

Measurement of gamma in LHCb

Tuesday, 12 June 2012 10:15 (25 minutes)

The LHCb experiment is a general purpose forward spectrometer operating at the Large Hadron Collider, optimized for the study of B and D hadrons. LHCb collected $\sim 1 \text{ fb}^{-1}$ of integrated luminosity during 2011 data taking, which provides unprecedentedly large samples of B hadron decays to final states involving charmed hadrons. These decays offer many complementary measurements of CP violation, in particular measurements which are sensitive to the angle gamma (ϕ_3) of the CKM unitarity triangle, one of the least well measured parameters of the CKM matrix. We present here world best measurements of CPV in decays sensitive to the angle gamma, including both time dependent and time integrated types of measurements.

Primary author: Mr WHITEHEAD, Mark Peter (University of Warwick (GB))

Presenter: Mr WHITEHEAD, Mark Peter (University of Warwick (GB))

Session Classification: CP Violation

Track Classification: CP Violation