Production of high \( p_T \) \( J/\psi \) in p+p collisions at \( \sqrt{s_{NN}} = 200 \text{ GeV} \) in STAR

BARBARA TRZECIAK, Warsaw University of Technology/LBNL, STAR COLLABORATION — Suppression of the \( J/\psi \) production by color screening in ultra-relativistic heavy-ion collisions was suggested as the signature of the Quark-Gluon Plasma formation. Measurement of \( J/\psi \) production in p+p collisions is a baseline measurement which allows to verify the \( J/\psi \) suppression in A+A collisions and could provide information about the \( J/\psi \) production mechanism. Run 2008 p+p STAR data was taken with reduced detector material, therefore it has significantly reduced background compare to the earlier runs. In this presentation, the preliminary analysis of mid-rapidity \( J/\psi \) production at high transverse momentum through dielectron decay channel in p+p collisions at \( \sqrt{s_{NN}} = 200 \text{ GeV} \) from year 2008 will be shown.