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Exclusive J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s}=7$ TeV

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Exclusive J/ψ and $\psi(2S)$ vector meson production has been observed in the dimuon channel using the LHCb detector. The cross-section times branching fractions to two muons with pseudorapidities between 2.0 and 4.5 are measured and are found to be in good agreement with results from previous experiments and theoretical predictions. The J/ψ photoproduction cross-section is reported as a function of the photon-proton centre-of-mass energy, and is shown to be consistent with measurements obtained at HERA with power law behaviour.

Author: CALVI, Marta (Universita & INFN, Milano-Bicocca (IT))

Presenter: Dr MCNULTY, Ronan (University College Dublin (IE))

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