

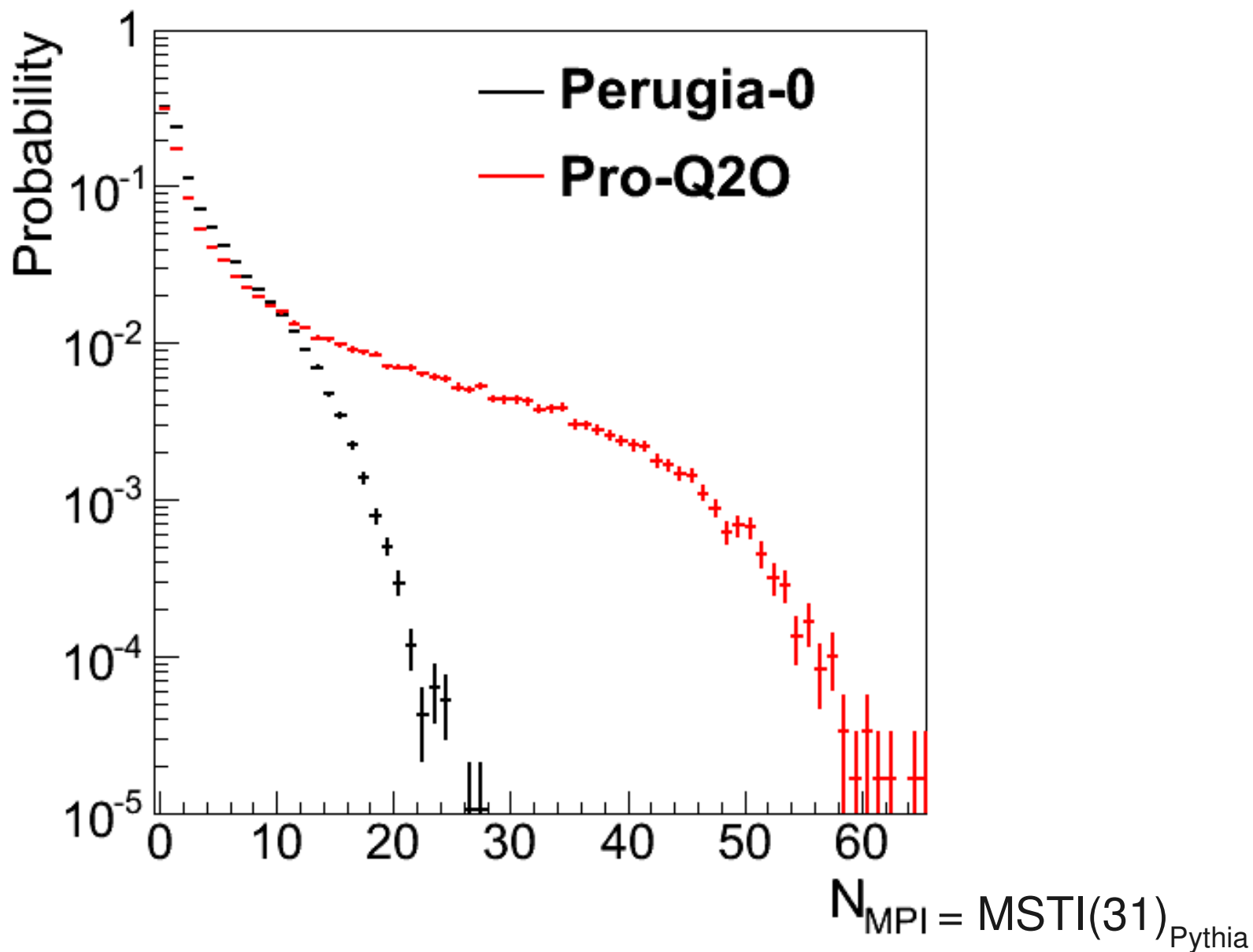
WESTFÄLISCHE
WILHELMS-UNIVERSITÄT
MÜNSTER

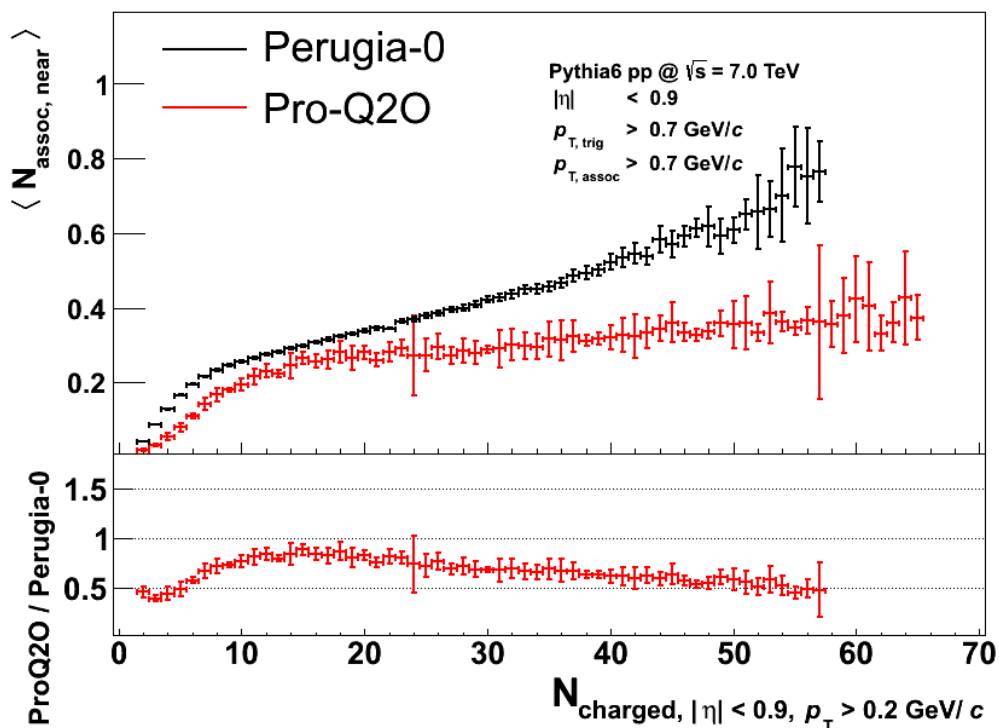


Multiplicity Dependence of Two-Particle Correlations in Proton-Proton Collisions

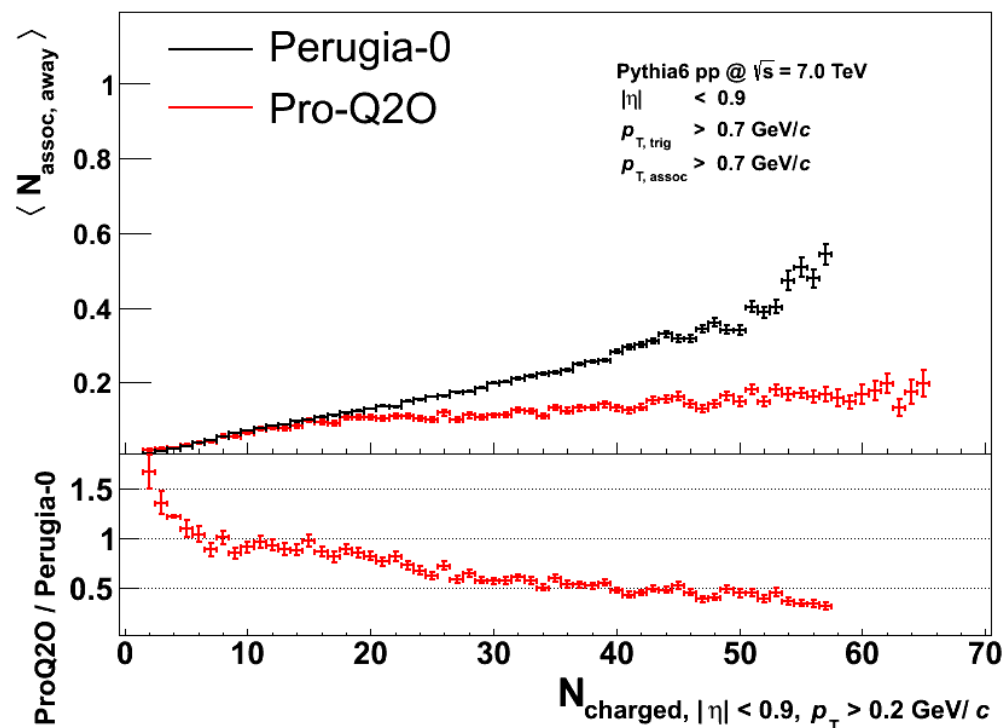
Eva Sicking^{1,2} on behalf of the ALICE Collaboration
¹Institut für Kernphysik, Universität Münster, Germany
²CERN, Switzerland

Collider Cross Talk, 01-11-2012

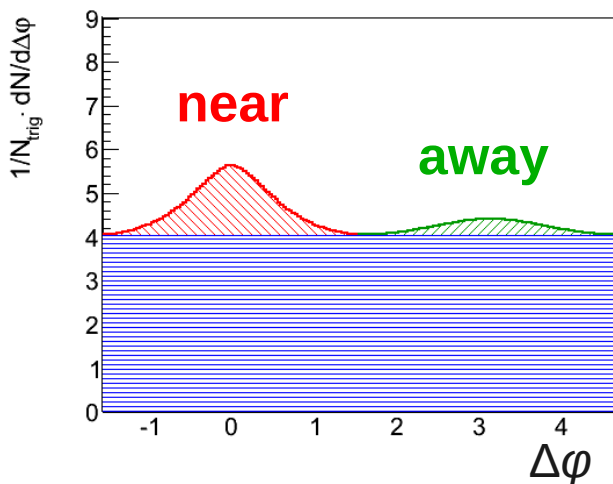


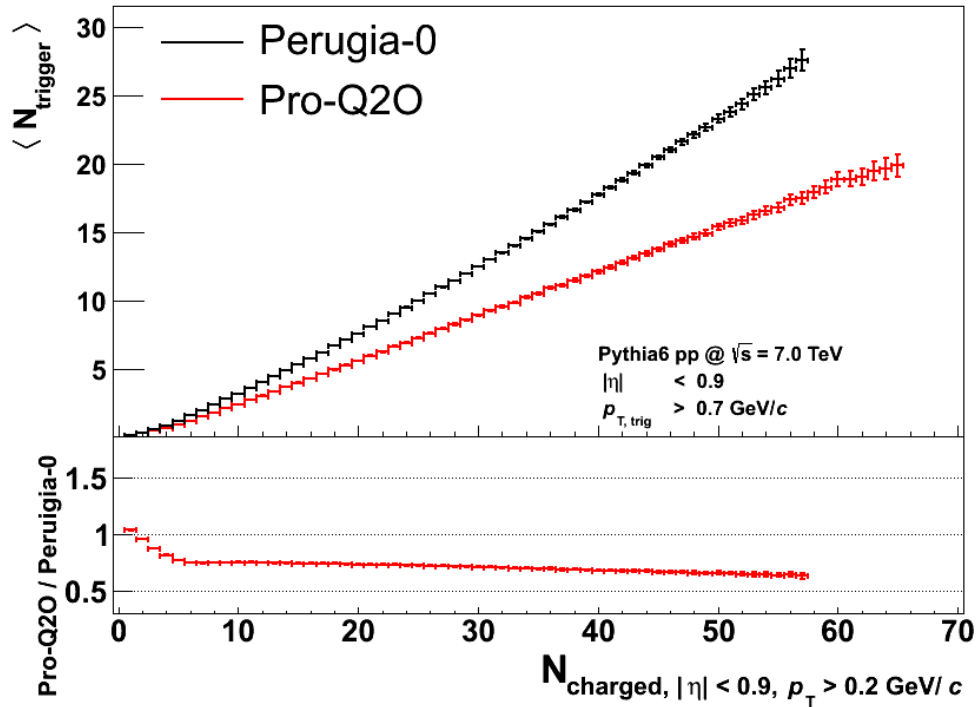


Near side

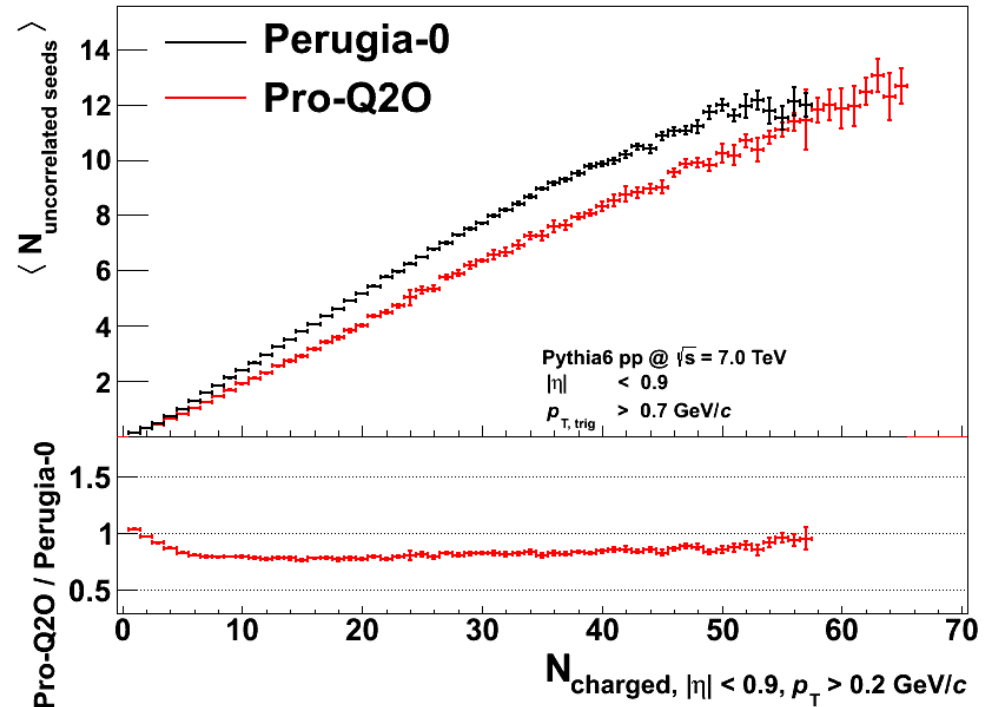


Away side





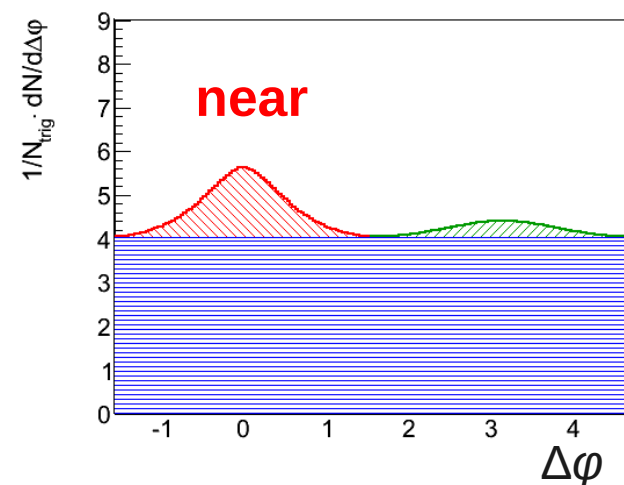
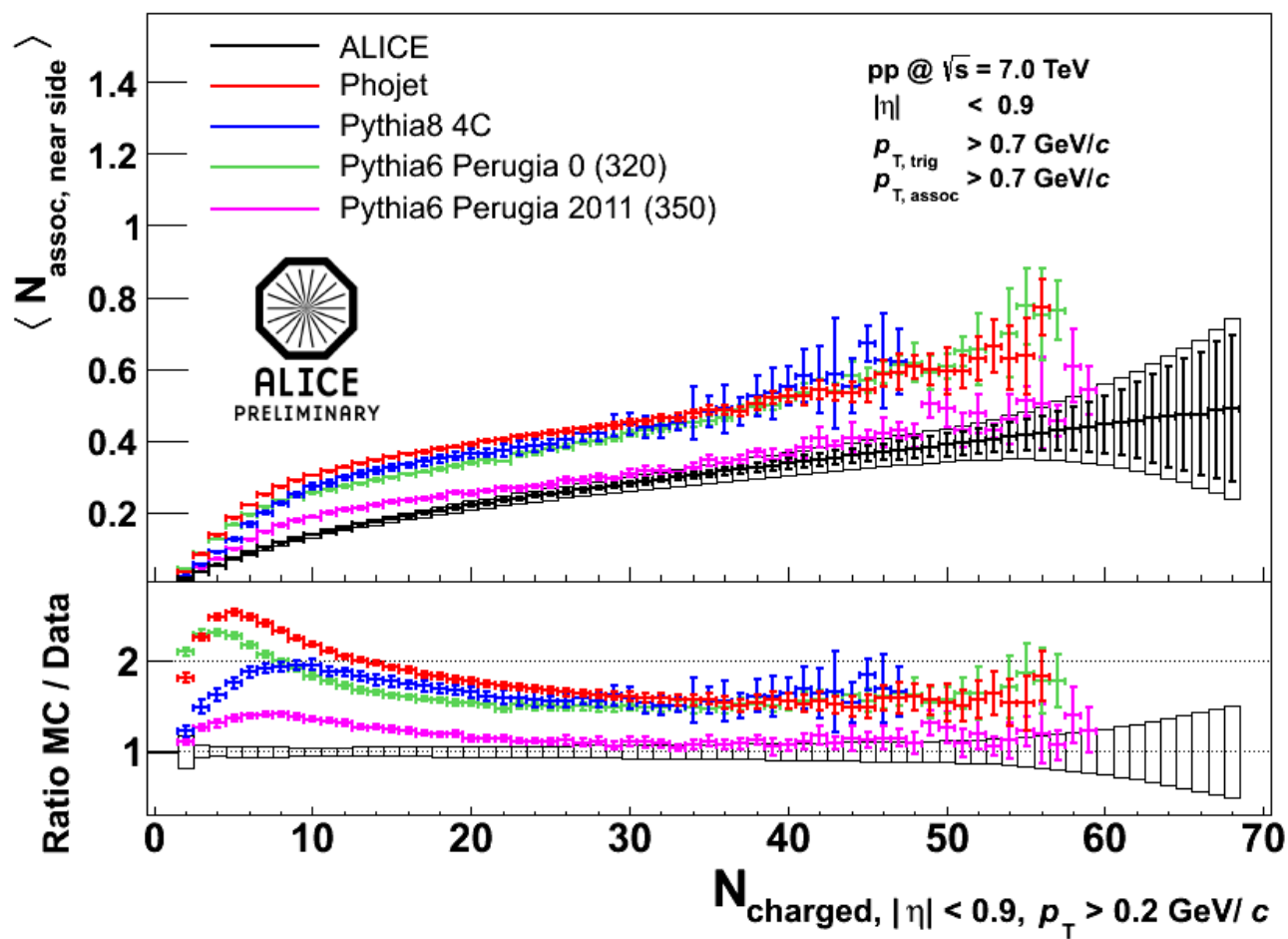
$\langle N_{\text{trigger}} \rangle$

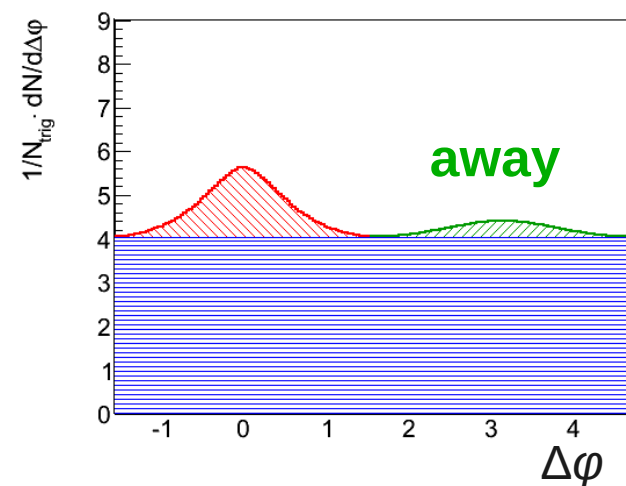
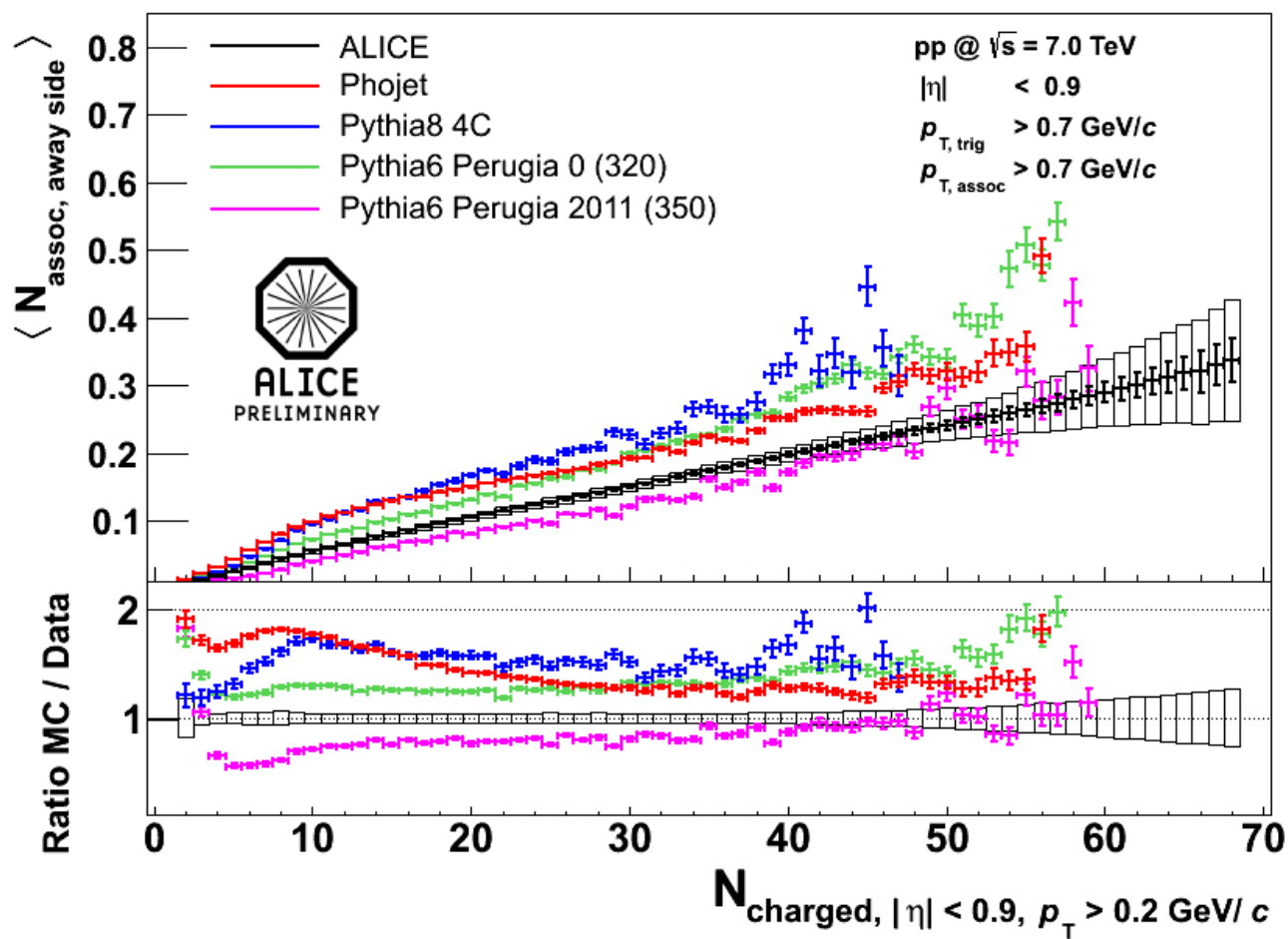


$\langle N_{\text{uncorrelated seeds}} \rangle$

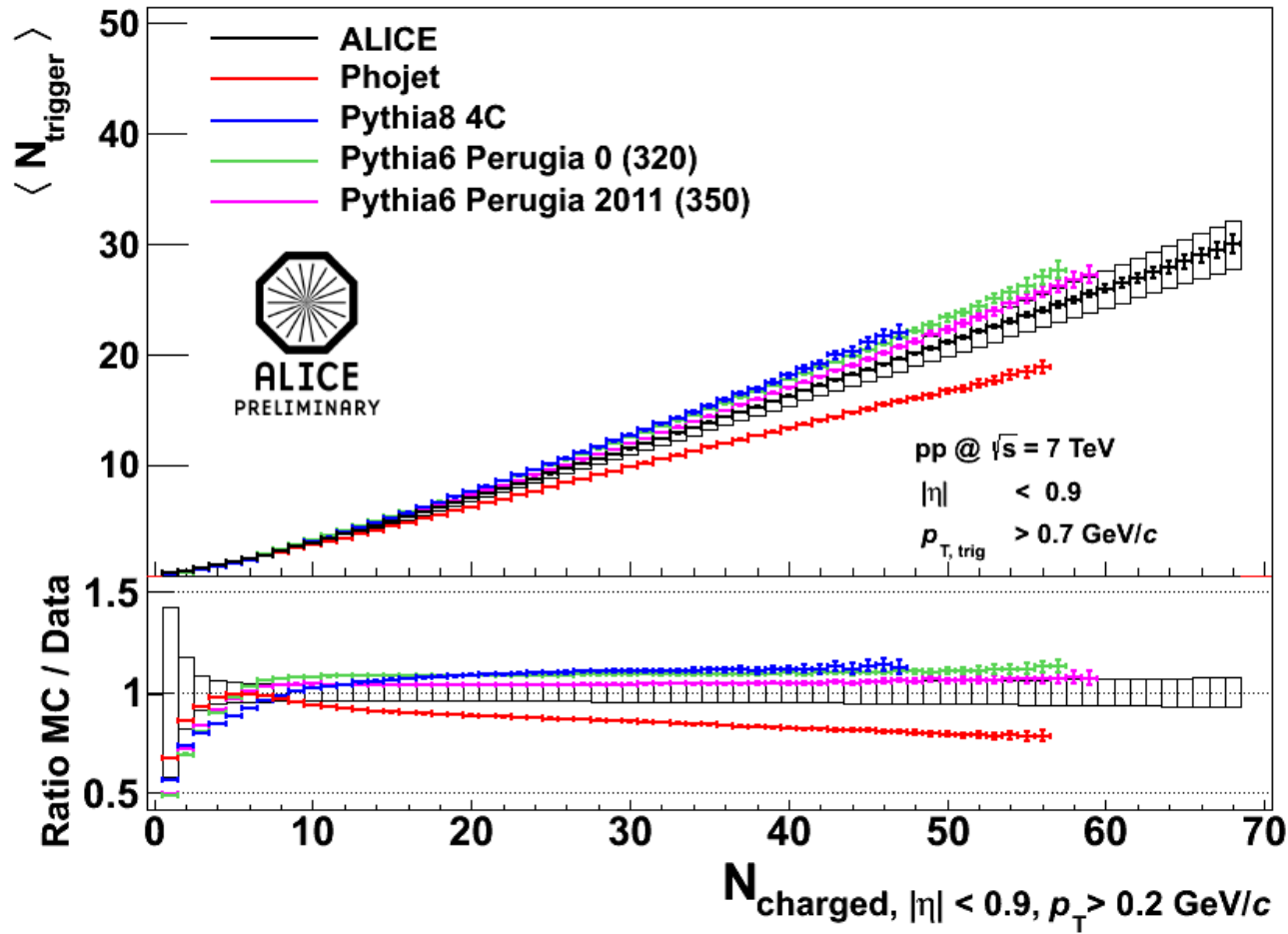
$$\langle N_{\text{uncorrelated seeds}} \rangle = \frac{\langle N_{\text{trig}} \rangle}{\langle 1 + N_{\text{assoc}, \text{near} + \text{away}}(p_T > p_{T, \text{trig}}) \rangle}$$

Per-Trigger Near Side Pair Yield

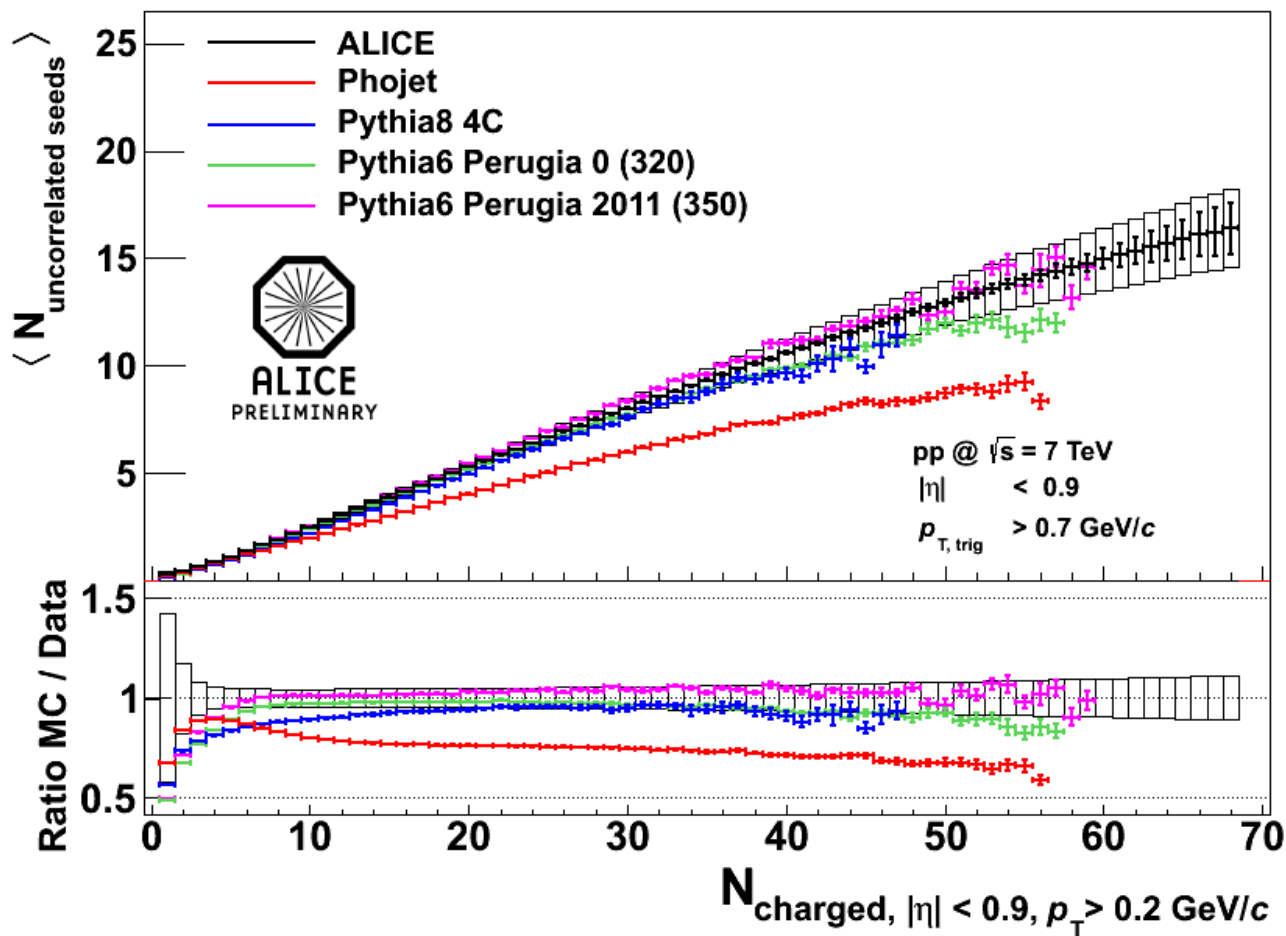




Number of Trigger Particles



Number of Uncorrelated Seeds



$$\langle N_{\text{uncorrelated seeds}} \rangle = \frac{\langle N_{\text{trig}} \rangle}{\langle 1 + N_{\text{assoc, near+away}}(p_T > p_{T, \text{trig}}) \rangle}$$

$\langle N_{\text{uncorrelated seeds}} \rangle$ and linear fit

