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LHCb jet performance at $\sqrt{s}=7$

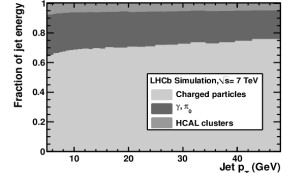
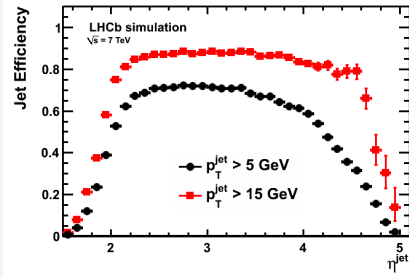
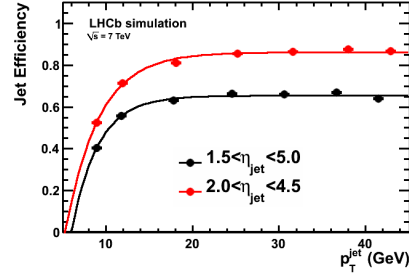
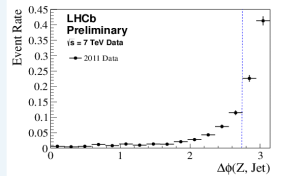
The draft note is available here:

Abstract

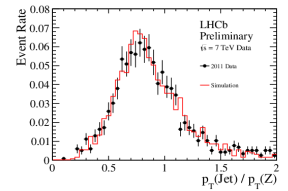
Jet studies at LHCb are presented in this note to support jet measurements performed in this experiment. We discuss inputs used in jet reconstruction, cuts to identify jets and a energy correction approach.

Figures

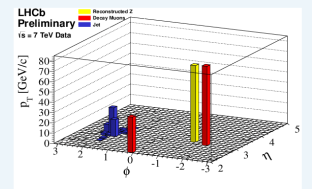
(Note, pdf versions are available under attachments).

Caption	Figure
Particle flow inputs to the jet reconstruction energy fraction with respect to the jet transverse momentum.	
Efficiency of jet reconstruction and identification derived in MC. Jets were selected in Z+jet events, where the jet is back-to-back with the Z. Two cuts on the jet transverse momentum are shown.	
Efficiency of jet reconstruction and identification derived in MC. Jets were selected in Z+jet events, where the jet is back-to-back with the Z. Two regions of jet pseudo-rapidity are shown.	
Difference in PHI between the Z and the jet. The Z is identified in muon decays and jet is reconstructed with the particle flow algorithm. Data 2011 is shown to support the good selection of a jet well balanced with a Z.	

Jet transverse momentum divided by Z transverse momentum. The Z is identified in muon decays. Data 2011 and MC10 are compared. Good agreement between data and simulation is observed.



An event display from 2011 data of a Z+jet candidate.



-- TaraShears - 18-Sep-2012

This topic: LHCb > JetPlots

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