

# Some thoughts on future developments and funding

HEPData advisory board meeting

IPPP, Durham, 12.11.2014



[www.ippp.dur.ac.uk](http://www.ippp.dur.ac.uk)

# State of HEPdata

- HEPData as persistent repository (also relevant for funding agencies)
- new HEPdata manager (Graeme) since ~12 months took over from Mike Whalley (still consultant)
- LHC brought many new challenges: more data at higher frequency, with more data types
  - old modus operandi of manual upload through HEPData manager or secretary not sustainable
  - new **web-based direct upload** by experiments being rolled out
- next immediate steps, being worked on:
  - validate/improve new upload procedure
  - **more data types** (correlations, 2-D plots, MC backgrounds, etc.)

# Immediate future

- improve searchability of database
- better integration with Inspire
  - move database to Invenio
  - ensures long-time support of existing data
  - homogenise search keywords
  - hopefully makes “harvesting” of HEPData by Inspire obsolete
  - widen scope of HEPdata: include distributions from flavour physics, smaller experiments, particle physics part of astrophysics

# Further links

- for data to be more persistent [want to include analysis code](#) (original papers often are not good/precise/complete enough)
- good base: RIVET
- problem: release cycle and manpower from RIVET
  - want to decouple from RIVET-internal procedures
  - allow experiments to submit and self-validate analysis code
  - idea: add specific MC code & run card + MC data for validation and ensuring backward compatibility
  - [beneficial for experiments](#) (higher level of accountability, citable doi's for the RIVET codes, better link with theory)
  - could run through Durham HEPFORGE