

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

`\series` 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.

`\seriesfont`

`\titlefont`

1.2 Authors

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

`\author[affil1]{Author one \email{email one}}`

`\affiliation[affil1]{Affiliation one}`

`\author[affil2]{Author two \email{email two}}`

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

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

`\authorfont`

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.

^{*}This document corresponds to HEP-TITLE v1.0.

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`\abstract`

`\abstract*`

1.4 Preprint

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

A Implementation

<*package>

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

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

\hep@multi@ref 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

\preprintfont Define the \preprintfont macro.

```
20 \let\hep@preprint@font\relax
21 \newcommand{\preprintfont}[1]{\def\hep@preprint@font{\#1}}
22 \preprintfont{\scshape\small}
```

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

```
23 \let\hep@preprint\relax
24 \newcommand{\preprint}[1]{\def\hep@preprint{#1}}
25 \RequirePackage{varwidth}
26 \newcommand{\hep@preprint@box}{%
27   \begin{varwidth}{\textwidth}%
28     \hep@preprint@font\hep@preprint%
29   \end{varwidth}%
30 }
```

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

```
31 \RequirePackage{calc}
32 \RequirePackage{atbegshi}
33 \RequirePackage{picture}
34 \newcommand{\placepreprint}{%
35   \AtBeginShipoutFirst{%
36     \put(
37       \textwidth+\oddsidemargin-\widthof{\hep@preprint@box},
38       -2pt-\topmargin-\heightof{\hep@preprint@box}
39     ){\normalfont\hep@preprint@box}
40   }
41 }
```

A.1.2 Series

\series Define a series title.

```
42 \newcommand{\preseries}[1]{\def\hep@pre@series{#1}}
43 \newcommand{\series}[1]{\def\hep@series{#1}}
44 \newcommand{\postseries}[1]{\def\hep@post@series{#1}}
```

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

```
45 \let\hep@series@font\relax
46 \newcommand{\seriesfont}[1]{\def\hep@series@font{#1}}
```

Set the default series title layout.

```
47 \preseries{\begin{center}\Large\hep@series@font}
48 \postseries{\par\end{center}}}
```

A.1.3 Title

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

```
49 \RequirePackage{titling}
50 \setlength{\thanksmarkwidth}{1.5em}
```

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

```
51 \renewcommand{\maketitlehooka}{%
52   \placepreprint\vspace{-\bigskipamount}%
53   \@ifundefined{hep@series}{}{%
54     \hep@pre@series\hep@series\hep@post@series%
55   }%
56   \vspace{-\bigskipamount}%
57 }
```

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

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

Set default title layout.

```
60 \pretitle{\begin{center}\LARGE\hep@title@font}
61 \posttitle{\par\end{center}}
```

A.1.4 Subtitle

\subtitle Define a subtitle.

```
62 \newcommand{\presubtitle}[1]{\def\hep@pre@sub@title{#1}}
63 \newcommand{\subtitle}[1]{\def\hep@sub@title{#1}}
64 \newcommand{\postsubtitle}[1]{\def\hep@post@sub@title{#1}}
```

\subtitlefont Allow to change the fontface of the subtitle.

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

Set default subtitle layout.

```
67 \presubtitle{\begin{center}\Large\hep@sub@title@font}
68 \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].

```
69 \RequirePackage{authblk}
70 \newcounter{editors}
71 \newcommand{\hep@editorlist}{}
72 \newcommand{\hep@editors}{}
73 \cnamedef{\hep@editor@sep1}{}
74 \cnamedef{\hep@editor@sep2}{\Authand}
```

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

```
75 \newcommand\editor[2] []{%
76   \ifnewaffil%
77     \addtocounter{affil}{1}%
78     \edef\AB@thenote{\arabic{affil}}%
79   \fi%
80   \if\relax#1\relax%
81     \def\AB@note{\AB@thenote}%
82   \else%
83     \def\AB@note{#1}\setcounter{Maxaffil}{0}%
84   \fi%
85   \ifnum\value{editors}>1\relax%
86     \namedef{hep@editor@sep\number\c@editors}{\Authsep}%
87   \fi%
88   \addtocounter{editors}{1}%
89   \begingroup%
90     \let\protect\@unexpandable@protect \let\and\AB@pand%
91     \def\thanks{\protect\thanks}\def\footnote{\protect\footnote}%
92     \temptokena=\expandafter{\hep@editors}%
93     \def\\{%
94       \protect\\[\@affilsep]\protect\Affilfont\protect\AB@resetsep%
95     }%
96     \xdef\hep@editor{\AB@blk@and#2}%
97     \ifnewaffil%
98       \gdef\AB@las{} \gdef\AB@lasx{\protect\Authand} \gdef\AB@as{}%
99       \xdef\hep@editors{\the\temptokena\AB@blk@and}%
100    \else%
101      \xdef\hep@editors{\the\temptokena\AB@as\AB@au@str}%
102      \global\let\AB@las\AB@lasx\gdef\AB@lasx{\protect\Authands}%
103      \gdef\AB@as{\Authsep}%
104    \fi%
105    \gdef\AB@au@str{#2}%
106  }%
107  \temptokena=\expandafter{\hep@editorlist}%
108  \let\\=\editorcr%
109  \xdef\hep@editorlist{%
110    \the\temptokena%
111    \protect\@nameuse{hep@editor@sep\number\c@editors}%
112    \protect\Authfont#2%
113    \if\relax#1\relax\else%
114      \protect\hep@multi@ref{\AB@note}%
115    \fi%
116  }%
117  \endgroup%
118  \ifnum\value{editors}>2\relax%
119    \namedef{hep@editor@sep\number\c@editors}{\Authands}%
120  \fi%
121  \newaffilfalse%
122 }
```

\editorfont Allow to change the fontface of the editors.

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

\preditor Set editor style.

\postditor

```
125 \newcommand{\preeditor}[1]{\def\hep@pre@editor{#1}}
126 \newcommand{\posteditor}[1]{\def\hep@post@editor{#1}}
127 \newcommand{\editortitle}[2]{
128   \def\hep@editor@title{#1}
129   \def\hep@editor@title@pl{#2}
130 }
131 \newcommand{\editortitlefont}[1]{\def\hep@editor@title@font{#1}}
132 \newcommand{\preeditortitle}[1]{\def\hep@pre@editor@title{#1}}
133 \newcommand{\posteditortitle}[1]{\def\hep@post@editor@title{#1}}
134 \editortitle{Editor}{Editors}
135 \editortitlefont{\itshape}
136 \preeditortitle{\hep@editor@title@font}
137 \posteditortitle{::}
138 \preeditor{%
139   \begin{center}%
140     \large\hep@editor@font\lineskip.5em%
141     \begin{tabular}[t]{c}%
142       \hep@pre@editor@title%
143       \ifnum\value{editors}>1\relax%
144         \hep@editor@title@pl%
145       \else%
146         \hep@editor@title%
147       \fi%
148       \hep@post@editor@title%
149     \}%
150 }
151 \posteditor{\end{tabular}\par\end{center}}
```

\maketitlehookb Show subtitle and editor.

```
152 \renewcommand{\maketitlehookb}{%
153   @ifundefined{hep@sub@title}{}{%
154     \hep@pre@sub@title\hep@sub@title\hep@post@sub@title%
155   }%
156   \smallskip%
157   \ifx\hep@editorlist\empty\else%
158     \hep@pre@editor\hep@editorlist\hep@post@editor%
159   \fi
160 }
```

A.2.2 Authors

\author Allow absent author field.

```
161 % \author{}
```

Switch authblk to a label ref system for affiliations.

```
162 \RequirePackage{xpatch}
163 \xpatchcmd{\author}{%
164   \protect\Authfont#2\AB@authnote{\AB@note}}%
165 }{%
166   \protect\Authfont#2%
167   \if\relax#1\relax\else\unskip\protect\hep@multi@ref{\AB@note}\fi%
168 }{}{}
```

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

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

Set default author fontface.

```
172 \newcommand{\authortitle}[2]{%
173   \def\hep@author@title{#1}%
174   \def\hep@author@title@pl{#2}%
175 }
176 \newcommand{\authortitlefont}[1]{\def\hep@author@title@font{#1}}
177 \newcommand{\preauthortitle}[1]{\def\hep@pre@author@title{#1}}
178 \newcommand{\postauthortitle}[1]{\def\hep@post@author@title{#1}}
179 \authortitle{Author}{Authors}
180 \authortitlefont{\itshape}
181 \preauthortitle{\hep@author@title@font}
182 \postauthortitle{:}
183 \preauthor{%
184   \begin{center}%
185     \large\hep@author@font\lineskip.5em%
186     \begin{tabular}[t]{c}%
187       \ifnum\value{editors}>0\relax%
188         \hep@pre@author@title%
189       \ifnum\value{authors}>1\relax%
190         \hep@author@title@pl\else\hep@author@title%
191       \fi\hep@post@author@title%
192     \fi%
193   }%
194 }
195 \postauthor{\end{tabular}\par\end{center}}
```

A.2.3 Endorser

```
196 \newcounter{endorsers}
197 \newcommand\hep@endorserlist{}
198 \newcommand\hep@endorsers{}
```

```

199 \@namedef{hep@editor@sep1}{}
200 \@namedef{hep@editor@sep2}{\Authand}

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

201 \DeclareRobustCommand\endorser{\@ifnextchar[{\hep@endorser}{\hep@@endorser}}
202 \def\hep@endorser[#1]#2{\hep@@endorser[#1]{#2}}
203 \def\hep@@endorser#1{\hep@@endorser{#1}}
204 \newcommand\hep@@endorser[2][]{%
205   \ifnewaffil%
206     \addtocounter{affil}{1}%
207     \edef\AB@thenote{\arabic{affil}}%
208   \fi%
209   \if\relax#1\relax%
210     \def\AB@note{\AB@thenote}%
211   \else%
212     \def\AB@note{#1}\setcounter{Maxaffil}{0}%
213   \fi%
214   \ifnum\value{endorsers}>1\relax%
215     \@namedef{hep@endorser@sep\number\c@endorsers}{\Authsep}%
216   \fi%
217   \addtocounter{endorsers}{1}%
218   \begingroup%
219     \let\protect\@unexpandable@protect \let\and\AB@pand%
220     \def\thanks{\protect\thanks}\def\footnote{\protect\footnote}%
221     \temptokena=\expandafter{\hep@endorsers}%
222     \def\\{%
223       \protect\\[\@affilsep]\protect\Affilfont\protect\AB@resetsep%
224     }%
225     \xdef\hep@endorser{\AB@blk@and#2}%
226     \ifnewaffil%
227       \gdef\AB@las{} \gdef\AB@lasx{\protect\Authand} \gdef\AB@as{}%
228       \xdef\hep@endorsers{\the\temptokena\AB@blk@and}%
229     \else%
230       \xdef\hep@endorsers{\the\temptokena\AB@as\AB@au@str}%
231       \global\let\AB@las\AB@lasx \gdef\AB@lasx{\protect\Authands}%
232       \gdef\AB@as{\Authsep}%
233     \fi%
234     \gdef\AB@au@str{#2}%
235   }%
236   \temptokena=\expandafter{\hep@endorserlist}%
237   \let\\=\endorsercr%
238   \xdef\hep@endorserlist{%
239     \the\temptokena%
240     \protect\@nameuse{hep@endorser@sep\number\c@endorsers}%
241     \protect\Authfont#2%
242     \if\relax#1\relax\else%
243       \protect\hep@multi@ref{\AB@note}%
244     \fi%
245   }%
246   \endgroup%

```

```

247 \ifnum\value{endorsers}>2\relax%
248   \c@namedef{hep@endorser@sep\number\c@endorsers}{\Authands}%
249 \fi%
250 \newaffilfalse%
251 }

\endorserfont
\preendorser
\postendorser 252 \let\hep@endorser@font\relax
253 \def\endorserfont#1{\def\hep@endorser@font{#1}}
254 \newcommand{\preendorser}[1]{\def\hep@pre@endorser{#1}}
255 \newcommand{\postendorser}[1]{\def\hep@post@endorser{#1}}
256 \def\endorseritle#1#2{
257   \def\hep@endorser@title{#1}
258   \def\hep@endorser@title@pl{#2}
259 }

\endorseritlefont
\preendorseritle
\postendorseritle 260 \def\endorseritlefont#1{\def\hep@endorser@title@font{#1}}
261 \newcommand{\preendorseritle}[1]{\def\hep@pre@endorser@title{#1}}
262 \newcommand{\postendorseritle}[1]{\def\hep@post@endorser@title{#1}}
263 \endorseritle{Endorser}{Endorsers}
264 \endorseritlefont{\itshape}
265 \preendorseritle{\hep@endorser@title@font}
266 \postendorseritle{::}
267 \preendorser{%
268   \begin{center}%
269     \large\hep@endorser@font\lineskip.5em%
270     \begin{tabular}[t]{c}%
271       \hep@pre@endorser@title%
272       \ifnum\value{endorsers}>1\relax%
273         \hep@endorser@title@pl%
274       \else%
275         \hep@endorser@title%
276       \fi%
277       \hep@post@endorser@title%
278     }%
279   }%
280 \postendorser{\end{tabular}\par\end{center}}

```

A.2.4 Affiliation

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

```

281 \newcounter{affiliation}
282 \renewcommand{\theaffiliation}{%
283   \textsuperscript{\normalfont\alph{affiliation}}%
284 }
285 \xpatchcmd{\affil}{%

```

```

286   \AB@affilnote{\AB@note}%
287 }{%
288   \protect\refstepcounter{affiliation}\protect\label{\AB@note}%
289   \ifrelax#1\relax\else\protect\ref{\AB@note}\fi%
290 }{}{}
```

\affiliationfont Allow to change the fontface of affiliation.

```

291 \let\hep@affiliation@font\relax
292 \newcommand{\affiliationfont}[1]{\def\hep@affiliation@font{#1}}
293 % \newif\ifhep@lining\hep@liningtrue
294 % \ifhep@lining
295   \renewcommand{\Affilfont}{\small\hep@affiliation@font}
296 % \else
297 %   \renewcommand{\Affilfont}{\small\ostyle\hep@affiliation@font}
298 % \fi
```

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

```

299 \newcommand\hep@penalty{\if@twocolumn85\else50\fi}
300 \newcommand\hep@active@comma{,\penalty-\hep@penalty\relax}
301 \newcommand\hep@cat@comma@active{\catcode`\,,\active}
302 {\hep@cat@comma@active\gdef,{\hep@active@comma}}
303 \newcommand\hep@affil[1]{%
304   \endgroup\@flushglue=0pt plus .5\linewidth\affil{#1}%
305 }
306 \def\hep@affil@opt[#1]#2{%
307   \endgroup\@flushglue=0pt plus .5\linewidth\affil[#1]{#2}%
308 }
309 \DeclareRobustCommand\hep@affiliation{%
310   \@ifnextchar[{\hep@affil@opt}{\hep@affil}%
311 }
312 \newcommand{\affiliation}{%
313   \begingroup\hep@cat@comma@active\hep@affiliation%
314 }
```

Place endorser and affiliation

```

315 \renewcommand{\maketitlehookc}{%
316   \ifx\hep@endorserlist\AB@empty\else%
317     \hep@pre@endorser\hep@endorserlist\hep@post@endorser%
318   \fi
319 %   \\[\affilsep]
320   \ifx\AB@affillist\AB@empty\else%
321     \begin{center}\AB@affillist\end{center}%
322   \fi%
323 }
```

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

```

324 \def\@author{}
325 \renewcommand\@author{%
326   \ifx\AB@affillist\AB@empty%
327     \AB@author%
328   \else%
329     \ifnum\value{affil}>\value{Maxaffil}%
330       \def\rlap##1{##1}%
331       \AB@authlist%
332     \else%
333       \AB@authors%
334     \fi%
335   \fi%
336 }
337 }
```

A.3 Date and Abstract

A.3.1 Date

`\date` Allow absent date field.

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

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

```

339 \let\hep@date@font\relax
340 \newcommand{\datefont}[1]{\def\hep@date@font{\#1}}
```

Set the default `date` fontface.

```

341 \predate{\begin{center}\hep@date@font}
342 \postdate{\par\end{center}}
```

A.3.2 Abstract

`abstract` Adjust the `abstract` environment to not start with indentation.

```

343 \@ifundefined{abstract}{}{%
344   \let\hep@abstract\abstract%
345   \renewcommand\abstract{\hep@abstract\noindent\ignorespaces}%
}
```

`abstract*` Add a `abstract*` environment for two column mode taking also care of placing the title using the ENVIRON [6] and ABSTRACT [7] packages.

```

346 \if@twocolumn
347   \RequirePackage{environ}
348   \RequirePackage{abstract}
349   \renewcommand{\abstitleskip}{-3ex}
350   \NewEnviron{abstract*}{%
351     \twocolumn[\maketitle\vspace{-5ex}%
352     \begin{onecolabstract}\noindent\BODY\end{onecolabstract}]%
```

```

353      \vspace{.5cm}]\saythanks%
354  }%
355 \else
356   \newenvironment{abstract*}{%
357     \maketitle\begin{abstract}%
358   }{%
359     \end{abstract}%
360   }
361 \fi
362 }

```

A.4 Thanks

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

```

363 \let\hep@thanks\thanks
364 \AtEndDocument{\let\thanks\hep@thanks}
365 \DeclareRobustCommand\thanks[2][]{%
366   \AfterEndPreamble{%
367     \if\relax#1\relax%
368       \footnotemark%
369     \else%
370       \renewcommand\thefootnote{\textsuperscript{\@fnsymbol\c@footnote}}%
371       \protect\refstepcounter{footnote}\protect\label{#1}%
372       \renewcommand\thefootnote{\@arabic\c@footnote}%
373     \fi%
374     \protected@xdef\@thanks{%
375       \@thanks\protect\footnotetext[\the\c@footnote]{#2}%
376     }%
377     \if@twocolumn
378       \protected@xdef\@bs@thanks{%
379         \@bs@thanks\protect\footnotetext[\the\c@footnote]{#2}%
380       }%
381     \fi%
382   }%
383 }

```

</package>

B Test

```

<*testone|testtwo>

384 %<testone>\documentclass{article}
385 %<testtwo>\documentclass[twocolumn]{article}
386
387 %% \usepackage[lang=english]{hep-paper}
388 \usepackage[math]{blindtext}
389 \usepackage{hep-title}
390 \usepackage{hyperref}

```

```

391 \def\BackrefFootnoteTag{}\usepackage{footnotebackref}
392
393 \preprint{Preprint}
394
395 \series{Series}
396
397 \title{Title}
398
399 \subtitle{Subtitle}
400
401 \editor[one]{First Editor}
402 \editor[one,two,second]{Second Editor}
403 \email[second]{second@mail.com}
404 \editor[one,two,three]{Third Editor \email{third@mail.com}}
405
406 \author[three,four]{First Author}
407 \author[fourth, two,four,thanks]{Second Author}
408 \email[fourth]{fifth@mail.com}
409 \thanks[thanks]{Thanks}
410 \author[two,three,four]{Third Author \email{sixth@mail.com}}
411 \author{Fourth Author}
412
413 \endorser[four]{First Endorser}
414 \endorser[five]{Second Endorser}
415 \endorser{Third Endorser}
416
417 \affiliation[one]{First Affiliation}
418 \affiliation[two]{Second Affiliation}
419 \affiliation[three]{Third Affiliation}
420 \affiliation[four]{Fourth Affiliation}
421 \affiliation[five]{Fifth Affiliation}
422
423 \date{Date}
424
425 \begin{document}
426
427 %<testone> \maketitle
428
429 %<testone> \begin{abstract}
430 %<testtwo> \begin{abstract*}
431 \blindtext
432 %<testone> \end{abstract}
433 %<testtwo> \end{abstract*}
434
435 First page footnote.\footnote{Footnote}
436
437 \blinddocument
438
439 \end{document}

```

```
</testone|testtwo>
```

C Readme

```
<*readme>

440 # The ‘hep-title’ package
441
442 Extensions for the title page
443
444 ## Introduction
445
446 The ‘hep-title’ package extends the title macros of the standard classes with macros for
447
448 To use the ‘hep-title’ package include it with ‘\usepackage{hep-title}’.
449
450 ## Author
451
452 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
```



```
</readme>
```

References

- [1] P. R. Wilson. ‘The `titling` package: Control over the typesetting of the `\maketitle` command’ (2000). CTAN: `titling`.
- [2] P. W. Daly. ‘A L^AT_EX Package to Prepare Author and Affiliation Blocks: Support for footnote style author/affiliation’ (2001). CTAN: `authblk`.
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