The **HEP-TITLE** package*

Extensions for the title page

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Abstract

The **HEP-TITLE** package extends the title macros of the standard classes with macros for a preprint, affiliation, editors, and endorsers.

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

1.1 Title

\begin{verbatim}
\series{⟨series⟩}
\title{⟨text⟩}
\subtitle{⟨subtitle⟩}
\seriesfont{⟨text⟩}
\titlefont{⟨text⟩}
\subtitlefont{⟨text⟩}
\end{verbatim}

The PDF meta information is set according to the `\title{⟨text⟩}` and `\author{⟨text⟩}` information. The `\series{⟨series⟩}` places a series title above the usual title. The `\subtitle{⟨subtitle⟩}` macro places a subtitle below the usual title. The fonts and their size can be adjusted using the `\seriesfont`, `\titlefont`, and `\subtitlefont` macros.

1.2 Authors

\begin{verbatim}
\author{Author one \email{email one}}
\affiliation{Affiliation one}
\editor{Author two \email{email two}}
\affiliation{Affiliation two}
\end{verbatim}

In order to facilitate multiple authors with different affiliations the **AUTHBLK** package [2] is extended. The following lines add *e.g.* two authors with different affiliations.

Additionally the `\editor` and `\endorser` macros are provided.

1.3 Abstract

The `abstract` environment is adjusted to not start with an indentation. The `abstract*` environment takes care of placing the title as well. This is used in **TWOCOLUMN** documents if the abstract should span both columns.

\begin{verbatim}
abstract
\abstract*
\end{verbatim}

---

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1.4 Preprint

The \texttt{\preprint{⟨\textit{number}⟩}} macro places a pre-print number in the upper right corner of the title page. The \texttt{\preprintfont} macro can be used to change the font of the preprint.

A Implementation

\small

\begin{verbatim}
\preprintfont
\end{verbatim}

\\texttt{\@ifpackageloaded{hyperref}{\renewcommand{\online}[2]{\href{#1}{\nolinkurl{#2}}}\let\email\hep@email}}

\\texttt{\hep@email[1]{mailto:#1}{#1}}

\AtBeginDocument{\let\hep@maketitle\maketitle\renewcommand\maketitle{\hep@maketitle\let\email\hep@email}}

A. Preprint and title

A.1 Preprint

\\texttt{\hep@multi@ref}

\\texttt{\newif\ifhep@first\newcommand{\hep@multi@ref}[1]{\hep@firsttrue\forcsvlist{\ifhep@first\hep@firstfalse\else\textsuperscript,\fi\ref}{#1}}}}

\AtBeginDocument{\let\hep@maketitle\maketitle\renewcommand\maketitle{\hep@maketitle\let\email\hep@email}}

Redefine the email macro for the title page.

\\texttt{\renewcommand{\email}[2][]{\unskip\thanks[#1]{\hep@email(#2)}}}}

\AtBeginDocument{\let\hep@maketitle\maketitle\renewcommand\maketitle{\hep@maketitle\let\email\hep@email}}

A.1.1 Preprint

\\texttt{\preprintfont}

\\texttt{\def\hep@preprint@font{#1}}

\\texttt{\preprintfont{\scshape\small}}
\preprint Define the \preprint macro using the varwidth package [3].

\begin{verbatim}
\let\hep@preprint\relax
\newcommand{\preprint}[1]{\def\hep@preprint{#1}}
\RequirePackage{varwidth}
\newcommand{\hep@preprint@box}{%
\begin{varwidth}{\textwidth}%
\hep@preprint@font\hep@preprint%
\end{varwidth}%
}

\begin{verbatim}
\RequirePackage{calc}
\RequirePackage{atbegshi}
\RequirePackage{picture}
\newcommand{\placepreprint}{%\AtBeginShipoutFirst{%
  \put(\textwidth+\oddsidemargin-\widthof{\hep@preprint@box},-
  2pt-\topmargin-\heightof{\hep@preprint@box}){
ormalfont\hep@preprint@box}%
}
\end{verbatim}

\begin{flushleft}
\textbf{A.1.2 Series}
\end{flushleft}
\series Define a series title.

\begin{verbatim}
\newcommand{\preseries}[1]{\def\hep@pre@series{#1}}
\newcommand{\series}[1]{\def\hep@series{#1}}
\newcommand{\postseries}[1]{\def\hep@post@series{#1}}
\end{verbatim}

\\seriesfont Allow to change the fontface of the series title.

\begin{verbatim}
\let\hep@series@font\relax
\newcommand{\seriesfont}[1]{\def\hep@series@font{#1}}
\end{verbatim}

Set the default series title layout.

\begin{verbatim}
\preseries{\begin{center}\Large\hep@series@font}
\postseries{\par\end{center}}
\end{verbatim}

\begin{flushleft}
\textbf{A.1.3 Title}
\end{flushleft}

Extend the title using the titling package [1]. Fix the footnote indent.

\begin{verbatim}
\RequirePackage{titling}
\setlength{\thanksmarkwidth}{1.5em}
\end{verbatim}
Place the preprint and the series title using \maketitlehooka.

\newcommand{\maketitlehooka}{%
\placepreprint\vspace{-\bigskipamount}%
\@ifundefined{hep@series}{}{%
\hep@pre@series\hep@series\hep@post@series%
}%
\vspace{-\bigskipamount}%
}

Allow to change the fontface of the title.

\let\hep@title@font\relax
\newcommand{\titlefont}[1]{\def\hep@title@font{#1}}

Set default title layout.

\prettitle{\begin{center}\LARGE\hep@title@font}
\posttitle{\par\end{center}}

A.1.4 Subtitle

Define a subtitle.

\newcommand{\presubtitle}[1]{\def\hep@pre@sub@title{#1}}
\newcommand{\subtitle}[1]{\def\hep@sub@title{#1}}
\newcommand{\postssubtitle}[1]{\def\hep@post@sub@title{#1}}

Allow to change the fontface of the subtitle.

\let\hep@subtitle@font\relax
\newcommand{\subtitlefont}[1]{\def\hep@subtitle@font{#1}}

Set default subtitle layout.

\presubtitle{\begin{center}\Large\hep@subtitle@font}
\postssubtitle{\par\end{center}}

A.2 Authors and Editors

A.2.1 Editors

Define editors, similar to authors using the authblk package. Enable the handling of multiple authors with different affiliations using the authblk package [2].

\RequirePackage{authblk}
\newcounter{editors}
\newcommand{\hep@editorlist}{}
\newcommand{\hep@editors}{}
\@namedef{hep@editor@sep1}{}
\@namedef{hep@editor@sep2}{\Authand}
\editor Copy of the authblk author code adjusted for editors.

\newcommand{editor}[2][]{%
  \ifnewaffil%
    \addtocounter{affil}{1}%
    \edef{AB@thenote}{\arabic{affil}}%
  \fi%
  \if\relax#1\relax%
    \def{AB@note}{\AB@thenote}%
  \else%
    \def{AB@note}{#1}\setcounter{Maxaffil}{0}%
  \fi%
  \addtocounter{editors}{1}%
  \begingroup%
    \let\protect\@unexpandable@protect \let\and\AB@pand%
    \def\thanks{\protect\thanks}\def\footnote{\protect\footnote}%
    \@temptokena=\expandafter{\hep@editors}{%
      \ifnum\value{editors}>1\relax%
        \@namedef{hep@editor@sep\number\c@editors}{\Authsep}%
      \fi%
    }%
  \endgroup%
\}%
\newcommand{editorlist}{%
  \@tempcnta=\expandafter{\hep@editorlist}{%
  }%
\}%
\editorfont Allow to change the fontface of the editors.

\let\hep@editor@font\relax
\newcommand{\editorfont}[1]{\def\hep@editor@font{#1}}

\preditor \postditor

Set editor style.

\newcommand{\preeditor}[1]{\def\hep@pre@editor{#1}}
\newcommand{\posteditor}[1]{\def\hep@post@editor{#1}}
\newcommand{\editortitle}[2]{\def\hep@editor@title{#1}\def\hep@editor@title@pl{#2}}
\newcommand{\editortitlefont}[1]{\def\hep@editor@title@font{#1}}
\newcommand{\preeditortitle}[1]{\def\hep@pre@editor@title{#1}}
\newcommand{\posteditortitle}[1]{\def\hep@post@editor@title{#1}}
\editortitle{Editor}{Editors}
\editortitlefont{\itshape}
\preeditortitle{\hep@editor@title@font}
\posteditortitle{: }
\preeditor{\begin{center}
\large\hep@editor@font\lineskip.5em
\begin{tabular}{c}
\hep@pre@editor@title
\ifnum\value{editors}>1\relax\hep@editor@title@pl\else\hep@editor@title\fi
\hep@post@editor@title
\end{tabular}
\par\end{center}}

\maketitlehookb Show subtitle and editor.

\renewcommand{\maketitlehookb}{% \@ifundefined{hep@sub@title}{% \hep@pre@sub@title\hep@sub@title\hep@post@sub@title% }% \smallskip\ifx\hep@editorlist\AB@empty\else% \hep@pre@editor\hep@editorlist\hep@post@editor% \fi}

A.2.2 Authors

\author Allow absent author field.
\authorfont Allow to change the fontface of the individual parts of the title.

\let\hep@author@font\relax
\newcommand{\authorfont}[1]{\def\hep@author@font{#1}}
\renewcommand{\Authfont}{\hep@author@font}

Set default author fontface.

\newcommand{\authortitle}[2]{
  \def\hep@author@title{#1}
  \def\hep@author@title@pl{#2}
}
\newcommand{\authortitlefont}[1]{\def\hep@author@title@font{#1}}
\newcommand{\preauthor}{%}
\newcommand{\postauthor}{%}
\newcommand{\preauthortitle}{\hep@author@title@font}
\newcommand{\postauthortitle}{: }
\preauthor{
  \begin{center}
  \large\hep@author@font\lineskip.5em
  \begin{tabular}{c}
    \ifnum\value{editors}>0\relax
    \hep@pre@author@title
    \else\hep@author@title@pl\fi
  \fi
  \hep@post@author@title
  \end{tabular}
  \par
  \end{center}}

A.2.3 Endorser

\newcounter{endorsers}
\newcommand{\hep@endorserlist{}}
\newcommand{\hep@endorsers{}}
Copy of the authblk author code adjusted for endorsers.

\DeclareRobustCommand\endorser{\ifnextchar[\hep@@endorser\hep@@@endorser}{\hep@@@endorser}
\def\hep@@endorser[#1]#2{\hep@@@@endorser[#1]{#2}}
\newcommand\hep@@@@endorser[2][1]{\ifnewaffil\addtocounter{affil}{1}\edef\AB@thenote{\arabic{affil}}\fi\if\relax#1\relax\def\AB@note{\AB@thenote}\setcounter{Maxaffil}{0}\else\def\AB@note{#1}\fi\ifnum\value{endorsers}>1\relax\@namedef{hep@endorser@sep\number\c@endorsers}{\Authand}\fi\addtocounter{endorsers}{1}\begingroup\let\protect\@unexpandable@protect \let\and\AB@pand\@tempskipa=\hep@endorsers\let\\protect\thanks\protect\footnote\edef\@temptokena{\hep@endorsers}{\let\\protect\@affilsep\protect\Affilfont\protect\AB@resetsep\protect\\[\]\protect\Authfont#2\if\relax#1\relax\protect\hep@multi@ref{\AB@note}\fi}\endgroup\@namedef{hep@endorser@sep1}\{}\@namedef{hep@endorser@sep2}{\Authand}
A.2.4 Affiliation

Patch the \affiliation macro to comply with the label ref system.

\newcounter{affiliation}
\renewcommand{\theaffiliation}{% 
\textsuperscript{\normalfont\textgreek{\alph{affiliation})}} 
} 
\xpatchcmd{\affil}{% 
\begin{center} 
\textbf{Affiliation} 
\end{center} 
} { 
\begin{center} 
\textbf{Affiliation} 
\end{center} 
} {} {}
allow to change the fontface of affiliation.

\affiliationfont  Allow to change the fontface of affiliation.

\affiliation  Define the \affiliation macro, ensure that linebreaks happen after a comma.

Place endorser and affiliation

@author  Ensure that affiliation is not set directly below author
A.3 Date and Abstract

A.3.1 Date
\date Allow absent date field.
\date{vspace{-4ex}}

\datefont Allow to change the fontface of the individual parts of the title.
\let\hep@date@font\relax
\newcommand{\datefont}[1]{\def\hep@date@font{#1}}

Set the default date fontface.
\predate{\begin{center}\hep@date@font}
\postdate{\par\end{center}}

A.3.2 Abstract
abstract Adjust the abstract environment to not start with indentation.
\ifundefined{abstract}{% 
\let\hep@abstract\abstract%
\renewcommand{\hep@abstract\noindent\ignorespaces}%

abstract* Add a abstract* environment for two column mode taking also care of placing the

title using the \texttt{ENviron} [6] and \texttt{ABSTRACT} [7] packages.
\if@twocolumn
\RequirePackage{environ}
\RequirePackage{abstract}
\renewcommand{\abstitleskip}{-3ex}
\NewEnviron{abstract*}{% 
twocolumn[\maketitle\vspace{-5ex}]% 
\begin{onecolabstract}\noindent\BODY\end{onecolabstract}%
A.4 Thanks

\thanks Redefine thank to have a optional argument for a reference label.

B Test

<#testone|testtwo>

%<testone>\documentclass{article}
%<testtwo>\documentclass[twocolumn]{article}
%\usepackage[lang=english]{hep-paper}
%\usepackage{math}{blindtext}
%\usepackage{hep-title}
%\usepackage{hyperref}
\def\BackrefFootnoteTag{}\usepackage{footnotebackref}
\preprint{Preprint}
\series{Series}
\title{Title}
\subtitle{Subtitle}
\editor[one]{First Editor}
\editor[one,two,second]{Second Editor}
\email[second]{second@mail.com}
\editor[one,two,three]{Third Editor \email{third@mail.com}}
\author[three,four]{First Author}
\author[fourth, two,four,thanks]{Second Author}
\email[fourth]{fifth@mail.com}
\thanks[thanks]{Thanks}
\author[fourth]{Fourth Author}
\editor[four]{First Endorser}
\editor[five]{Second Endorser}
\endorser{Third Endorser}
\affiliation[one]{First Affiliation}
\affiliation[two]{Second Affiliation}
\affiliation[three]{Third Affiliation}
\affiliation[four]{Fourth Affiliation}
\affiliation[five]{Fifth Affiliation}
\date{Date}
\begin{document}
%<testone> \maketitle
%<testtwo> \begin{abstract}
%<testone> \begin{abstract*}
\blindtext
%<testtwo> \end{abstract}
%<testtwo> \end{abstract*}
First page footnote.\footnote{Footnote}
\blinddocument
\end{document}
C Readme

440 # The ‘hep-title’ package
441 Extensions for the title page
442
444 ## Introduction
445
446 The ‘hep-title’ package extends the title macros of the standard classes with macros for
447 To use the ‘hep-title’ package include it with ‘\usepackage{hep-title}’.
449
450 ## Author
451 Jan Hajer
453
454 ## License
455
456 This file may be distributed and/or modified under the conditions of the ‘LaTeX’ Project
457 The latest version of this license is in ‘http://www.latex-project.org/lppl.txt’ and ver

References