

Hosting community resources for HEP(P) outreach

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University
of Glasgow

IOP

Institute of Physics
**High Energy Particle
Physics Group**

Sharing outreach resources

- ❖ **When IOP HEPP started these Masterclass Network events 2 years ago, the central premise was sharing outreach resources**
 - i.e. slides, software, experiment guides, ... anything!
- ❖ The absence of this has been conspicuous! :-D
 - mostly technical issues: IOP Sharepoint, incompatible logins, etc.
 - and lack of time, tbh
- ❖ **Finally, some movement:** draft at <https://hepoutreach.gitlab.io/>
 - nicer URL maybe to come?
 - hosted on gitlab.com ⇒ not tied to institutional accounts, platform is open-source and can be relocated if T&Cs change unsustainably, familiar interface for many from CERN GitLab
 - CI-driven simple web pages and small-file hosting: use to store resources directly, or as a central location for gathering links
 - ~easy/familiar to make and update resources via git merge requests





Welcome to the HEPP Masterclass outreach resources

This site is a community resource of materials for high-energy particle physics (HEPP) researchers and teachers to use in education and public outreach, coordinated by the [Institute of Physics HEPP special-interest group](#).

Explore the materials

You can browse the available outreach resources on the [resource index](#) page.

Contributing

The materials on this site are maintained by the HEPP community, according to licensing specified in each folder. All are free to use, for the benefit of the community. See the [contributing page](#) for more detail.

Glasgow Masterclass visit materials

Materials for annual Masterclass visit workshops for (Scottish) secondary-school physics students, as run by the University of Glasgow PPE group.

This resource includes an slide-based introduction to collider physics, and worksheets for two "lab" sessions, one hands-on and the other computer-based. See also the live Glasgow PPE [Masterquiz](#). The source code for the server will be made publicly available asap.

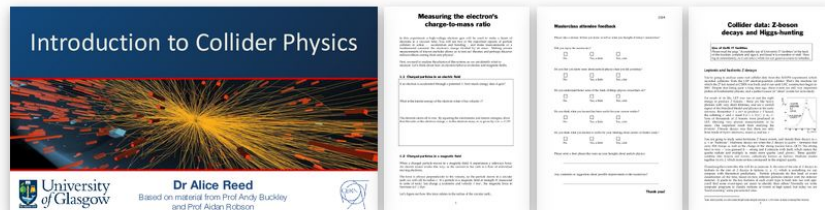
Authorship and license

Resource by Aidan Robson, Andy Buckley, Alice Reed and others for University of Glasgow. Licensed under [Creative Commons Share-Alike Deed](#).

Changes

- 2026-08-03 First version of resources added.

Files



Example content... note license, thumbnails, downloads

Built using a new minimal site builder tool, and a shell script: very simple and extensible!

gitlab.com/hepoutreach/hepoutreach.gitlab.io/

HEP Outreach Resources / HEP Outreach Resources website / Repository

Files

Search files (*.vue, *.rb...)

- > content
- > include
- > resources
- .gitignore
- .gitlab-ci.yml
- .gitmodules
- .warhol
- LICENSE
- README.md
- mkpages
- warhol.toml

mkpages	More ideas and CSS tweaks	1 month ago
warhol.toml	Add new processing script, a...	1 month ago

README.md [Edit file](#)

IoP Masterclass HEPP Outreach Resources

This repository collects freely reusable resources for high-energy particle physics outreach activities, deployed as a website to <https://hepoutreach.gitlab.io/>.

Deployment

To build and test the website, first run `mkpages` -- this copies the resources from the top-level `resources/` directory, into `content/resources/` with generated HTML lists of the resources and their contained files.

TODO

- Generate file thumbnails
- Carousel display of resources on the main and resources pages

**Copy/add your resource
Markdown + files to the
resources/ directory, make
merge request, that's it.**

gitlab.com/hepoutreach/hepoutreach.gitlab.io/

The screenshot shows the GitLab web interface for the repository 'HEP Outreach Resources'. The left sidebar displays a file tree with folders like 'include', 'resources', and '_example'. The '_example' folder is selected, showing a 'README.md' file. The main content area shows the 'README.md' file content, which includes sections for 'My outreach resource', 'Authorship and license', and 'Changes'.

Files

Search files (*.vue, *.rb...)

- include
- resources
- _example**
 - README.md
- ab-outreach
- glasgow-cloudchambers
 - 2026-03 Cloud Chambers.pdf
 - 2026-03 Cloud Chambers.pptx
 - README.md
- glasgow-masterclass
- .gitignore
- .gitlab-ci.yml
- .gitmodules

Name	Last commit	Last update
..		
README.md	Add thumbnailing and other tweaks	1 month ago

README.md Edit file

My outreach resource

An introductory paragraph explaining what is in the package, where it came from, and any explanations of recommendations for usage.

Authorship and license

Resource by Your Name, Other Author, etc. Contact details / email / URLs if you like. Licensed under [Creative Commons Share-Alike Deed](#).

Changes

- yyyy-mm-dd First version of resources added.

**Copy/add your resource
Markdown + files to the
resources/ directory, make
merge request, that's it.**

Summary / call for contributions

- ❖ That's all I've got...
- ❖ In defence, it's *meant* to be simple and fairly obvious!
- ❖ We're open to all ideas, code contribs, resources, etc.
- ❖ Right now, **the priority is to get as many community resources as possible** listed / hosted (as you prefer) — a community-maintained index of links would be grand
 - I'm hoping I can “sign up” everyone who presented today?
- ❖ As it gets bigger, we can add some structuring/keywords/indexing... let's find out what's needed, that's a good problem to have
- ❖ **Please get involved, spread the word, share experience!**

