## Observation of associated W and J/psi production at ATLAS

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Compared to inclusive J/psi production, the associated production of weak vector bosons and J/psi mesons in hadron collisions selects a different set of partonic initial states and provides complementary information on quarkonium production mechanisms. Using 4.6 inverse femtobarns of pp collisions at sqrt(s) = 7 TeV recorded by ATLAS, we observe and measure the rate of W+J/psi associated production, estimate the fraction due to multiple parton interactions, and compare the results with theoretical predictions of the color singlet and color octet models.

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