# The HEP-BIBLIOGRAPHY package*

## Biblatex setup with INSPIRE fields, eprint links, errata and citation back-links

Jan Hajer†

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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`. An empty style, `style=`, disables the loading of BIBLATEX; the BIBLATEX settings below are then only applied if BIBLATEX has been loaded before HEP-BIBLIOGRAPHY.

`\bibliography` `\printbibliography` 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 `eprinttype`s.

`\online` `\email` The `\online{`⟨*url*⟩`}{`⟨*text*⟩`}` macro prints link text that becomes a hyperlink if HYPERREF is loaded. The `\email{`⟨*address*⟩`}` macro is a mail link wrapper using the same fallback.

`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,
  ...,
}
```

*This document corresponds to HEP-BIBLIOGRAPHY v1.6.

†jan.hajer@tecnico.ulisboa.pt

# A Implementation

<*package>

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

```
\RequirePackage{kvoptions}
\SetupKeyvalOptions{
  family=hepbib,
  prefix=hepbib@
}
```

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

```
\DeclareStringOption[numeric-comp]{style}

\ProcessKeyvalOptions*
```

`\hep@url@text` Print a URL or email address in typewriter font without HYPERREF. As for `\nolinkurl`, the text is printed verbatim, so that characters such as `_`, `#`, `&`, and `~` need no escaping. The escaped characters `\%`, `\#`, `\&`, `\_`, `\$`, and `\~` become the characters themselves. Macros in the text, such as the fields of BIBLATEX, are expanded first. The HEP-TEXT and HEP-TITLE packages define the same macro, so define it only once.

```
\ExplSyntaxOn
\cs_if_exist:NF \hep@url@text {
  \tl_new:N \l__hep_url_tl
  \cs_generate_variant:Nn \tl_replace_all:Nnn { NnV }
  \cs_new_protected:Npn \hep@url@text #1 {
    \tl_set:Nn \l__hep_url_tl {#1}
    \regex_replace_all:nnN { \cP. } { \c0\# } \l__hep_url_tl
    \protected@edef \l__hep_url_tl { \l__hep_url_tl }
    \tl_remove_all:Nn \l__hep_url_tl { \protect }
    \tl_replace_all:NnV \l__hep_url_tl { \# } \c_hash_str
    \tl_replace_all:NnV \l__hep_url_tl { \% } \c_percent_str
    \tl_replace_all:NnV \l__hep_url_tl { \& } \c_ampersand_str
    \tl_replace_all:NnV \l__hep_url_tl { \_ } \c_underscore_str
    \tl_replace_all:NnV \l__hep_url_tl { \$ } \c_dollar_str
    \tl_replace_all:NnV \l__hep_url_tl { \~ } \c_tilde_str
    \texttt { \tl_to_str:N \l__hep_url_tl }
  }
}
\ExplSyntaxOff
```

`\online` `\email` Define the `\online{`⟨*url*⟩`}{`⟨*text*⟩`}` macro combining the features of the `\href` and the `\url` macros. Define a macro for typesetting emails. The HEP-TEXT and HEP-TITLE packages define the same macros, so whichever package is loaded first gives the same result.

```
\providecommand*{\online}[2]{\hep@url@text{#2}}%
\providecommand*{\hep@email}[1]{\online{mailto:#1}{#1}}
\providecommand*\email{\hep@email}
```

```
\AtBeginDocument{\@ifpackageloaded{hyperref}{%
    \renewcommand*{\online}[2]{\href{#1}{\nolinkurl{#2}}}%
    \pdfstringdefDisableCommands{\hep@bib@pdfstring}%
  }{}%
}
```

`\hep@bib@pdfstring` In PDF strings, such as bookmarks, `\online` and `\nolinkurl` print only their text.

```
\newcommand*{\hep@bib@pdfstring}{%
  \def\online##1##2{##2}%
  \let\nolinkurl\@firstofone
}
```

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

```
\RequirePackage{xparse}
\ExplSyntaxOn
\NewDocumentEnvironment{commalist}{O{\space}+b}{
  \hep@comma@list:n{#2}
}{#1}
\seq_new:N \hep@items@sequence
\cs_new_protected:Npn \hep@comma@list:n #1{
  \seq_set_split:Nnn \hep@items@sequence{\item}{#1}
  \seq_pop_left:NN \hep@items@sequence \l_tmpa_tl
  \seq_use:Nnnn \hep@items@sequence{~and~}{,~}{,~and~}
}
\ExplSyntaxOff
```

`\bibliography` Load the BIBLATEX package [1] with the datamodel defined in section B. An empty `style` disables the loading of BIBLATEX. In this case the remaining settings are only applied if BIBLATEX has been loaded before.

```
\ifx\hepbib@style\@empty\else
  \PassOptionsToPackage{%
    style=\hepbib@style,%
    datamodel=hep-bibliography%
  }{biblatex}%
  \RequirePackage{biblatex}%
\fi
\@ifpackageloaded{biblatex}{}{\endinput}
```

`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.

```
\providecommand*{\DeclareSortingTemplate}{\DeclareSortingScheme}
\DeclareSortingTemplate{hep-bibliography}{
  \sort{\citeorder}
  \sort[final]{\field{sortkey}}
  \sort{\field{sortyear} \field{year} \literal{9999}}
  \sort{\field{month}}
```

```
  \sort{\field{eprint} \field{doi}}
  \sort{\field{sorttitle} \field{title}}
  \sort{\field{subtitle} \field{volume}}
}
```

Use the new sorting scheme and abbreviat all first names.

```
\ExecuteBibliographyOptions{
  sorting=hep-bibliography,
  safeinputenc,
  giveninits=true,
  maxbibnames=7,
}
```

Redefine the `pages` filed such that leading zeros are stripped from the page numbers. The `\@nil` marks the end of the number, a number consisting of zeros becomes `0`.

```
\newcommand*\hep@strip@zero[1]{%
  \ifblank{#1}{}{\expandafter\hep@strip@zero@helper#1\@nil}%
}
\def\hep@strip@zero@helper#1#2\@nil{%
  \ifx0#1%
    \expandafter\@firstoftwo
  \else
    \expandafter\@secondoftwo
  \fi
  {\ifblank{#2}{0}{\hep@strip@zero@helper#2\@nil}}%
  {#1#2}%
}
\DeclareFieldFormat{pages}{%
  \mkpageprefix[bookpagination][{\mknormrange[][\hep@strip@zero]}]{#1}%
}
```

Define an internal bibhypertarget.

```
\DeclareFieldFormat{bibhypertarget}{%
  \bibhypertarget{\thefield{entrykey}:\the\value{instcount}}{#1}%
}
```

Redefine the citation command to set the bibhypertarget and call the cite:save macro. Only the `numeric-comp` style provides the `cite:comp` macro.

```
\ifbibmacroundef{cite:comp}{}{%
  \renewbibmacro*{cite:comp}{%
    \printtext[bibhypertarget]{%
      \stepcounter{cbx@tempcntb}%
      \iffieldundef{shorthand}{%
        \ifbool{bbx:subentry}{%
          \iffieldundef{entrysetcount}{%
            \usebibmacro{cite:comp:comp}}{\usebibmacro{cite:comp:inset}%
          }%
        }{\usebibmacro{cite:comp:comp}}%
```

```
      }{\usebibmacro{cite:comp:shand}}%
    }%
    \usebibmacro{cite:save}%
  }%
}
```

Define the cite:safe macro. The name of the macro storing the first citation of an entry, `\hep@backref`, contains the number of the reference section and the entry key.

```
\newcommand*{\hep@backref}{%
  hep@backref@\the\c@refsection @\thefield{entrykey}%
}
\newbibmacro*{cite:save}{%
  \ifcsundef{\hep@backref}{%
    \csxdef{\hep@backref}{\the\value{instcount}}%
  }{}%
}
```

Link from the bibliography to the first cite.

```
\newbibmacro{cbx:linktofirstcite}[1]{%
  \ifcsdef{\hep@backref}{%
    \bibhyperlink{%
      \thefield{entrykey}:\csuse{\hep@backref}%
    }{#1}%
  }{#1}%
}
```

Ensure table style numbers in the bibliography labels.

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

Deactivate counting during caption measurement.

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

Shrink the biblography in two column mode.

```
\if@twocolumn
  \AtBeginBibliography{\small}
  \setlength\biblabelsep{\labelsep}
\fi
```

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

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

`erratum` Add new bibliography string 'Erratum' for the use in the `relatedtype` field.

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

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

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

`\printbibliography` Allow the bibliography to be printed sloppy

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

## A.1 Sourcemap

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

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

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

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

`collaboration` Read the collaboration information if present.

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

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

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

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

```
    \map[overwrite]{
      \pertype{article}
      \step[fieldsource=volume, match=\hep@reg@exp@one, final]
      \step[fieldsource=volume, match=\hep@reg@exp@two, replace={$2}]
```

```
      \step[fieldsource=journal, fieldtarget=journaltitle]
      \step[fieldset=journaltitle, fieldvalue={\space$1$2}, append=true]
      \step[fieldsource=journaltitle, match=\hep@reg@exp@end, replace={}]
    }
```

`url` Remove the protocol from URL.

```
    \map{
      \step[fieldsource=url, final=true]
      \step[fieldset=protocollessurl, origfieldval, final=true]
      \step[fieldsource=protocollessurl,
            match=\hep@reg@exp@url, replace={}]
    }
```

`pmc` Remove the PMC from the PMCID.

```
    \map{
      \step[fieldsource=pmcid, final=true]
      \step[fieldset=pmc, origfieldval, final=true]
      \step[fieldsource=pmc, match=\hep@reg@exp@pmc, replace={}]
    }
  }%
}
```

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

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

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

```
\renewbibmacro*{author/translator+others}{%
  \ifboolexpr{
    test \ifuseauthor and (
      not test {\ifnameundef{author}} or
      not test {\iffieldundef{collaboration}}
    )
  }%
  {\usebibmacro{author}}%
  {\usebibmacro{translator+others}}%
}
\letbibmacro{hep@bib@author}{author}
\renewbibmacro*{author}{%
  \iffieldundef{collaboration}{%
    \usebibmacro{hep@bib@author}}{\textit{\printfield{collaboration}}%
  }%
}
```

`In:` Remove spurious 'In:' if no journal is present.

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

```
}
```

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

```
\RequirePackage{relsize}
\newcommand*{\hep@report@number}[1]{{\smaller[.5]\textsc{#1}}}
\newcommand*{\hep@report@list}{}
\newcommand*{\hep@report@add}[1]{%
  \appto\hep@report@list{\item\hep@report@number{#1}}%
}
\ExplSyntaxOn
\cs_generate_variant:Nn \hep@comma@list:n { V }
\DeclareFieldFormat{reportnumber}{
  \tl_clear:N \hep@report@list
  \forcsvfield{\hep@report@add}{reportnumber}
  \hep@comma@list:V \hep@report@list
}
\ExplSyntaxOff
```

url Show URLs without the protocol.

```
\DeclareFieldFormat{url}{%
  \mkbibacro{URL}\addcolon\space\online{#1}{\thefield{protocollessurl}}%
}
```

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

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

pmid
pmcid Present PubMed IDs.

```
\DeclareFieldFormat{pmid}{%
  \mkbibacro{PM}\addcolon\space%
  \hep@bib@online{https://www.ncbi.nlm.nih.gov/pubmed/#1}{#1}%
}
\DeclareFieldFormat{pmc}{%
  \mkbibacro{PMC}\addcolon\space%
  \hep@bib@online{https://www.ncbi.nlm.nih.gov/pmc/articles/PMC#1}{#1}%
}
```

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

```
\letbibmacro{hep-doi+eprint+url}{doi+eprint+url}
\renewbibmacro*{doi+eprint+url}{%
  \usebibmacro{hep-doi+eprint+url}%
  \newunit
  \iffieldundef{pmc}{%
    \printfield{pmid}%
  }{\printfield{pmc}}%
  \newunit
```

```
  \iffieldundef{reportnumber}{}{%
    \printtext{\textnumero}%
    \setunit{\intitlepunct}%
    \printfield{reportnumber}%
    \newunit
  }%
}
```

## A.2 Eprints

`\hep@eprint` `\hep@bib@eprint` Private `\hep@eprint`⟨*⟩`{`⟨*name*⟩`}{`⟨*url*⟩`}` macro declaring the field format of an eprint type. The starred version prepends the `eprintclass`, if present, to the path. The `\hep@bib@eprint` macro takes the name, the URL, and the path, and expands the path before it is passed to `\nolinkurl`, which prints its argument verbatim.

```
\NewDocumentCommand{\hep@eprint}{smm}{%
  \IfBooleanTF{#1}{%
    \DeclareFieldFormat{eprint:#2}{%
      \iffieldundef{eprintclass}{%
        \hep@bib@eprint{#2}{#3}{##1}%
      }{%
        \hep@bib@eprint{#2}{#3}{\thefield{eprintclass}/##1}%
      }%
    }%
  }{%
    \DeclareFieldFormat{eprint:#2}{\hep@bib@eprint{#2}{#3}{##1}}%
  }%
}
\newcommand*{\hep@bib@eprint}[3]{%
  #1\addcolon\space
  \protected@edef\hep@bib@eprint@link{%
    \noexpand\hep@bib@online{#2/#3}{#3}%
  }%
  \hep@bib@eprint@link
}
```

`CDS` Add CERN Document server as a eprint option

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

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

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

`CTAN` Add CTAN as a eprint option

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

`GitHub` Add GitHub as a eprint option

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

`GitLab` Add GitLab as a eprint option

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

`Bitbucket` Add Bitbucket as a eprint option

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

`Launchpad` Add Launchpad as a eprint option

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

`SourceForge` Add SourceForge as a eprint option

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

`HEPForge` Add HEPForge as a eprint option

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

Define bibstrings for reference names.

```
\NewBibliographyString{refname}
\NewBibliographyString{refsname}
\DefineBibliographyStrings{english}{%
  refname = {reference},
  refsname = {references}
}
```

`\ccite` `\Ccite` Define *clever* citation macros. Styles without the compressing `cite:init` macro of the `numeric-comp` style use their `cite` macro.

```
\newcommand*{\hep@ccite@name}{%
  \ifnum\thecitetotal=1
    \bibstring{refname}%
  \else%
    \bibstring{refsname}%
  \fi%
  \addnbspace\bibopenbracket%
}
```

```
\ifbibmacroundef{cite:init}{%
  \DeclareCiteCommand{\ccite}{%
    \hep@ccite@name\usebibmacro{prenote}%
  }{\usebibmacro{citeindex}\usebibmacro{cite}}{\multicitedelim}{%
    \usebibmacro{postnote}\bibclosebracket%
  }%
}{%
  \DeclareCiteCommand{\ccite}{%
    \hep@ccite@name\usebibmacro{cite:init}\usebibmacro{prenote}%
  }{\usebibmacro{citeindex}\usebibmacro{cite:comp}}{}{%
    \usebibmacro{cite:dump}\usebibmacro{postnote}%
    \bibclosebracket%
  }%
}

\newrobustcmd*{\Ccite}{\bibsentence\ccite}
```

</package>

# B Biblatex datamodel file

<*datamodel>

collaboration
pmid
pmcid
pmc
reportnumber
protocollessurl

Define the `dbx` file containing the `hep-bibliography` datamodel.

```
\DeclareDatamodelFields[type=field, datatype=literal]{
  collaboration, pmid, pmcid, pmc,
}
\DeclareDatamodelFields[type=field, format=xsv, datatype=literal]{
  reportnumber,
}
\DeclareDatamodelFields[type=field, datatype=uri]{protocollessurl}
\DeclareDatamodelEntryfields{
  collaboration, pmid, pmcid, pmc, reportnumber, protocollessurl,
}
```

</datamodel>

# C Test

<*test>

```
\documentclass[twocolumn,a4paper]{article}

\usepackage{hep-bibliography}

\begin{filecontents}{\jobname.bib}
@article{Ade:2015xua,
    author = "Ade, P. A. R. and others",
    collaboration = "Planck",
```

```
    title = "{Planck 2015 results. XIII. Cosmological parameters}",
    eprint = "1502.01589",
    archivePrefix = "arXiv",
    primaryClass = "astro-ph.CO",
    doi = "10.1051/0004-6361/201525830",
    journal = "Astron. Astrophys.",
    volume = "594",
    pages = "A13",
    year = "2016"
}

@article{Agashe:2014kda,
    author = "Olive, K. A. and others",
    collaboration = "Particle Data Group",
    title = "{Review of Particle Physics}",
    doi = "10.1088/1674-1137/38/9/090001",
    journal = "Chin. Phys. C",
    volume = "38",
    pages = "090001",
    year = "2014"
}

@article{Ade:2013zuv,
    author = "Ade, P. A. R. and others",
    collaboration = "Planck",
    title = "{Planck 2013 results. XVI. Cosmological parameters}",
    eprint = "1303.5076",
    archivePrefix = "arXiv",
    primaryClass = "astro-ph.CO",
    reportNumber = "CERN-PH-TH-2013-129",
    doi = "10.1051/0004-6361/201321591",
    journal = "Astron. Astrophys.",
    volume = "571",
    pages = "A16",
    year = "2014"
}

@article{Aad:2012tfa,
    author = "Aad, Georges and others",
    collaboration = "ATLAS",
    title = "{Observation of a new particle in the search for
    the Standard Model Higgs boson with the ATLAS detector at the LHC}",
    eprint = "1207.7214",
    archivePrefix = "arXiv",
    primaryClass = "hep-ex",
    reportNumber = "CERN-PH-EP-2012-218",
    doi = "10.1016/j.physletb.2012.08.020",
    journal = "Phys. Lett. B",
    volume = "716",
    pages = "1--29",
```

```
379     year = "2012"
380 }
381
382 @article{Chatrchyan:2012ufa,
383     author = "Chatrchyan, Serguei and others",
384     collaboration = "CMS",
385     title = "{Observation of a New Boson at a Mass of 125 GeV with the
386     CMS Experiment at the LHC}",
387     eprint = "1207.7235",
388     archivePrefix = "arXiv",
389     primaryClass = "hep-ex",
390     reportNumber = "CMS-HIG-12-028, CERN-PH-EP-2012-220",
391     doi = "10.1016/j.physletb.2012.08.021",
392     journal = "Phys. Lett. B",
393     volume = "716",
394     pages = "30--61",
395     year = "2012"
396 }
397
398 @article{Beringer:1900zz,
399     author = "Beringer, J. and others",
400     collaboration = "Particle Data Group",
401     title = "{Review of Particle Physics (RPP)}",
402     reportNumber = "SLAC-REPRINT-2014-001",
403     doi = "10.1103/PhysRevD.86.010001",
404     journal = "Phys. Rev. D",
405     volume = "86",
406     pages = "010001",
407     year = "2012"
408 }
409
410 @article{Chatrchyan:2008aa,
411     author = "Chatrchyan, S. and others",
412     collaboration = "CMS",
413     title = "{The CMS Experiment at the CERN LHC}",
414     doi = "10.1088/1748-0221/3/08/S08004",
415     journal = "JINST",
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422     author = "Cacciari, Matteo and Salam, Gavin P. and Soyez, Gregory",
423     title = "{The anti-$k_t$ jet clustering algorithm}",
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484     year = "2003"
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495     volume = "83",
496     pages = "3370--3373",
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501     author = "Perlmutter, S. and others",
502     collaboration = "Supernova Cosmology Project",
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    archivePrefix = "arXiv",
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    author = "Hawking, S. W.",
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    author = "Glashow, S. L.",
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# D Readme

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```
# The ‘hep-bibliography‘ package

Biblatex setup with INSPIRE fields, eprint links, errata and citation
back-links

## Introduction

The ‘hep-bibliography‘ package configures ‘biblatex‘ for high-energy
physics publications. It adds the ‘InspireHEP‘ data fields used in HEP
bibliographies, source maps for common BibTeX variants, citation
back-links from bibliography labels, erratum handling, and eprint formats
for arXiv, PubMed, PubMed Central, code-hosting sites, and package
```

```
repositories.

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

## Author

Jan Hajer

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`LaTeX` Project Public License, either version 1.3c of this license or
(at your option) any later version. The latest version of this license is
in `http://www.latex-project.org/lppl.txt` and version 1.3c or later is
part of all distributions of LaTeX version 2005/12/01 or later.
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# References


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# Change History


v1.0
General: First release on CTAN: biblatex setup with InspireHEP fields, source maps, errata, citation back-links, and HEP e-print formats. . . . . 1

v1.1
General: Passed biblatex options before loading the package and corrected the SourceForge e-print alias. . . . . 1

v1.2
General: Reworked bibliography back-links through citation targets, stripped leading zeros from page ranges, and added CDS and HEPData e-print formats. . . . . 1

v1.3
General: Stopped globally wrapping `\printbibliography` in `\sloppy`. . . . . 1

v1.4
General: Applied starred command definitions consistently. . . . . 1

v1.5
General: Raised the LaTeX format requirement and expanded the documentation, README, and examples. . . . . 1

v1.6
General: Fixed the HEPForge, code-hosting, and repository e-print links, report numbers inside braces, the separation of URLs and PubMed IDs, styles other than numeric-comp, empty styles, links in PDF strings, and spurious spaces. Printed `\online` without HYPERREF like HEP-TEXT, so that URLs may contain special characters. . . . . 1