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Detector asymmetry for Afs

Discussions on work towards knocking-out the detector asymmetry.

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Introduction

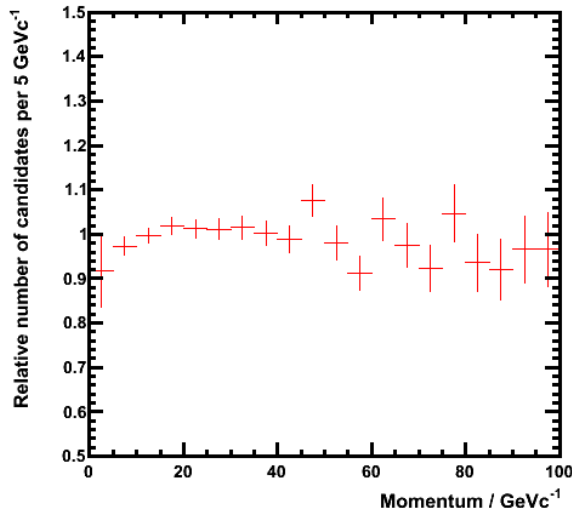
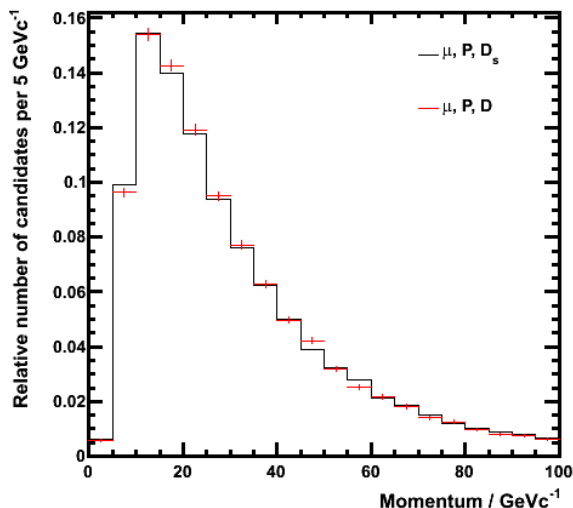
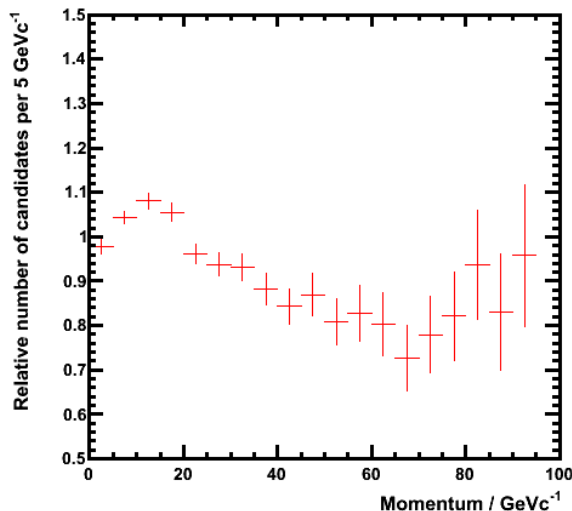
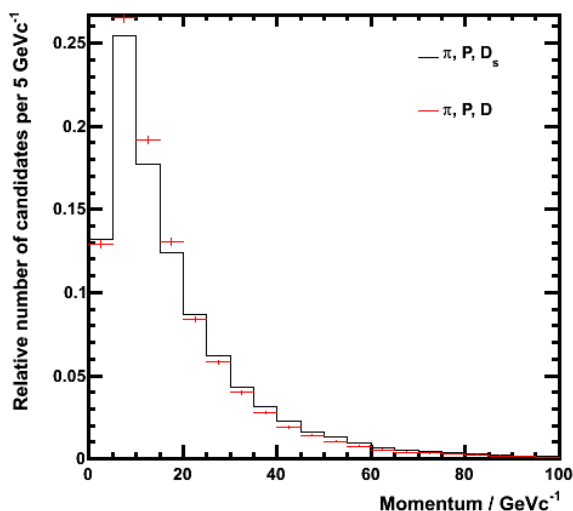
Good introduction in:

Appendix D in Rob's Thesis CERN-THESIS-2009-001 [↗](#)

(which I will not repeat here)

We subtract between two different decays to the same final states, Bs and Bd both to KKPiMu, to eliminate the majority of the detector asymmetry, but some will inevitably remain due to the observed differences in the momentum spectrum of the pions/muons. In order to assign a systematic error to that, we need to measure the detector asymmetry somewhere in the real data and multiply it by the differences in the spectrum.

(plot for $(35.1 \pm 3.5) \text{ pb}^{-1}$)



Real data determinations

The idea on real data is to measure the relative asymmetries in charm decays, and use that to correct distributions of detector asymmetry seen from the MC.

-- RobLambert - 11-Jan-2011

This topic: LHCb > AFSDetector

Topic revision: r1 - 2011-01-11 - RobLambert



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