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Associated production of a J/ψ + photon at ATLAS

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The aim of this analysis is to study the process $pp \rightarrow J/\psi + \text{photon} + X$, in order to understand the production mechanisms of this final state, and possibly to assess some information on the spin structure of the gluon distribution inside the proton. Analysing the subprocess $g+g \rightarrow J/\psi + \text{photon}$ there is the prospect of seeing azimuthal modulations in the Collins-Soper frame, induced by the polarization of the gluons. The analysis is using the data collected during Run2 by the ATLAS experiment at CERN.

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