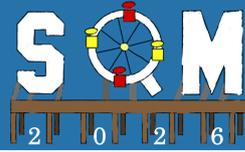


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J/ψ production as a function of event activity in $p+p$ collisions at $\sqrt{s} = 510$ GeV at STAR

Tuesday, 24 March 2026 19:00 (1 minute)

In this poster, we present measurements of J/ψ meson production in $p+p$ collisions at $\sqrt{s} = 510$ GeV as a function of event activity. The J/ψ mesons are reconstructed via their dielectron decay channel at mid-rapidity ($|y| < 1$) for the transverse-momentum range $4 < p_T < 12$ GeV/ c . We observe a faster-than-linear increase in J/ψ production with respect to the mid-rapidity charged-particle multiplicity density, with RHIC data seeming to follow a different trend than LHC measurements. These results will help improve our understanding of quarkonium production in $p+p$ collisions and constrain theoretical models that incorporate such effects as multi-parton interactions and color-string percolation.

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Session Classification: Poster Session