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Measurement of the production cross-section of J/ψ and $\psi(2S)$ mesons at high transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV with the ATLAS detector

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The measurements of the prompt and non-prompt differential cross-sections of J/ψ and $\psi(2S)$ mesons in high transverse momentum range are reported. The measurements of the non-prompt fractions of $\psi(2S)$ and J/ψ , and prompt and non-prompt production ratios of $\psi(2S)$ to J/ψ are also presented. The analysis is performed using pp collision data recorded by the ATLAS detector at $\sqrt{s} = 13$ TeV during Run 2 of the LHC, corresponding to 139/fb of integrated luminosity.

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