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Measurement of $B_c^+ \to J/\psi\mu^+\nu$ Cross Section Times Branching Ratio Relative to $B^+ \to J/\psi K^+$ with the CDF II Detector TURGUN NIGMANOV, University of Michigan, CDF COLLABORATION — The production cross section times branching ratio for $B_c^\pm \to J/\psi\mu^\pm\nu$ relative to $B^\pm \to J/\psi K^\pm$ is measured using an inclusive J/ψ trigger stream with an integrated luminosity of 1 fb^{-1}. The results are an update of earlier work by the CDF Collaboration that used an integrated luminosity of 360 pb^{-1}. The measurement is made in the kinematic region $-1.0 < \eta < 1.0$ for both $p_T(B_c) > 4$ and 6 GeV/c. The new results along with a comparison with earlier results will be presented.

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