Abstract Submitted
for the APR15 Meeting of
The American Physical Society

Measurements of the Mass of the Top Quark with sqrt(s) = 8 TeV CMS Data RICHARD NALLY[1], Brown Univ, COMPACT MUON SOLENOID COLLABORATION — The mass of the top quark is an important parameter of the Standard Model, and has been studied continuously for almost twenty years. We present measurements of the mass of the top quark from the full 2012 Compact Muon Solenoid (CMS) dataset, corresponding to an Integrated luminosity of 19.7 fb^{-1} of proton-proton collisions at a center-of-mass energy of $\sqrt{s}$ = 8 TeV. We measure the mass of the top quark in events with top-antitop pair decays, with zero-, one-, or two-lepton final states with jets. Events are reconstructed with the ideogram method and the Analytical Matrix Weighting Technique (AMWT).

[1]Richard Nally, on behalf of the CMS Collaboration

Richard Nally
Brown Univ

Date submitted: 06 Jan 2015 Electronic form version 1.4