omtext: Semantic Markup for Mathematical Text Fragments in LATEX*

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Abstract

The omtext package is part of the STEX collection, a version of TEX/LATEX that allows to markup TEX/LATEX documents semantically without leaving the document format, essentially turning TEX/LATEX into a document format for mathematical knowledge management (MKM).

This package supplies an infrastructure for writing OMDoc text fragments in \LaTeX

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1 Introduction

The omtext package supplies macros and environment that allow to mark up mathematical texts in STEX, a version of TEX/LATEX that allows to markup TEX/LATEX documents semantically without leaving the document format, essentially turning TEX/LATEX into a document format for mathematical knowledge management (MKM). The package supports direct translation to the OMDoc format [Koh06]

2 The User Interface

2.1 Package Options

showmeta

The omtext package takes a single option: showmeta. If this is set, then the metadata keys are shown (see [Koh16a] for details and customization options).

2.2 Mathematical Text

omtext

type=

title= title key. Often it is also helpful to annotate the type key. The standard relations

The omtext environment is used for any text fragment that has a contribution to a text that needs to be marked up. It can have a title, which can be specified via the

using the from key.

from rhetorical structure theory abstract, introduction, conclusion, thesis, comment, antithesis, elaboration, motivation, evidence, transition, note, annote are recommended as values. Note that some of them are unary relations like introduction, which calls for a target. In this case, a target using the for key should be specified. The transition relation is special in that it is binary (a "transition between two statements"), so additionally, a source should be specified

from=

display=

continues=

functions= theory=

verbalizes=

EdN:1

EdN:2

Note that the values of the type keys are often displayed as cues in the text. This can be turned off by setting the display key to the value flow. Sometimes we want to specify that a text is a continuation of another, this can be done by giving the identifier of this in the continues key.

Finally, there is a set of keys that pertain to the mathematical formulae in the text. The functions key allows to specify a list of identifiers that are to be interpreted as functions in the generate content markup. The theory specifies a module (see [KGA16a]) that is to be pre-loaded in this one¹ Finally, verbalizes specifies a (more) formal statement (see [Koh16b]) that this text verbalizes or paraphrases.²

2.3 Phrase-Level Markup

\phrase verbalizes=

type= style

class index The phrase macro allows to mark up phrases with semantic information. It takes an optional KeyVal argument with the keys verbalizes and type as above and style, class, index that are disregarded in the LATEX, but copied into the gen-

¹EdNote: this is not implemented yet.

²EdNote: MK:specify the form of the reference.

erated content markup.

\nlex

We use the $\nex{\langle phrase \rangle}$ for marking up phrases that serve as natural language examples and $\nex{\langle phrase \rangle}$ for counter-examples (utterances that are not acceptable for some reason). In natural language examples, we sometimes use "co-reference markers" to specify the resolution of anaphora and the like. We use the $\coreft{\langle phrase \rangle}{\langle mark \rangle}$ to mark up the "target" of a co-reference and analogously \corefs for coreference source – e.g. for an anaphoric reference. The usage is the following:

\coreft \corefs

is formatted to

If a farmer¹ owns a donkey², he₂ beats it₂.

\sinlinequote

The sinlinequote macro allows to mark up quotes inline and attribute them. The quote itself is given as the argument, possibly preceded by the a specification of the source in a an optional argument. For instance, we would quote Hamlet with

\sinlinequote[Hamlet, \cite{Shak:1603:Hamlet}]{To be or not to be}

\@sinlinequote

which would appear as "To be or not to be" Hamlet, (Shakespeare 1603) in the text. The style in which inline quotations appear in the text can be adapted by specializing the macros \@sinlinequote — for quotations without source and \@@sinlinequote — for quotations with source.

2.4 Declarations (under development)

\vdec \vids \vrest Declarations are special phrases that carry a lot of meaning in mathematics: they introduce and further specify the indentifiers available in formulae. They are marked up via the \vec macro. Inside a declaration we can use the \vec macro to mark up the variable names and \vec to mark up the restrictions. In the simplest case we have a single variable as in "... for all u", which we mark up as.

... for all $\vdec{\left\{u\right\}}$.

A more complex example has multiple identifiers embedded in a restriction, as in "Let $x, y, z \in \mathbb{R}$, such that x + 2y = z, then ...", which we mark up as

Let \vdec[x,y,z]{\vcond\$\minset{x,y,z}\Reals\$},
 such that \vrest{\$x+2y=z\$}}, then \ldots''

 $345 \ 6$



 $^{^3{}m EDNote}$: explain and make better examples

 $^{^4\}mathrm{EdNote}$: talk with Frederic about this see what other examples there are.

 $^{^5{\}rm EDNote}:$ how do we identify the variables in complex restriction patterns. maybe with LMXref, which we should reinstate for this.

 $^{^6\}mathrm{EdNote}$: document strucdec and impdec

2.5 Block-Level Markup

sblockauote

\begin@sblockquote \end@@sblockquote

The sblockquote environment is the big brother of the \sinlinequote macro. It also takes an optional argument to specify the source. Here the four internal macros \begin@sblockquote to \end@@sblockquote are used for styling and can be adapted by package integrators. Here a quote of Hamlet would marked up as

```
\begin{sblockquote}[Hamlet, \cite{Shak:1603:Hamlet}]\obeylines
To be, or not to be: that is the question:
  Whether 'tis nobler in the mind to suffer
\end{sblockquote}
```

and would render as

To be, or not to be: that is the question: Whether 'tis nobler in the mind to suffer

Hamlet, (Shakespeare 1603)

\lec

The \lec macro takes one argument and sets it as a comment at the end of the line, making sure that if the content is too long it is pushed into a new line. We use it internally for placing the of source of the sblockquote environment above. The actual appearance of the line end comment is determined by the \@@lec macro, which can be customized in the document class.

\@@lec

2.6 Index Markup

The omtext package provides some extensions for the well-known indexing macros of IATEX. The main reason for introducing these macros is that index markup in OMDoc wraps the indexed terms rather than just marking the spot for cross-referencing. Furthermore the index commands only indexes words unless thenoindex option is set in the \usepackage. The omtext package and class make the usual \index macro undefined⁷.

noindex

EdN:7

\indi

The \indi macro renders a word and marks it for the index. Sometimes, we want to index a slightly different form of the word, e.g. for non-standard plurals: while \indi{word}s works fine, we cannot use this for the word "datum", which has the plural "data". For this we have the macro \aindi, which takes another argument for the displayed text, allowing us to use \aindi{data}{datum}, which prints "data" but puts "datum" into the index.

\aindi

The second set of macros adds an infrastructure for multi-word compounds. Take for instance the compound "OMDoc document", which we usually want to add into the index under "OMDoc" and "document". \indii{OMDoc}{document} is a variant of \indi that will do just this. Again, we have a version that prints a variant: This is useful for situations like this the one in Figure 1:

\indii

Analogously, there are variants for tree/four-word compounds: \indii, \aindii, \indiv, and \indiv. For instance for "wonderful OMDoc document". \atwin{wonderful}{OMdoc}{document} will make the necessary index entries un-

\indiii \aindiii \indiv \aindiv \indiii

 $^{^7\}mathrm{Ed}\mathrm{No}\mathrm{TE}\mathrm{:}$ implement this and issue the respective error message

We call group \aindii{Abelian}{Abelian}{group}, iff \ldots
will result in the following
We call group Abelian, iff ...
and put "Abelian Group" into the index.

Example 1: Index markup

der "wonderful" and "document".

\Indi*

Finally, there are variants \Indi, \Indii, \Indiii, and \Indiv that print the capitalized version of the word complex, and \indis, \indiis, \indiis, and \indivs that add a plurals, and ultimately \Indis, \Indiis, \indiiis, and \Indivs that print the capitalized version of the plural.

\Indi* and \ind \Indivs All in

All index macros take an optional first keyword argument: If the loadmodules key is given, we import the module we are in, otherwise all the currently imported modules. We do not have to require the module files, since the index is a the end of the document. If the at key is given, then we use that for sorting in the index.

2.7 Miscellaneous

We supply some text-level shortcuts for mathematical formulations, for instance $\hat{=}$ for "this corresponds to" or \leadsto for "therefore". They are semantic in the sense that they are used as special words – not part of formulae, even though they look like mathematical symbols. The following table gives the full set.

macro	pres.	stands for
\hateq	>	this corresponds to
\hatequiv	≘	this statement corresponds to
\ergo	\sim	therefore
\ogre	← ~	because of

\hateq \hatequiv \ergo \ogre

3 Limitations

In this section we document known limitations. If you want to help alleviate them, please feel free to contact the package author. Some of them are currently discussed in the STEX GitHub repository [sTeX].

1. none reported yet

EdN:8

4 Implementation

4.1 Package Options

We declare some switches which will modify the behavior according to the package options. Generally, an option xxx will just set the appropriate switches to true (otherwise they stay false).⁸

```
1 \ \*package\\
2 \newif\if@omtext@mh@\@omtext@mh@false
3 \DeclareOption{mh}{\@omtext@mh@true}
4 \PassOptionsToPackage{\CurrentOption}{modules}\}
5 \newif\ifindex\indextrue
6 \DeclareOption{noindex}{\indexfalse}
7 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{modules}\}
8 \ProcessOptions
9 \ifindex\makeindex\fi
10 \if@omtext@mh@\RequirePackage{omtext-mh}\fi
11 \RequirePackage{xspace}
12 \RequirePackage{modules}
13 \RequirePackage{comment}
14 \RequirePackage{mdframed}
15 \RequirePackage{latexsym}
```

4.2 Mathematical Text

We define the actions that are undertaken, when the keys are encountered. The first set just records metadata; this is very simple via the \addmetakey infrastructure [Koh16a]. Note that we allow math in the title field, so we do not declare it to be Semiverbatim (indeed not at all, which allows it by default).

```
16 \srefaddidkey{omtext}
17 \addmetakey[] {omtext}{functions}
18 \addmetakey*{omtext}{display}
19 \addmetakey{omtext}{for}
20 \addmetakey{omtext}{from}
21 \addmetakey{omtext}{type}
22 \addmetakey*{omtext}{title}
23 \addmetakey*{omtext}{start}
24 \addmetakey{omtext}{theory}
25 \addmetakey{omtext}{continues}
26 \addmetakey{omtext}{verbalizes}
27 \addmetakey{omtext}{subject}
The next keys handle module loading (see [KGA16b]).
28 % \ednote{MK: need to implement these in LaTeXML, I wonder whether there is a general
29 % mechanism like numberit.}\ednote{MK: this needs to be rethought in the light of
30 % |\usemodule|. It is probably obsolete. Is this used? Is this documented?}
31 \define@key{omtext}{require}{\requiremodules{#1}{sms}}
```

 $^{^8\}mathrm{EdNote}$: need an implementation for LATEXML

```
32 \define@key{omtext}{module}{\message{module: #1}\importmodule{#1}\def\omtext@theory{#1}}
\st@flow We define this macro, so that we can test whether the display key has the value
          33 \def\st@flow{flow}
             We define a switch that allows us to see whether we are inside an omtext
          environment or a statement. It will be used to give better error messages for
          inline statements.
          34 \newif\if@in@omtext\@in@omtextfalse
  omtext The omtext environment can have a title, which is used in a similar way. We
          redefine the \lec macro so the trailing \par does not get into the way.
          35 \def\omtext@pre@skip{\smallskip}
          36 \def\omtext@post@skip{}
          37 \providecommand{\stDMemph}[1]{\textbf{#1}}
          38 \newenvironment{omtext}[1][]{\@in@omtexttrue%
          39 \bgroup\metasetkeys{omtext}{#1}\sref@label@id{this paragraph}%
          40 \left( \frac{\#1}{\c} \right)
          41 \omtext@pre@skip\par\noindent%
          42 \ifx\omtext@title\@empty%
          43 \ifx\omtext@start\@empty\else%
          44 \ifx\omtext@display\st@flow\omtext@start\else\stDMemph{\omtext@start}\fi\xspace%
          45 \fi% omtext@start empty
          46 \else\stDMemph{\omtext@title}:\xspace\ifx\omtext@start\@empty\else\omtext@start\xspace\ifi%
          47 \fi% omtext@title empty
          48 \ignorespaces}
          49 {\egroup\omtext@post@skip\@in@omtextfalse}
          4.3
                Phrase-level Markup
\phrase For the moment, we do disregard the most of the keys
          50 \srefaddidkey{phrase}
          51 \addmetakey{phrase}{style}
          52 \addmetakey{phrase}{class}
          53 \addmetakey{phrase}{index}
          54 \addmetakey{phrase}{verbalizes}
          55 \addmetakey{phrase}{type}
          56 \addmetakey{phrase}{only}
          57 \newcommand\phrase[2][]{\metasetkeys{phrase}{#1}%
          58 \ifx\prhase@only\empty\only<\phrase@only>{#2}\else #2\fi}
\coref*
          59 \providecommand\textsubscript[1] {\ensuremath{_{#1}}}
          60 \newcommand\corefs[2]{#1\textsubscript{#2}}
```

61 \newcommand\coreft[2]{#1#2}

```
\n*lex
                                                                       62 \mbox{ newcommand} nlex[1]{\mbox{ yreen{}sl{#1}}}
                                                                       63 \newcommand\nlcex[1]{*\green{\sl{#1}}}
                                    sinlinequote
                                                                       64 \def\@sinlinequote#1{''{\sl{#1}}''}
                                                                       65 \def\@@sinlinequote#1#2{\@sinlinequote{#2}~#1}
                                                                       66 \newcommand\sinlinequote[2][]
                                                                       67 {\def\@opt{#1}\ifx\@opt\@empty\@sinlinequote{#2}\else\@@sinlinequote\@opt{#2}\fi}
                                                                                       Declarations (under development)
                                                                       4.4
                                                                       The declaration macros are still under development (i.e. the macros) are still
                                                                       under development and may change at any time. Currently they are completely
                                                                       empty.
                                                                       68 \newcommand\vdec[2][]{#2}
                                                                       69 \newcommand\vrest[2][]{#2}
                                                                       70 \newcommand\vcond[2][]{#2}
EdN:9
                                            \strucdec
                                                                       71 \newcommand\strucdec[2][]{#2}
                                                                       10
EdN:10
                                                \impdec
                                                                       72 \newcommand\impdec[2][]{#2}
                                                                       4.5
                                                                                       Block-Level Markup
                                       sblockquote
                                                                       73 \def\begin@sblockquote{\begin{quote}\sl}
                                                                       74 \end@sblockquote{\end{quote}}
                                                                       75 \def\begin@@sblockquote#1{\begin@sblockquote}
                                                                       76 \end@sblockquote#1{\end@sblockquote} (def\end@sblockquote) (d
                                                                       77 \newenvironment{sblockquote}[1][]
                                                                                 {\def\@opt{#1}\ifx\@opt\@empty\begin@sblockquote\else\begin@sblockquote\@opt\fi}
                                                                                 {\ifx\@opt\@empty\end@sblockquote\else\end@@sblockquote\@opt\fi}
                                            sboxquote
                                                                       80 \newenvironment{sboxquote}[1][]
                                                                       81 {\def\@@src{#1}\begin{mdframed}[leftmargin=.5cm,rightmargin=.5cm]}
                                                                       82 {\@lec{\textrm\@@src}\end{mdframed}}
                                                                               The line end comment macro makes sure that it will not be forced on the next
                                                                       line unless necessary.
                                                                            ^9\mathrm{EdNote}: document above
                                                                           ^{10}\mathrm{EdNote}: document above
```

\lec The actual appearance of the line end comment is determined by the \@@lec macro, which can be customized in the document class. The basic one here is provided so that it is not missing.

- 83 \providecommand{\@@lec}[1]{(#1)}
- $84 \end{area} 1{\t \hfil\strut\null\nobreak\hfill\colec{#1}}$
- $85 \left(\frac{1}{\par}\right)$

\my*graphics

We set up a special treatment for including graphics to respect the intended OM-Doc document structure. The main work is done in the transformation stylesheet though.

- 86 \newcommand\mygraphics[2][]{\includegraphics[#1]{#2}}
- 87 \newcommand\mycgraphics[2][]{\begin{center}\mygraphics[#1] {#2}\end{center}}
- 88 \newcommand\mybgraphics[2][]{\fbox{\mygraphics[#1]{#2}}}
- 89 \newcommand\mycbgraphics[2][]{\begin{center}\fbox{\mygraphics[#1]{#2}}\end{center}}

4.6 Index Markup

\omdoc@index*

these are the main internal indexing commands – dividing them into four macros is awful, but I did not get list processing running. It makes sure that the modules necessary for interpreting the math in the index entries are loaded. If the loadmodules key is given, we import the module we are in otherwise all the currently imported modules. We do not have to require the module files, since the index is a the end of the document. If the at key is given, then we use that for sorting in the index.

- 90 \addmetakey{omdoc@index}{at}
- 91 \addmetakey[false]{omdoc@index}{loadmodules}[true]
- 92 \newcommand\omdoc@indexi[2][]{\ifindex%
- 93 \metasetkeys{omdoc@index}{#1}%
- 94 \@bsphack\begingroup\@sanitize%
- 95 \protected@write\@indexfile{}{\string\indexentry%
- 96 {\ifx\omdoc@index@at\@empty\else\omdoc@index@at @\fi%
- 97 \ifx\omdoc@index@loadmodules\@true%
- $98 \textbf{ \withusedmodules{\cifundefined{mod@id}\used@modules\mod@id}{\#2}\%}$
- 99 \else #2\fi% loadmodules
- 100 }{\thepage}}%
- 101 \endgroup\@esphack\fi}%ifindex
- 102 \newcommand\omdoc@indexii[3][]{\ifindex%
- 103 \metasetkeys{omdoc@index}{#1}%
- 104 \@bsphack\begingroup\@sanitize%
- 105 \protected@write\@indexfile{}{\string\indexentry%
- 106 {\ifx\omdoc@index@at\@empty\else\omdoc@index@at @\fi%
- 107 \ifx\omdoc@index@loadmodules\@true%
- 108 xtring withused additioned mod@id used@modules \$42 !% and \$40\$ and \$40\$
- $109 \texttt{\withusedmodules{\cifundefined{mod@id}\used@modules{mod@id}{\#3}\%} \\$
- 110 \else #2!#3\fi% loadmodules
- 111 }{\thepage}}%
- 112 \endgroup\@esphack\fi}%ifindex
- 113 \newcommand\omdoc@indexiii[4][]{\ifindex%

```
114 \metasetkeys{omdoc@index}{#1}%
115 \@bsphack\begingroup\@sanitize%
116 \protected@write\@indexfile{}{\string\indexentry%
117 {\ifx\omdoc@index@at\@empty\else\omdoc@index@at @\fi%
118 \ifx\omdoc@index@loadmodules\@true%
119 \string\withusedmodules\\@ifundefined\\mod@id\\used@modules\mod@id\\#2\!%
120 \string\withusedmodules{\@ifundefined{mod@id}\used@modules\mod@id}{#3}!%
121 \string\withusedmodules{\@ifundefined{mod@id}\used@modules\mod@id}{#4}%
122 \else #2!#3!#4\fi% loadmodules
123 }{\thepage}}%
124 \endgroup\@esphack\fi}%ifindex
125 \newcommand\omdoc@indexiv[5][]{\ifindex%
126 \metasetkeys{omdoc@index}{#1}%
127 \@bsphack\begingroup\@sanitize%
128 \protected@write\@indexfile{}{\string\indexentry%
129 {\ifx\omdoc@index@at\@empty\else\omdoc@index@at @\fi%
130 \verb|\ifx\omdoc@index@loadmodules\@true%| \\
131 \string\withusedmodules{\@ifundefined{mod@id}\used@modules\mod@id}{#2}!%
132 \string\withusedmodules{\@ifundefined{mod@id}\used@modules\mod@id}{#3}!%
133 \string\withusedmodules{\@ifundefined{mod@id}\used@modules\mod@id}{#4}%
134 \string\withusedmodules{\@ifundefined{mod@id}\used@modules\mod@id}{#5}%
135 \else #2!#3!#4!#5\fi% loadmodules
136 }{\thepage}}%
137 \endgroup\@esphack\fi}%ifindex
    Now, we make two interface macros that make use of this:
138 \mbox{newcommand\aindi[3][]{{#2}\omdoc@indexi[#1]{#3}}}
```

indi

```
139 \mbox{newcommand\indi[2][]{{#2}\omdoc@indexi[#1]{#2}}}
140 \newcommand\indis[2][]{{\#2}\omdoc@indexi[\#1]{\#2s}}
141 \newcommand\Indi[2][]{{\captitalize{#2}}\omdoc@indexi[#1]{#2}}
142 \mbox{ $$newcommand\Indis[2][]{{\capitalize{#2}}\omdoc@indexi[#1]{#2s}}}
143
144 \newcommand\@indii[3][]{\omdoc@indexii[#1]{#2}{#3}\omdoc@indexii[#1]{#2}{#2}}
145 \newcommand\aindii[4][]{#2\@indii[#1]{#3}{#4}}
146 \newcommand\indii[3][]{{#2 #3}\@indii[#1]{#2}{#3}}
147 \newcommand\indiis[3][]{{#2 #3s}\@indii[#1]{#2}{#3}}
148 \newcommand\Indii[3][]{{\captitalize{#2 #3}}\@indii[#1]{#2}{#3}}
149 \newcommand\Indiis[3][]{{\capitalize{#2 #3}}\@indii[#1]{#2}{#3}}
150
151 \newcommand\@indiii[4][]{\omdoc@indexiii[#1]{#2}{#3}{#4}\omdoc@indexii[#1]{#3}{#2 (#4)}}
152 \newcommand\aindiii[5][]{{#2}\@indiii[#1]{#3}{#4}{#5}}
153 \newcommand\indiii[4][]{{#2 #3 #4}\@indiii[#1]{#2}{#3}{#4}}
154 \newcommand\indiiis [4] [] {{#2 #3 #4s}\@indiii[#1] {#2}{#3}{#4}}
155 \newcommand\Indiii[4][]{\captitalize{#2 #3 #4}\@indiii[#1]{#2}{#3}{#4}}
156 \newcommand\Indiiis[4][]{\capitalize{#2 #3 #4s}\@indiii[#1]{#2}{#3}{#4}}
158 \newcommand\@indiv[5][]{\omdoc@indexiv[#1]{#2}{#3}{#4}{#5}}
159 \newcommand\aindiv[6][]{#2\@indiv[#1]{#3}{#4}{#5}{#6}}
```

```
160 \newcommand\indiv[5][]{{#2 #3 #4 #5}\@indiv[#1]{#2}{#3}{#4}{#5}}
161 \newcommand\indivs[5][]{{#2 #3 #4 #5s}\@indiv[#1]{#2}{#3}{#4}{#5}}
162 \newcommand\Indivs[5][]{\capitalize{#2 #3 #4 #5s}\@indiv[#1]{#2}{#3}{#4}{#5}}
163 \newcommand\Indivs[5][]{\capitalize{#2 #3 #4 #5s}\@indiv[#1]{#2}{#3}{#4}{#5}}
```

4.7 Miscellaneous

Some shortcuts that use math symbols but are not mathematical at all; in particular, they should not be translated by LATEXML.

- 164 \newcommand\hateq{\ensuremath{\widehat=}\xspace}
- 165 \newcommand\hatequiv{\ensuremath{\widehat\equiv}\xspace}
- 166 \@ifundefined{ergo}%
- 167 {\newcommand\ergo{\ensuremath{\leadsto}\xspace}}%
- 168 {\renewcommand\ergo{\ensuremath{\leadsto}\xspace}}%
- 169 \newcommand{\reflect@squig}[2]{\reflectbox{\$\m@th#1\rightsquigarrow\$}}%
- $170 \newcommand \ogre{\newcommand} \newcommand \newc$
- 171 \newcommand\notergo{\ensuremath{\not\leadsto}}

4.8 Deprecated Functionality

In this section we centralize old interfaces that are only partially supported any more.

$\$

- 173 \newcommand\indextoo[2][]{\indi[#1]{#2}%
- 175 \newcommand\indexalt[2][]{\aindi[#1]{#2}%
- 176 \PackageWarning{omtext}{\protect\indextoo\space is deprecated, use \protect\aindi\space instead

174 \PackageWarning{omtext}{\protect\indextoo\space is deprecated, use \protect\indi\space instead}

- 177 \newcommand\twintoo[3][]{\indii[#1]{#2}{#3}%
- 178 \PackageWarning{omtext}{\protect\twintoo\space is deprecated, use \protect\indii\space instead}
- 179 \newcommand\twinalt[3][]{\aindii[#1]{#2}{#3}%
- 180 \PackageWarning{omtext}{\protect\twinalt\space is deprecated, use \protect\aindii\space instead
- 181 \newcommand\atwintoo[4][]{\indiii[#1]{#2}{#3}{#4}%
- 182 \PackageWarning{omtext}{\protect\atwintoo\space is deprecated, use \protect\indiii\space instea
- 183 \newcommand\atwinalt[4][]{\aindii[#1]{#2}{#3}{#4}%
- 184 \PackageWarning{omtext}{\protect\atwinalt\space is deprecated, use \protect\aindiii\space inste 185 \langle /package \rangle

Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Abelian group group, 6 Abelian, 6

Change History

augme with v0.6 General: frien used renma inde atwi pack v0.7	added index markup 1 enting the index macros optional values 1 removing ttin emin and ds, they were almost never	sblockquote and inlinequote similarly			
Referei	nces				
[KGA16a]	Semantic Macros and Modu	linev, and Rares Ambrus. modules.sty: the Scoping in sTeX. Tech. rep. 2016. URL: arc/sTeX/raw/master/sty/modules/			
[KGA16b]	-				
[KGA16c]	Michael Kohlhase, Deyan Ginev, and Rares Ambrus. <i>modules.sty:</i> Semantic Macros and Module Scoping in sTeX. Self-documenting LaTeX package. 2016.				
[Koh06]	Michael Kohlhase. OMDoc - An open markup format for mathematical documents [Version 1.2]. LNAI 4180. Springer Verlag, Aug. 2006. URL: http://omdoc.org/pubs/omdoc1.2.pdf.				
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