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ATLAS results on charmonium production and B_c production and decays

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Recent results from the proton-proton collision data taken by the ATLAS experiment on the charmonium production and on the B_c production and decays will be presented. The measurement of the associated production of the J/ψ meson and a gauge boson, including the separation of single and double parton scattering components, will be discussed. The measurement of J/ψ 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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