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Type: **Talk**

ATLAS measurement of CP Violation with Beauty mesons

Monday 7 September 2020 18:10 (25 minutes)

The ATLAS experiment has performed accurate measurements of mixing and CP violation with the neutral B mesons. This talk will focus on the latest results from ATLAS on the CP violation in B_s to $J/\psi \phi$ decays. The Standard Model predicts the CP violating phase, ϕ_s , to be very small and its SM value is very well constrained, while in many new physics models large ϕ_s values are expected. The $B_s^0 \rightarrow J/\psi \phi$ decay channel is sensitive to new physics contributions, and even small deviations in a measurement of ϕ_s would be hints for the existence of new particles.

Is this abstract from experiment?

Yes

Is the speaker for that presentation defined?

Yes

Name of experiment and experimental site

ATLAS, <http://atlas.cern/>

Internet talk

Yes

Details

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Session Classification: Plenary