IOP 2014 Joint HEPP & APP Group Meeting



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CP asymmetries in $B \to K^{(\star)} \mu \mu$ decays

Tuesday 8 April 2014 14:00 (15 minutes)

Measurements of the direct CP asymmetry, A_{CP} , and the CP difference in the $\mu^+\mu^-$ forward-backward asymmetry, ΔA_{FB} , are made for the $B^0 \to K^{\star0}\mu^+\mu^-$ and $B^+ \to K^+\mu^+\mu^-$ decay modes using pp collision data corresponding to an integrated luminosity of $3fb^{-1}$ collected by LHCb in 2011 and 2012. The respective control modes $B^0 \to J/\psi K^{\star0}$ and $B^+ \to J/\psi K^+$ are used to account for detection and production asymmetries. The measurements are made in several bins of $\mu^+\mu^-$ invariant mass squared, q^2 , vetoing the ϕ and charmonium resonance regions.

Author: WRIGHT, Simon Robert Magee (University of Cambridge (GB))

Presenter: WRIGHT, Simon Robert Magee (University of Cambridge (GB))

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