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Inclusive Charmonium Production in Deep Inelastic Scattering at HERA

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Results of an analysis of *inclusive* production of J/ψ mesons in ep scattering at HERA in the kinematic region of the virtuality $2 < Q^2 < 80$ GeV^2 are presented. J/ψ mesons are detected via their leptonic decays into two muons or electrons. The cross section for the reaction $e^+p \rightarrow e\, J/\psi X$ is evaluated as a function of Q^2, the transverse momentum p_t^2 of the J/ψ, its inelasticity z and the rapidity in the centre of mass frame of the virtual photon and proton. The decay angular distribution of the J/ψ is analysed in the helicity frame. The fully inclusive distributions and also those for the "inelastic" region $z < 0.9$ are compared to a leading order calculation with coulor singlet and colour octet contributions.