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Exclusive dimuon measurements with LHCb (15'+5')

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We report on studies of exclusive dimuon production, using LHCb experimental data. Muon pairs can be exclusively produced by two-photon fusion (a QED process ideally suited to obtaining a precise integrated luminosity measure), or by resonance production. We show results for exclusive dimuon production, and first observations of the exclusive J/Ψ , $\Psi(2S)$ and χ_{c0} states, obtained with 37 pb⁻¹ of data at $\sqrt{s} = 7$ TeV. We compare our cross-section measurements to predictions.

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