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## ATLAS results on charmonium production and $B_c$ production and decays

*Thursday 2 December 2021 17:10 (20 minutes)*

Recent results from the proton-proton collision data taken by the ATLAS experiment on charmonium production and on  $B_c$  production and decays will be presented. The measurement of the associated production of the  $J/\psi$  meson and a gauge boson, including the separation of single and double parton scattering components, will be discussed. The measurement of  $J/\psi$  and  $\psi(2S)$  differential cross sections will be reported as measured on the whole Run 2 dataset. The measurement of the differential ratios of the  $B_c^+$  and  $B^+$  production cross sections at 8 TeV will also be shown. New results on the  $B_c$  decays to  $J/\psi D_s^{(*)}$  final states obtained with the Run 2 data at 13 TeV will be detailed.

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