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

Deyan Ginev

Jacobs University, Bremen

`http://kwarc.info/dginev`

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**Abstract**

This package provides macros for annotating LaTeX-authored mathematical expressions, with a focus on structural and syntactic properties.

## Contents

# 1 Introduction

<sup></sup>

# 2 User Interface

```
\documentclass{article}

An annotation for $1+2=3$:
@=(@+(1,2)) ???
```

Figure 1: Example use of `\mobile`

# 3 Exhaustive Feature List

# 4 Implementation

We proceed to doing the actual work on the LaTeX side of affairs.

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

```
1 ⟨*package⟩
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}{|lllll|}\hline  & Expression & Denotation & Annotation \\}%
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 & {\s
15 ⟨/package⟩
```

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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