

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. 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

If the HYPERREF package is loaded the portable document format meta information is set according to the `\title{<text>}` and `\author{<text>}` information.

1.1 Title

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

1.2 Authors

`\presubtitle` In order to facilitate multiple authors with different affiliations the AUTHBLK package [2] is
`\subtitle` extended. The author macro is extended to take an affiliation label `\author[<label>]{<name>}`. The
`\postsubtitle` affiliation macro takes the corresponding label `\affiliation[<label>]{<institution>}`. Additionally,
`\seriesfont` the `\email{<email>}` macro places a link containing the email address in typewriter font into a
`\titlefont` footnote. The `\orcmal{<orcid>}{<email>}` macro combines an email address with an ORCID link
`\subtitlefont` in the same footnote. If editors are present, the author line receives a title that can be adjusted
`\author` using `\authortitle`, `\authortitlefont`, `\preauthortitle`, and `\postauthortitle`. The fonts
`\authorfont` can be adjusted using the `\authorfont{<font>}` and `\affiliationfont{<font>}` macros. The
`\authortitle` following lines add e.g. two authors with different affiliations
`\authortitlefont` `\author[affil1]{Author one \email{email one}}`
`\preauthortitle` `\affiliation[affil1]{Affiliation one}`
`\postauthortitle`
`\email`
`\orcmal`
`\affiliation`
`\affiliationfont`

*This document corresponds to HEP-TITLE v1.5.

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

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}`, `\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

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. 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

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.

A Implementation

`<*package>`

Provide the `\online{text}{url}` macro combining the features of the `\href` and the `\url` macros. Define a macro for typesetting emails.

```
1 \providecommand*{\online}[2]{\texttt{#2}}%
2 \providecommand*{\hep@email}[1]{\online{mailto:#1}{#1}}
3 \providecommand*{\email}{\hep@email}
4 \AtBeginDocument{\@ifpackageloaded{hyperref}{%
5   \renewcommand*{\online}[2]{\href{#1}{\nolinkurl{#2}}}%
6 }{}
7 }
```

Transform reference list to list of references.

```
8 \newif\ifhep@first%
9 \newcommand*{\hep@multi@ref}[1]{%
10   \hep@firsttrue%
11   \forcsvlist{%
```

```

12 \ifhep@first\hep@firstfalse\else\textsuperscript,\fi\ref%
13 }{#1}%
14 }

```

Redefine the email macro for the title page.

```

15 \renewcommand*{\email}[2][\unskip\thanks[#1]{\hep@email{#2}}}%
16 \AtBeginDocument{
17 \let\hep@maketitle\maketitle
18 \renewcommand*\maketitle{\hep@maketitle\let\email\hep@email}
19 }

```

A.1 Preprint and title

A.1.1 Preprint and Reprint

`\reprintfont` Define the `\reprintfont` macro.

```

20 \let\hep@reprint@font\relax
21 \newcommand*\reprintfont[1]{\def\hep@reprint@font{#1}}
22 \reprintfont{\scshape\small}

```

`\reprint` Define the `\preprint` macro using the `VARWIDTH` package [3].

```

\doi
23 \let\hep@reprint\relax
24 \newcommand*\reprint[1]{
25 \@ifundefined{hep@reprint}{%
26 \gdef\hep@reprint{#1}%
27 }{%
28 \apptocmd{\hep@reprint}{\#1}{\#1}{\#1}%
29 }%
30 }
31 \newcommand*\doi[1]{\reprint{\textsc{doi}: \online{https://doi.org/#1}{#1}}}
32 \newcommand*\hep@reprint@box{%
33 \begin{varwidth}{\textwidth}%
34 \hep@reprint@font\hep@reprint%
35 \end{varwidth}%
36 }

```

`\preprintfont` Define the `\preprintfont` macro.

```

37 \let\hep@preprint@font\relax
38 \newcommand*\preprintfont[1]{\def\hep@preprint@font{#1}}
39 \preprintfont{\scshape\small\raggedleft}

```

`\preprint` Define the `\preprint` macro using the `VARWIDTH` package [3].

```

\arxiv
40 \RequirePackage{etoolbox}
41 \let\hep@preprint\relax
42 \newcommand*\preprint[1]{%
43 \@ifundefined{hep@preprint}{%
44 \gdef\hep@preprint{#1}%

```

```

45 }{%
46   \apptocmd{\hep@preprint}{\#1}{-}{-}%
47 }%
48 }
49 \newcommand*\arxiv[1]{%
50   \preprint{\textsc{arXiv}: \online{https://arxiv.org/abs/#1}{#1}}%
51 }
52 \RequirePackage{varwidth}
53 \newcommand*\hep@preprint@box{%
54   \begin{varwidth}{\textwidth}%
55     \hep@preprint@font\hep@preprint%
56   \end{varwidth}%
57 }

```

`\placepreprint` Places a preprint number in the top right corner of the title page using the `CALC` [4], `ATBEGSHI` [5], `\placereprint` and `PICTURE` [6] packages.

```

58 \RequirePackage{calc}
59 \RequirePackage{atbegshi}
60 \RequirePackage{picture}
61 \newcommand*\placepreprint{%
62   \AtBeginShipoutFirst{%
63     \put(
64       \textwidth+\oddsidemargin-\widthof{\hep@preprint@box},
65       -2pt-\topmargin-\heightof{\hep@preprint@box}
66     ){\normalfont\hep@preprint@box}
67   }
68 }
69 \newcommand*\placereprint{%
70   \AtBeginShipoutFirst{%
71     \put(
72       \oddsidemargin,
73       -2pt-\topmargin-\heightof{\hep@reprint@box}
74     ){\normalfont\hep@reprint@box}
75   }
76 }

```

A.1.2 Series

`\series` Define a series title.

```

77 \newcommand{\preseries}[1]{\def\hep@pre@series{#1}}
78 \newcommand*\series[1]{\def\hep@series{#1}}
79 \newcommand{\postseries}[1]{\def\hep@post@series{#1}}

```

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

```

80 \let\hep@series@font\relax
81 \newcommand*\seriesfont[1]{\def\hep@series@font{#1}}

```

Set the default series title layout.

```

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

```

A.1.3 Title

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

```

84 \RequirePackage{titling}
85 \setlength{\thanksmarkwidth}{1.5em}

```

`\maketitlehooka` Place the preprint and the series title using `\maketitlehooka`.

```

86 \renewcommand*{\maketitlehooka}{%
87   \placereprint\placepreprint\vspace{-\bigskipamount}%
88   \@ifundefined{hep@series}{}{%
89     \hep@pre@series\hep@series\hep@post@series%
90   }%
91   % \vspace{-\bigskipamount}%
92 }

```

`\titlefont` Allow to change the fontface of the the title.

```

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

```

Set default title layout.

```

95 \pretitle{\begin{center}}\LARGE\hep@title@font}
96 \posttitle{\par\end{center}}

```

A.1.4 Subtitle

`\subtitle` Define a subtitle.

```

97 \newcommand{\presubtitle}[1]{\def\hep@pre@sub@title{#1}}
98 \newcommand*{\subtitle}[1]{\def\hep@sub@title{#1}}
99 \newcommand{\postsubtitle}[1]{\def\hep@post@sub@title{#1}}

```

`\subtitlefont` Allow to change the fontface of the subtitle.

```

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

```

Set default subtitle layout.

```

102 \presubtitle{\begin{center}}\Large\hep@subtitle@font}
103 \postsubtitle{\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].

```

104 \RequirePackage{authblk}
105 \newcounter{editors}
106 \newcommand\hep@editorlist{}
107 \newcommand*\hep@editors{}
108 \@namedef{hep@editor@sep1}{}
109 \@namedef{hep@editor@sep2}{\Authand}

```

\editor Copy of the authblk author code adjusted for editors.

```

110 \newcommand*\editor[2] [] {%
111   \ifnewaffil%
112     \addtocounter{affil}{1}%
113     \edef\AB@thenote{\arabic{affil}}%
114   \fi%
115   \if\relax#1\relax%
116     \def\AB@note{\AB@thenote}%
117   \else%
118     \def\AB@note{#1}\setcounter{Maxaffil}{0}%
119   \fi%
120   \ifnum\value{editors}>1\relax%
121     \@namedef{hep@editor@sep\c@editors}{\Authsep}%
122   \fi%
123   \addtocounter{editors}{1}%
124   \begingroup%
125     \let\protect\@unexpandable@protect \let\and\AB@pand%
126     \def\thanks{\protect\thanks}\def\footnote{\protect\footnote}%
127     \@temptokena=\expandafter{\hep@editors}{%
128       \def\{%
129         \protect\[\@affilsep]\protect\Affilfont\protect\AB@resetsep%
130       }%
131       \xdef\hep@editor{\AB@blk@and#2}%
132       \ifnewaffil%
133         \gdef\AB@las{}\gdef\AB@lasx{\protect\Authand}\gdef\AB@as{}%
134         \xdef\hep@editors{\the\@temptokena\AB@blk@and}%
135       \else%
136         \xdef\hep@editors{\the\@temptokena\AB@as\AB@au@str}%
137         \global\let\AB@las\AB@lasx\gdef\AB@lasx{\protect\Authands}%
138         \gdef\AB@as{\Authsep}%
139       \fi%
140       \gdef\AB@au@str{#2}%
141     }%
142     \@temptokena=\expandafter{\hep@editorlist}%
143     \let\=\editorcr%
144     \xdef\hep@editorlist{%
145       \the\@temptokena%

```

```

146     \protect\@nameuse{hep@editor@sep\number\c@editors}%
147     \protect\Authfont#2%
148     \if\relax#1\relax\else%
149         \protect\hep@multi@ref{\AB@note}%
150     \fi%
151 }%
152 \endgroup%
153 \ifnum\value{editors}>2\relax%
154     \@namedef{hep@editor@sep\number\c@editors}{\Authands}%
155 \fi%
156 \newaffilfalse%
157 }

```

`\editorfont` Allow to change the fontface of the editors.

```

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

```

`\preditor` Set editor style.

`\postditor`

```

160 \newcommand{\preeditor}[1]{\def\hep@pre@editor{#1}}
161 \newcommand{\posteditor}[1]{\def\hep@post@editor{#1}}
162 \newcommand*{\editortitle}[2]{
163     \def\hep@editor@title{#1}
164     \def\hep@editor@title@pl{#2}
165 }
166 \newcommand*{\editortitlefont}[1]{\def\hep@editor@title@font{#1}}
167 \newcommand{\preeditortitle}[1]{\def\hep@pre@editor@title{#1}}
168 \newcommand{\posteditortitle}[1]{\def\hep@post@editor@title{#1}}
169 \editortitle{Editor}{Editors}
170 \editortitlefont{\itshape}
171 \preeditortitle{\hep@editor@title@font}
172 \posteditortitle{: }
173 \preeditor{%
174     \begin{center}%
175         \large\hep@editor@font\lineskip.5em%
176         \begin{tabular}[t]{c}{%
177             \hep@pre@editor@title%
178             \ifnum\value{editors}>1\relax%
179                 \hep@editor@title@pl%
180             \else%
181                 \hep@editor@title%
182             \fi%
183             \hep@post@editor@title%
184         }%
185     }
186 \posteditor{\end{tabular}\par\end{center}}

```

`\maketitlehookb` Show subtitle and editor.

```

187 \renewcommand*{\maketitlehookb}{%

```

```

188 \@ifundefined{hep@sub@title}{%{}%
189 \hep@pre@sub@title\hep@sub@title\hep@post@sub@title%
190 }%
191 \smallskip%
192 \ifx\hep@editorlist\AB@empty\else%
193 \hep@pre@editor\hep@editorlist\hep@post@editor%
194 \fi
195 }

```

A.2.2 Authors

`\author` Allow absent author field.

```

196 % \author{}

```

Switch authblk to a label ref system for affiliations using the XPATCH package [7].

```

197 \RequirePackage{xpatch}
198 \xpatchcmd{\author}{%
199 \protect\Authfont#2\AB@authnote{\AB@note}%
200 }{%
201 \protect\Authfont#2%
202 \if\relax#1\relax\else\unskip\protect\hep@multi@ref{\AB@note}\fi%
203 }{}{}

```

`\authorfont` Allow to change the fontface of the individual parts of the title.

```

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

```

Set default author fontface.

```

207 \newcommand*{\authortitle}[2]{
208 \def\hep@author@title{#1}
209 \def\hep@author@title@pl{#2}
210 }
211 \newcommand*{\authortitlefont}[1]{\def\hep@author@title@font{#1}}
212 \newcommand{\preauthortitle}[1]{\def\hep@pre@author@title{#1}}
213 \newcommand{\postauthortitle}[1]{\def\hep@post@author@title{#1}}
214 \authortitle{Author}{Authors}
215 \authortitlefont{\itshape}
216 \preauthortitle{\hep@author@title@font}
217 \postauthortitle{: }
218 \preauthor{%
219 \begin{center}%
220 \large\hep@author@font\lineskip.5em%
221 \begin{tabular}[t]{c}{%
222 \ifnum\value{editors}>0\relax%
223 \hep@pre@author@title%
224 \ifnum\value{authors}>1\relax%
225 \hep@author@title@pl\else\hep@author@title%

```



```

226         \fi\hep@post@author@title%
227     \fi%
228 }%
229 }
230 \postauthor{\end{tabular}\par\end{center}}

```

A.2.3 Endorser

```

231 \newcounter{endorsers}
232 \newcommand\hep@endorserlist{}
233 \newcommand*\hep@endorsers{}
234 \@namedef{hep@editor@sep1}{}
235 \@namedef{hep@editor@sep2}{\Authand}

```

`\endorser` Copy of the authblk author code adjusted for endorsers.

```

236 \DeclareRobustCommand\endorser{%
237     \@ifnextchar[{\hep@endorser}{\hep@@endorser}%
238 }
239 \def\hep@@endorser[#1]#2{\hep@@@endorser[#1]{#2}}
240 \def\hep@@@endorser#1{\hep@@@endorser{#1}}
241 \newcommand*\hep@@@endorser[2][{}]{%
242     \ifnewaffil%
243         \addtocounter{affil}{1}%
244         \edef\AB@thenote{\arabic{affil}}%
245     \fi%
246     \if\relax#1\relax%
247         \def\AB@note{\AB@thenote}%
248     \else%
249         \def\AB@note{#1}\setcounter{Maxaffil}{0}%
250     \fi%
251     \ifnum\value{endorsers}>1\relax%
252         \@namedef{hep@endorser@sep\c@endorsers}{\Authsep}%
253     \fi%
254     \addtocounter{endorsers}{1}%
255     \begingroup%
256         \let\protect\@unexpandable@protect \let\and\AB@pand%
257         \def\thanks{\protect\thanks}\def\footnote{\protect\footnote}%
258         \@temptokena=\expandafter{\hep@endorsers}{%
259             \def\{ {%
260                 \protect\[\@affilsep]\protect\Affilfont\protect\AB@resetsep%
261             }%
262             \xdef\hep@endorser{\AB@blk@and#2}%
263             \ifnewaffil%
264                 \gdef\AB@las{\gdef\AB@lasx{\protect\Authand}\gdef\AB@as{}}%
265                 \xdef\hep@endorsers{\the\@temptokena\AB@blk@and}%
266             \else%
267                 \xdef\hep@endorsers{\the\@temptokena\AB@as\AB@au@str}%
268                 \global\let\AB@las\AB@lasx\gdef\AB@lasx{\protect\Authands}%
269                 \gdef\AB@as{\Authsep}%
270             \fi%

```

```

271 \gdef\AB@au@str{#2}%
272 }%
273 \@temptokena=\expandafter{\hep@endorserlist}%
274 \let\=\endorsercr%
275 \xdef\hep@endorserlist{%
276 \the\@temptokena%
277 \protect\@nameuse{hep@endorser@sep\number\c@endorsers}%
278 \protect\Authfont#2%
279 \if\relax#1\relax\else%
280 \protect\hep@multi@ref{\AB@note}%
281 \fi%
282 }%
283 \endgroup%
284 \ifnum\value{endorsers}>2\relax%
285 \namedef{hep@endorser@sep\number\c@endorsers}{\Authands}%
286 \fi%
287 \newaffilfalse%
288 }

```

\endorserfont
\preendorser
\postendorser

```

289 \let\hep@endorser@font\relax
290 \def\endorserfont#1{\def\hep@endorser@font{#1}}
291 \newcommand{\preendorser}[1]{\def\hep@pre@endorser{#1}}
292 \newcommand{\postendorser}[1]{\def\hep@post@endorser{#1}}
293 \def\endorsertitle#1#2{
294 \def\hep@endorser@title{#1}
295 \def\hep@endorser@title@pl{#2}
296 }

```

\endorsertitlefont
\preendortitle
\postendortitle

```

297 \def\endorsertitlefont#1{\def\hep@endorser@title@font{#1}}
298 \newcommand{\preendortitle}[1]{\def\hep@pre@endorser@title{#1}}
299 \newcommand{\postendortitle}[1]{\def\hep@post@endorser@title{#1}}
300 \endorsertitle{Endorser}{Endorsers}
301 \endorsertitlefont{\itshape}
302 \preendortitle{\hep@endorser@title@font}
303 \postendortitle{: }
304 \preendorser{%
305 \begin{center}%
306 \large\hep@endorser@font\lineskip.5em%
307 \begin{tabular}[t]{c}{%
308 \hep@pre@endorser@title%
309 \ifnum\value{endorsers}>1\relax%
310 \hep@endorser@title@pl%
311 \else%
312 \hep@endorser@title%
313 \fi%
314 \hep@post@endorser@title%
315 }%

```

```

316 }
317 \postendorser{\end{tabular}\par\end{center}}

```

A.2.4 Affiliation

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

```

318 \newcounter{affiliation}
319 \renewcommand*{\theaffiliation}{%
320   \textsuperscript{\normalfont\alph{affiliation}}}%
321 }
322 \xpatchcmd{\affil}{%
323   \AB@affilnote{\AB@note}%
324 }{%
325   \protect\refstepcounter{affiliation}\protect\label{\AB@note}%
326   \if\relax#1\relax\else\protect\theaffiliation\fi%
327 }{}{}

```

`\affiliationfont` Allow to change the fontface of affiliation.

```

328 \let\hep@affiliation@font\relax
329 \newcommand*{\affiliationfont}[1]{\def\hep@affiliation@font{#1}}
330 % \newif\ifhep@lining\hep@liningtrue
331 % \ifhep@lining
332 \renewcommand*{\Affilfont}{\small\hep@affiliation@font}
333 % \else
334 %   \renewcommand*{\Affilfont}{\small\ostyle\hep@affiliation@font}
335 % \fi

```

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

```

336 \newcommand*\hep@penalty{\if@twocolumn85\else50\fi}
337 \newcommand*\hep@active@comma{,\penalty-\hep@penalty\relax}
338 \newcommand*\hep@cat@comma@active{\catcode'\,\active}
339 {\hep@cat@comma@active\gdef,{\hep@active@comma}}
340 \newcommand*\hep@affil[1]{%
341   \endgroup\@flushglue=0pt plus .5\linewidth\affil{#1}%
342 }
343 \def\hep@affil@opt[#1]#2{%
344   \endgroup\@flushglue=0pt plus .5\linewidth\affil[#1]{#2}%
345 }
346 \DeclareRobustCommand\hep@affiliation{%
347   \@ifnextchar[{\hep@affil@opt}{\hep@affil}%
348 }
349 \newcommand*{\affiliation}{%
350   \begingroup\hep@cat@comma@active\hep@affiliation%
351 }

```

Place endorser and affiliation

```

352 \renewcommand*{\maketitlehookc}{%
353   \ifx\hep@endorserlist\AB@empty\else%

```

```

354 \hep@pre@endorser\hep@endorserlist\hep@post@endorser%
355 \fi
356 % \[\affilsep]
357 \ifx\AB@affillist\AB@empty\else%
358 \ifnum\value{affil}>\value{Maxaffil}
359 \begin{center}\AB@affillist\end{center}%
360 \fi%
361 \fi%
362 }

```

`\@author` Ensure that affiliation is not set directly below author

```

363 \def\@author{%
364 \ifx\AB@affillist\AB@empty%
365 \AB@author%
366 \else%
367 \ifnum\value{affil}>\value{Maxaffil}
368 \def\rlap##1{##1}%
369 \AB@authlist%
370 % \[\affilsep]\AB@affillist%
371 \else%
372 \AB@authors%
373 \fi%
374 \fi%
375 }

```

`\g_hep_authors_seq` Place author information in dedicated PDF field.

```

\hep_author
376 \ExplSyntaxOn
377 \seq_new:N \g_hep_authors_seq
378 \cs_new_eq:NN \hep_author \author

```

`\hep_add_to_authors` Strip footnote-like commands from the plain-author copy

```

379 \cs_set_protected:Npn \hep_add_to_authors:n #1{
380 \group_begin:
381 \cs_set:Npn \email ##1 {}
382 \cs_set:Npn \thanks ##1 {}
383 \cs_set:Npn \footnote ##1 {}
384 \cs_set:Npn \orcidlink##1{}
385 \cs_set:Npn \orcmail ##1 ##2 {}
386 \tl_set:Ne \l_tmpa_tl {#1}
387 \seq_gput_right:NV \g_hep_authors_seq \l_tmpa_tl
388 \group_end:
389 }

```

`\author` Patch author macro.

```

390 \RenewDocumentCommand{\author}{0{}m}{
391 \hep_add_to_authors:n{#2}
392 \hep_author[#1]{#2}
393 }

```

`\hep_authors` Expandable plain list

`\hep@authors`

```
394 \cs_new:Npn \hep_authors:{
395   \seq_use:Nnnn \g_hep_authors_seq {~and~} {,~} {,~and~}
396 }
397 \cs_new_eq:NN \hep@authors \hep_authors:
```

Safe plain author in PDF.

```
398 \AddToHook{cmd/maketitle/before}[hep-title/pdfauthor]{%
399   \ifpackageloaded{hyperref}{%
400     \hypersetup{pdfauthor={\hep@authors}}}%
401   }{}%
402 }
403 \ExplSyntaxOff
```

Load the ORCIDLINK [8] package and make the logo monochrome.

```
404 \RequirePackage{orcidlink}
405 \colorlet{orcidlogocol}{black}
406 \tikzset{
407   orcidlogo/.pic={
408     \fill[orcidlogocol] svg{M256,128c0,70.7-57.3,128-128,128C57.3,256,0,198.7,0,128C0,57.3
409     \fill[white] svg{M236,128 c0,59.6-48.4,108-108,108 C68.4,236,20,187.6,20,128 C20,68.4,
410     \fill[black] svg{M86.3,186.2H70.9V79.1h15.4v48.4V186.2z}
411     svg{M108.9,79.1h41.6c39.6,0,57,28.3,57,53.6c0,27.5-21.5,53.6-56.8,53.6h-41.8V79.1z M12
412     svg{M88.7,56.8c0,5.5-4.5,10.1-10.1,10.1c-5.6,0-10.1-4.6-10.1-10.1c0-5.6,4.5-10.1,10.1-
413   }
414 }
```

`\orcmail` Define the `\orcmail` macro that places the ORCID together with the email in the footer.

```
415 \NewDocumentCommand{\orcmail}{mm}{\thanks{\hep@email{#2} \orcidlinkc{#1}}}%
416 \pdfstringdefDisableCommands{\def\orcmail#1#2{}}
```

A.3 Date and Abstract

A.3.1 Date

`\date` Allow absent date field.

```
417 \date{\vspace{-4ex}}
```

`\datefont` Allow to change the fontface of the individual parts of the title.

```
418 \let\hep@date@font\relax
419 \newcommand*{\datefont}[1]{\def\hep@date@font{#1}}
```

Set the default date fontface.

```
420 \predate{\begin{center}\hep@date@font}
421 \postdate{\par\end{center}}
```

A.3.2 Abstract

abstract (*env.*) Adjust the abstract environment to not start with indentation.

```

422 \@ifundefined{abstract}{}{%
423   \let\hep@abstract\abstract%
424   \renewcommand*\abstract{\hep@abstract\noindent\ignorespaces}%
425   \let\hep@key@words\relax
426   \newcommand*{\keywords}[1]{\def\hep@key@words{#1}}
427   \AtBeginDocument{\@ifundefined{hep@key@words}{}{%
428     \let\hep@end@abstract\endabstract%
429     \renewcommand*\endabstract{
430       \par\medskip\noindent\textit{Keywords: \hep@key@words}%
431       \hep@end@abstract%
432     }%
433   }}

```

abstract* (*env.*) Add a **abstract*** environment for two column mode taking also care of placing the title using the **ENVIRON** [9] and **ABSTRACT** [10] packages.

```

434 \if@twocolumn
435   \RequirePackage{environ}
436   \RequirePackage{abstract}
437   \renewcommand*{\abstitle skip}{-3ex}
438   \NewEnviron{abstract*}{%
439     \twocolumn[\maketitle\vspace{-5ex}%
440     \begin{onecolabstract}\noindent\BODY\end{onecolabstract}%
441     \vspace{.5cm}]\saythanks%
442   }%
443 \else
444   \newenvironment{abstract*}{%
445     \maketitle\begin{abstract}%
446   }{%
447     \end{abstract}%
448   }
449 \fi
450 }

```

A.4 Thanks

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

```

451 \let\hep@thanks\thanks
452 \AtEndDocument{\let\thanks\hep@thanks}
453 \DeclareRobustCommand\thanks[2][]{%
454   \AfterEndPreamble{%
455     \if\relax#1\relax%
456       \footnotemark%
457     \else%
458       \renewcommand*\thefootnote{\textsuperscript{\@fnsymbol\c@footnote}}%
459       \protect\refstepcounter{footnote}\protect\label{#1}%
460       \renewcommand*\thefootnote{\@arabic\c@footnote}%

```

```

461 \fi%
462 \protected@xdef\@thanks{%
463 \@thanks\protect\footnotetext[\the\c@footnote]{#2}%
464 }
465 \if@twocolumn
466 \protected@xdef\@bs@thanks{%
467 \@bs@thanks\protect\footnotetext[\the\c@footnote]{#2}%
468 }%
469 \fi%
470 }%
471 }

```

</package>

B Test

<*testone|testtwo>

```

472 %<testone>\documentclass{article}
473 %<testtwo>\documentclass[twocolumn]{article}
474
475 %% \usepackage[lang=english]{hep-paper}
476 \usepackage[math]{blindtext}
477 \usepackage{hep-title}
478 \usepackage{hyperref}
479 \def\BackrefFootnoteTag{}\usepackage{footnotebackref}
480
481 \doi{10.1234/5678}
482
483 \arxiv{1234.5678}
484
485 \preprint{Preprint}
486
487 \series{Series}
488
489 \title{Title}
490
491 \subtitle{Subtitle}
492
493 \editor[one]{First Editor}
494 \editor[one,two,second]{Second Editor}
495 \email[second]{second@mail.com}
496 \editor[one,two,three]{Third Editor \email{third@mail.com}}
497
498 \author[three,four]{First Author}
499 \author[fourth,two,four,thanks]{Second Author}
500 \email[fourth]{fifth@mail.com}
501 \thanks[thanks]{Thanks}
502 \author[two,three,four]{Third Author \email{sixth@mail.com}}
503 \author{Fourth Author}

```

```

504
505 \endorser[four]{First Endorser}
506 \endorser[five]{Second Endorser}
507 \endorser{Third Endorser}
508
509 \affiliation[one]{First Affiliation}
510 \affiliation[two]{Second Affiliation}
511 \affiliation[three]{Third Affiliation}
512 \affiliation[four]{Fourth Affiliation}
513 \affiliation[five]{Fifth Affiliation}
514
515 \date{Date}
516
517 \keywords{Keyword 1, keyword 2, keyword 3}
518
519 \begin{document}
520 %<testone>
521 %<testone> \maketitle
522
523 %<testone>\begin{abstract}
524 %<testtwo>\begin{abstract*}
525 \blindtext
526 %<testone>\end{abstract}
527 %<testtwo>\end{abstract*}
528
529 \noindent First page footnote.\footnote{Footnote}
530
531 \blinddocument
532
533 \end{document}

</testone|testtwo>

```

C Readme

<*readme>

```

534 # The 'hep-title' package
535
536 Extensions for the title page
537
538 ## Introduction
539
540 The 'hep-title' package extends the title macros of the standard classes
541 with series and subtitle metadata, preprint and reprint blocks, DOI and
542 arXiv helpers, author, editor, endorser, affiliation, email and ORCID
543 helpers, date and abstract formatting, keywords, and two-column
544 title-aware abstracts.
545
546 To use the 'hep-title' package include it with '\usepackage{hep-title}'.

```


547
548 **## Author**
549
550 Jan Hajer
551
552 **## License**
553
554 This file may be distributed and/or modified under the conditions of the
555 ‘LaTeX’ Project Public License, either version 1.3c of this license or
556 (at your option) any later version. The latest version of this license is
557 in ‘<http://www.latex-project.org/lppl.txt>’ and version 1.3c or later is
558 part of all distributions of LaTeX version 2005/12/01 or later.

</readme>

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Change History

v1.0				affiliation references.	1
	General: Created the dedicated title package with series, subtitle, preprint placement, author, affiliation, email, editor, endorser, keyword, and abstract handling.	1	v1.2	General: Refreshed package metadata and documentation formatting.	1
			v1.3	General: Updated release metadata.	1
v1.1	General: Added keyword metadata, improved author, affiliation, editor, and endorser documentation, made affiliation output conditional, and fixed		v1.4	General: Added reprint blocks, \doi, \arxiv, multiple preprint and reprint lines, \placereprint, ragged preprint font, and applied starred command definitions. . .	1

v1.5

General: Raised the LaTeX format
requirement, bumped release metadata,

expanded title documentation and
README, and added fuller title tests. . . 1