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Type: **Ordinary**

Heavy Flavor Measurements at LHC

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ATLAS and CMS measurements in the area of heavy flavor physics are reviewed with focus on the most recent results. The topics discussed include heavy flavor production rates and properties, exclusive b-hadron production, with attention to the recent observations of rare b-hadrons and to the measurements of Λ_b production cross section, lifetime and mass. Differential production cross sections and polarization measurements of Upsilon states are presented, along with production ratios of χ_c states in the charmonium system. Evidence for a new χ_b state and observations of structures in the J/ψ ϕ spectrum from B^{+-} decays to J/ψ ϕ K^{+-} in the CMS data are also reported. Precision studies of the B_s system and determination of CP-violation sensitive parameters are discussed. Finally the status of the searches for rare decays is presented.

Summary

ATLAS and CMS heavy flavor measurements are reviewed with focus on the most recent results. The topics discussed include heavy flavor production rates, exclusive b-hadron production, differential production cross sections and polarization measurements of Upsilon states, production ratios of χ_c charmonium states, evidence of rare or new b-hadron states, studies of the B_s system and determination of the CP-violating phase and searches for rare decays.

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