

## New features in the *Monthly Notices* L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> class file

2001 February 06

The MNRAS L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> class file is implemented by placing the command `\documentclass[options]{mn2e}` at the start of the document.

The various `option` commands listed in the *Monthly Notices* L<sup>A</sup>T<sub>E</sub>X style guide for authors can still be used. The following additional options exist.

(i) `useAMS` – this enables the production of upright Greek characters  $\pi$ ,  $\mu$  and  $\partial$  (`\upi$`, `\umu$` and `\upartial$`) and slanted  $\leq$  and  $\geq$  (`\leq$` and `\geq$`). Characters  $\pi$ ,  $\mu$  and  $\partial$  appear upright only on systems that have the Euler roman fonts (`eurmxx`); characters  $\leq$  and  $\geq$  appear slanted only on systems that have the AMS series A fonts (`msamxx`). On systems that do not have these fonts, the standard forms of the characters appear in the printout; however, they should be correct in the final typeset paper if the correct L<sup>A</sup>T<sub>E</sub>X commands have been used.

(ii) `usedcolumn` – this uses the package file `dcolumn.sty` to define two new types of column alignment for use in tables. If the `usedcolumn` option has been specified then, within a table, `d{x}` can be used to produce a ‘flush right’ decimal-aligned column with  $x$  decimal places and `.` can be used to provide a decimal-aligned column centred on the decimal point (the number of decimal places does not need to be specified for this column type). Note that the standard L<sup>A</sup>T<sub>E</sub>X ‘tools’ packages `dcolumn.sty` and `array.sty` are required in order to use the `usedcolumn` option.

(iii) `usenatbib` – this uses Patrick Daly’s `natbib.sty` package for cross-referencing. If the `usenatbib` option is specified, citations in the text should be in one of the following forms (or one of the additional forms documented within `natbib.sty` itself).

- `\citet{key}` produces text citations, e.g. Jones et al. (1990),
- `\citep{key}` produces citations in parentheses, e.g. (Jones et al. 1990),
- `\citealt{key}` produces citations with no parentheses, e.g. Jones et al. 1990.

For three-author papers, a full author list can be forced by putting a `*` just before the `{`. To add notes within the citation, use the form `\citep[pre-reference-text][post-reference-text]{key}` (note that either of `pre-reference-text` and `post-reference-text` can be blank).

Items in the reference list must be of the form `\bibitem[\protect\citeauthor{author-names}]{year}{key} Text of reference ...` for one-, two- and multi-author papers, or `\bibitem[\protect\citeauthor{three-author-names}]{first-author-et-al}{year}{key} Text of reference ...` for three-author papers.

Note that Patrick Daly’s package `natbib.sty` is required in order to use the `usenatbib` option.

We recommend that authors use `natbib.sty` as their standard cross-referencing package, because of the flexibility in citation style that it provides.

(iv) `usegraphicx` – this loads the graphics package `graphicx.sty`, which authors can use to include figures in their papers. Note that the standard L<sup>A</sup>T<sub>E</sub>X graphics package `graphicx.sty` is required in order to use the `usegraphicx` option.

Other style files, or packages providing features such as graphics support, can be used in conjunction with `mn.cls`. To do this, the command `\usepackage{package-name}` is used.

An additional feature of the class file is that footnote symbols are now in the correct journal style (symbols for title page footnotes, superscript arabic numbers for text footnotes).

A BibTeX style file, `mn2e.bst`, is now available for authors who wish to use BibTeX. It is recommended that this should be used in conjunction with `natbib.sty`.

For general instructions on preparing *Monthly Notices* papers in L<sup>A</sup>T<sub>E</sub>X, please refer to the MNRAS L<sup>A</sup>T<sub>E</sub>X style guide for authors, available on the CTAN sites in subdirectory `/tex-archive/macros/latex209/mnras`.