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LHCb Open Data Release

LHCb collaboration is releasing research-quality data to the public for the very first time. A data sample amounting to 960TB was obtained in 2011 and 2012 during the Run I of the Large Hadron Collider. The data is obtained by the LHCb detector when recording the information of proton collisions in the LHC.

The data has undergone a preprocessing step where physics objects, such as the trajectories of charged particles, were reconstructed from the raw information delivered by the complex detector system. The data is filtered and classified according to 300 physical processes and decays. The data is made available in the same format as is used internally by the LHCb physicists and is accompanied by extensive metadata and documentation, as well as a Glossary explaining several hundred special terms used in the preprocessing. The data can be analyzed using dedicated LHCb software, which is open-source.

In this poster, the details of ongoing and future Open Data efforts in LHCb will be presented.

Type of contribution

Poster

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