Advanced Particle Flow

- Development of advanced particle flow and pattern recognition algorithms in PandoraPFA

- Application to LHC, LC and neutrino experiments

J. S. Marshall, 10 March 2016

Advanced Particle Flow

Cambridge

- Mature draft of publication, by MicroBooNE collaboration, to document Pandora LAr TPC algorithms and pattern recognition performance for neutrino interactions at MicroBooNE.

- Working to understand (and respond in reconstruction, where necessary) changes in new detector simulation, which includes data-driven noise and data-driven field response.

- MicroBooNE software retreat next week, in Cincinnati.

CERN

- Matthias gave a snapshot of the current performance of DDMarlinPandora with the CLIC detector at the CLIC workshop this week:

  https://indico.cern.ch/event/577810/contributions/2487776/

- A number of issues in the DDMarlinPandora interface found and fixed: related to track-cluster matching (and tracking), significant performance improvements.