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Charm Content in Jets from p+p Collisions at $\sqrt{s}$ = 200GeV
XIN DONG, Lawrence Berkeley National Lab, STAR COLLABORATION — In hadron collisions at high energies, the charm content in jets can be calculated in perturbative QCD. Gluon fusion into heavy flavor pair results in a hard contribution to the fragmentation into charm hadrons, while gluon splitting process results in a soft contribution. We report the measurements of $D^{*\pm}$ production in jets from p+p collisions at $\sqrt{s} = 200$ GeV with the STAR experiment at RHIC. The measurements give insight in the charm production mechanism, which is of importance to both the heavy ion and spin physics programs at RHIC.

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