

**Imperial College
London**

HEPData and LHCb

Ulrik Egede

HEPData steering committee 15 Oct 2015

Current practice for HEPData at LHCb

LHCb policy is to submit all relevant data to HEPData

We do not have someone dedicated to helping analysts prepare files for HEPData

Current guidance to analysts preparing papers is:

Analyses producing results that are of interest to the HEPData database (total and differential production cross-sections and asymmetries, fragmentation fractions, polarisations, etc.) should make them available in the appropriate format. The formatted data should be reviewed by the review committee and included as an appendix to the version of the paper that is circulated to the collaboration.

Current practice for HEPData at LHCb

In practise, the analysts are often too busy with completing the analysis and writing the paper

Submission to HEPData tend to happen later with the Physics Coordinator following up on that this actually happens.

30 LHCb papers at the moment are in HEPData, with a further five currently in the pipeline (all production style papers).

We have not so far stored two dimensional plots like Dalitz plots?

Viewed as hard/impossible? Is it true

Near future

We would like to submit the results for our very soon to be released paper on the angular analysis of the $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ decay

8 observables (and multiple combinations of them) in each of 10 bins

Each bin has a full 8x8 correlation matrix associated with each result

A combined fit to the data containing 24 physics parameters and an associated 24x24 correlation matrix

We would be happy to use this as a test case for more complex information.

Do on the other hand not want to submit partial information – in that case the paper will not go in at all.