The 5th international conference on particle physics and astrophysics



Contribution ID : 725

Type : Poster

Measurement of the CP violation in Bs -> J/psi fi decays in pp collisions at sqrt(s) = 13 TeV with the ATLAS detector

Monday, 5 October 2020 19:45 (15)

In the Standard Model of particle physics, CP violation arises due to a single complex phase in the Cabibbo–Kobayashi–Maskawa (CKM) quark mixing matrix. Precise measurements of the CKM parameters therefore constrain the Standard Model, and may reveal new physics effects. The measurement of the time–dependent decay rates of Bs -> J/ $\psi \phi$ provides a theoretically clean method for extracting CP–violating weak mixing phase phi_s. This poster will present the most recent results from ATLAS on the CP-violating mixing phase phi_s and on several other parameters describing the Bs meson system.

Primary author(s) : MESHKOV, Oleg (Lomonosov MSU, P.N. Lebedev Physical Institute); COLLABORATION, ATLAS

Presenter(s): MESHKOV, Oleg (Lomonosov MSU, P.N. Lebedev Physical Institute)

Session Classification : Poster session

Track Classification : High energy physics