

# The HEP-BIBLIOGRAPHY package\*

## Bibliographies for high energy physics

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### Abstract

The HEP-BIBLIOGRAPHY package extends the BIBLATEX package with some functionality mostly useful for high energy physics. In particular it makes full use of all `bibtex` fields provided by `inspirehep.net`.

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

`\bibliography` The BIBLATEX package [1] is loaded for bibliography management. The user has  
`\printbibliography` 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 be able to cope with the `collaboration` and  
`reportNumber` fields provided by `inspirehep.net` and a bug in the volume number  
is fixed. Additionally, the PubMed IDs are recognized and `ctan.org`, `github.com`,  
`gitlab.com`, `bitbucket.org`, `launchpad.net`, `sourceforge.net`, and `hepforge.org` are  
erratum valid `eprinttypes`. Errata can be included using the `related` feature.

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

## A Implementation

<\*package>

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

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

---

\*This document corresponds to HEP-BIBLIOGRAPHY v1.0.

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```
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 `\email` `\url` 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{\ifpackageeloaded{hyperref}{%
12   \renewcommand{\online}[2]{\href{#1}{\nolinkurl{#2}}}%
13 }{}}
14 }
```

**commalist** 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 appendix B.

```
27 \RequirePackage[style=\hepbib@style, datamodel=hep-bibliography]{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.

```
28 \providecommand{\DeclareSortingTemplate}{\DeclareSortingScheme}
29 \DeclareSortingTemplate{hep-bibliography}{
30   \sort{\citeorder}
31   \sort[final]{\field{sortkey}}
32   \sort{\field{sortyear} \field{year} \literal{9999}}
33   \sort{\field{month}}
34   \sort{\field{eprint} \field{doi}}
```

```

35 \sort{\field{sorttitle} \field{title}}
36 \sort{\field{subtitle} \field{volume}}
37 }

```

Use the new sorting scheme and abbreviat all first names.

```

38 \ExecuteBibliographyOptions{
39   sorting=hep-bibliography,
40   safeinputenc,
41   giveninits=true,
42   maxbibnames=7,
43   backref=true
44 }

```

Hide the backrefs but use the information to link the index to the page of first citation.

```

45 \renewbibmacro*{pageref}{}%
46 \def\blxjk@grabfirslittitem#1#2\@nil{#1}
47 \DeclareFieldFormat{labelnumberwidth}{%
48   \iflistundef{pageref}{%
49     \mkbibbrackets{#1}%
50   }{%
51     \edef\blxjk@firstpage{%
52       \expandafter\blxjk@grabfirslittitem\abx@list@pageref}\@nil%
53     }%
54     \ifhyperref{%
55       \hyperlink{page.\blxjk@firstpage}{\mkbibbrackets{#1}}%
56     }{%
57       \mkbibbrackets{#1}%
58     }%
59   }%
60 }

```

Shrink the bibliography in two column mode.

```

61 % \newif\ifhep@journal\hep@journalfalse
62 % \ifhep@journal\else
63 % \if@twocolumn
64 % \AtBeginBibliography{\small}
65 % \setlength\biblabeledsep{\labelsep}
66 % \fi
67 % \fi

```

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

```

68 \DefineBibliographyStrings{english}{translationof={Original}}

```

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

```

69 \NewBibliographyString{erratum,erratums}
70 \DefineBibliographyStrings{english}{erratum={Erratum},erratums={Errata}}

```

```
71 \providecommand{\relateddelimerratum}{\addsemicolon\space}
```

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

```
72 \DefineBibliographyExtras{british}{\def\finalandcomma{\addcomma}}
73 \renewcommand{\subtitlepunct}{\addcolon\addspace}
```

`\printbibliography` Allow the bibliography to be printed sloppy

```
74 \let\hep@printbibliography\printbibliography
75 \renewcommand{\printbibliography}{\sloppy\hep@printbibliography}
```

## A.1 Sourcemap

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

```
\reg@exp@url
\reg@exp@pmc
76 \newcommand{\reg@exp@one}{\regexp{\A(\p{L}+)?\d+(\p{L}+)?\Z}}
77 \newcommand{\reg@exp@two}{\regexp{\A(\p{L}+)?(\d+)(\p{L}+)?\Z}}
78 \newcommand{\reg@exp@url}{\regexp{\A(ht|f)tp(s)?:\/\}/}}
79 \newcommand{\reg@exp@pmc}{\regexp{\A(PMC)?}}
```

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

```
80 \DeclareSourcemap{%
81   \maps[datatype=bibtex, overwrite=true]{%
```

`collaboration` Read the collaboration information if present.

```
82   \map{%
83     \step[fieldsource=Collaboration, final=true]%
84     \step[fieldset=collaboration, origfieldval, final=true]
85   }%
```

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

```
86   \map{%
87     \step[fieldsource=reportNumber, final=true]%
88     \step[fieldset=reportnumber, origfieldval, final=true]
89   }%
```

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

```
90   \map[overwrite]{
91     \pertype{article}
92     \step[fieldsource=volume, match=\reg@exp@one, final]
93     \step[fieldsource=volume, match=\reg@exp@two, replace={\$2}]
94     \step[fieldsource=journal, fieldtarget=journaltitle]
95     \step[fieldset=journaltitle, fieldvalue={\space\$1\$2}, append=true]
96   }
```

url Remove the protocol from URL.

```
97   \map{
98     \step[fieldsource=url, final=true]
99     \step[fieldset=protocollessurl, origfieldval, final=true]
100    \step[fieldsource=protocollessurl, match=\reg@exp@url, replace={}]
101  }
```

pmc Remove the PMC from the PMCID.

```
102   \map{
103     \step[fieldsource=pmcid, final=true]
104     \step[fieldset=pmc, origfieldval, final=true]
105     \step[fieldsource=pmc, match=\reg@exp@pmc, replace={}]
106   }
107 }%
108 }
```

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

```
109 \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.

```
110 \renewbibmacro*{author/translator+others}{%
111   \ifboolexpr{
112     test \ifuseauthor and (
113       not test {\ifnameundef{author}} or
114       not test {\iffieldundef{collaboration}}
115     )
116   }
117   {\usebibmacro{author}}
118   {\usebibmacro{translator+others}}
119 }
120 \letbibmacro{hep@bib@author}{author}
121 \renewbibmacro*{author}{%
122   \iffieldundef{collaboration}{%
123     \usebibmacro{hep@bib@author}}{\textit{\printfield{collaboration}}}%
124   }%
125 }
```

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

```
126 \renewbibmacro*{in:}{%
127   \iffieldundef{journaltitle}{\printtext{\bibstring{in}\intitlepunct}}%
128 }
```

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

```

129 \RequirePackage{relsize}
130 \DeclareFieldFormat{reportnumber}{%
131   \edef\commalistbody{\forcsvfield{%
132     \egroup\noexpand\item\unexpanded{\bgroup\smaller[.5]\textsc}
133   }{reportnumber}}}%
134 \expandafter\commalist\commalistbody\egroup\endcommalist%
135 }

```

url Show URLs without the protocol.

```

136 \DeclareFieldFormat{url}{%
137   \mkbibacro{URL}\addcolon\space\online{#1}{\thefield{protocollessurl}}%
138 }

```

`\bib@online` Private `\bib@online` macro

```

139 \newcommand{\bib@online}[2]{%
140   \ifhyperref{\online{#1}{#2}}{\nolinkurl{#2}}%
141 }

```

pmid Present PubMed IDs.

pmcid

```

142 \DeclareFieldFormat{pmid}{%
143   \mkbibacro{PM}\addcolon\space%
144   \bib@online{https://www.ncbi.nlm.nih.gov/pubmed/#1}{#1}%
145 }
146 \DeclareFieldFormat{pmc}{%
147   \mkbibacro{PMC}\addcolon\space%
148   \bib@online{https://www.ncbi.nlm.nih.gov/pmc/articles/PMC#1}{#1}%
149 }

```

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

pmid

reportnumber

```

150 \letbibmacro{hep-doi+eprint+url}{doi+eprint+url}
151 \renewbibmacro*{doi+eprint+url}{%
152   \usebibmacro{hep-doi+eprint+url}
153   \iffieldundef{pmc}{%
154     \iffieldundef{pmid}{}{\printfield{pmid}\newunit}%
155   }{\printfield{pmc}\newunit}
156   \iffieldundef{reportnumber}{}{%
157     \newunitpunct\textnumero\intitlepunct%
158     \printfield{reportnumber}\newunit%
159   }%
160 }

```

## A.2 Eprints

`\new@eprint` Private `\new@eprint` macro

```

161 \NewDocumentCommand{\new@eprint}{smm}{

```

```

162 \DeclareFieldFormat{eprint:#2}{%
163   \newcommand{\@path}{\IfBooleanT{#1}{\thefield{eprintclass}/}##1}%
164   #2\addcolon\space\bib@online{#3/\@path}{\@path}%
165 }%
166 }

```

CTAN Add CTAN as a eprint option

```

167 \new@eprint{CTAN}{https://ctan.org/pkg}
168 \DeclareFieldAlias{eprint:ctan}{eprint:CTAN}

```

GitHub Add GitHub as a eprint option

```

169 \new@eprint*{GitHub}{https://github.com}
170 \DeclareFieldAlias{eprint:github}{eprint:GitHub}

```

GitLab Add GitLab as a eprint option

```

171 \new@eprint*{GitLab}{https://gitlab.com}
172 \DeclareFieldAlias{eprint:gitlab}{eprint:GitLab}

```

Bitbucket Add Bitbucket as a eprint option

```

173 \new@eprint*{Bitbucket}{https://bitbucket.org}
174 \DeclareFieldAlias{eprint:bitbucket}{eprint:Bitbucket}

```

Launchpad Add Launchpad as a eprint option

```

175 \new@eprint{Launchpad}{https://launchpad.net}
176 \DeclareFieldAlias{eprint:launchpad}{eprint:Launchpad}

```

SourceForge Add SourceForge as a eprint option

```

177 \new@eprint{SourceForge}{https://sourceforge.net/projects}
178 \DeclareFieldAlias{eprint:launchpad}{eprint:SourceForge}

```

HEPForge Add HEPForge as a eprint option

```

179 \DeclareFieldFormat{eprint:hepforge}{%
180   HEPForge\addcolon\space\bib@online{https://#1/hepforge.org}{#1}%
181 }
182 \DeclareFieldAlias{eprint:HEPForge}{eprint:hepforge}

```

Define bibstrings for reference names.

```

183 \NewBibliographyString{refname}
184 \NewBibliographyString{refsname}
185 \DefineBibliographyStrings{english}{%
186   refname = {reference},
187   refsname = {references}
188 }

```

```

\ccite Define clever citation macros.
\Ccite
189 \DeclareCiteCommand{\ccite}{%
190   \ifnum\thecitetotal=1
191     \bibstring{refname}%
192   \else%
193     \bibstring{refsname}%
194   \fi%
195   \addnbspace\bibopenbracket%
196   \usebibmacro{cite:init}\usebibmacro{prenote}%
197 }{\usebibmacro{cite:index}\usebibmacro{cite:comp}}{}{%
198   \usebibmacro{cite:dump}\usebibmacro{postnote}%
199   \bibclosebracket%
200 }
201
202 \newrobustcmd*{\Ccite}{\bibsentence\ccite}

</package>

```

## B Biblatex datamodel file

```

<*datamodel>

collaboration Define the dbx file containing the hep-bibliography datamodel.
  pmid
  pmcid
  pmc
reportnumber
protocollessurl
203 \DeclareDatamodelFields[type=field, datatype=literal]{
204   collaboration, pmid, pmcid, pmc,
205 }
206 \DeclareDatamodelFields[type=field, format=xsv, datatype=literal]{
207   reportnumber,
208 }
209 \DeclareDatamodelFields[type=field, datatype=uri]{protocollessurl}
210 \DeclareDatamodelEntryfields{
211   collaboration, pmid, pmcid, pmc, reportnumber, protocollessurl,
212 }

</datamodel>

```

## C Test

```

<*test>

213 \documentclass[twocolumn,a4paper]{article}
214
215 \usepackage{hep-bibliography}
216
217 \begin{filecontents}{\jobname.bib}
218 @article{Ade:2015xua,

```



```

219     author = "Ade, P. A. R. and others",
220     collaboration = "Planck",
221     title = "{Planck 2015 results. XIII. Cosmological parameters}",
222     eprint = "1502.01589",
223     archivePrefix = "arXiv",
224     primaryClass = "astro-ph.CO",
225     doi = "10.1051/0004-6361/201525830",
226     journal = "Astron. Astrophys.",
227     volume = "594",
228     pages = "A13",
229     year = "2016"
230 }
231
232 @article{Agashe:2014kda,
233     author = "Olive, K. A. and others",
234     collaboration = "Particle Data Group",
235     title = "{Review of Particle Physics}",
236     doi = "10.1088/1674-1137/38/9/090001",
237     journal = "Chin. Phys. C",
238     volume = "38",
239     pages = "090001",
240     year = "2014"
241 }
242
243 @article{Ade:2013zuv,
244     author = "Ade, P. A. R. and others",
245     collaboration = "Planck",
246     title = "{Planck 2013 results. XVI. Cosmological parameters}",
247     eprint = "1303.5076",
248     archivePrefix = "arXiv",
249     primaryClass = "astro-ph.CO",
250     reportNumber = "CERN-PH-TH-2013-129",
251     doi = "10.1051/0004-6361/201321591",
252     journal = "Astron. Astrophys.",
253     volume = "571",
254     pages = "A16",
255     year = "2014"
256 }
257
258 @article{Aad:2012tfa,
259     author = "Aad, Georges and others",
260     collaboration = "ATLAS",
261     title = "{Observation of a new particle in the search for the Standard Model Higgs boson with the ATLAS detector at the LHC}",
262     eprint = "1207.7214",
263     archivePrefix = "arXiv",
264     primaryClass = "hep-ex",
265     reportNumber = "CERN-PH-EP-2012-218",
266     doi = "10.1016/j.physletb.2012.08.020",
267     journal = "Phys. Lett. B",
268     volume = "716",

```

```

269     pages = "1--29",
270     year = "2012"
271 }
272
273 @article{Chatrchyan:2012ufa,
274     author = "Chatrchyan, Serguei and others",
275     collaboration = "CMS",
276     title = "{Observation of a New Boson at a Mass of 125 GeV with the CMS Experiment at the LHC}",
277     eprint = "1207.7235",
278     archivePrefix = "arXiv",
279     primaryClass = "hep-ex",
280     reportNumber = "CMS-HIG-12-028, CERN-PH-EP-2012-220",
281     doi = "10.1016/j.physletb.2012.08.021",
282     journal = "Phys. Lett. B",
283     volume = "716",
284     pages = "30--61",
285     year = "2012"
286 }
287
288 @article{Beringer:1900zz,
289     author = "Beringer, J. and others",
290     collaboration = "Particle Data Group",
291     title = "{Review of Particle Physics (RPP)}",
292     reportNumber = "SLAC-REPRINT-2014-001",
293     doi = "10.1103/PhysRevD.86.010001",
294     journal = "Phys. Rev. D",
295     volume = "86",
296     pages = "010001",
297     year = "2012"
298 }
299
300 @article{Chatrchyan:2008aa,
301     author = "Chatrchyan, S. and others",
302     collaboration = "CMS",
303     title = "{The CMS Experiment at the CERN LHC}",
304     doi = "10.1088/1748-0221/3/08/S08004",
305     journal = "JINST",
306     volume = "3",
307     pages = "S08004",
308     year = "2008"
309 }
310
311 @article{Cacciari:2008gp,
312     author = "Cacciari, Matteo and Salam, Gavin P. and Soyez, Gregory",
313     title = "{The anti- $k_t$  jet clustering algorithm}",
314     eprint = "0802.1189",
315     archivePrefix = "arXiv",
316     primaryClass = "hep-ph",
317     reportNumber = "LPTHE-07-03",
318     doi = "10.1088/1126-6708/2008/04/063",

```

```

319     journal = "JHEP",
320     volume = "04",
321     pages = "063",
322     year = "2008"
323 }
324
325 @article{Aad:2008zzm,
326     author = "Aad, G. and others",
327     collaboration = "ATLAS",
328     title = "{The ATLAS Experiment at the CERN Large Hadron Collider}",
329     doi = "10.1088/1748-0221/3/08/S08003",
330     journal = "JINST",
331     volume = "3",
332     pages = "S08003",
333     year = "2008"
334 }
335
336 @article{Sjostrand:2006za,
337     author = "Sjostrand, Torbjorn and Mrenna, Stephen and Skands, Peter Z.",
338     title = "{PYTHIA 6.4 Physics and Manual}",
339     eprint = "hep-ph/0603175",
340     archivePrefix = "arXiv",
341     reportNumber = "FERMILAB-PUB-06-052-CD-T, LU-TP-06-13",
342     doi = "10.1088/1126-6708/2006/05/026",
343     journal = "JHEP",
344     volume = "05",
345     pages = "026",
346     year = "2006"
347 }
348
349 @article{Spergel:2003cb,
350     author = "Spergel, D. N. and others",
351     collaboration = "WMAP",
352     title = "{First year Wilkinson Microwave Anisotropy Probe (WMAP) observations: Deter",
353     eprint = "astro-ph/0302209",
354     archivePrefix = "arXiv",
355     doi = "10.1086/377226",
356     journal = "Astrophys. J. Suppl.",
357     volume = "148",
358     pages = "175--194",
359     year = "2003"
360 }
361
362 @article{Agostinelli:2002hh,
363     author = "Agostinelli, S. and others",
364     collaboration = "GEANT4",
365     title = "{GEANT4--a simulation toolkit}",
366     reportNumber = "SLAC-PUB-9350, FERMILAB-PUB-03-339, CERN-IT-2002-003",
367     doi = "10.1016/S0168-9002(03)01368-8",
368     journal = "Nucl. Instrum. Meth. A",

```

```

369     volume = "506",
370     pages = "250--303",
371     year = "2003"
372 }
373
374 @article{Randall:1999ee,
375     author = "Randall, Lisa and Sundrum, Raman",
376     title = "{A Large mass hierarchy from a small extra dimension}",
377     eprint = "hep-ph/9905221",
378     archivePrefix = "arXiv",
379     reportNumber = "MIT-CTP-2860, PUPT-1860, BUHEP-99-9",
380     doi = "10.1103/PhysRevLett.83.3370",
381     journal = "Phys. Rev. Lett.",
382     volume = "83",
383     pages = "3370--3373",
384     year = "1999"
385 }
386
387 @article{Perlmutter:1998np,
388     author = "Perlmutter, S. and others",
389     collaboration = "Supernova Cosmology Project",
390     title = "{Measurements of  $\Omega$  and  $\Lambda$  from 42 high redshift supernovae}",
391     eprint = "astro-ph/9812133",
392     archivePrefix = "arXiv",
393     reportNumber = "LBNL-41801, LBL-41801",
394     doi = "10.1086/307221",
395     journal = "Astrophys. J.",
396     volume = "517",
397     pages = "565--586",
398     year = "1999"
399 }
400
401 @article{Riess:1998cb,
402     author = "Riess, Adam G. and others",
403     collaboration = "Supernova Search Team",
404     title = "{Observational evidence from supernovae for an accelerating universe and a",
405     eprint = "astro-ph/9805201",
406     archivePrefix = "arXiv",
407     doi = "10.1086/300499",
408     journal = "Astron. J.",
409     volume = "116",
410     pages = "1009--1038",
411     year = "1998"
412 }
413
414 @article{Witten:1998qj,
415     author = "Witten, Edward",
416     title = "{Anti-de Sitter space and holography}",
417     eprint = "hep-th/9802150",
418     archivePrefix = "arXiv",

```

```

419     reportNumber = "IASSNS-HEP-98-15",
420     doi = "10.4310/ATMP.1998.v2.n2.a2",
421     journal = "Adv. Theor. Math. Phys.",
422     volume = "2",
423     pages = "253--291",
424     year = "1998"
425 }
426
427 @article{Gubser:1998bc,
428     author = "Gubser, S. S. and Klebanov, Igor R. and Polyakov, Alexander M.",
429     title = "{Gauge theory correlators from noncritical string theory}",
430     eprint = "hep-th/9802109",
431     archivePrefix = "arXiv",
432     reportNumber = "PUPT-1767",
433     doi = "10.1016/S0370-2693(98)00377-3",
434     journal = "Phys. Lett. B",
435     volume = "428",
436     pages = "105--114",
437     year = "1998"
438 }
439
440 @article{Maldacena:1997re,
441     author = "Maldacena, Juan Martin",
442     title = "{The Large N limit of superconformal field theories and supergravity}",
443     eprint = "hep-th/9711200",
444     archivePrefix = "arXiv",
445     reportNumber = "HUTP-97-A097, HUTP-98-A097",
446     doi = "10.1023/A:1026654312961",
447     journal = "Adv. Theor. Math. Phys.",
448     volume = "2",
449     pages = "231--252",
450     year = "1998"
451 }
452
453 @article{Schlegel:1997yv,
454     author = "Schlegel, David J. and Finkbeiner, Douglas P. and Davis, Marc",
455     title = "{Maps of dust IR emission for use in estimation of reddening and CMBR foregrounds}",
456     eprint = "astro-ph/9710327",
457     archivePrefix = "arXiv",
458     doi = "10.1086/305772",
459     journal = "Astrophys. J.",
460     volume = "500",
461     pages = "525",
462     year = "1998"
463 }
464
465 @article{Guth:1980zm,
466     author = "Guth, Alan H.",
467     editor = "Fang, Li-Zhi and Ruffini, R.",
468     title = "{The Inflationary Universe: A Possible Solution to the Horizon and Flatness Problems}"

```

```

469     reportNumber = "SLAC-PUB-2576",
470     doi = "10.1103/PhysRevD.23.347",
471     journal = "Phys. Rev. D",
472     volume = "23",
473     pages = "347--356",
474     year = "1981"
475 }
476
477 @article{Altarelli:1977zs,
478     author = "Altarelli, Guido and Parisi, G.",
479     title = "{Asymptotic Freedom in Parton Language}",
480     reportNumber = "LPTENS-77-6",
481     doi = "10.1016/0550-3213(77)90384-4",
482     journal = "Nucl. Phys. B",
483     volume = "126",
484     pages = "298--318",
485     year = "1977"
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488 @article{Hawking:1974sw,
489     author = "Hawking, S. W.",
490     editor = "Gibbons, G. W. and Hawking, S. W.",
491     title = "{Particle Creation by Black Holes}",
492     doi = "10.1007/BF02345020",
493     journal = "Commun. Math. Phys.",
494     volume = "43",
495     pages = "199--220",
496     year = "1975",
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498     relatedtype = "erratum"
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501 @article{Kobayashi:1973fv,
502     author = "Kobayashi, Makoto and Maskawa, Toshihide",
503     title = "{CP Violation in the Renormalizable Theory of Weak Interaction}",
504     reportNumber = "KUNS-242",
505     doi = "10.1143/PTP.49.652",
506     journal = "Prog. Theor. Phys.",
507     volume = "49",
508     pages = "652--657",
509     year = "1973"
510 }
511
512 @article{Weinberg:1967tq,
513     author = "Weinberg, Steven",
514     title = "{A Model of Leptons}",
515     doi = "10.1103/PhysRevLett.19.1264",
516     journal = "Phys. Rev. Lett.",
517     volume = "19",
518     pages = "1264--1266",

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519     year = "1967"
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522 @article{Glashow:1961tr,
523     author = "Glashow, S. L.",
524     title = "{Partial Symmetries of Weak Interactions}",
525     doi = "10.1016/0029-5582(61)90469-2",
526     journal = "Nucl. Phys.",
527     volume = "22",
528     pages = "579--588",
529     year = "1961"
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532 @article{Hawking:1974sw-1,
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534     journal = "Commun. Math. Phys.",
535     volume = "46",
536     pages = "206",
537     year = "1976",
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540 \end{filecontents}
541 \bibliography{\jobname}
542 \nocite{*}
543 \usepackage{hyperref}
544
545 \begin{document}
546 \printbibliography
547 \end{document}

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</test>

## D Readme

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```

548 # The 'hep-bibliography' package
549
550 Bibliographies for high energy physics
551
552 ## Introduction
553
554 The 'hep-bibliography' package extends the 'biblatex' package with some functionality mo
555 In particular it makes full use of all 'bibtex' fields provided by 'inspirehep.net'.
556
557 The package can be loaded via '\usepackage{hep-bibliography}'.
558
559 ## Author
560
561 Jan Hajer

```

562

563 **## License**

564

565 This file may be distributed and/or modified under the conditions of the ‘LaTeX’ Project

566 The latest version of this license is in ‘<http://www.latex-project.org/lppl.txt>’ and ver

</readme>

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