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Transverse Single Spin Asymmetry in $ep^{\uparrow} \rightarrow e+J/\psi + X$

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We discuss the possibility of using electroproduction of J/ψ as a probe of gluon Sivers function by measuring single spin asymmetry in experiments with transversely polarized protons and electron beams. We estimate SSA for JLab, HERMES, COMPASS and eRHIC energies using color evaporation model of charmonium production and find asymmetry up to 25 % for certain choices of model parameters which have been used earlier for estimating SSA in SIDIS and Drell Yan process.

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