## Abstract Submitted for the APR16 Meeting of The American Physical Society

Measurement of Z boson + heavy flavor jet production in pp collisions at  $\sqrt{s}=8$  TeV ANDREW GODSHALK, State University of New York at Buffalo, CMS COLLABORATION — We present results on the heavy flavor jet production in association with the Z boson using proton-proton collision data collected with the CMS detector at a center of mass energy  $\sqrt{s}=8$  TeV. We discuss, in particular, the measurement of the ratio of cross-sections,  $\sigma(Z+c-jet)/\sigma(Z+jets)$  and  $\sigma(Z+b-jet)/\sigma(Z+jets)$ . Studies of these processes provide tests of perturbative QCD predictions and non-perturbative effects. These processes are also important backgrounds to many precision SM measurements as well as to searches for new physics.

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