

# Phenomenology 2021 Symposium



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## ATLAS results on charmonium and $B_c$ and exotic heavy hadrons

*Wednesday 26 May 2021 18:00 (15 minutes)*

Recent results from the proton-proton collision data taken by the ATLAS experiment on the charmonium production and  $B_c$  production and exotic heavy hadrons will be presented. The measurement of  $J/\psi$  and  $\psi(2S)$  differential cross sections at large transverse momentum values will be reported as measured on the whole Run 2 dataset at 13 TeV centre-of-mass energy. The measurement of the differential ratios of the  $B_c$  and  $B^+$  production cross sections at 8 TeV will be reported. Studies of the pentaquarks with hidden charm in the  $\Lambda_b$  decays in proton-proton collisions at 7 - 8 TeV will also be discussed.

### Summary

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