

New Physics Searches with b-hadrons at the ATLAS experiment

Thursday, 28 August 2014 14:00 (25 minutes)

Flavour changing neutral currents and precision measurements of CP violation are investigated in ATLAS as probes to new physics beyond the standard model. This talk presents the most recent results on the search for the rare decay $B_s(B^0) \rightarrow \mu^+\mu^-$, as well as providing the latest update on the study of the different angular amplitudes contributing to flavour tagged $B_s \rightarrow J/\psi \phi (\mu^+\mu^-K^+K^-)$ decays. The latter analysis measures the CP-violating phase ϕ_s , as well as the average B_s meson lifetime Γ_s and the decay width difference $\Delta\Gamma_s$.

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