1 Introduction

This document illustrates how the `keywords` and other attributes in BibTeX entries may be used to produce bibliographies that are narrowed to a selection of a subset of citations.

1.1 Bib related document content

Each section below applies a citation selection criteria and gives some description as to its nature. Nominally, the references across these sections would share a common numbering. Here, the option to have per-section numbering is illustrated by wrapping each section in a `refsection` environment.

In each section, a single call to `\nocite{*}` is used as a proxy for what normally is a number of calls to `\cite{...}` in order to cite **all** entries in the bib database files. Then, a single `\printbibliography[...]` call is used in a section to illustrate one selection. In a "real" document, each section (or chapter) may have multiple bibliographies, each with some unique section. When selecting, care is needed so that all select bibliographies cover the total set of citations.

1.2 Selective bibliographies

A bib "filter" is used to perform a selection on the `keywords` set and a bib "check" to select on the `year` attribute. These can be define anywhere (not just in the preamble). In this example the following are used:

```
\defbibfilter{bvoredg}{keyword=bv or keyword=edg}
\defbibcheck{old}{\ifnumless{\thefield{year}}{2019}{}{\skipentry}}
\defbibcheck{new}{\ifnumgreater{\thefield{year}}{2018}{}{\skipentry}}
```

1.3 The bib files

Two contrived bib files used here: `generated.bib` and `curated.bib`. The first represents the output of an automated workflow that consists of running `recibi` commands on an authoritative source of document identifiers associated with desired `keywords` tags. The second represents the results of manual human editing efforts.

The `generated.bib` file has three entries, one of which lacks the `edg` tag. This omission represents an actual case at the time of developing this example where the `recibi` workflow encountered a publication that InsipreHEP has associated with an EDG member but which EDG has not yet put into the group's "official" list from which it is determined which entries get a `edg` tag. This omission should **not** be fixed by editing `generated.bib` nor by adding the updated bib entry manually but by rerunning the `recibi` workflow.

The `curated.bib` file has a single entry that represents a contrived case where `recibi` is unable to discover references. In fact, it was discovered via a query to InsipreHEP using the EDG member's author ID.

2 ALL

This section illustrates no selection. All entries in the bib files are cited with `\nocite{*}` and no selection is made by `\printbibliography`.

```
\printbibliography[title={ALL}]
```

ALL

[1] P. Abratenko et al. "First double-differential cross section measurement of neutral-current π^0 production in neutrino-argon scattering in the MicroBooNE detector". In: (Apr. 2024). arXiv: 2404.10948 [hep-ex].

[2] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

[3] Brett Michael Viren. "A Search for the decay of protons to positron neutral pion and charged muon neutral pion". PhD thesis. SUNY, Stony Brook, 2000.

[4] Chao Zhang, Xin Qian, and Muriel Fallot. "Reactor antineutrino flux and anomaly". In: *Prog. Part. Nucl. Phys.* 136 (2024), p. 104106. DOI: 10.1016/j.ppnp.2024.104106. arXiv: 2310.13070 [hep-ph].

3 BV

This section illustrates selecting on one tag `bv` that was set by the `recibi` workflow as part of a query to InspireHEP with an author ID.
`\printbibliography[keyword={bv},title={BV}]`

BV

[1] P. Abratenko et al. "First double-differential cross section measurement of neutral-current π^0 production in neutrino-argon scattering in the MicroBooNE detector". In: (Apr. 2024). arXiv: 2404.10948 [hep-ex].

[2] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

[3] Brett Michael Viren. "A Search for the decay of protons to positron neutral pion and charged muon neutral pion". PhD thesis. SUNY, Stony Brook, 2000.

4 NOT BV

This section inverts the selection from the previous section. `\printbibliography[notkeyword={bv},title={NOT BV}]`

NOT BV

[1] Chao Zhang, Xin Qian, and Muriel Fallot. "Reactor antineutrino flux and anomaly". In: *Prog. Part. Nucl. Phys.* 136 (2024), p. 104106. DOI: 10.1016/j.ppnp.2024.104106. arXiv: 2310.13070 [hep-ph].

5 BV - select

In this section `\nocite{*}` is not used and instead individual citations form the entries. This is as may be used in a CV to populate the "select publication" list.

```
\nocite{MicroBooNE:2024sec}
\nocite{DayaBay:2024nip}
\printbibliography
```

References

[1] P. Abratenko et al. "First double-differential cross section measurement of neutral-current π^0 production in neutrino-argon scattering in the MicroBooNE detector". In: (Apr. 2024). arXiv: 2404.10948 [hep-ex].

[2] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

6 EDG

This section illustrates selecting on one tag `edg` that was set by the `recibi` workflow that derives document identifiers from "official" EDG lists of publications and queries InsipreHEP to transform the IDs to bib entries.
`\printbibliography[keyword={edg},title={EDG}]`

EDG

[1] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

[2] Chao Zhang, Xin Qian, and Muriel Fallot. "Reactor antineutrino flux and anomaly". In: *Prog. Part. Nucl. Phys.* 136 (2024), p. 104106. DOI: 10.1016/j.ppnp.2024.104106. arXiv: 2310.13070 [hep-ph].

7 NOT EDG

This section inverts the selection from the previous section. `\printbibliography[notkeyword={edg},title={NOT EDG}]`

NOT EDG

[1] P. Abratenko et al. "First double-differential cross section measurement of neutral-current π^0 production in neutrino-argon scattering in the MicroBooNE detector". In: (Apr. 2024). arXiv: 2404.10948 [hep-ex].

[2] Brett Michael Viren. "A Search for the decay of protons to positron neutral pion and charged muon neutral pion". PhD thesis. SUNY, Stony Brook, 2000.

8 BV AND EDG

The selection of this section is the logical `AND` of two tags.
`\printbibliography[keyword={bv},keyword={edg},title={BV AND EDG}]`

BV AND EDG

[1] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

9 BV OR EDG

The selection of this section is the logical `OR` of two tags. `\printbibliography[filter=bvoredg,title={BV OR EDG}]`

BV OR EDG

[1] P. Abratenko et al. "First double-differential cross section measurement of neutral-current π^0 production in neutrino-argon scattering in the MicroBooNE detector". In: (Apr. 2024). arXiv: 2404.10948 [hep-ex].

[2] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

[3] Brett Michael Viren. "A Search for the decay of protons to positron neutral pion and charged muon neutral pion". PhD thesis. SUNY, Stony Brook, 2000.

[4] Chao Zhang, Xin Qian, and Muriel Fallot. "Reactor antineutrino flux and anomaly". In: *Prog. Part. Nucl. Phys.* 136 (2024), p. 104106. DOI: 10.1016/j.ppnp.2024.104106. arXiv: 2310.13070 [hep-ph].

10 NEW

This section selects all entries with a `year` (strictly) less than 2019. `\printbibliography[check=new,title={NEW}]`

NEW

[1] P. Abratenko et al. "First double-differential cross section measurement of neutral-current π^0 production in neutrino-argon scattering in the MicroBooNE detector". In: (Apr. 2024). arXiv: 2404.10948 [hep-ex].

[2] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].

[3] Chao Zhang, Xin Qian, and Muriel Fallot. "Reactor antineutrino flux and anomaly". In: *Prog. Part. Nucl. Phys.* 136 (2024), p. 104106. DOI: 10.1016/j.ppnp.2024.104106. arXiv: 2310.13070 [hep-ph].

11 OLD

This section selects all entries with a `year` (strictly) greater than 2018. `\printbibliography[check=old,title={OLD}]`

OLD

[1] Brett Michael Viren. "A Search for the decay of protons to positron neutral pion and charged muon neutral pion". PhD thesis. SUNY, Stony Brook, 2000.

12 Daya Bay

This section selects for entries with the tag `dayabay`.

This tag was added as part of the `recibi` workflow by transferring the content of a `collaboration` field to a member of the `keywords` set. In principle, a selection based directly on `collaboration`. However, this field is not visible in the default bibtex "data model" and a solution for adding it at the LaTeX level could not be found. On the other hand, adding it via `recibi` workflow is trivial. This does however mean any curated entries need care in adding a correct collaboration tag to the `keywords` for them to participate in such selections.

`\printbibliography[keyword={dayabay},title={Daya Bay}]`

Daya Bay

[1] F. P. An et al. "Search for a sub-eV sterile neutrino using Daya Bay's full dataset". In: (Apr. 2024). arXiv: 2404.01687 [hep-ex].