{#1}{,}{#2}]}}
           799 \DeclareRobustCommand{\numco}[2]
           800 {\mth{[\argsep{#1}{,}{#2})}}
           801 \DeclareRobustCommand{\numoc}[2]
           802 {\mth{(\argsep{#1}{,}{#2}]}}
           803 \DeclareRobustCommand{\numoo}[2]
               {\mth{(\argsep{#1}{,}{#2})}}
```

```
\floor, \ceil ...
             806 \DeclareRobustCommand{\floor}[1]
             808 \DeclareRobustCommand{\ceil}[1]
             809 \quad \{\mth{\arg\min\{\left\lceil \frac{\pi1}{\pi1}\right\}}\}
             \arg ...
             811 \DeclareRobustCommand{\arg}
             812 {\mthfun{arg}}
   \evn, \odd ...
             813 \DeclareRobustCommand{\evn}
             814 {\mthfun{evn}}
             815 \DeclareRobustCommand{\odd}
             816 {\mthfun{odd}}
    \bst, ... ...
             817 \DeclareRobustCommand{\bst}
             818 {\mthfun{bst}}
             819 \DeclareRobustCommand{\argbst}
             820 {\mthfun{arg bst}}
\min, \max, ... ...
             821 \DeclareRobustCommand{\min}
             822 \quad \{\mathbf{mthfun\{min\}}\}\
             823 \DeclareRobustCommand{\max}
             824 {\bf \{mthfun\{max\}\}}
             825 \DeclareRobustCommand{\argmin}
             826 {\mthfun{arg min}}
             827 \DeclareRobustCommand{\argmax}
             828 {\mthfun{arg max}}
   \inf, \sup ...
             829 \DeclareRobustCommand{\inf}
             830 {\mthfun{inf}}
             831 \DeclareRobustCommand{\sup}
             832 {\mthfun{sup}}
             \fst, \lst ...
             834 \DeclareRobustCommand{\fst}
             835 {\mthargfun{fst}}
             836 \DeclareRobustCommand{\lst}
             837 {\mthargfun{lst}}
             838 \fi
             843 \ifcom@
   \defcomcls ... to do!
               \defcomcls{CompClass};
                \CompClass[sub][sup][ext] = COMPCLASS_{SUB}^{SUP}EXT;
                \CoCompClass[sub][sup][ext] = CoCompClass_{SUB}^{SUP}EXT
                \verb|\CompClassE[sub][sup][ext]| = CompClass-easy_{Sub}^{Sup}ext;
                \verb|\CoCompClassE[sub][sup][ext]| = CoCompClass-Easy_{SUB}^{SUP}EXT
                \CompClassH[sub][sup][ext] = COMPCLASS-HARD_{SUB}^{SUP}EXT;
```

```
\CoCompClassH[sub][sup][ext] = CoCompClass-HARD_{SUB}^{SUP}EXT
    \CompClassC[sub][sup][ext] = COMPCLASS-COMPLETE_{SUB}^{SUP}EXT;
    \verb|\CoCompClassC[sub][sup][ext]| = CoCompClass-complete_{SUB}^{SUP}EXT
   \label{eq:loss_sub_loss} $$\N{\compClass[sub][ext]} = N{\compClass[sub]Ext;}
    \verb|\ConCompClass[sub][sup][ext]| = ConCompClass_{SUB}^{SUP}EXT
    \label{eq:ncompClassEsub} $$ \[\sup] [ext] = NCOMPCLASS-EASY_{SUB}^{SUP}EXT; $$
    \verb|\ConCompClassE[sub][sup][ext]| = ConCompClass-Easy_{SUB}^{SUP}EXT|
    \NCompClassH[sub][sup][ext] = NCompClass-Hard_{SUB}^{SUP}EXT;
    \verb|\ConCompClassH[sub][sup][ext]| = ConCompClass-Hard_{SUB}^{SUP}EXT
    \label{eq:loss-complete} $$\N{\compClassC[sub][sup][ext]} = N{\compClass-COMPLETE}^{SUP}_{SUB}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_{SUB}^{SUP}EXT
   \UCompClassE[sub][sup][ext] = UCompClass-Easy_{SUB}^{SUP}EXT;
   \verb|\CoUCompClassE[sub][sup][ext]| = CoUCompClass-Easy_{SUB}^{SUP}EXT
   \UCompClassH[sub][sup][ext] = UCompClass-Hard_{Sub}^{SUP}EXT;
    \verb|\CoUCompClassH[sub][sup][ext]| = CoUCOMPCLASS-HARD_{SUB}^{SUP}EXT
    \UCompClassC[sub][sup][ext] = UCompClass-CompLete_{SUB}^{SUP}EXT;
   \verb|\CoUCompClassC[sub][sup][ext]| = CoUCOMPCLASS-COMPLETE_{SUB}^{SUP}EXT
    \triangle CompClass[sub][sup][ext] = ACOMPCLASS_{SUB}^{SUP}EXT;
    \verb|\CoACompClass[sub][sup][ext]| = CoACompClass^{SUP}_{SUB}EXT
    \ACompClassE[sub][sup][ext] = ACompClass-Easy_{SUB}^{SUP}EXT;
    \verb|\CoACompClassE[sub][sup][ext]| = CoACompClass-Easy_{SuB}^{SUP}EXT|
    \ACompClassH[sub][sup][ext] = ACompClass-Hard_{SUB}^{SUP}EXT;
    \verb|\CoACompClassH[sub][sup][ext]| = CoACompClass-Hard_{SUB}^{SUP}EXT
    \Lambda CompClassC[sub][sup][ext] = ACOMPCLASS-COMPLETE_{SUB}^{SUP}EXT;
    \CoACompClassC[sub][sup][ext] = CoACompClass-Complete_{SUB}^{SUP}EXT
\defcomcls{CompClass}[NewClass];
    \compClass[sub][sup][ext] = NewClass_{Sub}^{SUP}EXT;
    \CoCompClass[sub][sup][ext] = CoNEWCLASS_{SUB}^{SUP}EXT
    \CompClassE[sub][sup][ext] = NEWCLASS-EASY_{SUB}^{SUP}EXT;
    \verb|\CoCompClassE[sub][sup][ext]| = CoNewClass-easy_{SUB}^{SUP}EXT|
    \label{lower_loss} $$ \operatorname{CompClassH[sub][sup][ext]} = \operatorname{NewClass-HARD}^{\operatorname{SUP}}_{\operatorname{SUB}} = \operatorname{NewClass-HARD}^{\operatorname{SUP}}_{\operatorname{S
    \verb|\CoCompClassH[sub][sup][ext]| = CoNewClass-Hard_{SUB}^{SUP}EXT
    \label{local_complex} $$\operatorname{CompClassC[sub][sup][ext]} = \operatorname{NewClass-COMPLETE}^{SUP}_{SUB} = XT;
    \CoCompClassC[sub][sup][ext] = CoNEWCLASS-COMPLETE_{SUB}^{SUP}EXT
    \N{\c CLass}_{SuB}^{SUP} = NNEWCLass_{SuB}^{SUP} EXT;
    \verb|\CoNCompClass[sub][sup][ext]| = CoNNewClass^{SUP}_{SUB}EXT
    \NCompClassE[sub][sup][ext] = NNEWCLASS-EASY_{SUB}^{SUP}EXT;
    \verb|\ConCompClassE[sub][sup][ext]| = ConNewClass-easy^{SUP}_{SUB}EXT
    \NCompClassH[sub][sup][ext] = NNEWCLASS-HARD_{SUB}^{SUP}EXT;
    \verb|\ConCompClassH[sub][sup][ext]| = ConNewClass-Hard_{Sub}^{Sup} EXT|
    \label{eq:normalized_normalized} $$\NEWCLASS-COMPLETE_{SUB}^{SUP}EXT$;
   \verb|\ConCompClassC[sub][sup][ext]| = ConNewClass-complete_{sub}^{SUP} ext|
   \UCompClass[sub][sup][ext] = UNEWCLASS_{SUB}^{SUP}EXT;
    \CoUCompClass[sub][sup][ext] = CoUNEWCLASS_{SUB}^{SUP}EXT
    \UCompClassE[sub][sup][ext] = UNEWCLASS-EASY_{SUB}^{SUP}EXT;
    \verb|\CoUCompClassE[sub][sup][ext]| = CoUNEwCLASS-EASY_{SUB}^{SUP}EXT
    \UCompClassH[sub][sup][ext] = UNEWCLASS-HARD_{SUB}^{SUP}EXT;
    \verb|\CoUCompClassH[sub][sup][ext]| = CoUNEWCLASS-HARD_{SUB}^{SUP}EXT
    \UCompClassC[sub][sup][ext] = UNEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
    \texttt{CoUCompClassC[sub][sup][ext]} = \texttt{CoUNEwCLASS-COMPLETE}^{SUP}_{SUB}EXT
   \label{eq:accompclass} $$ \Delta CompClass[sub][sup][ext] = ANEWCLASS^{SUP}_{SUB}EXT; $$
    \verb|\CoACompClass[sub][sup][ext]| = CoANewClass_{SUB}^{SUP}EXT
    \label{eq:accompClassE[sub][sup][ext]} \begin{split} & \texttt{ANEWCLASS-EASY}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{EXT}; \end{split}
    \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_{Sub}^{SUP}EXT
                                        \verb|\ACompClassC[sub][sup][ext]| = ANEWCLASS-COMPLETE_{SUB}^{SUP}EXT;
                                        \verb|\CoACompClassC[sub][sup][ext]| = CoANewClass-complete_{Sub}^{Sup}EXT
                               844 \newcommandx{\defcomcls}[2][2=]
                                        {\defcomclssem{#1}{\defval{#2}{#1}}}%
                               846
                                         847 \newcommandx{\defcomclssem}[3][3=]
                                        {\defcomclsred{#3#1}{#2}[#3]%
                                        \defcomclsred{#3N#1}{#2}[#3N]%
                                        \defcomclsred{#3U#1}{#2}[#3U]%
                                         \defcomclsred{#3A#1}{#2}[#3A]}
                               852 \newcommandx{\defcomclsred}[3][3=]
                                        {\defcomclscmd{#1}{#2}[#3]%
                                         \defcomclscmd{#1E}{#2}[#3][-easy]%
                               854
                                         \defcomclscmd{#1H}{#2}[#3][-hard]%
                                         \defcomclscmd{#1C}{#2}[#3][-complete]}%
                               857 \newcommandx{\defcomclscmd}[4][3=, 4=]
                                        {\csdef{#1}{\txtcom{#3#2#4}}}
                               • Time[sub][sup][ext] = TIME_{SUB}^{SUP}EXT
      \Time. ...
                                        \mathsf{TimeE[sub][sup][ext]} = \mathsf{TIME-EASY}^{SUP}_{SUB} \mathsf{EXT}
                                        \mathsf{TimeH[sub][sup][ext]} = \mathsf{Time}\text{-}\mathsf{HARD}^{\mathsf{SUP}}_{\mathsf{SUB}}\mathsf{EXT}
                                        \verb|\TimeC[sub][sup][ext]| = TIME-COMPLETE_{SUB}^{SUP}EXT
                                    • \NTime[sub][sup][ext] = NTIME_{SUB}^{SUP}EXT
                                        \NTimeE[sub][sup][ext] = NTIME-EASY_{SUB}^{SUP}EXT
                                        \NTimeH[sub][sup][ext] = NTIME-HARD_{SUB}^{SUP}EXT
                                        \NTimeC[sub][sup][ext] = NTIME-COMPLETE_{SUB}^{SUP}EXT
                                    \verb| UTimeE[sub][sup][ext] = UTIME-EASY_{SUB}^{SUP}EXT
                                        \UTimeH[sub][sup][ext] = UTIME-HARD_{SUB}^{SUP}EXT
                                       \UTimeC[sub][sup][ext] = UTIME-COMPLETE_{SUB}^{SUP}EXT
                                    • ATime[sub][sup][ext] = ATIME_{SUB}^{SUP}EXT
                                       \Delta TimeE[sub][sup][ext] = ATIME-EASY_{SUB}^{SUP}EXT
                                       \Delta TimeH[sub][sup][ext] = ATIME-HARD_{SUB}^{SUP}EXT
                                       \Delta TimeC[sub][sup][ext] = ATIME-COMPLETE_{SUB}^{SUP}EXT
                               860 \defcomcls{Time}
                                    \Space, ...
                                        \SpaceE[sub][sup][ext] = SPACE-EASY_{SUB}^{SUP}EXT
                                        \SpaceH[sub][sup][ext] = SPACE-HARD_{SUB}^{SUP}EXT
                                        \verb|\SpaceC[sub][sup][ext]| = Space-complete est = 
                                     \bullet \ \texttt{NSpace[sub][sup][ext]} = NSPACE^{SUP}_{SUB}EXT \\
                                        \verb|\NSpaceE[sub][sup][ext]| = NSPACE-EASY_{SUB}^{SUP}EXT
                                        \NSpaceH[sub][sup][ext] = NSPACE-HARD_{SUB}^{SUP}EXT
                                        \NSpaceC[sub][sup][ext] = NSPACE-COMPLETE_{SUB}^{SUP}EXT
                                    • USpace[sub][sup][ext] = USPACE_{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-COMPLETE_{SUB}^{SUP}EXT
                                    • ASpace[sub][sup][ext] = ASPACE_{SUB}^{SUP}EXT
                                       \verb|\ASpaceE[sub][sup][ext]| = ASPACE-EASY_{SUB}^{SUP}EXT
                                        ASpaceH[sub][sup][ext] = ASPACE-HARD_{SUB}^{SUP}EXT
                                        ASpaceC[sub][sup][ext] = ASPACE-COMPLETE_{SUB}^{SUP}EXT
                               861 \defcomcls{Space}
                                    • \lfloor LogTime[sub][sup][ext] = LogTime_{SUB}^{SUP}EXT
\LogTime, ...
                                       \verb|\LogTimeE[sub][sup][ext]| = \operatorname{LOGTIME-EASY}^{SUP}_{SUB} \operatorname{EXT}|
                                       LogTimeH[sub][sup][ext] = LogTime-Hard_{Sup}^{SUP}EXT
                                       \lceil LogTimeC[sub][sup][ext] = LogTime-Complete_{Sub}^{SUP}EXT
```

```
\verb|\NLogTimeE[sub][sup][ext]| = NLogTime-Easy_{SUB}^{SUP}EXT
                                                                                                                        \NLogTimeH[sub][sup][ext] = NLogTime-HARD_{SUB}^{SUP}EXT
                                                                                                                       \label{eq:nlogTimeC} $$\NLogTimeC[sub][sup][ext] = NLogTime-COMPLETE^{SUP}_{SUB}EXT$
                                                                                                             \ULogTimeE[sub][sup][ext] = ULogTime-EASY_{SUB}^{SUP}EXT
                                                                                                                       \verb|VLogTimeH[sub][sup][ext]| = ULogTime-Hard_{SUB}^{SUP}EXT|
                                                                                                                       \label{eq:ULogTimeCsub} $$ \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
                                                                                                                       \verb|\ALogTimeH[sub][sup][ext]| = ALogTime-Hard_{SUB}^{SUP}EXT
                                                                                                                      \texttt{\ALogTimeC[sub][sup][ext]} = \text{ALogTime-complete}_{\text{Sup}}^{\text{SUP}} \text{EXT}
                                                                                              862 \defcomcls{LogTime}
\LogSpace, ...
                                                                                                              \bullet \ \texttt{LogSpace[sub][sup][ext]} = \texttt{LogSpace}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{EXT} 
                                                                                                                       \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
                                                                                                                       \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|
                                                                                                                        \verb| ULogSpaceH[sub][sup][ext] = ULogSpace-hard_{SUB}^{SUP}EXT
                                                                                                                       \verb|VLogSpaceC[sub][sup][ext]| = ULogSpace-complete_{cur}^{SUP}EXT
                                                                                                             • ALogSpace[sub][sup][ext] = ALogSpace_{SUB}^{SUP}EXT
                                                                                                                       \verb|\ALogSpaceE[sub][sup][ext]| = ALogSpace-easy_{SUB}^{SUP}EXT|
                                                                                                                       \verb|\ALogSpaceH[sub][sup][ext]| = ALogSpace-hard_{SUB}^{SUP}EXT
                                                                                                                       ALogSpaceC[sub][sup][ext] = ALogSpace-CompleteSup_{SUB}EXT
                                                                                              863 \defcomcls{LogSpace}
                 \PTime, ...
                                                                                                             • \PTime[sub][sup][ext] = PTIME_SUBEXT
                                                                                                                       \label{eq:ptimeE} $$ \Pr[\text{Sub}][\text{sup}][\text{ext}] = \Pr[\text{ME-EASY}^{\text{SUP}}_{\text{SUB}}] = \Pr[\text{ME-EASY}^{\text{SUP}}_{\text{SUP}}] = \Pr[\text{ME-EASY}^{\text{SUP}}_{
                                                                                                                       \P \PTimeH[sub][sup][ext] = \PTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                       \label{eq:ptimeC} $$\operatorname{Complete}_{SUB}^{SUB} = \operatorname{PTIME-COMPLETE}_{SUB}^{SUB} = \operatorname{PTIME-COMPLE
                                                                                                             • NPTime[sub][sup][ext] = NPTIME_{SUB}^{SUP}EXT
                                                                                                                       \verb|\NPTimeE[sub][sup][ext]| = NPTIME-EASY_{SUB}^{SUP}EXT
                                                                                                                       \verb|\NPTimeH[sub][sup][ext]| = NPTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                      \verb|\NPTimeC[sub][sup][ext]| = NPTIME-COMPLETE_{SUR}^{SUP}EXT
                                                                                                             \label{eq:uptimeEsub} $$ \operatorname{UPTIME-EASY}^{SUP}_{SUB} = \operatorname{UPTIME-EASY}^{SU
                                                                                                                       \UPTimeH[sub][sup][ext] = UPTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                       \label{eq:uptimeC} $$ \operatorname{UPTIME-COMPLETE}^{SUP}_{SUB} = \operatorname{UPTIME-COMPLETE}^{SUB}_{SUB} = \operatorname{UPTIME-
                                                                                                             • APTime[sub][sup][ext] = APTIME_{SUB}^{SUP}EXT
                                                                                                                       \verb| APTimeE[sub][sup][ext] = APTIME-EASY_{SUB}^{SUP}EXT
                                                                                                                      \APTimeH[sub][sup][ext] = APTIME-HARD_{SUB}^{SUP}EXT
                                                                                                                       \APTimeC[sub][sup][ext] = APTIME-COMPLETE_{SUB}^{SUP}EXT
                                                                                              864 \defcomcls{PTime}
                                                                                                             • \PSpace[sub][sup][ext] = PSPACE_{SUB}^{SUP}EXT
          \PSpace, ...
                                                                                                                       \verb|\PSpaceE[sub][sup][ext]| = PSPACE-EASY_{SUB}^{SUP}EXT
                                                                                                                       \verb|\PSpaceH[sub][sup][ext]| = PSPACE-HARD_{SUB}^{SUP}EXT|
                                                                                                                       \label{eq:pspaceC} $$ \PSpaceC[sub][sup][ext] = PSpace-Complete_{SUB}^{SUP}EXT $
                                                                                                             • \NPSpace[sub][sup][ext] = NPSPACE_{SUB}^{SUP}EXT
                                                                                                                        \verb|\NPSpaceE[sub][sup][ext]| = NPSPACE-EASY_{SUB}^{SUP}EXT
                                                                                                                        \verb|\NPSpaceH[sub][sup][ext]| = NPSPACE-HARD_{SUB}^{SUP}EXT
                                                                                                                       \NPSpaceC[sub][sup][ext] = NPSPACE-COMPLETE_{SUB}^{SUP}EXT
```

• $NLogTime[sub][sup][ext] = NLogTime_{SUB}^{SUP}EXT$

```
\verb| UPSpaceH[sub][sup][ext] = UPSPACE-HARD_{SUB}^{SUP}EXT|
                                          \verb| UPSpaceC[sub][sup][ext] = UPSpace-complete_{sup}^{SUP}ext
                                      • APSpace[sub][sup][ext] = APSPACE_{SUB}^{SUP}EXT
                                          \verb|\APSpaceE[sub][sup][ext]| = APSPACE-EASY_{SUB}^{SUP}EXT
                                          \verb|\APSpaceH[sub][sup][ext]| = APSPACE-HARD_{SUB}^{SUP}EXT
                                          \verb|\APSpaceC[sub][sup][ext]| = APSPACE-COMPLETE_{SUB}^{SUP}EXT
                                 865 \defcomcls{PSpace}
  \QPTime, ...
                                      • \QPTime[sub][sup][ext] = QPTIME_{SUB}^{SUP}EXT
                                          \verb|\QPTimeE[sub][sup][ext]| = \mathrm{QPTIME\text{-}EASY}^{SUP}_{SUR}\mathrm{EXT}|
                                          \QPTimeH[sub][sup][ext] = QPTIME-HARD_{SUB}^{SUP}EXT
                                          \verb|\QPTimeC[sub][sup][ext]| = QPTIME-COMPLETE_{SUR}^{SUP}EXT
                                      • \NQPTime[sub][sup][ext] = NQPTIME_{SUB}^{SUP}EXT
                                          \verb|\NQPTimeE[sub][sup][ext]| = NQPTIME-EASY_{SUB}^{SUP}EXT
                                          \verb|\NQPTimeH[sub][sup][ext]| = NQPTIME-HARD_{SUB}^{SUP}EXT
                                          \NQPTimeC[sub][sup][ext] = NQPTIME-COMPLETE_{SUB}^{SUP}EXT
                                      • \UQPTime[sub][sup][ext] = UQPTIME_{SUB}^{SUP}EXT
                                          \verb|VQPTimeE[sub][sup][ext]| = UQPTIME-EASY_{SUR}^{SUP}EXT|
                                          \verb|VQPTimeH[sub][sup][ext]| = UQPTIME-HARD_{SUB}^{SUP}EXT
                                          \UQPTimeC[sub][sup][ext] = UQPTIME-COMPLETE_{SUB}^{SUP}EXT
                                      ullet \AQPTime[sub][sup][ext] = AQPTIME_{SUB}^{SUP}EXT
                                          \texttt{AQPTimeE[sub][sup][ext]} = \mathrm{AQPTIME\text{-}EASY}^{\mathrm{SUP}}_{\mathrm{SUB}}\mathrm{EXT}
                                          \verb| AQPTimeH[sub][sup][ext] = AQPTIME-HARD_{SUB}^{SUP}EXT
                                          \texttt{AQPTimeC[sub][sup][ext]} = AQPTIME-COMPLETE_{SUB}^{SUP}EXT
                                 866 \defcomcls{QPTime}
                                      • \QPSpace[sub][sup][ext] = QPSpace_{SUB}^{SUP}EXT
\QPSpace, ...
                                          \verb|\QPSpaceE[sub][sup][ext]| = QPSpace-easy_{sub}^{SUP}ext|
                                          \verb|\QPSpaceH[sub][sup][ext]| = QPSpace-Hard_{SUB}^{SUP}EXT|
                                          \label{eq:QPSpaceCsub} $$ \QPSPACE-COMPLETE_{SUB}^{SUP} = QPSPACE-COMPLETE_{SUB}^{SUP} = QPSPACE-COMPLETE_{SUB}^{SUB}^{SUP} = QPSPACE-COMPLETE_{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB}^{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB}^{SUB} = QPSPACE-COMPLETE_{SUB
                                      • \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}^{SUD}EXT|
                                      • \UQPSpace[sub][sup][ext] = UQPSPACE_SUP_EXT
                                          \verb|VQPSpaceE[sub][sup][ext]| = UQPSPACE-EASY_{SUB}^{SUP}EXT|
                                          \verb|VQPSpaceH[sub][sup][ext]| = UQPSPACE-HARD_{SUB}^{SUP}EXT
                                          \verb|VQPSpaceC[sub][sup][ext]| = UQPSPACE-COMPLETE_{SUB}^{SUP}EXT
                                      • AQPSpace[sub][sup][ext] = AQPSPACE_{SUB}^{SUP}EXT
                                          \verb| AQPSpaceE[sub][sup][ext] = AQPSpace-easy_{sub}^{SUP}ext|
                                          AQPSpaceH[sub][sup][ext] = AQPSPACE-HARD_{SUB}^{SUP}EXT
                                          \verb|\AQPSpaceC[sub][sup][ext]| = \mathrm{AQPSPACE\text{-}COMPLETE}^{SUP}_{SUB}\mathrm{EXT}
                                 867 \defcomcls{QPSpace}
                                      • \ExpTime[sub][sup][ext] = EXPTIME_{SUB}^{SUP}EXT
\ExpTime, ...
                                          \verb|\ExpTimeE[sub][sup][ext]| = EXPTIME-EASY_{SUB}^{SUP}EXT
                                          \verb|\ExpTimeH[sub][sup][ext]| = \text{EXPTIME-HARD}^{\text{SUP}}_{\text{SUB}} \text{EXT}
                                          \texttt{ExpTimeC[sub][sup][ext]} = \texttt{ExpTime-complete}^{\texttt{SUP}}_{\texttt{SUB}}
                                      • \NExpTime[sub][sup][ext] = NEXPTIME_{SUB}^{SUP}EXT
                                          \verb|\NExpTimeE[sub][sup][ext]| = NEXPTIME-EASY_{SUB}^{SUP}EXT
                                          \verb|\NExpTimeH[sub][sup][ext]| = NEXPTIME-HARD_{SUB}^{SUP}EXT
                                          \texttt{NExpTimeC[sub][sup][ext]} = \text{NExpTime-complete}_{\text{SUB}}^{\text{SUP}} \text{EXT}
                                      \UExpTimeE[sub][sup][ext] = UEXPTIME-EASY_{SUB}^{SUP}EXT
                                          \verb|\UExpTimeH[sub][sup][ext]| = UEXPTIME-HARD^{SUP}_{SUB}EXT
                                          \UExpTimeC[sub][sup][ext] = UEXPTIME-COMPLETE_{SUB}^{SUP}EXT
```

• \UPSpace[sub][sup][ext] = UPSpace_Sup_EXT

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

```
• \AExpTime[sub][sup][ext] = AExpTIME_SUB_EXT
                    \verb|\AExpTimeE[sub][sup][ext]| = AEXPTIME-EASY_{SUB}^{SUP}EXT
                    \texttt{AExpTimeH[sub][sup][ext]} = \text{AExpTime-HARD}^{\text{SUP}}_{\text{SUB}} \text{EXT}
                    \verb|\AExpTimeC[sub][sup][ext]| = AEXPTIME-COMPLETE_{SUB}^{SUP}EXT
                868 \defcomcls{ExpTime}
                   \bullet \ \texttt{\xpSpace[sub][sup][ext]} = \texttt{ExpSpace}^{\texttt{SUP}}_{\texttt{SUB}} \texttt{Ext} \\
 \ExpSpace, ...
                    \verb|\ExpSpaceE[sub][sup][ext]| = ExpSpace-easy_{sub}^{SUP}Ext
                    \verb|\ExpSpaceH[sub][sup][ext]| = ExpSpace-Hard_{Sub}^{SUP}EXT
                    \verb|\ExpSpaceC[sub][sup][ext]| = EXPSPACE-COMPLETE_{SUB}^{SUP}EXT
                  • \NExpSpace[sub][sup][ext] = NEXPSPACE_{SUB}^{SUP}EXT
                    \NExpSpaceE[sub][sup][ext] = NEXPSPACE-EASY_{SUR}^{SUP}EXT
                    \NExpSpaceH[sub][sup][ext] = NExpSpace-Hard_{Sup}^{SUP}EXT
                    \NExpSpaceC[sub][sup][ext] = NExpSpace-COMPLETE_{SUB}^{SUP}EXT
                  \verb|\UExpSpaceE[sub][sup][ext]| = UEXPSPACE-EASY_{SUB}^{SUP}EXT
                    \verb|\UExpSpaceH[sub][sup][ext]| = UEXPSPACE-HARD_{SUB}^{SUP}EXT
                    \UExpSpaceC[sub][sup][ext] = UEXpSpace-COMPLETE_{SUB}^{SUP}EXT
                  • \Delta ExpSpace[sub][sup][ext] = AExpSpace_{SUB}^{SUP}EXT
                    \verb|\AExpSpaceE[sub][sup][ext]| = AEXPSPACE-EASY_{SUB}^{SUP}EXT
                    \verb|\AExpSpaceH[sub][sup][ext]| = AEXPSPACE-HARD_{SUB}^{SUP}EXT
                    \texttt{AExpSpaceC[sub][sup][ext]} = \text{AExpSpace-complete}_{	ext{Sup}}^{	ext{Sup}} 	ext{Ext}
                869 \defcomcls{ExpSpace}
                871 \fi
                876 \ifgam@
                \SATG, ... ...
                878 %% Satisfiability Games
                879 \cmdtxtoparname{SATG}[Sat]
                881 %% Validity Games
                882 \cmdtxtoparname{VALG}[Val]
                883
                884 %% Evaluation Games
                885 \cmdtxtoparname{EVLG}[Ev1]
                886
                887 %% Synthesis Games
                888 \cmdtxtoparname{SYNG}[Syn]
                890 %% Model-Checking Games
                891 \cmdtxtoparname{MCG} [MC]
                892
                893 % Ehrenfeucht-Fraisse Games
                894 \cmdtxtoparname{EFG}[EF]
                \PlrSym, \OppSym
                896 \newcommand{\plrsym}{E}
                897 \cmdmthsym{Plr}[\plrsym]
                898 \newcommand{\oppsym}{A}
                899 \cmdmthsym{Opp}[\oppsym]
```

```
\ArenaName, ... ...
                   900 \newcommand{\arenaname}{A}
                   901 \usrmthlatupp{Arena}{Name}{name} [\arenaname]
     \PosSet, ... ...
                   902 \newcommand{\possym}{v}
                    903 \newcommand{\posset}{Ps}
                    904 \cmdmthsetext{Pos}[\posset][\possym]
                    905 \mbox{ } \mbox{cmdmthsymelm{ipos} [\possym_{I}]}
                    906 \mbox{ \cmdmthsymelm{fpos} [\possym_{F}]}
                    907 \cmdmthset{PPos}[\posset_{\PlrSym}]
                    908 \cmdmthsymelm{ppos}[\possym_{\PlrSym}]
                    909 \cmdmthset{OPos}[\posset_{\OppSym}]
                   910 \cmdmthsymelm{opos}[\possym_{\OppSym}]
          \MovRel
                   911 \newcommand{\movrel}{Mv}
                   912 \cmdmthrel{Mov}[\movrel]
   \GameName, ... ...
                   913 \newcommand{\gamename}{\Game}
                   914 \usrmthlatupp{Game}{Name}{name}[\gamename]
          \WinSet ...
                   915 \newcommand{\winset}{Wn}
                   916 \cmdmthset{Win}[\winset]
\ObsSet, \obsFun ...
                    917 \newcommand{\obsset}{Ob}
                    918 \cmdmthset{Obs}[\obsset]
                    919 \mbox{cmdmthfun{obs}}
                    \PthSet, \pthFun
                    921 \mbox{ \newcommand{\pthsym}{\pi}}
                    922 \neq \{Pth\}
                    923 \cmdmthsetext{Pth} [\pthset] [\pthsym]
                    924 \cmdmthfun{pth}
     \HstSet, ... ...
                    925 \newcommand{\hstsym}{\rho}
                    926 \newcommand{\hstset}{Hst}
                   927 \cmdmthsetext{Hst}[\hstset][\hstsym]
                    928 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                    929 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                    930 \texttt{\cmdmthset{OHst}[\hstset_{\cmdmthset}]}
                    931 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
                    932 \cmdmthfun{hst}
\PlaySet,\playFun
                    933 \newcommand{\playsym}{\pi}
                    934 \newcommand{\playset}{Play}
                    935 \cmdmthsetext{Play}[\playset][\playsym]
                   936 \cmdmthfun{play}
     \StrSet, ...
                   937 \newcommand{\strsym}{\sigma}
                    938 \newcommand{\strset}{Str}
                    939 \cmdmthsetext{Str}[\strset][\strsym]
                    940 \cmdmthset{PStr}[\strset_{\PlrSym}]
                    941 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                    942 \cmdmthset{OStr}[\strset_{\OppSym}]
                    943 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
```

```
\PrfSet, \prfFun
                944 \newcommand{\prfsym}{\xi}
                945 \newcommand{\prfset}{Prf}
                946 \cmdmthsetext{Prf} [\prfset] [\prfsym]
\preFun, \sucFun ...
                947 \newcommand{\prefun}{pre}
                948 \cmdmthoargfun{pre}[\prefun]
                949 \newcommand{\sucfun}{suc}
                950 \cmdmthoargfun{suc}[\sucfun]
\entFun, \escFun ...
                951 \newcommand{\entfun}{ent}
                952 \cmdmthoargfun{ent} [\entfun]
                953 \newcommand{\escfun}{esc}
                954 \cmdmthoargfun{esc}[\escfun]
\intFun, \outFun ...
                955 \newcommand{\intfun}{int}
                956 \cmdmthoargfun{int}[\intfun]
                957 \newcommand{\outfun}{out}
                958 \cmdmthoargfun{out}[\outfun]
\atrFun, \rchFun ...
                959 \newcommand{\atrfun}{atr}
                960 \mbox{ } \mbox{cmdmthoargfun{atr} [\atrfun]}
                961 \newcommand{\rchfun}{rch}
                962 \cmdmthoargfun{rch}[\rchfun]
       \solFun ...
                963 \newcommand{\solfun}{sol}
                964 \cmdmthoargfun{sol}[\solfun]
                \BG, ... ...
                966 %% Buchi Games
                967 \cmdtxtoparname{BG}
                969 %% Co-Buchi Games
                970 \cmdtxtoparname{CG}
                971
                972 %% Parity Games
                973 \cmdtxtoparname{PG}
                975 %% Rabin Games
                976 \cmdtxtoparname{RG}
                978 %% Streett Games
                979 \cmdtxtoparname{SG}
                981 %% Muller Games
                982 \cmdtxtoparname{MG}
                \PrtSet, \prtFun
                984 \newcommand{\prtsym}{p}
                985 \mbox{ } \mbox{prtset}{Pr}
                986 \cmdmthsetext{Prt}[\prtset][\prtsym]
                987 \cmdmthfun{prt}[pr]
```

```
\EG, ... ...
           990 %% Energy Games
           991 \cmdtxtoparname{EG}
           993 %% Mean-Payoff Games
           994 \cmdtxtoparname{MPG}
           995
           996 %% Discounted-Payoff Games
           997 \cmdtxtoparname{DPG}
           \WghSet, \wghFun
           999 \newcommand{\wghsym}{w}
          1000 \newcommand{\wghset}{Wg}
          1001 \cmdmthsetext{Wgh} [\wghset] [\wghsym]
          1002 \cmdmthfun{wgh} [wg]
          1004\fi
          1009 \iflog@
          \BF, \QBF, ...
          1011 % Boolean Formulae
          1012 \cmdtxtoparname{BF}
          1013
          1014 % Quantified Boolean Formulae
          1015 \DeclareRobustCommand{\QBF}
             {{\txtname{Q}}\BF}
          1017 \DeclareRobustCommand{\EBF}
          1018 {\ensuremath{\exists}\BF}
          1019 \DeclareRobustCommand{\UBF}
          1020 {\ensuremath{\forall}\BF}
          \LogSig, ... ...
          1022 \verb|\newcommand{\lceil logsig}{L}|
          1023 \verb|\usrmth|| a tupp{Log}{Sig}{sig}[\logsig]
    \Tt, \Ff ...
          1024 \mbox{ \newcommand{\ttsym}{\top}}
          1025 \usrmth{Tt}{}{sym}[\ttsym]
          1026 \verb|\newcommand{\ffsym}{\bot}|
          1027 \usrmth{Ff}{}{sym}[\ffsym]
   \APSet, ... ...
          1028 \newcommand{\apsym}{p}
          1029 \mbox{ } \mbox{AP} 
          1030 \cmdmthsetext{AP}[\apset][\apsym]
          1031 \cmdmthfun{ap}\usrmth{ap}{{argfun}}
```

```
\sub
                                   1032 \mbox{ \norm} {\rm \n
     \Cnt, \Qnt ...
                                   1033 \usrmth{Cnt}{}{sym}[C]
                                   1034 \usrmth{Qnt}{}{sym}[Q]
     \QAE, \QEA ...
                                   1035 \usrmth{QAE}{}{sym}[\forall\exists]
                                   1036 \usrmth{QEA}{}{sym}[\exists\forall]
\QntSet, ... ...
                                   1037 \newcommand{\qntsym}{\wp}
                                    1038 \mbox{ \newcommand{\qntset}{Qn}}
                                    1039 \cmdmthsetext{Qnt}[\qntset][\qntsym]
                  \free ...
                                    1040 \usrmth{free}{}{argfun}
     \dep, \alt ...
                                    1041 \mbox{ \norm} \{dep\}{\argfun}
                                    1042 \usrmth{alt}{}{argfun}
     \pnf, \nnf ...
                                   1043 \cmdtxtabr{pnf}
                                    1044 \cmdtxtabr{nnf}
                                   \LogStr, ...
                                   1046 \mbox{ \newcommand{\logstr}{L}}
                                   1047 \usrmthlatupp{Log}{Str}{str}[\logstr]
\ValSet, ... ...
                                   1048 \mbox{ \newcommand{\valsym}{\xi}}
                                    1049 \newcommand{\valset}{Val}
                                   1050 \cmdmthsetext{Val}[\valset][\valsym]
\AsgSet, ...
                                   1051 \newcommand{\asgsym}{\chi}
                                   1052 \mbox{newcommand{\asgset}{Asg}}
                                    1053 \cmdmthsetext{Asg}[\asgset][\asgsym]
                                   \FOL, ... ...
                                   1055 % First-Order Logic
                                   1056 \cmdtxtoparname{FOL}[Fol]
                                   1058\;\text{\%} Monadic First-Order Logic
                                    1059 \DeclareRobustCommand{\MFOL}
                                                {{\txtname{M}}\FOL}
                                   \VarSig, ... ...
                                   1062 \newcommand{\varsig}{V}
                                    1063 \usrmthlatupp{Var}{Sig}{sig}[\varsig]
                                    1064 \newcommand{\varsym}{x}
                                    1065 \newcommand{\varset}{Vr}
                                    1066 \cmdmthsetext{Var}[\varset][\varsym]
                                    1067 \usrmth{var}{}{argfun}[vr]
                                    1068 \cmdmthfun{dim}[dm]\usrmth{dim}{}{argfun}[dm]
```

```
\ConSig, ... ...
            1069 \mbox{ }\mbox{consig}{C}
            1070 \usrmthlatupp{Con}{Sig}{sig}[\consig]
            1071 \newcommand{\consym}{c}
            1072 \newcommand{\conset}{Cn}
            1073 \cmdmthsetext{Con}[\conset][\consym]
            1074 \usrmth{con}{}{argfun}[cn]
\FunSig, ... ...
            1075 \newcommand{\funsig}{F}
            1076 \usrmthlatupp{Fun}{Sig}{sig}[\funsig]
            1077 \mbox{ newcommand{\{\funsym\}\{f\}}}
            1078 \mbox{ }\mbox{newcommand{\hrunset}{Fn}}
            1079 \cmdmthsetext{Fun} [\funset] [\funsym]
            1080 \usrmth{fun}{}{argfun}[fn]
            1081 \cmdmthfun{art}[ar]\usrmth{art}{}{argfun}[ar]
\TerSig, ... ...
            1082 \newcommand{\tersig}{T}
            1083 \usrmthlatupp{Ter}{Sig}{sig}[\tersig]
            1084 \newcommand{\tersym}{t}
            1085 \newcommand{\terset}{Tr}
            1086 \cmdmthsetext{Ter}[\terset][\tersym]
            1087 \usrmth{ter}{}{argfun}
\RelSig, ... ...
            1088 \newcommand{\relsig}{R}
            1089 \usrmthlatupp{Rel}{Sig}{sig}[\relsig]
            1090 \newcommand{\relsym}{r}
            1091 \newcommand{\relset}{Rl}
            1092 \cmdmthsetext{Rel}[\relset][\relsym]
            1093 \usrmth{rel}{}{argfun}[rl]
       \skm ...
            1094 \usrmth{skm}{}{argfun}
            \ConStr, ... ...
            1096 \mbox{ } \mbox{command{\constr}{C}}
            1097 \usrmthlatupp{Con}{Str}{str}[\constr]
\FunStr, ... ...
            1098 \mbox{ \newcommand{\funstr}{F}}
            1099 \verb|\usrmth|| atupp{Fun}{Str}{str}[\funstr]
\TerStr, ...
            1100 \newcommand{\terstr}{T}
            1101 \usrmthlatupp{Ter}{Str}{str}[\terstr]
\RelStr, ... ...
            1102 \newcommand{\relstr}{R}
            1103 \usrmthlatupp{Rel}{Str}{str}[\relstr]
            \IF, ... ...
            1105 % Independence-Friendly Logic
            1106 \cmdtxtoparname{IF}
```

	···
	1108 %%** Semantics ************************************
	1109 %%** Second-Order Logics I ***********************************
\SOL,	
(501,	
	1110 % Second-Order Logic
	1111 \cmdtxtoparname{SOL}[Sol]
	1112
	1113 % Monadic Second-Order Logic
	1114 \DeclareRobustCommand{\MSOL}
	1115 {{\txtname{M}}\SOL}
	1116 %%** Syntax ************************************
	1110 7676 Dynoun
\FVarSet,	•••
	1117 \newcommand{\fvarsym}{x}
	1118 \newcommand{\fvarset}{FVr}
	1119 \cmdmthsetext{FVar}[\fvarset][\fvarsym]
	1113 (omamonbooks (1 var) [(1 varbou) [(1 varbym)
\SVarSet,	
	1120 \newcommand{\svarsym}{X}
	1120 \newcommand(\svarset){SVr} 1121 \newcommand(\svarset){SVr}
	1121 \text{\text{SVar}et}[\text{\text{Svarset}] [\svarsym]
	1122 (Chichenselext(Dval) [\SvalSet] [\SvalSym]
	1123 %%** Semantics ************************************
	···
	1124 %%** Second-Order Logics II **********************************
\ \	
\TL, \PL,	···
	1125 % Tree Logic
	1126 \cmdtxtoparname{TL}
	1127
	1128 % Monadic Tree Logic
	1129 \DeclareRobustCommand{\MTL}
	1130 {{\txtname{M}}\TL}
	1131
	1132 % Path Logic
	1133 \cmdtxtoparname{PL}
	1134
	1135 % Monadic Path Logic
	1136 \DeclareRobustCommand{\MPL}
	1137 {{\txtname{M}}\PL}
	0/0/
	1138 %%** Syntax ************************************
	···
	1139 %%** Semantics ************************************
	1109 /6/6** Demoiloios ***********************************
	···
	1140 %%** Modal Logics I ***********************************
\ML, \QML,	•••
	1141 % Modal Logic
	1142 \cmdtxtoparname{ML}
	1143
	1144 % Quantified Modal Logic
	1145 \DeclareRobustCommand{\QML}
	1146 {\txtname{Q}}\ML}
	1147 \DeclareRobustCommand{\EML}
	1148 {\ensuremath{\exists}\ML}
	1149 \DeclareRobustCommand{\UML}
	1150 {\anguage and that \forall \MI }

```
\Opr ...
             1152 \usrmth{Opr}{}{sym}[0]
  \DMod, \BMod ...
             1153 \usrmth{DMod}{}{sym}[\Diamond]
             1154 \operatorname{Mod}{sym}[Box]
    \Exs, \All ...
             1155 \DeclareRobustCommand{\Exs}[1]
                {\mth{\defval{\argmid{\langle}{#1}{\rangle}}}{\DMod}}}
             1157 \DeclareRobustCommand{\All}[1]
                {\mth{\defval{\argmid{\left[}{#1}{\right]}}{\BMod}}}
             \KrpStr, ... ...
             1160 \newcommand{\krpstr}{K}
             1161 \usrmthlatupp{Krp}{Str}{str}[\krpstr]
  \WrlSet, ... ...
             1162 \newcommand{\wrlsym}{w}
             1163 \newcommand{\wrlset}{W}
             1164 \cmdmthsetext{Wrl}[\wrlset][\wrlsym]
             1165 \verb|\cmdmthsymelm{iwrl}[\wrlsym_{I}]
\AccRel, \TrnRel ...
             1166 \newcommand{\accsym}{R}
             1167 \cmdmthrel{Acc}[\accsym]
             1168 \verb|\cmdmthrel{Trn}| [\verb|\accsym|]|
      \labFun ...
             1169 \newcommand{\labsym}{\lambda}
             1170 \cmdmthfun{lab}[\labsym]
\PthSet, \pthFun ...
             1171 \providecommand{\pthsym}{\pi}
             1172 \providecommand{\pthset}{Pth}
             1173 \cmdmthsetext{Pth} [\pthset] [\pthsym]
             1174 \cmdmthfun{pth}
             \MC, \QMC, ... ...
             1176 % Mu Calculus
             1177 \cmdtxtoparname{MC}[\ensuremath{\mu}-Calculus]
             1179 % Quantified Modal Logic
             1180 \DeclareRobustCommand{\QMC}
                {\{\text{txtname}\{Q\}\}\MC}
             1182 \DeclareRobustCommand{\EMC}
             1183 {\ensuremath{\exists}\MC}
             1184 \DeclareRobustCommand{\UMC}
             1185 {\ensuremath{\forall}\MC}
```

```
1189 % Propositional Temporal Logic
               1190 \cmdtxtoparname{PTL}
               1192 % Quantified Propositional Temporal Logic
               1193 \DeclareRobustCommand{\QPTL}
                    {\{\text{txtname}\{Q\}}\
               1195 \DeclareRobustCommand{\EPTL}
                    {\ensuremath{\exists}\PTL}
               1197 \DeclareRobustCommand{\UPTL}
                    {\ensuremath{\forall}\PTL}
               1200 % Linear Temporal Logic
               1201 \cmdtxtoparname{LTL}
               1202
               1203\ \% Quantified Linear Temporal Logic
               1204 \DeclareRobustCommand{\QLTL}
               1205 \{\{\text{txtname}\{Q\}\}\}\
               1206 \DeclareRobustCommand{\ELTL}
               1207 {\ensuremath{\exists}\LTL}
               1208 \DeclareRobustCommand{\ULTL}
                    {\ensuremath{\forall}\LTL}
               \X, ... ...
               1211 \usrmth{X}{}{sym}
               1212 \usrmth{F}{}{sym}
               1213 \usrmth{G}{}{sym}
               1214 \usrmth{U}{}{sym}
               1215 \usrmth{R}{}{sym}
       \Y, ... ...
               1216 \usrmth{Y}{}{sym}
               1217 \operatorname{let}_{\text{sym}}\left( \text{SavePilcrow} \right)
               1218 \mbox{usrmth{H}{{sym}}\left(SaveDoubleAcute\H}\right)}
               1219 \operatorname{S}{{\rm SaveSectionSymbol}}
               1220 \usrmth{B}{}{sym}
               \PDL, \CTL, ... ...
               1224 % Propositional Dynamic Logic
               1225 \cmdtxtoparname{PDL}
               1227 % Computation Tree Logic
               1228 \cmdtxtoparname{CTL}
               1230 % Quantified Computation Tree Logic
               1231 \DeclareRobustCommand{\QCTL}
               1232 \{\{\text{txtname}\{Q\}\}\CTL\}
               1233 \DeclareRobustCommand{\ECTL}
               1234 {\ensuremath{\exists}\CTL}
               1235 \DeclareRobustCommand{\UCTL}
                    {\ensuremath{\forall}\CTL}
               1236
               1238 % Improved Computation Tree Logic
               1239 \cmdtxtoparname{CTLP}[CTL$^{+}$]
               1240
```

\PTL, \LTL,

```
1241 % Quantified Improved Computation Tree Logic
          1242 \DeclareRobustCommand{\QCTLP}
          1243 \quad \{\{\text{txtname}\{Q\}\} \setminus CTLP\}
          1244 \DeclareRobustCommand{\ECTLP}
              {\ensuremath{\exists}\CTLP}
         1246 \DeclareRobustCommand{\UCTLP}
              {\ensuremath{\forall}\CTLP}
          1249 % Full Computation Tree Logic
         1250 \cmdtxtoparname{CTLS}[CTL*]
          1252 % Quantified Full Computation Tree Logic
          1253 \DeclareRobustCommand{\QCTLS}
               {{\txtname{Q}}\CTLS}
          1255 \DeclareRobustCommand{\ECTLS}
               {\ensuremath{\exists}\CTLS}
          1257 \DeclareRobustCommand{\UCTLS}
              {\ensuremath{\forall}\CTLS}
          \E, \A ...
          1260 \usrmth{E}{}{sym}
          1261 \usrmth{A}{}{sym}
          \ATL, ...
         1264 % Alternating Temporal Logic
         1265 \cmdtxtoparname{ATL}
         1267 % Quantified Alternating Temporal Logic
         1268 \DeclareRobustCommand{\QATL}
              {\{\text{txtname}\{Q\}\}\setminus ATL\}}
         1269
          1270 \DeclareRobustCommand{\EATL}
              {\ensuremath{\exists}\ATL}
          1272 \DeclareRobustCommand{\UATL}
          1273
               {\ensuremath{\forall}\ATL}
          1275 % Improved Alternating Temporal Logic
          1276 \cmdtxtoparname{ATLP}[ATL$^{+}$]
          1278 % Quantified Improved Alternating Temporal Logic
          1279 \DeclareRobustCommand{\QATLP}
         1280 \{\{\text{txtname}\{Q\}\}\}\ATLP}
          1281 \DeclareRobustCommand{\EATLP}
          1282 {\ensuremath{\exists}\ATLP}
          1283 \DeclareRobustCommand{\UATLP}
               {\ensuremath{\forall}\ATLP}
          1286 % Full Alternating Temporal Logic
          1287 \cmdtxtoparname{ATLS}[ATL*]
          1288
          1289 % Quantified Full Alternating Temporal Logic
          1290 \DeclareRobustCommand{\QATLS}
               {{\txtname{Q}}\ATLS}
          1292 \DeclareRobustCommand{\EATLS}
              {\ensuremath{\exists}\ATLS}
          1294 \DeclareRobustCommand{\UATLS}
              {\ensuremath{\forall}\ATLS}
```

```
\EExs, \AAll ...
                            1297 \DeclareRobustCommand{\EExs}[1]
                            1299 \DeclareRobustCommand{\AAll}[1]
                                       {\mth{\argmid{\left[\left[\}{\defval{#1}\{\emptyset}\}{\right]\right]\}}
                            \CGS ...
                            1302 \cmdtxtname{CGS}
\CGSStr, ... ...
                            1303 \mbox{ \cgsstr}{G}
                            1304 \usrmthlatupp{CGS}{Str}{str}[\cgsstr]
\AgnSet, ... ...
                            1305 \newcommand{\agnsym}{a}
                            1306 \newcommand{\agnset}{Ag}
                           1307 \cmdmthsetext{Agn}[\agnset][\agnsym]
\PosSet, ... ...
                           1308 \providecommand{\possym}{v}
                            1309 \providecommand{\posset}{Ps}
                            1310 \cmdmthsetext{Pos}[\posset][\possym]
                            1311 \cmdmthsymelm{ipos}[\possym_{I}]
                            1312 \cmdmthsymelm{fpos}[\possym_{F}]
                            1313 \cmdmthset{PPos}[\posset_{\PlrSym}]
                            1314 \verb|\cmdmthsymelm{ppos}[\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\possym_{\
                            1315 \cmdmthset{OPos}[\posset_{\OppSym}]
                            1316 \cmdmthsymelm{opos}[\possym_{\OppSym}]
\SttSet, ... ...
                            1317 \newcommand{\sttsym}{s}
                            1318 \mbox{ }\mbox{newcommand{\sttset}{St}}
                            1319 \cmdmthsetext{Stt}[\sttset][\sttsym]
                            1320 \cmdmthset{IStt}[\sttset_{I}]
                            1321 \cmdmthsymelm{istt}[\sttsym_{I}]
                            1322 \cmdmthset{FStt}[\sttset_{F}]
                            1323 \cmdmthsymelm{fstt}[\sttsym_{F}]
\ActSet, ... ...
                           1324 \mbox{ \newcommand{\actsym}{c}}
                           1325 \newcommand{\actset}{Ac}
                           1326 \cmdmthsetext{Act}[\actset][\actsym]
\DecSet, ... ...
                            1327 \newcommand{\decsym}{d}
                            1328 \newcommand{\decset}{Dc}
                            1329 \verb|\cmdmthsetext{Dec}| [\verb|\decset|]| [\verb|\decsym|]|
          \movFun ...
                            1330 \newcommand{\movsym}{\tau}
                            1331 \cmdmthfun{mov}[\movsym]
\HstSet, ...
                            1332 \providecommand{\hstsym}{\rho}
                            1333 \providecommand{\hstset}{Hst}
                            1334 \cmdmthsetext{Hst}[\hstset][\hstsym]
                            1335 \cmdmthset{PHst}[\hstset_{\PlrSym}]
                            1336 \cmdmthsymelm{phst}[\hstsym_{\PlrSym}]
                            1337 \cmdmthset{OHst}[\hstset_{\OppSym}]
                            1338 \cmdmthsymelm{ohst}[\hstsym_{\OppSym}]
```

1339 \cmdmthfun{hst}

```
\PlaySet,\playFun
                  1340 \providecommand{\playsym}{\pi}
                  1341 \providecommand{\playset}{Play}
                  1342 \cmdmthsetext{Play}[\playset][\playsym]
                  1343 \cmdmthfun{play}
    \StrSet, ...
                  1344 \providecommand{\strsym}{\sigma}
                  1345 \providecommand{\strset}{Str}
                  1346 \cmdmthsetext{Str}[\strset][\strsym]
                  1347 \cmdmthset{PStr}[\strset_{\PlrSym}]
                  1348 \cmdmthsymelm{pstr}[\strsym_{\PlrSym}]
                  1349 \cmdmthset{OStr}[\strset_{\OppSym}]
                  1350 \cmdmthsymelm{ostr}[\strsym_{\OppSym}]
\PrfSet, \prfFun
                  1351 \providecommand{\prfsym}{\xi}
                  1352 \providecommand{\prfset}{Prf}
                  1353 \cmdmthsetext{Prf}[\prfset][\prfsym]
                  \SL, ... ...
                  1355 % Strategy Logic
                  1356 \cmdtxtoparname{SL}
                  1358 \DeclareRobustCommand{\ESL}
                  1359
                       {\ensuremath{\exists}\SL}
                  1360 \DeclareRobustCommand{\USL}
                       {\ensuremath{\forall}\SL}
                  1361
                  1362
                  1363 \DeclareRobustCommand{\FSL}
                       {\{\text{txtname}\{F\}\}\SL\}}
                  1364
                  1365
                  1366 \DeclareRobustCommand{\EFSL}
                       {\ensuremath{\exists}\FSL}
                  1368 \DeclareRobustCommand{\UFSL}
                        {\ensuremath{\forall}\FSL}
                  1370
                  1371 % One-Goal Strategy Logic
                  1372 \DeclareRobustCommandx{\OGSL}[3][1=, 2=, 3=]
                        {\SL[#1][#2][1g\arglef{,}{#3}]}
                  1373
                  1374
                  1375 \DeclareRobustCommand{\EOGSL}
                        {\ensuremath{\exists}\OGSL}
                  1377 \DeclareRobustCommand{\UOGSL}
                        {\ensuremath{\forall}\OGSL}
                  1380 \DeclareRobustCommand{\FOGSL}
                  1381
                        {{\txtname{F}}\OGSL}
                  1382
                  1383 \DeclareRobustCommand{\EFOGSL}
                        {\ensuremath{\exists}\FOGSL}
                  1385 \DeclareRobustCommand{\UFOGSL}
                        {\ensuremath{\forall}\FOGSL}
                  1386
                  1388 % Conjunctive-Goal Strategy Logic
                  1389 \DeclareRobustCommandx{\CGSL}[3][1=, 2=, 3=]
                        {\SL[#1][#2][cg\arglef{,}{#3}]}
                  1391
                  1392 \DeclareRobustCommand{\ECGSL}
                  1393 {\ensuremath{\exists}\CGSL}
                  1394 \DeclareRobustCommand{\UCGSL}
```

```
1395
      {\ensuremath{\forall}\CGSL}
1396
1397 \verb|\DeclareRobustCommand{\FCGSL}|
1398
      {\{\text{xtname}\{F\}\}\times GSL\}}
1399
1400 \DeclareRobustCommand{\EFCGSL}
     {\ensuremath{\exists}\FCGSL}
1402 \DeclareRobustCommand{\UFCGSL}
      {\ensuremath{\forall}\FCGSL}
1403
1405 % Disjunctive-Goal Strategy Logic
1406 \DeclareRobustCommandx{\DGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][dg\arglef{,}{#3}]}
1408
1409 \DeclareRobustCommand{\EDGSL}
1410
      {\ensuremath{\exists}\DGSL}
1411 \DeclareRobustCommand{\UDGSL}
      {\ensuremath{\forall}\DGSL}
1412
1413
1414 \DeclareRobustCommand{\FDGSL}
      {\{\text{txtname}\{F\}\}\setminus xGSL\}}
1417 \DeclareRobustCommand{\EFDGSL}
1418
      {\ensuremath{\exists}\FDGSL}
1419 \DeclareRobustCommand{\UFDGSL}
      {\ensuremath{\forall}\FDGSL}
1420
1421
1422 % Alternating-Goal Strategy Logic
1423 \DeclareRobustCommandx{\AGSL}[3][1=, 2=, 3=]
      {\SL[#1][#2][ag\arglef{,}{#3}]}
1425
1426 \DeclareRobustCommand{\EAGSL}
      {\ensuremath{\exists}\AGSL}
1428 \DeclareRobustCommand{\UAGSL}
1429
      {\ensuremath{\forall}\AGSL}
1430
1431 \DeclareRobustCommand{\FAGSL}
      {\{ \text{xtname}\{F\} \} \times GSL \}}
1432
1433
1434 \DeclareRobustCommand{\EFAGSL}
      {\ensuremath{\exists}\FAGSL}
1436 \DeclareRobustCommand{\UFAGSL}
      {\ensuremath{\forall}\FAGSL}
1439\ \% Extended-Goal Strategy Logic
1440 \DeclareRobustCommandx{\EGSL}[3][1=, 2=, 3=]
1441
      {\SL[#1][#2][eg\arglef{,}{#3}]}
1442
1443 \DeclareRobustCommand{\EEGSL}
     {\ensuremath{\exists}\EGSL}
1445 \DeclareRobustCommand{\UEGSL}
1446
      {\ensuremath{\forall}\EGSL}
1448 \DeclareRobustCommand{\FEGSL}
1449
      {\{\text{txtname}\{F\}\}\setminus xGSL\}}
1450
1451 \DeclareRobustCommand{\EFEGSL}
      {\ensuremath{\exists}\FEGSL}
1453 \DeclareRobustCommand{\UFEGSL}
1454
      {\ensuremath{\forall}\FEGSL}
1455
1456 % Boolean-Goal Strategy Logic
1457 \DeclareRobustCommandx{\BGSL}[3][1=, 2=, 3=]
```

```
{\SL[#1][#2][bg\arglef{,}{#3}]}
             1459
             1460 \verb|\DeclareRobustCommand{\EBGSL}|
             1461
                   {\ensuremath{\exists}\BGSL}
             1462 \DeclareRobustCommand{\UBGSL}
                   {\ensuremath{\forall}\BGSL}
             1463
             1464
             1465 \DeclareRobustCommand{\FBGSL}
                   {\{\text{xtname}\{F\}\}\times GSL\}}
             1466
             1467
             1468 \DeclareRobustCommand{\EFBGSL}
                   {\ensuremath{\exists}\FBGSL}
             1470 \DeclareRobustCommand{\UFBGSL}
             1471
                   {\ensuremath{\forall}\FBGSL}
             1472
             1473\ \% Nested-Goal Strategy Logic
             1474 \DeclareRobustCommandx{\NGSL}[3][1=, 2=, 3=]
                   {\SL[#1][#2][ng\arglef{,}{#3}]}
             1475
             1476
             1477 \DeclareRobustCommand{\ENGSL}
                   {\ensuremath{\exists}\NGSL}
             1479 \DeclareRobustCommand{\UNGSL}
             1480
                   {\ensuremath{\forall}\NGSL}
             1481
             1482 \DeclareRobustCommand{\FNGSL}
                   {\{\text{xtname}\{F\}\}\times GSL\}}
             1483
             1484
             1485 \DeclareRobustCommand{\EFNGSL}
                   {\ensuremath{\exists}\FNGSL}
             1487 \DeclareRobustCommand{\UFNGSL}
             1488
                   {\ensuremath{\forall}\FNGSL}
             1490 % Undefined-Goal Strategy Logic
             1491 \DeclareRobustCommandx{\XGSL}[3][1=, 2=, 3=]
             1492
                   {\SL[#1][#2][xg\arglef{,}{#3}]}
             1493
             1494 \DeclareRobustCommand{\EXGSL}
                   {\ensuremath{\exists}\XGSL}
             1496 \DeclareRobustCommand{\UXGSL}
                   {\ensuremath{\forall}\XGSL}
             1497
             1498
             1499 \DeclareRobustCommand{\FXGSL}
             1500
                   {\{\text{xtname}\{F\}\}\times GSL\}}
             1502 \DeclareRobustCommand{\EFXGSL}
             1503
                  {\ensuremath{\exists}\FXGSL}
             1504 \DeclareRobustCommand{\UFXGSL}
                   {\ensuremath{\forall}\FXGSL}
             \BndSet, ...
             1507 \newcommand{\bndsym}{\flat}
             1508 \newcommand{\bndset}{Bn}
             1509 \cmdmthsetext{Bnd}[\bndset][\bndsym]
             1510 \usrmth{bnd}{}{argfun}
       \psn ...
             1511 \usrmth{psn}{}{argfun}
             \nxtFun
             1513 \newcommand{\nxtfun}{nxt}
             1514 \cmdmthfun{nxt} [\nxtfun]
```

1458

```
1515 \fi
                                                                       1520 \ifaut@
                                                                       \DWA, ... ...
                                                                     1522 \cmdtxtoparname{DWA}\cmdtxtoparname{UWA}\cmdtxtoparname{AWA}
                                                                       1524 \verb|\cmdtxtoparname{DFW}\cmdtxtoparname{UFW}\cmdtxtoparname{AFW}|
                                                                       1525 \verb|\cmdtxtoparname{NBW}| cmdtxtoparname{MBW}| cmdtxtoparname{MBW}|
                                                                       1526 \verb|\cmdtxtoparname{DCW}| cmdtxtoparname{UCW}| cmdtxtoparname{ACW}| cmdtxtoparname{ACW}|
                                                                       1527 \verb|\cmdtxtoparname{DPW}\cmdtxtoparname{MPW}\cmdtxtoparname{MPW}\cmdtxtoparname{APW}|
                                                                       1528 \verb|\cmdtxtoparname{NRW}| cmdtxtoparname{URW} cmdtxtoparname{ARW}| 
                                                                       1530 \verb|\cmdtxtoparname{DMW}\cmdtxtoparname{MW}| cmdtxtoparname{AMW}| c
\GFG, \PD, ... ...
                                                                      1531 \cmdtxtoparname{GFG}
                                                                       1533 \cmdtxtoparname{PD}
                                                                       1534
                                                                       1535 %% ...
                                                                       \AutName, ... ...
                                                                      1537 \newcommand{\autname}{A}
                                                                       1538 \usrmthlatupp{Aut}{Name}{name}[\autname]
                                                                       1539 \newcommand{\autset}{Aut}
                                                                      1540 \cmdmthset{Aut}[\autset]
                          \WAutSet ...
                                                                       1541 \newcommand{\wautset}{WAut}
                                                                      1542 \cmdmthset{WAut}[\wautset]
        \SttSet, ... ...
                                                                      1543 \def\sttsym{q}
                                                                      1544 \def\sttset{Q}
                                                                       1545 \cmdmthsetext{Stt}[\sttset][\sttsym]
                                                                       1546 \cmdmthset{IStt}[\sttset_{I}]
                                                                       1547 \cmdmthsymelm{istt}[\sttsym_{I}]
                                                                       1548 \cmdmthset{FStt}[\sttset_{F}]
                                                                       1549 \cmdmthsymelm{fstt}[\sttsym_{F}]
        \SymSet, ... ...
                                                                       1550 \newcommand{\symsym}{\sigma}
                                                                       1551 \newcommand{\symset}{\Sigma}
                                                                       1552 \cmdmthsetext{Sym}[\symset][\symsym]
                              \trnFun ...
                                                                       1553 \verb|\newcommand{\trnsym}{\delta}|
                                                                       1554 \cmdmthfun{trn}[\trnsym]
                                                                       \LangFun
                                                                       1556 \mbox{ \newcommand{\langfun}{L}}
                                                                       1557 \cmdmthfun{Lang}[\langfun]
```

```
\WrdSet, ... ...
                    1558 \newcommand{\wrdsym}{w}
                    1559 \newcommand{\wrdset}{Wr}
                    1560 \cmdmthsetext{Wrd} [\wrdset] [\wrdsym]
                    \DTA, ... ...
                    1562 \verb|\cmdtxtoparname{DTA}\cmdtxtoparname{ATA}| \\
                    1564 \verb|\cmdtxtoparname{DFT}\cmdtxtoparname{AFT}| \\
                    1565 \verb|\cmdtxtoparname{DBT}\cmdtxtoparname{ABT}| \\
                    1566 \verb|\cmdtxtoparname{UCT}\cmdtxtoparname{UCT}\cmdtxtoparname{ACT}|
                    1567 \verb|\cmdtxtoparname{PPT}\cmdtxtoparname{PPT}\cmdtxtoparname{APT}|
                    1568 \verb|\cmdtxtoparname{QRT}| cmdtxtoparname{QRT} \\ | Cmdtxtoparname{QRT}| cmdtxtoparname{ART}| cmdtxtoparname{AR
                    1569 \verb|\cmdtxtoparname{DST}\cmdtxtoparname{NST}\cmdtxtoparname{AST}| \\
                    1570 \verb|\cmdtxtoparname{DMT}\cmdtxtoparname{MMT}\cmdtxtoparname{MMT}|
                    \TAutSet ...
                    1572 \mbox{ \newcommand{\tautset}{TAut}}
                    1573 \cmdmthset{TAut}[\tautset]
 \DirSet, ... ...
                    1574 \newcommand{\dirsym}{d}
                    1575 \newcommand{\dirset}{\Lambda}
                    1576 \cmdmthsetext{Dir}[\dirset][\dirsym]
                    \TreeSet, ... ...
                    1578 \newcommand{\treesym}{T}
                    1579 \mbox{ }\mbox{newcommand{\treeset}{Tr}
                    1580 \cmdmthsetext{Tree}[\treeset][\treesym]
        \wotFun ...
                    1581 \newcommand{\wotfun}{wot}
                    1582 \cmdmthfun{wot}[\wotfun]
                    1583 \fi
                    1588 \iffrm@
                    1589 %%...
                    1590 \fi
                    1595 \iffig@
                    1596 %%...
                    1597 \fi
```

```
1602 \iftab@
       1603 %%...
       1604 \fi
       1609 \ifalg@
       1610 \RequirePackage[ruled,vlined]{algorithm2e}
       1611 \setlength{\algomargin}{1.25em}
       1612 \DontPrintSemicolon
 \Signature
       1613 \SetKw{Signature}{signature}
 \Macro, ... ...
       1614 \SetKwFor{Macro}{macro}{}}
       1615 \SetKwFor{Function}{function}{}}
       1616 \SetKwFor{Procedure}{procedure}{}{}
    \Let ...
       1617 \SetKwFor{Let}{let}{in}{}
\True, \False ...
       1618 \SetKw{True}{true}
       1619 \SetKw{False}{false}
 \GoTo, ... ...
       1620 \SetKw{GoTo}{goto}
       1621 \SetKw{Break}{break}
       1622 \SetKw{Continue}{continue}
 \MIf, ... ...
       \nlr ...
       1624 \DeclareRobustCommand{\nlr}[1]
          {\addtocounter{AlgoLine}{1}%
       1626
          \nlset{\arabic{AlgoLine}-\addtocounter{AlgoLine}{#1}\arabic{AlgoLine}}}
       1627 \fi
       1632 \ifaux@
       1633
       1634 \left| fnttls@ \right|
         % Font Tools
       1635
          \RequirePackage[final]{microtype}
       1637 \fi
       1638
       1639 \ifenmtls@
         % Enumeration Tools
       1641
          \RequirePackage{paralist}
       1642 \fi
```

```
1643
1644 \ \text{ifamsthm@}
1645 % AMS Theorem Tools
                    \RequirePackage{amsthm}
1646
1647 \fi
1648
1649 \ifthmtls@
                 % Theorem Tools
1650
                    \RequirePackage{thmtools, thm-restate}
1652 \fi
1653
1654 \ightharpoonup 1654
                    % Hyper References
1656
                     \RequirePackage{hyperref}
1657 \fi
1658
1659 \ifcrv@
                    % Camera-Ready Version
1660
1661
1662
                    %%...
1663
1664 \else
                    % Draft Version
1665
1666
                    %%...
1667
1668
1669
                     \ifchgbar@
                            % Change Bars
1670
1671
                            \RequirePackage{changebar}
1672
                     \fi
1673
1674
                     \iflinnum@
                            % Line Numbers
1675
                             \if@twocolumn
1676
                                    \RequirePackage[switch, columnwise, mathlines]{lineno}\linenumbers
1677
1678
                                    \RequirePackage[columnwise, mathlines]{lineno}\linenumbers
1679
1680
                            \fi
1681
                     \fi
1682
1683
                     %%...
1684
1685 \fi
1686
1687 \fi
1689 \endinput
1690 \langle /package \rangle
```

2 Change History

v0.0	v0.2
General: First public release 1	General: Changes in auxiliary tricks 1
v0.1	v0.3
General: Algorithm tricks	General: Few problems solved 1

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${f G}$	$\mathbf L$	
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\gamename 913, 914	\lambda 1169	809, 1156, 1158, 1298, 1300
\GameName, <u>913</u>	\LangFun	\mtharg <u>284</u>
	\langfun 1556, 1557	\mthargfun 721,
\GFG, \\PD, \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\langle 705, 706, 1156, 1298	
\GoTo, _□	\lceil 809	723, 725, 727, 730, 835, 837
		\mthargset
H	\left 264, 272, 703, 704, 705,	746, 748, 750, 752, 754, 756
\H 1218	706, 807, 809, 1158, 1300	\mthcls, 415
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\IF, _□ 1105	\LogSig, _□ <u>1022</u>	
		\mthlrel 672, 674.
	\LogSpace, <u>863</u>	\mthlrel 672, 674,
\if@twocolumn 122, 1676		676, 678, 681, 683, 685, 687
\if@twocolumn 122, 1676 \ifalg@ 72, 1609	$\label{logSpace} $$ \LogSpace, $$ \sqcup. \ldots. \qquad $$ \underline{863}$ $$ \logstr \ldots. \qquad 1046, 1047 $$$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644	$\begin{tabular}{lllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\if@twocolumn	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	676, 678, 681, 683, 685, 687 \mthlrel, \ldots \frac{544}{1} \mthmat, \ldots \frac{576}{1} \mthname, \ldots \frac{389}{1}
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	676, 678, 681, 683, 685, 687 \mthlrel,
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	676, 678, 681, 683, 685, 687 \mthlrel,
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	676, 678, 681, 683, 685, 687 \mthlrel,
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	676, 678, 681, 683, 685, 687 \mthlrel, □
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	676, 678, 681, 683, 685, 687 \mthlrel, \(\) 544 \mthmat, \(\) 389 \mthoarg 286 \mthopar 290 \mthpar 288 \mthrel, \(\) 471 \mthset 759,
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122 \ifdef 127, 128, 129, 130	\LogSpace, \\ \logStr \\ \LogStr, \\ \LogTime, \\ \lowercase \\ \lowercase \\ \lowert \\ \lowert \\ \lowert \\ \M	676, 678, 681, 683, 685, 687 \mthlrel, \ldots \frac{544}{mthmat, \ldots \frac{576}{mthname, \ldots \frac{286}{mthopar}} \mthopar \frac{286}{mthrel, \ldots \frac{471}{mthset}} \mthset \frac{759}{761, 763, 767, 775, 783, 791}
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122	\LogSpace,	676, 678, 681, 683, 685, 687 \mthlrel, \(\) 544 \mthmat, \(\) 389 \mthoarg 286 \mthopar 290 \mthpar 288 \mthrel, \(\) 471 \mthset 759,
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122 \ifdef 127, 128, 129, 130	\LogSpace, \\ 863 \\logStr \ \\ 1046, 1047 \\LogStr, \ \\ 1046 \\LogTime, \ \\ 862 \\\lowercase \ \\ 469, 470 \\\lowert \ \ 711 \\\ M \\Macro, \ \ \\ 1614 \\math@false \ \ 24, 32, 34 \\math@true \ \ 33	676, 678, 681, 683, 685, 687 \mthlrel, \ldots \frac{544}{mthmat, \ldots \frac{576}{mthname, \ldots \frac{286}{mthopar}} \mthopar \frac{286}{mthrel, \ldots \frac{471}{mthset}} \mthset \frac{759}{761, 763, 767, 775, 783, 791}
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\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcdef 127, 128, 129, 130 \ifenmtls@ 86, 1639 \iff 651 \iffig@ 62, 1595	\LogSpace, \\ \logStr \ 1046, 1047 \\ \LogStr, \ 1046 \\ \LogTime, \ 862 \\ \lowercase \ 469, 470 \\ \lvert \ 713 \\ \lvert \ 711 \\ M \\ \Macro, \ 1614 \\ \math@false \ 24, 32, 34 \\ \math@true \ 33 \\ \mathbbo \ 127 \\ \mathcal \ 390 \\ \\	676, 678, 681, 683, 685, 687 \mthlrel, \ldots \frac{544}{mthmat, \ldots \frac{576}{mthname, \ldots \frac{286}{mthopar}} \mthrel, \ldots \frac{286}{mthopar} \mthrel, \ldots \frac{471}{mthset} \mthset \frac{759}{761, 763, 767, 775, 783, 791} \mthset, \ldots \frac{454}{mthsig, \ldots \frac{428}{mthsnt, \ldots \frac{549}{mthsnt, \ldots \frac{549}{mthsnt, \ldots \frac{544}{mthsig, \ldots \frac{549}{mthsnt, \ldots \frac{549}{mthsnt, \ldots \frac{544}{mthsig, \ldots \frac{549}{mthsnt, \ldots \frac{549}{mthsnt, \ldots \frac{549}{mthsig, \ldots \frac{549}{mthsig
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\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 127, 128, 129, 130 \ifenmtls@ 86, 1639 \iff 651 \iffig@ 62, 1595 \iffnttls@ 82, 1634 \iffrm@ 57, 1588 \ifgam@ 42, 876 \iffpypref@ 98, 1654 \iflinnum@ 112, 1674 \iflog@ 47, 1009 \ifmath@ 32, 664	Normal Normal	676, 678, 681, 683, 685, 687 \mthlrel, \ldots 576 \mthname, \ldots 389 \mthoarg 286 \mthopar 290 \mthpar 288 \mthrel, \ldots 759, 761, 763, 767, 775, 783, 791 \mthset 549 \mthsig, \ldots 428 \mthstr, \ldots 441 \mthsty \ldots 416 \mthstyelm 511 \mthstyfam 403 \mthstyfrm 563
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122 \ifdef 127, 128, 129, 130 \ifenmtls@ 86, 1639 \iff 651 \iffig@ 62, 1595 \iffnttls@ 57, 1588 \ifgam@ 42, 876 \iffnypref@ 98, 1654 \iflinnum@ 112, 1674 \iflog@ 47, 1009 \ifmath@ 32, 664 \ifmthgen@ 21, 388	Normal Normal	676, 678, 681, 683, 685, 687 \mthlrel, \ldots 576 \mthname, \ldots 286 \mthoarg 286 \mthopar 290 \mthpar 288 \mthrel, \ldots 759, 761, 763, 767, 775, 783, 791 \mthset 549 \mthsig, \ldots 428 \mthsig, \ldots 428 \mthstr, \ldots 441 \mthsty 283, 285, 287, 289, 291, 292 \mthstycls 416 \mthstyfam 403 \mthstyfum 563 \mthstyfum 485
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122 \ifdef 127, 128, 129, 130 \ifenmtls@ 86, 1639 \iff 651 \iffig@ 62, 1595 \iffnttls@ 82, 1634 \iffrm@ 57, 1588 \ifgam@ 42, 876 \ifflypref@ 98, 1654 \iflinnum@ 112, 1674 \iflog@ 47, 1009 \ifmath@ 32, 664 \ifmthgen@ 21, 388 \iftab@ 67, 1602	Normal Normal	676, 678, 681, 683, 685, 687 \mthlrel, \ldots 576 \mthname, \ldots 286 \mthoarg 286 \mthopar 290 \mthpar 288 \mthrel, \ldots 759, 761, 763, 767, 775, 783, 791 \mthset 549 \mthsig, \ldots 428 \mthsig, \ldots 428 \mthstr, \ldots 441 \mthsty 283, 285, 287, 289, 291, 292 \mthstycls 416 \mthstyfam 403 \mthstyfun 485 \mthstylopr 541
\if@twocolumn 122, 1676 \ifalg@ 72, 1609 \ifamsthm@ 90, 1644 \ifaut@ 52, 1520 \ifaux@ 77, 1632 \ifchgbar@ 108, 1669 \ifcom@ 37, 843 \ifcrv@ 104, 1659 \ifcsdef 122, 1529, 130 \ifenmtls@ 86, 1639 \iff 651 \iffig@ 62, 1595 \iffnttls@ 82, 1634 \iffrm@ 57, 1588 \ifgam@ 42, 876 \ifflypref@ 98, 1654 \iflinnum@ 112, 1674 \iflog@ 47, 1009 \ifmath@ 32, 664 \ifmthgen@ 21, 388	Normal Normal	676, 678, 681, 683, 685, 687 \mthlrel, \ldots 576 \mthname, \ldots 286 \mthoarg 286 \mthopar 290 \mthpar 288 \mthrel, \ldots 759, 761, 763, 767, 775, 783, 791 \mthset 549 \mthsig, \ldots 428 \mthsig, \ldots 428 \mthstr, \ldots 441 \mthsty 283, 285, 287, 289, 291, 292 \mthstycls 416 \mthstyfam 403 \mthstyfum 563 \mthstyfum 485
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943, 1344, 1346, 1348, 1350	1137, 1146, 1181, 1194,	593, 595, 597, 599, 601,
, - , - 3, - 3, - 3, - 3	, -, -,,,	,,, 550, 55-,

1025, 1027, 1031, 1032,	370, 374, 376, 378, 380, 382	\widetilde 696
1033, 1034, 1035, 1036,	\UXGSL 1496	\WinSet <u>915</u>
1040, 1041, 1042, 1067,		\winset 915, 916
1068, 1074, 1080, 1081,	\mathbf{V}	\Wlogx <u>658</u>
1087, 1093, 1094, 1152,	\valset 1049, 1050	\wlogx 655
1153, 1154, 1211, 1212,	\ValSet, <u>1048</u>	\wotFun 1581
1213, 1214, 1215, 1216,	\valsym 1048, 1050	\wotfun 1581, \overline{1582}
1217, 1218, 1219, 1220,	$\ \ \ \ \ \ \ \ \ \ \ \ \ $	\wp 1037
1260, 1261, 1510, 1511	701, 702, 703, 704, 705, 706	\wrdset 1559, 1560
\usrmthgrklet <u>321</u>	\varnothing 718, 737	\WrdSet,
\usrmthgrklow 317	\varset 1065, 1066	\wrdsym 1558, 1560
\usrmthgrkupp <u>319</u>	\varsig 1062, 1063	\wrlset 1163, 1164
\usrmthlatlet 315	\VarSig, <u>1062</u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
\usrmthlatlow 311	\varsym 1064, 1066	\wrlsym 1162, 1164, 1165
\usrmthlatupp 313,	\vec <u>697</u>	\wrt 654
901, 914, 1023, 1047,	\Viceversa <u>641</u>	\WIU
1063, 1070, 1076, 1083,	\viceversa <u>628</u>	x
1089, 1097, 1099, 1101,	\viz <u>630</u>	\X, ₁₁ 1211
1103, 1161, 1304, 1538	\vs <u>629</u>	
\usrmthlet 327, 469, 470	** 7	\XGSL 1491, 1495, 1497
	W	\xGSL 1398, 1415, 1432,
\usrmthlow <u>323</u>	\WAutSet <u>1541</u>	1449, 1466, 1483, 1500
\usrmthupp <u>325</u>	\wautset 1541, 1542	\xi 944, 1048, 1351
\usrtxt	\wghset 1000, 1001	\xspace 205
<u>253,</u> 337, 339, 341, 343,	\WghSet, \wghFun 999	***
345, 349, 351, 353, 355,	\wghsym 999, 1001	Y
357, 362, 364, 366, 368,	\widehat 694	\Y, _□ <u>1216</u>