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General informations

This page is intended to be a repository of documents, discussions and meetings about the LHCb Muon Identification Procedure

Mailing list

Questions or comments concerning Muon Identification may be sent to the following mailling list: lhcb-muonID@cern.ch.

Meetings

Muon Software meetings: Muon Indico category under LHCb Meetings

The meetings are usually scheduled on biweekly basis, on Wednesday at 10:30 CET
Workshops

MuonID workshop: 15-16 October 2015 (Frascati)

A summary of the workshop can be found in this presentation: Workshop summary by M. Palutan (10 December 2015 during 78th LHCb week)
Plots for conferences

Useful figures to describe PID development and performance page.
Software

Currently the Online and Offline muonID algorithms are aligned. The code can be found in the git repository under Rec/Muon/MuonID.
Material

Overview of MuonID by B. Sciascia (PPTS session during 49th A&S week)

Muon-PIDCalib and MuonID performance in 2011 and 2012 data (J. Otalora, PPTS of 11 Mar 2013)

Sources of muon Mis-ID (Decay-in-flight on MC) (M. Schut and X. Clid Vidal, PPTS of 2 Dec 2013)

Improvements in Muon ID (L. Anderlini and G. Graziani, PPTS of 2 Dec 2013)
Improvements in the muonID

Muon likelihoods (M. Palutan for the LFN group, Brainstorming Meeting on Muon System Upgrade 12-13 March 2015)

New DLL calibration (M. Fontana and R. Vazquez, Brainstorming Meeting on Muon System Upgrade 8-9 October 2015)

Cluster multiplicity studies (M. Santimaria for the LNF group, Brainstorming Meeting on Muon System Upgrade 8-9 October 2015)

A possible novel muon identification tool: Design (muonID meeting, Nov 26 2015), Performance (PPTS, Nov 28 2016)
in Upgrade

misID at high lumi (P. de Simone for the LNF group, Brainstorming Meeting on Muon System Upgrade 12-13 March 2015)

muonID at high lumi (F. Archilli for the LNF group, Tuesday Meeting 26 May 2015)

Muon ID algorithm for the upgrade performance studies (Violetta for the Cagliari group, LHCb week Muon session 8 June 2015)

misID at high lumi (M. Palutan for the LFN group, Brainstorming Meeting on Muon System Upgrade 24-25 June 2015)

Performance at high lumi with MC studies (Violetta for the Cagliari group, Brainstorming Meeting on Muon System Upgrade 24-25 June 2015)

misID at high lumi (P. de Simone for the LNF group, Brainstorming Meeting on Muon System Upgrade 8-9 October 2015)

Poster: Novel Muon Identification Algorithms for the LHCb Upgrade (V. Cogoni, LHCC poster session, 2 March 2016)