Contribution ID: **181** Type: **Talk**

Measurement of the weak mixing phase phi_s through time-dependent CP violation in $B_s^0 \to J/\psi\phi$ decay in ATLAS

Wednesday, 29 July 2020 19:38 (15 minutes)

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 B0s—>J/psi phi provides a theoretically clean method for extracting CP–violating weak mixing phase phi_s.
This talk will present the most recent results from ATLAS on the CP-violating mixing phase phi_s and on several other parameters describing the B0s meson system.

I read the instructions

Secondary track (number)

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