The HEP-TITLE package*

Extended title data: subtitles, series, preprints, affiliations, ORCID, keywords and abstracts

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Abstract

The HEP-TITLE package extends the title macros of the standard classes. It adds series and subtitle metadata, preprint and reprint blocks, DOI and arXiv helpers, author, editor, endorser, affiliation, email and ORCID helpers, date and abstract formatting, keywords, and two-column title-aware abstracts.

To use the HEP-TITLE package include it with `\usepackage{hep-title}`.

Most macros are intended for the use in the preamble. They are implemented using the TITLING [1] and AUTHBLK [2] packages.

1 Macros

The ORCIDLINK package [3], which is loaded by HEP-TITLE, always loads the HYPERREF package [4]. Hence, options for HYPERREF have to be given with `\hypersetup{`⟨*options*⟩`}` or with `\PassOptionsToPackage{`⟨*options*⟩`}{hyperref}` before HEP-TITLE is loaded; loading `\usepackage[`⟨*options*⟩`]{hyperref}` afterwards results in an option clash. `\maketitle` sets the portable document format (PDF) title, author, and keywords according to the `\title{`⟨*text*⟩`}`, `\subtitle{`⟨*text*⟩`}`, `\author{`⟨*text*⟩`}`, and `\keywords{`⟨*keywords*⟩`}` information. Footnotes, `\thanks`, `\email`, `\orcid`, `\orcmail`, and `\orcidlink` are dropped, line breaks become spaces, and `\and` becomes a comma. Entries that have been set with `\hypersetup` are kept. In other PDF strings, such as bookmarks, `\email` is replaced by the email address and `\orcid` is dropped.

1.1 Title

`\preseries` `\series` `\postseries` `\title` `\presubtitle` `\subtitle` `\postsubtitle` `\seriesfont` `\titlefont` `\subtitlefont`

The `\series{`⟨*series*⟩`}` places a series title above the usual title generated via `\title{`⟨*title*⟩`}`. The `\subtitle{`⟨*subtitle*⟩`}` macro places a subtitle below the usual title. The `\preseries`, `\postseries`, `\presubtitle`, and `\postsubtitle` hooks adjust the surrounding material. The fonts and their size can be adjusted using the `\seriesfont{`⟨*font*⟩`}`, `\titlefont{`⟨*font*⟩`}`, and `\subtitlefont{`⟨*font*⟩`}` macros.

1.2 Authors

`\author` `\authorfont` `\authortitle` `\authortitlefont` `\preauthortitle` `\postauthortitle` `\email` `\orcid` `\orcmail` `\affiliation` `\affiliationfont`

In order to facilitate multiple authors with different affiliations the AUTHBLK package [2] is extended. The author macro is extended to take an affiliation label `\author[`⟨*label*⟩`]{`⟨*name*⟩`}`.

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The affiliation macro takes the corresponding label `\affiliation[`⟨*label*⟩`]{`⟨*institution*⟩`}`. Additionally, the `\email{`⟨*email*⟩`}` macro places a link containing the email address in typewriter font into a footnote, and the `\orcid{`⟨*orcid*⟩`}` macro places the ORCID logo and identifier, linked to the ORCID record. Consecutive `\email` and `\orcid` macros share one footnote, so that `\author{Name \email{email} \orcid{orcid}}` gives a single footnote mark. They can be part of `{`⟨*name*⟩`}` or follow `\author{`⟨*name*⟩`}` in the preamble, e.g. `\author{Name}\email{email}\orcid{orcid}`; this also holds for `\thanks{`⟨*text*⟩`}`, which gets its own footnote, and for editors and endorsers. An `\email[`⟨*label*⟩`]{`⟨*email*⟩`}` with label gets its own footnote, which can be referred to by the label. After the title, `\email` and `\orcid` print the link in the text. `\orcmail{`⟨*orcid*⟩`}{`⟨*email*⟩`}` is short for `\email{`⟨*email*⟩`}\orcid{`⟨*orcid*⟩`}`. If editors are present, the author line receives a title that can be adjusted using `\authortitle`, `\authortitlefont`, `\preauthortitle`, and `\postauthortitle`. The fonts can be adjusted using the `\authorfont{`⟨*font*⟩`}` and `\affiliationfont{`⟨*font*⟩`}` macros. The following lines add e.g. two authors with different affiliations

```
\author[affil1]{Author one \email{email one}}
\affiliation[affil1]{Affiliation one}
\author[affil1,affil2]{Author two \email{email two}}
\affiliation[affil2]{Affiliation two}
```

`\editor`
`\endorser`
`\editorfont`
`\endorserfont`
`\preeditor`
`\posteditor`
`\preendorser`
`\postendorser`
`\editortitle`
`\endorsertitle`
`\editortitlefont`
`\endorsertitlefont`
`\preeditortitle`
`\posteditortitle`
`\preendorsertitle`
`\postendorsertitle`

Additionally the `\editor[`⟨*label*⟩`]{`⟨*name*⟩`}` and `\endorser[`⟨*label*⟩`]{`⟨*name*⟩`}` macros are provided that act similar to the `\author[`⟨*label*⟩`]{`⟨*name*⟩`}` macros but place their content in a dedicated line. Their font and surrounding material can be adjusted by `\editorfont{`⟨*font*⟩`}`, `\endorserfont{`⟨*font*⟩`}`, `\preeditor{`⟨*code*⟩`}`, `\posteditor{`⟨*code*⟩`}`, `\preendorser{`⟨*code*⟩`}`, and `\postendorser{`⟨*code*⟩`}`. The titles of these lines can be adjusted using the `\editortitle{`⟨*singular*⟩`}{`⟨*plural*⟩ and `\endorsertitle{`⟨*singular*⟩`}{`⟨*plural*⟩`}` macros. Their font and surrounding material can be adjusted with `\editortitlefont{`⟨*font*⟩`}`, `\endorsertitlefont{`⟨*font*⟩`}`, `\preeditortitle{`⟨*code*⟩`}`, `\posteditortitle{`⟨*code*⟩`}`, `\preendorsertitle{`⟨*code*⟩`}`, and `\postendorsertitle{`⟨*code*⟩`}`.

1.3 Abstract

`abstract` (*env.*)
`abstract*` (*env.*)
`\keywords`
`\datefont`

The `abstract` environment is adjusted to not start with an indentation. Journals expect the abstract in different places, and all of them are accepted: after `\maketitle`, before it in the document, or in the preamble, as environment or in the command form `\abstract{`⟨*text*⟩`}`. An abstract given before the title is placed after it by `\maketitle`. The `abstract*` environment takes care of placing the title as well. This is used in `twocolumn` documents if the abstract should span both columns. The `\keywords{`⟨*keywords*⟩`}` macro appends an italic keyword line to the abstract.

The date is empty by default and can be formatted with `\datefont{`⟨*font*⟩`}`.

1.4 Preprint

`\preprint`
`\arxiv`
`\placepreprint`
`\preprintfont`
`\reprint`
`\doi`
`\placereprint`
`\reprintfont`

The `\preprint{`⟨*number*⟩`}` macro places a preprint number in the upper right corner of the title page. The `\arxiv{`⟨*id*⟩`}` macro adds an arXiv preprint link. The `\placepreprint` hook places the preprint block on the first page, and `\preprintfont` changes its font.

The `\reprint{`⟨*text*⟩`}` macro collects reprint or publication information for the upper left corner of the title page. The `\doi{`⟨*id*⟩`}` helper adds a DOI link. The `\placereprint` hook places the reprint block on the first page, and `\reprintfont` changes its font.

References

[1] P. R. Wilson. 'The `titling` package: Control over the typesetting of the `\maketitle` command' (2000). CTAN: `titling`.

[2] P. W. Daly. 'A LaTeX Package to Prepare Author and Affiliation Blocks: Support for footnote style author/affiliation' (2001). CTAN: `authblk`.

[3] L. Stein. 'The `orcidlink` package: Insert hyperlinked ORCiD logo' (2019). CTAN: `orcidlink`.

[4] *LaTeX3 Project*. 'Hypertext marks in LaTeX: a manual for `hyperref`: Extensive support for hypertext in LaTeX' (1995). CTAN: `hyperref`. GitHub: `latex3/hyperref`.