## Phenomenology 2015 Symposium



Contribution ID: 194 Type: parallel talk

## 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  $B_{\rm c}(2S)$  state, measurement of the  $B_{\rm c}$  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  $B_{\rm s}$  -> mu+mu-decay and angular analysis of the semileptonic rare decay  $B_{\rm c}$  d ->  $K^*$ mu+mu- and an updated study of mixing and CP violation in the Bs system with full ATLAS Run-1 data.

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Session Classification: B Physics

Track Classification: Flavor