

Abstract Submitted
for the APR11 Meeting of
The American Physical Society

Measurement of the $B_s \rightarrow J/\psi\phi$ Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV in the CMS experiment at LHC GIORDANO CERIZZA, U of Tennessee, CMS COLLABORATION — I present measurements of the differential production cross section in bins of transverse momentum, $d\sigma/dp_T$, and rapidity, $d\sigma/d|y|$, for the decay $B_s \rightarrow J/\psi\phi$ in proton-proton collisions at $\sqrt{s} = 7$ TeV. The data correspond to an integrated luminosity of 40 pb^{-1} collected by the Compact Muon Solenoid experiment operating at the CERN Large Hadron Collider in 2010. The B_s decay is fully reconstructed with J/ψ decaying into $\mu^+\mu^-$ and ϕ into K^+K^- . The cross section measurements are compared to several theoretical predictions.

Greg Landsberg
Brown University

Date submitted: 13 Jan 2011

Electronic form version 1.4