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Conventional and exotic charmonium production at the ATLAS experiment

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We present detailed precision measurements of the prompt and non-prompt differential production cross sections for the J/psi, psi2s, chi_c and X(3872) charmonium states at sqrt(s)=8 TeV, covering J/psi and psi2s -> mumu, psi2s->J/psi pipi and chi_c. The results are compared with leading theoretical models.

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