

The HEP-BIBLIOGRAPHY package*

Bibliographies for high energy physics

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Abstract

The HEP-BIBLIOGRAPHY package configures BIBLATEX for high-energy physics publications. It adds the INSPIREHEP data fields used in HEP bibliographies, citation back-links from bibliography labels, source maps for common BibTeX variants, erratum handling, and eprint formats for arXiv, PubMed, code-hosting, and package repositories.

The package can be loaded via `\usepackage{hep-bibliography}`.

style The `style=<name>` option selects the BIBLATEX style passed to `\RequirePackage{biblatex}`. The default is `numeric-comp`.

`\bibliography` The BIBLATEX package [1] is loaded for bibliography management. The user has to add the line `\bibliography{<my.bib>}` to the preamble of the document and `\printbibliography` at the end of the document. The bibliography is generated by BIBER [2]. `biblatex` is extended to read the `collaboration` and `reportNumber` fields provided by inspirehep.net, to normalise selected volume, issue, URL, and PubMed data, and to link bibliography labels back to the first citation. Additionally, arXiv, PubMed, PubMed Central, ctan.org, github.com, gitlab.com, bitbucket.org, launchpad.net, sourceforge.net, and hepforge.org are valid `eprinttypes`.

`\online` The `\online{<url>}{<text>}` macro prints link text that becomes a hyperlink if `HYPERRREF` is loaded. The `\email{<address>}` macro is a mail link wrapper using the same fallback.

`\email`

`commalist (env.)` The `commalist` environment typesets `\item`-separated entries as a comma-separated list with a final ‘and’.

erratum Errata can be included using the `related` feature.

```
\article{key1,
  ...,
  relatedtype="erratum",
  related="key2",
}
\article{key2,
  ...,
}
```

A Implementation

<*package>

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

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Load the KVOPTIONS package [3] and define a **hepbib** namespace.

```
1 \RequirePackage{kvoptions}
2 \SetupKeyvalOptions{
3   family=hepbib,
4   prefix=hepbib@
5 }
```

bibliography Provide the `style` option for passing a style string to the BIBLATEX package [1] or disabling the automatic loading of `biblatex`.

```
6 \DeclareStringOption[numeric-comp]{style}
7 \ProcessKeyvalOptions*
```

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

```
8 \providecommand*\online}[2]{\texttt{#2}}%
9 \providecommand*\hep@email[1]{\online{mailto:#1}{#1}}
10 \providecommand*\email{\hep@email}
11 \AtBeginDocument{\@ifpackageloaded{hyperref}{%
12   \renewcommand*\online}[2]{\href{#1}{\nolinkurl{#2}}}%
13 }{}
14 }
```

commalist (*env.*) Define a `commalist` environment using the `xparse` package [4].

```
15 \RequirePackage{xparse}
16 \ExplSyntaxOn
17 \NewDocumentEnvironment{commalist}{0{\space}+b}{
18   \hep@comma@list:n{#2}
19 }{#1}
20 \seq_new:N \hep@items@sequence
21 \cs_new_protected:Npn \hep@comma@list:n #1{
22   \seq_set_split:Nnn \hep@items@sequence{\item}{#1}
23   \seq_pop_left:NN \hep@items@sequence \l_tmpa_tl
24   \seq_use:Nnnn \hep@items@sequence{~and~}{,~}{,~and~}
25 }
26 \ExplSyntaxOff
```

\bibliography Load the BIBLATEX package [1] with the `datamodel` defined in section B.

```
27 \PassOptionsToPackage{
28   style=\hepbib@style,
29   datamodel=hep-bibliography
30 }{biblatex}
31 \RequirePackage{biblatex}
```

hep-bibliography Provide the `\DeclareSortingTemplate` macro for older `biblatex` installations. Define a new sorting template that sorts only multi key `\cite` entries according to their date and leaves the rest of the bibliography entries in the order they appear in the text.

```

32 \providecommand*\DeclareSortingTemplate{\DeclareSortingScheme}
33 \DeclareSortingTemplate{hep-bibliography}{
34   \sort{\citeorder}
35   \sort[final]{\field{sortkey}}
36   \sort{\field{sortyear} \field{year} \literal{9999}}
37   \sort{\field{month}}
38   \sort{\field{eprint} \field{doi}}
39   \sort{\field{sorttitle} \field{title}}
40   \sort{\field{subtitle} \field{volume}}
41 }

```

Use the new sorting scheme and abbreviat all first names.

```

42 \ExecuteBibliographyOptions{
43   sorting=hep-bibliography,
44   safeinputenc,
45   giveninits=true,
46   maxbibnames=7,
47 }

```

Redefine the `pages` field such that leading zeros are stripped from the page numbers.

```

48 \newcommand*\hep@strip@zero[1]{\expandafter\hep@strip@zero@helper#1}
49 \newcommand*\hep@strip@zero@helper[1]{%
50   \ifx0#1\expandafter\hep@strip@zero@helper\else#1\fi%
51 }
52 \DeclareFieldFormat{pages}{%
53   \mkpageprefix[bookpagination][{\mknormrange[][\hep@strip@zero]}]{#1}%
54 }

```

Define an internal `bibhypertarget`.

```

55 \DeclareFieldFormat{bibhypertarget}{%
56   \bibhypertarget{\thefield{entrykey}:\the\value{instcount}}{#1}%
57 }

```

Redefine the citation command to set the `bibhypertarget` and call the `cite:save` macro.

```

58 \renewbibmacro*{cite:comp}{%
59   \printtext[bibhypertarget]{%
60     \stepcounter{cbx@tempcntb}%
61     \iffieldundef{shorthand}{%
62       \ifbool{bbx:subentry}{%
63         \iffieldundef{entrysetcount}{%
64           \usebibmacro{cite:comp:comp}}{\usebibmacro{cite:comp:inset}}%
65         }%
66       }{\usebibmacro{cite:comp:comp}}%
67     }{\usebibmacro{cite:comp:shand}}%
68   }%
69   \usebibmacro{cite:save}%
70 }

```

Define the cite:safe macro

```
71 \newbibmacro*{cite:safe}{%
72   \ifcsundef{cbx@\thefield{entrykey}}{%
73     \csxdef{cbx@\thefield{entrykey}}{\the\value{instcount}}%
74   }{%
75   }
```

Link from the bibliography to the first cite.

```
76 \newbibmacro{cbx:linktofirstcite}[1]{%
77   \ifcsdef{cbx@\thefield{entrykey}}{%
78     \bibhyperlink{%
79       \thefield{entrykey}:\csuse{cbx@\thefield{entrykey}}%
80     }{#1}%
81   }{#1}%
82 }
```

Ensure table style numbers in the bibliography labels.

```
83 \providecommand*{\tstyle}{}
84 \DeclareFieldFormat{labelnumberwidth}{%
85   \usebibmacro{cbx:linktofirstcite}{\mkbibbrackets{\tstyle#1}}%
86 }
```

Deactivate counting during caption measurement.

```
87 \AtBeginDocument{\@ifpackageloaded{caption}{%
88   \g@addto@macro\caption@prepareslc{\let\blx@citeprint\relax}}{%
89 }
```

Shrink the bibliography in two column mode.

```
90 \if@twocolumn
91   \AtBeginBibliography{\small}
92   \setlength\biblabelsep{\labelsep}
93 \fi
```

translationof Redefine the translationof string to fit better to documents without a original title.

```
94 \DefineBibliographyStrings{english}{translationof={Original}}
```

erratum Add new bibliography string ‘Erratum’ for the use in the relatedtype field.

```
95 \NewBibliographyString{erratum,erratums}
96 \DefineBibliographyStrings{english}{erratum={Erratum},erratums={Errata}}
97 \providecommand*{\relateddelimerratum}{\addsemicolon\space}
```

Activate the Oxford comma when using british and separate title and subtitle with a colon.

```
98 \DefineBibliographyExtras{british}{\def\finalandcomma{\addcomma}}
99 \renewcommand*{\subtitlepunct}{\addcolon\addspace}
```

`\printbibliography` Allow the bibliography to be printed sloppy

```
100 % \let\hep@printbibliography\printbibliography
101 % \renewcommand*{\printbibliography}{\sloppy\hep@printbibliography}}
```

A.1 Sourcemap

`\hep@reg@exp@one` Define regular expressions in order to deal with inconsistent journal title and volume naming as well as uniform resource locator (URL) protocols and the PMCID.

```
\hep@reg@exp@two
\hep@reg@exp@url
\hep@reg@exp@pmc 102 \newcommand*{\hep@reg@exp@one}{\regexp{\A(\p{L}+)?\d+(\p{L}+)?\Z}}
103 \newcommand*{\hep@reg@exp@two}{\regexp{\A(\p{L}+)?(\d+)(\p{L}+)?\Z}}
104 \newcommand*{\hep@reg@exp@url}{\regexp{\A(ht|f)tp(s)?://\Z}}
105 \newcommand*{\hep@reg@exp@pmc}{\regexp{\A(PMC)?}}
```

`\DeclareSourcemap` Use the `\DeclareSourcemap` feature.

```
106 \DeclareSourcemap{%
107   \maps[datatype=bibtex, overwrite=true]{%
```

`collaboration` Read the collaboration information if present.

```
108   \map{%
109     \step[fieldsource=Collaboration, final=true]%
110     \step[fieldset=collaboration, origfieldval, final=true]
111   }%
```

`reportnumber` Read the pre-print information if present.

```
112   \map{%
113     \step[fieldsource=reportNumber, final=true]%
114     \step[fieldset=reportnumber, origfieldval, final=true]
115   }%
```

`journal` Move letters from the volume field to the journal field.

```
116   \map[overwrite]{
117     \pertype{article}
118     \step[fieldsource=volume, match=\hep@reg@exp@one, final]
119     \step[fieldsource=volume, match=\hep@reg@exp@two, replace={$2}]
120     \step[fieldsource=journal, fieldtarget=journaltitle]
121     \step[fieldset=journaltitle, fieldvalue={\space$1$2}, append=true]
122   }
```

`url` Remove the protocol from URL.

```
123   \map{
124     \step[fieldsource=url, final=true]
125     \step[fieldset=protocollessurl, origfieldval, final=true]
126     \step[fieldsource=protocollessurl,
127           match=\hep@reg@exp@url, replace={}]
128   }
```

pmc Remove the PMC from the PMCID.

```
129 \map{
130   \step[fieldsource=pmcid, final=true]
131   \step[fieldset=pmc, origfieldval, final=true]
132   \step[fieldsource=pmc, match=\hep@reg@exp@pmc, replace={}]
133 }
134 }%
135 }
```

\letbibmacro Provide the **\letbibmacro** macro for old biblatex installations.

```
136 \providecommand*{\letbibmacro}[2]{\csletcs{abx@macro@#1}{abx@macro@#2}}
```

collaboration Execute the author macro even if only the collaboration information is present and override the author information with collaboration information if present.

```
137 \renewbibmacro*{author/translator+others}{%
138   \ifboolexpr{
139     test \ifuseauthor and (
140       not test {\ifnameundef{author}} or
141       not test {\iffieldundef{collaboration}}
142     )
143   }
144   {\usebibmacro{author}}
145   {\usebibmacro{translator+others}}
146 }
147 \letbibmacro{hep@bib@author}{author}
148 \renewbibmacro*{author}{%
149   \iffieldundef{collaboration}{%
150     \usebibmacro{hep@bib@author}}{\textit{\printfield{collaboration}}}%
151   }%
152 }
```

In: Remove spurious ‘In:’ if no journal is present.

```
153 \renewbibmacro*{in:}{%
154   \iffieldundef{journaltitle}{\printtext{\bibstring{in}\intitlepunct}}%
155 }
```

reportnumber Print the **reportnumber** as commalist using the RELSIZE package [5].

```
156 \RequirePackage{relsize}
157 \DeclareFieldFormat{reportnumber}{%
158   \edef\commalistbody{\forcsvfield{
159     \egroup\noexpand\item\unexpanded{\bgroup\smaller[.5]\textsc}
160   }{reportnumber}}%
161   \expandafter\commalist\commalistbody\egroup\endcommalist%
162 }
```

url Show URLs without the protocol.

```

163 \DeclareFieldFormat{url}{%
164   \mkbibacro{URL}\addcolon\space\online{#1}{\thefield{protocollessurl}}%
165 }

```

\hep@bib@online Private \hep@bib@online macro

```

166 \newcommand*{\hep@bib@online}[2]{%
167   \ifhyperref{\online{#1}{#2}}{\nolinkurl{#2}}%
168 }

```

pmid Present PubMed IDs.

```

pmcid
169 \DeclareFieldFormat{pmid}{%
170   \mkbibacro{PM}\addcolon\space%
171   \hep@bib@online{https://www.ncbi.nlm.nih.gov/pubmed/#1}{#1}%
172 }
173 \DeclareFieldFormat{pmc}{%
174   \mkbibacro{PMC}\addcolon\space%
175   \hep@bib@online{https://www.ncbi.nlm.nih.gov/pmc/articles/PMC#1}{#1}%
176 }

```

pmcid Add the pre-print and PubMed information if present.

```

pmid
reportnumber 177 \letbibmacro{hep-doi+eprint+url}{doi+eprint+url}
178 \renewbibmacro*{doi+eprint+url}{%
179   \usebibmacro{hep-doi+eprint+url}
180   \iffieldundef{pmc}{%
181     \iffieldundef{pmid}{\printfield{pmid}\newunit}%
182   }\printfield{pmc}\newunit}
183 \iffieldundef{reportnumber}{\%
184   \newunitpunct\textnumero\intitlepunct%
185   \printfield{reportnumber}\newunit%
186 }%
187 }

```

A.2 Eprints

\hep@eprint Private \hep@eprint macro

```

188 \NewDocumentCommand{\hep@eprint}{smm}{
189   \DeclareFieldFormat{eprint:#2}{%
190     \newcommand*{\@path}{\IfBooleanT{#1}{\thefield{eprintclass}}/##1}%
191     #2\addcolon\space\hep@bib@online{#3/\@path}{\@path}%
192   }%
193 }

```

CDS Add CERN Document server as a eprint option

```

194 \hep@eprint{CDS}{https://cds.cern.ch/record}
195 \DeclareFieldAlias{eprint:cds}{eprint:CDS}

```

HEPData Add the repository for publication-related High-Energy Physics data as a eprint option

```
196 \hep@eprint{HEPData}{https://www.hepdata.net/record}  
197 \DeclareFieldAlias{eprint:hepdata}{eprint:HEPData}
```

CTAN Add CTAN as a eprint option

```
198 \hep@eprint{CTAN}{https://ctan.org/pkg}  
199 \DeclareFieldAlias{eprint:ctan}{eprint:CTAN}
```

GitHub Add GitHub as a eprint option

```
200 \hep@eprint*{GitHub}{https://github.com}  
201 \DeclareFieldAlias{eprint:github}{eprint:GitHub}
```

GitLab Add GitLab as a eprint option

```
202 \hep@eprint*{GitLab}{https://gitlab.com}  
203 \DeclareFieldAlias{eprint:gitlab}{eprint:GitLab}
```

Bitbucket Add Bitbucket as a eprint option

```
204 \hep@eprint*{Bitbucket}{https://bitbucket.org}  
205 \DeclareFieldAlias{eprint:bitbucket}{eprint:Bitbucket}
```

Launchpad Add Launchpad as a eprint option

```
206 \hep@eprint{Launchpad}{https://launchpad.net}  
207 \DeclareFieldAlias{eprint:launchpad}{eprint:Launchpad}
```

SourceForge Add SourceForge as a eprint option

```
208 \hep@eprint{SourceForge}{https://sourceforge.net/projects}  
209 \DeclareFieldAlias{eprint:sourceforge}{eprint:SourceForge}
```

HEPForge Add HEPForge as a eprint option

```
210 \DeclareFieldFormat{eprint:hepforge}{%  
211   HEPForge\addcolon\space\hep@bib@online{https://#1/hepforge.org}{#1}%  
212 }  
213 \DeclareFieldAlias{eprint:HEPForge}{eprint:hepforge}
```

Define bibstrings for reference names.

```
214 \NewBibliographyString{refname}  
215 \NewBibliographyString{refsname}  
216 \DefineBibliographyStrings{english}{%  
217   refname = {reference},  
218   refsname = {references}  
219 }
```

```

\ccite Define clever citation macros.
\Ccite
220 \DeclareCiteCommand{\ccite}{\%
221   \ifnum\thecitetotal=1
222     \bibstring{refname}%
223   \else%
224     \bibstring{refsnam}%
225   \fi%
226   \addnbspace\bibopenbracket%
227   \usebibmacro{cite:init}\usebibmacro{prenote}%
228 }{\usebibmacro{cite:index}\usebibmacro{cite:comp}}{\%
229   \usebibmacro{cite:dump}\usebibmacro{postnote}%
230   \bibclosebracket%
231 }
232
233 \newrobustcmd*{\Ccite}{\bibsentence\ccite}

</package>

```

B Biblatex datamodel file

```

<*datamodel>

collaboration Define the dbx file containing the hep-bibliography datamodel.
pmid
pmcid 234 \DeclareDatamodelFields[type=field, datatype=literal]{
pmc 235   collaboration, pmid, pmcid, pmc,
reportnumber 236 }
protocollessurl 237 \DeclareDatamodelFields[type=field, format=xsv, datatype=literal]{
238   reportnumber,
239 }
240 \DeclareDatamodelFields[type=field, datatype=uri]{protocollessurl}
241 \DeclareDatamodelEntryfields{
242   collaboration, pmid, pmcid, pmc, reportnumber, protocollessurl,
243 }

</datamodel>

```

C Test

```

<*test>

244 \documentclass[twocolumn,a4paper]{article}
245
246 \usepackage{hep-bibliography}
247
248 \begin{filecontents}{\jobname.bib}
249 @article{Ade:2015xua,
250   author = "Ade, P. A. R. and others",
251   collaboration = "Planck",

```

```

252     title = "{Planck 2015 results. XIII. Cosmological parameters}",
253     eprint = "1502.01589",
254     archivePrefix = "arXiv",
255     primaryClass = "astro-ph.CO",
256     doi = "10.1051/0004-6361/201525830",
257     journal = "Astron. Astrophys.",
258     volume = "594",
259     pages = "A13",
260     year = "2016"
261 }
262
263 @article{Agashe:2014kda,
264     author = "Olive, K. A. and others",
265     collaboration = "Particle Data Group",
266     title = "{Review of Particle Physics}",
267     doi = "10.1088/1674-1137/38/9/090001",
268     journal = "Chin. Phys. C",
269     volume = "38",
270     pages = "090001",
271     year = "2014"
272 }
273
274 @article{Ade:2013zuv,
275     author = "Ade, P. A. R. and others",
276     collaboration = "Planck",
277     title = "{Planck 2013 results. XVI. Cosmological parameters}",
278     eprint = "1303.5076",
279     archivePrefix = "arXiv",
280     primaryClass = "astro-ph.CO",
281     reportNumber = "CERN-PH-TH-2013-129",
282     doi = "10.1051/0004-6361/201321591",
283     journal = "Astron. Astrophys.",
284     volume = "571",
285     pages = "A16",
286     year = "2014"
287 }
288
289 @article{Aad:2012tfa,
290     author = "Aad, Georges and others",
291     collaboration = "ATLAS",
292     title = "{Observation of a new particle in the search for
293 the Standard Model Higgs boson with the ATLAS detector at the LHC}",
294     eprint = "1207.7214",
295     archivePrefix = "arXiv",
296     primaryClass = "hep-ex",
297     reportNumber = "CERN-PH-EP-2012-218",
298     doi = "10.1016/j.physletb.2012.08.020",
299     journal = "Phys. Lett. B",
300     volume = "716",
301     pages = "1--29",

```

```

302     year = "2012"
303 }
304
305 @article{Chatrchyan:2012ufa,
306     author = "Chatrchyan, Serguei and others",
307     collaboration = "CMS",
308     title = "{Observation of a New Boson at a Mass of 125 GeV with the
309     CMS Experiment at the LHC}",
310     eprint = "1207.7235",
311     archivePrefix = "arXiv",
312     primaryClass = "hep-ex",
313     reportNumber = "CMS-HIG-12-028, CERN-PH-EP-2012-220",
314     doi = "10.1016/j.physletb.2012.08.021",
315     journal = "Phys. Lett. B",
316     volume = "716",
317     pages = "30--61",
318     year = "2012"
319 }
320
321 @article{Beringer:1900zz,
322     author = "Beringer, J. and others",
323     collaboration = "Particle Data Group",
324     title = "{Review of Particle Physics (RPP)}",
325     reportNumber = "SLAC-REPRINT-2014-001",
326     doi = "10.1103/PhysRevD.86.010001",
327     journal = "Phys. Rev. D",
328     volume = "86",
329     pages = "010001",
330     year = "2012"
331 }
332
333 @article{Chatrchyan:2008aa,
334     author = "Chatrchyan, S. and others",
335     collaboration = "CMS",
336     title = "{The CMS Experiment at the CERN LHC}",
337     doi = "10.1088/1748-0221/3/08/S08004",
338     journal = "JINST",
339     volume = "3",
340     pages = "S08004",
341     year = "2008"
342 }
343
344 @article{Cacciari:2008gp,
345     author = "Cacciari, Matteo and Salam, Gavin P. and Soyez, Gregory",
346     title = "{The anti- $k_t$  jet clustering algorithm}",
347     eprint = "0802.1189",
348     archivePrefix = "arXiv",
349     primaryClass = "hep-ph",
350     reportNumber = "LPTHE-07-03",
351     doi = "10.1088/1126-6708/2008/04/063",

```

```

352     journal = "JHEP",
353     volume = "04",
354     pages = "063",
355     year = "2008"
356 }
357
358 @article{Aad:2008zzm,
359     author = "Aad, G. and others",
360     collaboration = "ATLAS",
361     title = "{The ATLAS Experiment at the CERN Large Hadron Collider}",
362     doi = "10.1088/1748-0221/3/08/S08003",
363     journal = "JINST",
364     volume = "3",
365     pages = "S08003",
366     year = "2008"
367 }
368
369 @article{Sjostrand:2006za,
370     author = "Sjostrand, Torbjorn and Mrenna, Stephen
371     and Skands, Peter Z.",
372     title = "{PYTHIA 6.4 Physics and Manual}",
373     eprint = "hep-ph/0603175",
374     archivePrefix = "arXiv",
375     reportNumber = "FERMILAB-PUB-06-052-CD-T, LU-TP-06-13",
376     doi = "10.1088/1126-6708/2006/05/026",
377     journal = "JHEP",
378     volume = "05",
379     pages = "026",
380     year = "2006"
381 }
382
383 @article{Spergel:2003cb,
384     author = "Spergel, D. N. and others",
385     collaboration = "WMAP",
386     title = "{First year Wilkinson Microwave Anisotropy Probe (WMAP)
387     observations: Determination of cosmological parameters}",
388     eprint = "astro-ph/0302209",
389     archivePrefix = "arXiv",
390     doi = "10.1086/377226",
391     journal = "Astrophys. J. Suppl.",
392     volume = "148",
393     pages = "175--194",
394     year = "2003"
395 }
396
397 @article{Agostinelli:2002hh,
398     author = "Agostinelli, S. and others",
399     collaboration = "GEANT4",
400     title = "{GEANT4--a simulation toolkit}",
401     reportNumber = "SLAC-PUB-9350, FERMILAB-PUB-03-339,

```

```

402     CERN-IT-2002-003",
403     doi = "10.1016/S0168-9002(03)01368-8",
404     journal = "Nucl. Instrum. Meth. A",
405     volume = "506",
406     pages = "250--303",
407     year = "2003"
408 }
409
410 @article{Randall:1999ee,
411     author = "Randall, Lisa and Sundrum, Raman",
412     title = "{A Large mass hierarchy from a small extra dimension}",
413     eprint = "hep-ph/9905221",
414     archivePrefix = "arXiv",
415     reportNumber = "MIT-CTP-2860, PUPT-1860, BUHEP-99-9",
416     doi = "10.1103/PhysRevLett.83.3370",
417     journal = "Phys. Rev. Lett.",
418     volume = "83",
419     pages = "3370--3373",
420     year = "1999"
421 }
422
423 @article{Perlmutter:1998np,
424     author = "Perlmutter, S. and others",
425     collaboration = "Supernova Cosmology Project",
426     title = "{Measurements of  $\Omega$  and  $\Lambda$  from 42 high",
427     redshift supernovae}",
428     eprint = "astro-ph/9812133",
429     archivePrefix = "arXiv",
430     reportNumber = "LBNL-41801, LBL-41801",
431     doi = "10.1086/307221",
432     journal = "Astrophys. J.",
433     volume = "517",
434     pages = "565--586",
435     year = "1999"
436 }
437
438 @article{Riess:1998cb,
439     author = "Riess, Adam G. and others",
440     collaboration = "Supernova Search Team",
441     title = "{Observational evidence from supernovae for an accelerating",
442     universe and a cosmological constant}",
443     eprint = "astro-ph/9805201",
444     archivePrefix = "arXiv",
445     doi = "10.1086/300499",
446     journal = "Astron. J.",
447     volume = "116",
448     pages = "1009--1038",
449     year = "1998"
450 }
451

```

```

452 @article{Witten:1998qj,
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458     doi = "10.4310/ATMP.1998.v2.n2.a2",
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467     and Polyakov, Alexander M.",
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472     doi = "10.1016/S0370-2693(98)00377-3",
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495     and Davis, Marc",
496     title = "{Maps of dust IR emission for use in estimation
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500     doi = "10.1086/305772",
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515     volume = "23",
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521     author = "Altarelli, Guido and Parisi, G.",
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D Readme

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<*readme>

633 # The 'hep-bibliography' package
634
635 Bibliographies for high energy physics
636
637 ## Introduction
638
639 The 'hep-bibliography' package configures 'biblatex' for high-energy
640 physics publications. It adds the 'InspireHEP' data fields used in HEP
641 bibliographies, source maps for common BibTeX variants, citation
642 back-links from bibliography labels, erratum handling, and eprint formats
643 for arXiv, PubMed, PubMed Central, code-hosting sites, and package
644 repositories.

```

645
646 The package can be loaded via ‘\usepackage{hep-bibliography}’.
647
648 ## Author
649
650 Jan Hajer
651
652 ## License
653
654 This file may be distributed and/or modified under the conditions of the
655 ‘LaTeX’ Project Public License, either version 1.3c of this license or
656 (at your option) any later version. The latest version of this license is
657 in ‘http://www.latex-project.org/lppl.txt’ and version 1.3c or later is
658 part of all distributions of LaTeX version 2005/12/01 or later.

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Change History

v1.0	General: Created the dedicated biblatex package with InspireHEP fields, source maps, errata handling, citation back-links, and HEP e-print formats. 1	formatting. 1
v1.1	General: Passed biblatex options before loading the package and corrected the SourceForge e-print alias. 1	v1.3 General: Stopped globally wrapping \printbibliography in \sloppy and restored release metadata. 1
v1.2	General: Reworked bibliography back-links through citation targets, stripped leading zeros from page ranges, namespaced source-map and e-print helpers, added CDS and HEPData e-print formats, and refreshed documentation and README	v1.4 General: Applied starred command definitions consistently and expanded the bibliography test entry. 1
		v1.5 General: Raised the LaTeX format requirement, bumped release metadata, and expanded the abstract, user documentation, README, and examples to cover bibliography setup, InspireHEP fields, source maps, back-links, e-print formats, and errata. . . 1