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Global PID Meetings

07/04/2006

This meeting [is](#) to discuss the status for DC06.

07/07/2005

This first meeting [focused](#) on presentations by the sub-detectors on their current PID performance. The following are a list of questions or issues raised during the meeting.

CALO

- How will the reference distributions used to create the dLL values be produced from real data ?
- Evidence for 'mistakes' in tracking MC associations (Electron-like component to background distribution)
- Can Electron ID be better optimised for tagging
- Binning effects in reference distributions can be seen in DLL values. To be removed using smoothing procedure (KEYS)
- Further work on Brem. corrections for electrons ?
- Why do DC04 parameterisations compare badly to those from the TDR data ?
- What is the procedure to calibrate the CALO system with real data ?

MUON

- Warning that the hit rate in M2 has been seen to increase by 20-30% with latest detector description. Need to see a more detailed study to understand where exactly this is coming from. Need to retune the muon ID accordingly.
- Why does the muon ID for two dLL values for the combined particle ID ? Can they be rationalised ?
- dLL calculation should be done by muon ID packages. Should not be internal to protoparticle maker.
- Use of "NoSharedHits" algorithm seemed overly complicated for the end user.
- What is the procedure to calibrate the MUON system with real data ?

RICH

- What is the nature of the structure in the PID efficiency curves around 10 GeV for DC04 and RTTC data ?
- What about the positive/negative track asymmetry in the kaon ID ?

Combined Particle ID

- Why are some recommended dLL cut values so far from zero ? Are all the likelihoods properly normalised ?

ChrisRJones - 17 Nov 2006

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