XXVIII International Workshop on Deep Inelastic Scattering and Related Subjects



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ATLAS measurements of CP Violation and Rare decays processes with Beauty mesons

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The ATLAS experiment has performed accurate measurements of mixing and CP violation in the neutral B mesons, and also of rare processes happening in electroweak FCNC-suppressed neutral B-mesons decays. This talk will focus on the latest results from ATLAS, such as rare processes: $B^0_s \to mu$ mu and $B^0 \to mu$ mu; and CPV in Bs to Jpsi Phi, where Standard Model predicts the CP violating phase, phi_s, to be very small and is very well constrained, while in many new physics models large phi_s values are expected. The $Bs0 \to J/psi$ phi decay channel is sensitive to the new physics contributions, and already small deviations in a measurement of phi_s would be hints for the existence of the new particles.

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