## Phenomenology 2021 Symposium



Contribution ID: 1163 Type: Flavor

## ATLAS measurements of CP violation and rare decays processes with beauty mesons

Monday 24 May 2021 18:30 (15 minutes)

The ATLAS experiment has performed measurements of B-meson rare decays proceeding via suppressed electroweak flavour changing neutral currents, and of mixing and CP violation in the neutral B meson systems.

This talk will focus on the latest results from the ATLAS collaboration, such as rare processes  $B^0_s \to mu$  mu and  $B^0 \to mu$  mu, and CP violation in the  $B_s^0 \to J/psi$  phi decays. In the latter, the Standard Model predicts the CP violating mixing phase, phi\_s, to be very small and its SM value is very well constrained, while in many new physics models large phi\_s values are expected. The latest measurements of phi\_s and several other parameters describing the  $B_s^0 \to J/psi$  phi decays will be reported.

## **Summary**

Authors: COLLABORATION, ATLAS; REZNICEK, Pavel (Charles University (CZ))

Presenter: REZNICEK, Pavel (Charles University (CZ))

Session Classification: Flavor II