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New physics searches, spectroscopy and decay properties of b-hadrons with the ATLAS experiment

Tuesday 5 May 2015 18:00 (15 minutes)

Latest results in the ATLAS programme of searches and precision measurement of heavy hadrons are presented. It includes observation of an excited $B_c(2S)$ state, measurement of the B_c meson decays, as well as new decay modes of b-hadrons and search for New Physics signatures in processes that are naturally suppressed in the Standard Model. We present the latest search for rare $B_s \rightarrow \mu^+\mu^-$ decay and angular analysis of the semileptonic rare decay $B_d \rightarrow K^*\mu^+\mu^-$ and an updated study of mixing and CP violation in the B_s system with full ATLAS Run-1 data.

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