

The logo for TeX 2 Word features the text "TeX 2 Word" in a bold, black, sans-serif font. The "2" is significantly larger and positioned between "TeX" and "Word". The background is a vibrant purple-to-pink gradient. Various mathematical symbols and LaTeX commands are scattered around the text, including  $\xi(t, z, \gamma)$ ,  $(\{t, s\} \text{right} t, s) \in \Delta$ ,  $\sum \alpha_x$ ,  $\int \gamma(s)$ ,  $\min\{t \geq$ ,  $\pi \Phi(t, t_0)$ ,  $\backslash \text{sum}$ ,  $\backslash \text{int}$ ,  $\backslash \text{min}\{\backslash \text{left}$ , and  $\backslash \text{pi}\ \Phi$ .

User Manual

# Contents

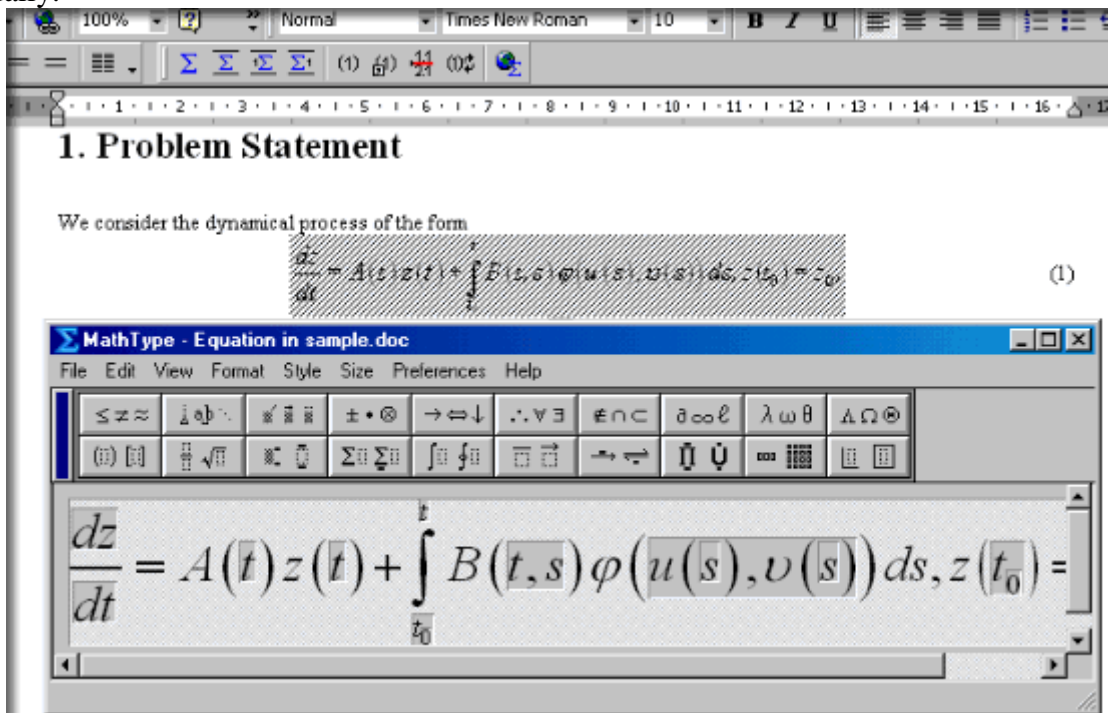
|  |    |
|--|----|
| Contents .....                                   | 1  |
| 1 Introduction.....                              | 2  |
| 1.1 About TeX2Word .....                         | 2  |
| 1.2 What For? .....                              | 2  |
| 2 Getting Started .....                          | 2  |
| 2.1 Overview.....                                | 2  |
| 2.2 System Requirements .....                    | 3  |
| 2.3 Installing TeX2Word .....                    | 3  |
| 2.3.1 TeX2Word Setup .....                       | 3  |
| 2.3.2 Uninstalling TeX2Word .....                | 3  |
| 2.4 Upgrading from previous version .....        | 3  |
| 3 Basic Usage or How do I use it?.....           | 4  |
| 4 Advanced Usage .....                           | 4  |
| 4.1 Overview.....                                | 4  |
| 4.2 Stylesheet primitives.....                   | 5  |
| 4.3 Top-level markup primitives.....             | 5  |
| 4.4 Paragraph properties primitives .....        | 6  |
| 4.5 Paragraph-level markup primitives.....       | 6  |
| 4.6 Paragraph span primitives.....               | 7  |
| 4.7 List primitives .....                        | 9  |
| 4.8 Table primitives .....                       | 9  |
| 4.9 Cross-referencing primitives.....            | 9  |
| 4.10 MathType equation-building primitives ..... | 10 |
| 4.11 Special primitives .....                    | 11 |
| Appendix A. License Agreement.....               | 12 |

# 1 Introduction

## 1.1 About TeX2Word

TeX2Word is a converter designed in order to use with Microsoft Word and enables Microsoft Word to open documents in TeX format (this includes any TeX-based formats like LaTeX, etc.) This gives the opportunity to convert existing TeX/LaTeX documents to Microsoft Word.

TeX2Word translates TeX/LaTeX mathematical expressions to fully-functional MathType equations, so that you can double-click and edit them as if they were created in MathType manually:



## 1.2 What For?

Why you may need your documents to be in Microsoft Word format? TeX/LaTeX is a de-facto standard in scientific publishing, but many publishers accept papers only in Microsoft Word format. Other reason is wide spectrum of software compatible with Microsoft Word, for example, Microsoft Word documents can be published on the Web, or saved as XML.

# 2 Getting Started

## 2.1 Overview

This part describes the steps you need to go through to get TeX2Word up and running. TeX2Word system requirements and installation instructions are listed below. Although installing TeX2Word is simply a matter of running its Setup program and following a few simple instructions, you may want to read this part first so you have a better understanding of TeX2Word and its components.

## 2.2 System Requirements

In order to install and run TeX2Word, your computer must have:

- ✓ Microsoft Windows 95 or later (Windows 98, Me, NT, 2000, XP);
- ✓ Microsoft Word 97 or later (Microsoft Word 97, 2000, XP);
- ✓ Design Science MathType installed (version 4 or later, version 5 in free Lite mode is enough);
- ✓ A hard disk drive with at least 2 megabytes of free space.

## 2.3 Installing TeX2Word

Installing TeX2Word is very simple – just run TeX2Word Setup program (file: tex2word.exe) and follow its instructions.

### 2.3.1 TeX2Word Setup

Once you have started TeX2Word Setup, just follow the instructions presented to you. Following components will be installed:

- The TeX2Word converter for Microsoft Word (file: tex2word.cnv);
- TeX2Word User Manual (file: tex2word.pdf);
- TeX2Word License Agreement (file: license.txt);
- Windows “Add/Remove Programs” uninstallation support (file: uninstall.exe);
- pseudoTeX macro files which build all TeX2Word knowledge about TeX/LaTeX formats and packages (files: \*.ptex in pseudoTeX subfolder).

You can find all these files in TeX2Word Destination folder when TeX2Word is installed.

If “TeX” option doesn’t appear in Word’s “File | Open...” dialog, it might be because Microsoft Office/Word Text Converter folder is marked read-only. You may copy the file tex2word.cnv manually to Text converter folder (usually Program Files\Common Files\Microsoft Shared\TEXTCONV). After doing this you’ll have to open any text file (it is important that this should be non-native Word doc) in Word, restart Word, and “TeX” option will appear.

### 2.3.2 Uninstalling TeX2Word

TeX2Word Setup supports Windows “Add/Remove Programs” feature:

- Click the “Start” button, point to “Settings”, and then click “Control Panel”;
- Double-click on “Add/Remove Programs”;
- Follow the instructions on your screen.

## 2.4 Upgrading from previous version

There’s no need to uninstall TeX2Word when upgrading to newer version. Just install TeX2Word as usual and all updates will be made automatically.

### 3 Basic Usage or How do I use it?

Once TeX2Word installed, its operation is seamless, below is shown a three-step procedure of importing TeX/LaTeX document to Microsoft Word:

1. Start Microsoft Word (if it's not already running);
2. Invoke "File | Open..." dialog box and choose "TeX" format:



3. Choose file you want to be imported and click Open

That's all!

Following condition must take place: all files (pictures, subdocuments, etc.) must be located in the same folder as TeX/LaTeX document you are going to import.

## 4 Advanced Usage

### 4.1 Overview

TeX2Word includes built-in pseudoTeX compiler which processes your TeX/LaTeX documents. pseudoTeX compiler doesn't use LaTeX packages or class/style files possibly presented in your system. Instead it has own definition files (with filename extension .ptex) located in pseudoTeX subfolder of TeX2Word program folder. These files are written in pseudoTeX language which itself represents some sort of superset of TeX language.

pseudoTeX always starts processing from file pseudotex.ptex and till command `\dothejob`, which loads your document into pseudoTeX input. After loading some "pseudo" package or defining commands which cover some LaTeX package pseudoTeX macro files always use command

`\api@lockfile <filename>`

which protects pseudoTeX from duplicate processing.

The main aim of TeX2Word is to translate structural elements of your TeX/LaTeX document to appropriate Word structures/elements. And that's why pseudoTeX introduces about hundred or so new "primitives".

## 4.2 Stylesheet primitives

| pseudoTeX primitive                     | Parameter syntax  | Meaning   |
|---|---|---|
| <code>\stylesheet@colortbl</code>       | <code>&lt;N&gt;[=] rgb &lt;R&gt; &lt;G&gt; &lt;B&gt;</code><br>or<br><code>&lt;N&gt;[=] cmyk &lt;C&gt; &lt;M&gt; &lt;Y&gt; &lt;K&gt;</code> | defines entry number N in color table with value defined in RGB or CMYK color model   |
| <code>\stylesheet@colortbl@clear</code> | N/A   | clears previous color table definitions   |
| <code>\stylesheet@fonttbl</code>        | <code>&lt;N&gt;[=] [FAMILY] &lt;font name&gt;;</code>   | defines entry number N in font table; font family specification FAMILY is optional and can be one of the following: roman, swiss, modern, script, décor, tech, bidi |
| <code>\stylesheet@fonttbl@clear</code>  | N/A   | clears previous font table definitions  |
| <code>\stylesheet@style</code>          | <code>&lt;N&gt;[=]&lt;name&gt;;</code>  | defines paragraph style with reference number N in paragraph style table  |
| <code>\stylesheet@clear</code>          | N/A   | clears previous paragraph style definitions   |

## 4.3 Top-level markup primitives

| pseudoTeX primitive   | Parameter syntax | Meaning                        |
|---|------------------|--------------------------------|
| <code>\entity@toplevel@element@markup@requiredpagebreak</code>      | N/A              | inserts mandatory page-break   |
| <code>\entity@toplevel@element@markup@requiredcolumnbreak</code>    | N/A              | inserts mandatory column-break |
| <code>\entity@toplevel@element@markup@nonrequiredpagebreak</code>   | N/A              | inserts optional page-break    |
| <code>\entity@toplevel@element@markup@nonrequiredcolumnbreak</code> | N/A              | inserts optional column-break  |

## 4.4 Paragraph properties primitives

| pseudoTeX primitive                                | Parameter syntax        | Meaning  |
|--|-------------------------|--|
| <code>\entity@paragraph@just</code>                | <code>[&lt;N&gt;</code> | sets current paragraph justification:<br>0 – justified,<br>1 – left,<br>2 – right,<br>3 – centered |
| <code>\entity@paragraph@left</code>                | <code>[&lt;N&gt;</code> | left-indent  |
| <code>\entity@paragraph@right</code>               | <code>[&lt;N&gt;</code> | right-indent   |
| <code>\entity@paragraph@first</code>               | <code>[&lt;N&gt;</code> | first line indent  |
| <code>\entity@paragraph@style</code>               | <code>[&lt;N&gt;</code> | sets current paragraph style; N is reference to paragraph style table                              |
| <code>\entity@paragraph@keepintact</code>          | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@keepwithnext</code>        | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@level</code>               | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@outlinelevel</code>        | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@pagebreakbefore</code>     | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@sidebyside</code>          | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@noline</code>              | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@spacebefore</code>         | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@spaceafter</code>          | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@spacebetween</code>        | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@linespacingmultiple</code> | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@righttoleftreading</code>  | <code>[&lt;N&gt;</code> | self-explaining  |
| <code>\entity@paragraph@sbasedon</code>            | <code>[&lt;N&gt;</code> | reference to style on which this paragraph style is based  |
| <code>\entity@paragraph@snext</code>               | <code>[&lt;N&gt;</code> | next style after this  |

## 4.5 Paragraph-level markup primitives

| pseudoTeX primitive                                     | Parameter syntax | Meaning                    |
|---|------------------|----------------------------|
| <code>\entity@paragraph@element@linebreak</code>        | N/A              | inserts line-break         |
| <code>\entity@paragraph@element@nonbreakingspace</code> | N/A              | inserts non-breaking space |
| <code>\entity@paragraph@element@enspace</code>          | N/A              | En-space                   |
| <code>\entity@paragraph@element@tab</code>              | N/A              | tab-mark                   |
| <code>\entity@paragraph@element@emdash</code>           | N/A              | ---                        |
| <code>\entity@paragraph@element@endash</code>           | N/A              | --                         |
| <code>\entity@paragraph@element@emspace</code>          | N/A              | Em-space                   |
| <code>\entity@paragraph@element@bullet</code>           | N/A              | •                          |
| <code>\entity@paragraph@element@lquote</code>           | N/A              | '                          |
| <code>\entity@paragraph@element@rquote</code>           | N/A              | '                          |
| <code>\entity@paragraph@element@ldblquote</code>        | N/A              | “                          |

| pseudoTeX primitive                                       | Parameter syntax | Meaning                                   |
|---|------------------|---|
| <code>\entity@paragraph@element@rdblquote</code>          | N/A              | ”   |
| <code>\entity@paragraph@element@optionalhyphen</code>     | N/A              | self-explaining                           |
| <code>\entity@paragraph@element@nonbreakinghyphen</code>  | N/A              | self-explaining                           |
| <code>\entity@paragraph@element@zerowidthjoiner</code>    | N/A              | self-explaining                           |
| <code>\entity@paragraph@element@zerowidthnonjoiner</code> | N/A              | self-explaining                           |
| <code>\entity@paragraph@new</code>                        | N/A              | starts new paragraph                      |
| <code>\entity@paragraph@element@picture</code>            | [=]<filename>;   | inserts picture                           |
| <code>\entity@toc@placeholder</code>                      | N/A              | inserts placeholder for table of contents |
| <code>\entity@paragraph@footnote@begin</code>             | N/A              | starts footnote                           |
| <code>\entity@paragraph@footnote@end</code>               | N/A              | ends footnote                             |
| <code>\entity@paragraph@endnote@begin</code>              | N/A              | starts endnote                            |
| <code>\entity@paragraph@endnote@end</code>                | N/A              | ends endnote                              |
| <code>\entity@paragraph@hyperlink@begin</code>            | N/A              | starts hyperlink                          |
| <code>\entity@paragraph@hyperlink@text</code>             | N/A              | separates hyperlink title                 |
| <code>\entity@paragraph@hyperlink@end</code>              | N/A              | ends hyperlink                            |
| <code>\entity@index@entry@begin</code>                    | N/A              | starts index entry                        |
| <code>\entity@index@entry@end</code>                      | N/A              | ends index entry                          |
| <code>\entity@index@entry@subentry</code>                 | N/A              | starts index sub-entry                    |
| <code>\entity@index@placeholder</code>                    | N/A              | inserts placeholder for index             |

## 4.6 Paragraph span primitives

| pseudoTeX primitive                           | Parameter syntax | Meaning   |
|---|------------------|---|
| <code>\entity@paragraph@span@bold</code>      | [=]<N>           | 0 – turns off “bold”,<br>1 – turns on “bold” font attribute   |
| <code>\entity@paragraph@span@italic</code>    | [=]<N>           | 0 – turns off “ <i>italic</i> ”,<br>1 – turns on “ <i>italic</i> ” font attribute   |
| <code>\entity@paragraph@span@underline</code> | [=]<N>           | 0 – turns off all underlining,<br>1 - continuous underline,<br>2 - dotted underline,<br>3 - dash underline,<br>4 - dot dash underline,<br>5 - dot dot dash underline,<br>6 - double underline,<br>7 - thick underline,<br>8 - word underline,<br>9 - wave underline |
| <code>\entity@paragraph@span@font</code>      | [=]<N>           | sets current font to font from entry N in font table  |



| pseudoTeX primitive                                 | Parameter syntax          | Meaning   |
|---|---------------------------|---|
| <code>\entity@paragraph@span@allcaps</code>         | <code>[=]&lt;N&gt;</code> | 0 – turns off “all capitals” font attribute,<br>1 – turns on “all capitals” font attribute  |
| <code>\entity@paragraph@span@fontsize</code>        | <code>[=]&lt;N&gt;</code> | sets current font size to N half-points   |
| <code>\entity@paragraph@span@strike</code>          | <code>[=]&lt;N&gt;</code> | sets “strikethrough” font attribute to one of the following:<br>0 – none,<br>1 – strikethrough,<br>2 - double strikethrough   |
| <code>\entity@paragraph@span@cf</code>              | <code>[=]&lt;N&gt;</code> | defines current foreground color, N is reference to color table entry   |
| <code>\entity@paragraph@span@cb</code>              | <code>[=]&lt;N&gt;</code> | defines current background color, N is reference to color table entry   |
| <code>\entity@paragraph@span@outline</code>         | <code>[=]&lt;N&gt;</code> | 0 – turns off “outline” font attribute,<br>1 – turns it on  |
| <code>\entity@paragraph@span@smallcaps</code>       | <code>[=]&lt;N&gt;</code> | 0 – turns off “small capitals” font attribute,<br>1 – turns it on   |
| <code>\entity@paragraph@span@shadow</code>          | <code>[=]&lt;N&gt;</code> | 0 – turns off “shadow” font attribute,<br>1 – turns it on   |
| <code>\entity@paragraph@span@ignoreligatures</code> | <code>[=]&lt;N&gt;</code> | 0 – turns off TeX ligature filter,<br>1 – turns it on   |
| <code>\entity@paragraph@span@animtext</code>        | <code>[=]&lt;N&gt;</code> | sets text animation attribute as following:<br>0 – none,<br>1 – Las Vegas Lights,<br>2 – Blinking background,<br>3 – Sparkle text,<br>4 – Marching black ants,<br>5 – Marching red ants,<br>6 – Shimmer |
| <code>\entity@paragraph@span@emboss</code>          | <code>[=]&lt;N&gt;</code> | 0 – none,<br>1 – Emboss   |
| <code>\entity@paragraph@span@engrave</code>         | <code>[=]&lt;N&gt;</code> | 0 – none,<br>1 – Engrave  |
| <code>\entity@paragraph@span@script</code>          | <code>[=]&lt;N&gt;</code> | 0 – turns off superscripting or subscripting,<br>1 – subscripts text,<br>2 – superscripts text  |
| <code>\entity@paragraph@span@hidden</code>          | <code>[=]&lt;N&gt;</code> | 1 – marks text as hidden,   |

| pseudoTeX primitive                          | Parameter syntax         | Meaning   |
|--|--------------------------|---|
| <code>\entity@paragraph@span@lang</code>     | <code>[=&lt;N&gt;</code> | <b>0</b> – marks text as visible<br>specifies current content language (N is RTF language code) |
| <code>\entity@paragraph@span@casing</code>   | <code>[=&lt;N&gt;</code> | <b>0</b> – none,<br><b>1</b> – uppercase,<br><b>2</b> – lowercase text                          |
| <code>\entity@paragraph@span@codepage</code> | <code>[=&lt;N&gt;</code> | specifies current content Windows codepage  |

## 4.7 List primitives

| pseudoTeX primitive                  | Parameter syntax         | Meaning  |
|--------------------------------------|--------------------------|--|
| <code>\entity@list@begin</code>      | N/A                      | starts new LIST  |
| <code>\entity@list@end</code>        | N/A                      | ends LIST  |
| <code>\entity@list@type</code>       | <code>[=&lt;N&gt;</code> | defines type of current LIST:<br><b>0</b> (default) – numbered list,<br><b>1</b> – bulleted list |
| <code>\entity@list@item@begin</code> | N/A                      | starts new LIST ITEM   |
| <code>\entity@list@item@end</code>   | N/A                      | ends LIST ITEM   |

## 4.8 Table primitives

| pseudoTeX primitive                     | Parameter syntax         | Meaning                            |
|---|--------------------------|------------------------------------|
| <code>\entity@table@begin</code>        | N/A                      | starts new TABLE (or nested TABLE) |
| <code>\entity@table@end</code>          | N/A                      | ends TABLE (or nested TABLE)       |
| <code>\entity@table@row@begin</code>    | N/A                      | starts TABLE ROW                   |
| <code>\entity@table@row@end</code>      | N/A                      | ends TABLE ROW                     |
| <code>\entity@table@row@omit</code>     | N/A                      | kills last defined TABLE ROW       |
| <code>\entity@table@cell@begin</code>   | N/A                      | starts TABLE CELL                  |
| <code>\entity@table@cell@end</code>     | N/A                      | ends TABLE CELL                    |
| <code>\entity@table@cell@colspan</code> | <code>[=&lt;N&gt;</code> | spans current CELL to N columns    |
| <code>\entity@table@cell@rowspan</code> | <code>[=&lt;N&gt;</code> | spans current CELL to N rows       |

## 4.9 Cross-referencing primitives

| pseudoTeX primitive                 | Parameter syntax   | Meaning  |
|-------------------------------------|--|--|
| <code>\api@xref@rememberthat</code> | <code>&lt;X&gt; is &lt;Y&gt;;</code><br>or<br><code>&lt;X&gt; refers to &lt;Y&gt;</code> | defines key and value for references in future and in the past |
| <code>\api@xref@referto</code>      | <code>&lt;X&gt;;</code>  | inserts reference to X   |

## 4.10 MathType equation-building primitives

| pseudoTeX primitive                    | Parameter syntax                          | Meaning  |
|--|---|--|
| <code>\mtef@underover@ubar</code>      | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@underover@obar</code>      | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@underover@tilde</code>     | <code>&lt;math&gt;</code>                 | $\widetilde{\langle math \rangle}$   |
| <code>\mtef@underover@hat</code>       | <code>&lt;math&gt;</code>                 | $\widehat{\langle math \rangle}$   |
| <code>\mtef@underover@arc</code>       | <code>&lt;math&gt;</code>                 | $\overbrace{\langle math \rangle}$   |
| <code>\mtef@underover@jstat</code>     | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@underover@obar@d</code>    | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@underover@ubar@d</code>    | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@underover@vec</code>       | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@l</code>     | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@h</code>     | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@lr</code>    | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@u</code>     | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@u@l</code>   | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@u@h</code>   | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@vec@u@lr</code>  | <code>&lt;math&gt;</code>                 | $\langle math \rangle$   |
| <code>\mtef@underover@strike@m</code>  | <code>&lt;math&gt;</code>                 | <del><math>\langle math \rangle</math></del>                                     |
| <code>\mtef@underover@strike</code>    | <code>&lt;math&gt;</code>                 | <del><math>\langle math \rangle</math></del>                                     |
| <code>\mtef@underover@strike@up</code> | <code>&lt;math&gt;</code>                 | <del><math>\langle math \rangle</math></del>                                     |
| <code>\mtef@underover@strike@dn</code> | <code>&lt;math&gt;</code>                 | <del><math>\langle math \rangle</math></del>                                     |
| <code>\mtef@underover@brace@t</code>   | <code>&lt;math&gt;</code>                 | $\overbrace{\langle math \rangle}$   |
| <code>\mtef@underover@brace</code>     | <code>&lt;math&gt;</code>                 | $\overbrace{\langle math \rangle}$   |
| <code>\mtef@underover@brack@t</code>   | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@underover@brack</code>     | <code>&lt;math&gt;</code>                 | $\overline{\langle math \rangle}$  |
| <code>\mtef@attachprime</code>         | N/A                                       | attaches “prime” mark (or one more “prime” mark) to last element                 |
| <code>\mtef@matrix</code>              | <code>{&lt;cell&gt;&amp;...\cr...}</code> | creates matrix   |
| <code>\mtef@eqno</code>                | <code>&lt;number&gt;</code>               | marks current subequation number   |
| <code>\mtef@noeqno</code>              | N/A                                       | marks current equation as multiline equation with no number(s)                   |
| <code>\mtef@style</code>               | <code>[=]&lt;N&gt;</code>                 | sets current style:<br>0 – MATH, 1 – TEXT,<br>2 – FUNCTION,<br>3 – VECTOR/MATRIX |

## 4.11 Special primitives

| pseudoTeX primitive                  | Parameter syntax | Meaning                                   |
|--------------------------------------|------------------|---|
| <code>\api@parser@normaldimen</code> | N/A              | tosses “dimension” specification          |
| <code>\api@parser@spec</code>        | N/A              | tosses “alignment preamble” specification |
| <code>\api@parser@glue</code>        | N/A              | tosses “glue” specification               |
| <code>\api@parser@rulespec</code>    | N/A              | tosses “rule” specification               |

# Appendix A. License Agreement

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