

# **mathanno.sty: Annotation Macros for Math Expressions**

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## **Abstract**

This package provides macros for annotating L<sup>A</sup>T<sub>E</sub>X-authored mathematical expressions, with a focus on structural and syntactic properties.

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# 1 Introduction

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# 2 User Interface

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# 3 Exhaustive Feature List

# 4 Implementation

We proceed to doing the actual work on the L<sup>A</sup>T<sub>E</sub>X side of affairs.

To start things off, we provide Tikz-based tree building macros.

```
1 \documentclass{article}
2 \newcommand{\labelentry}{.}
3 \newcounter{entryi}
4 %% ENTRIES for expression case study:
5 \newenvironment{nextentries}[2]%
6 {\begin{table}[hp]\def\capentries{#1}\def\labelentries{#2}%
7 \begin{tabular}{|l|l|l|l|}\hline & Expression & Meaning & Syntax \\\%
8 \hline\end{tabular}\caption{\capentries\label{\labelentries}\end{table}}%
9
10 \newenvironment{entries}[2]%
11 {\setcounter{entryi}{1}\begin{nextentries}{#1}{#2}}
12 {\end{nextentries}}
13
14 \newcommand\entry[4]{\hline\[-4mm] {\theentryi\labelentry}\stepcounter{entryi} & #1 & #2 & #3
15 \end{document}
```

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<sup>1</sup>EdNOTE: we need this for the arXiv case study.

<sup>2</sup>EdNOTE: talk about keywords, trees, tikz