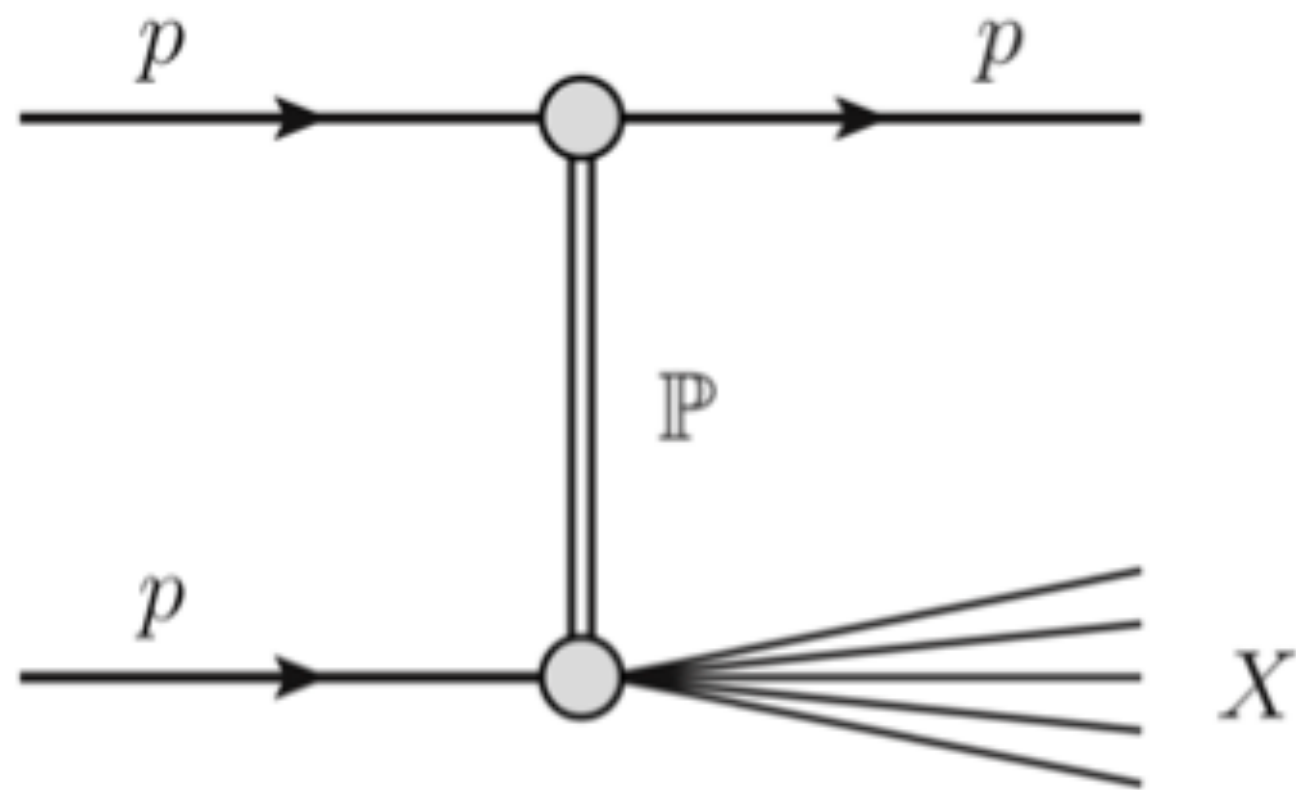


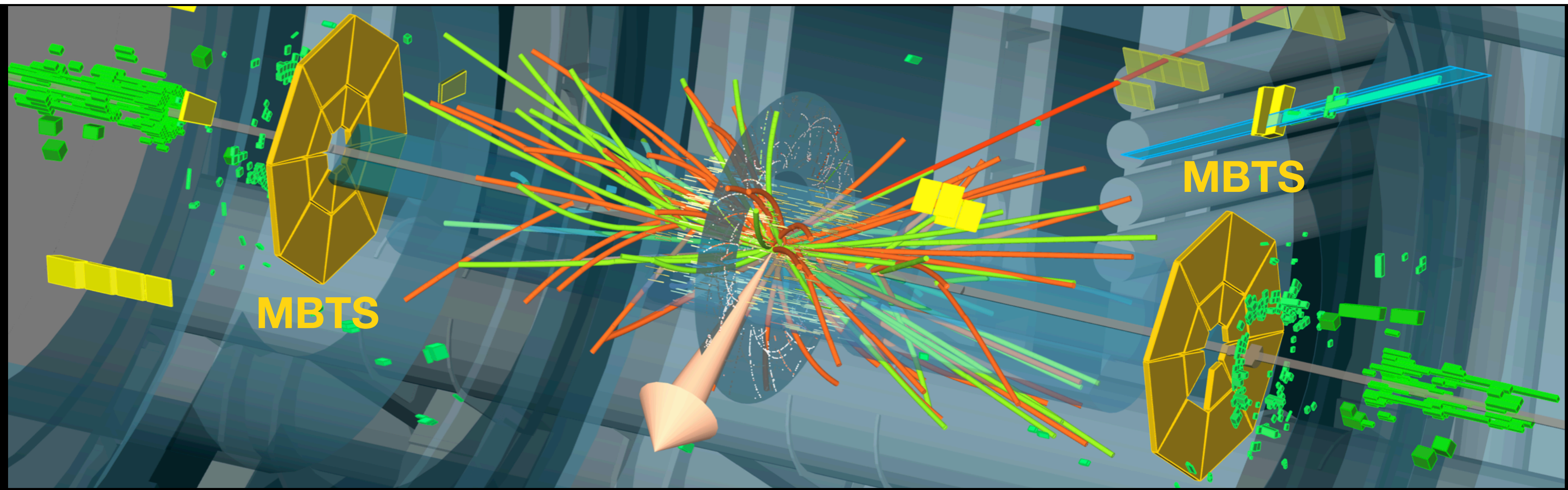
Run 3 Minbias

Use low pile-up run, trigger on MBTS, measure track distributions



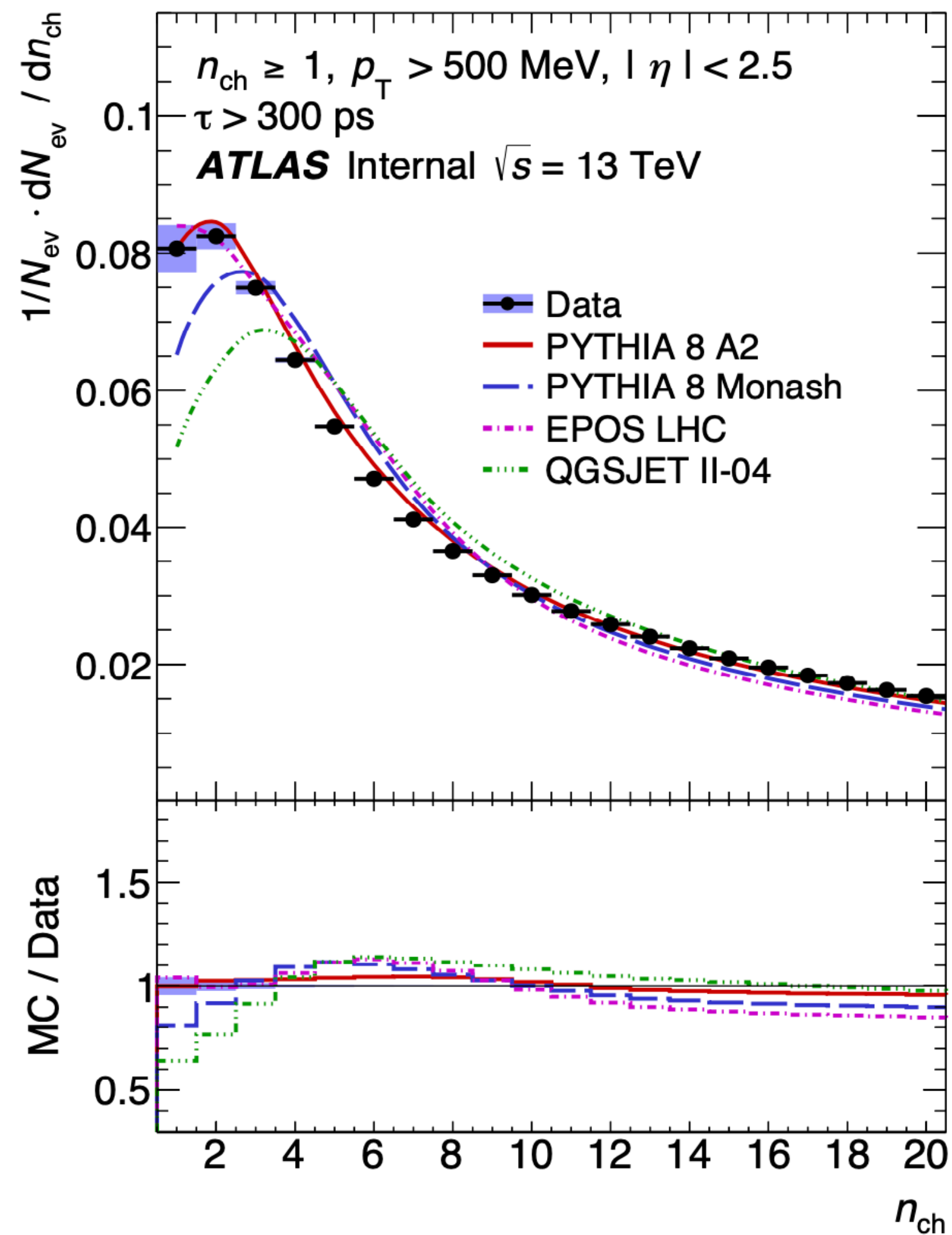
Example of minimum bias process: Single diffraction

<https://indico.cern.ch/event/1467719>

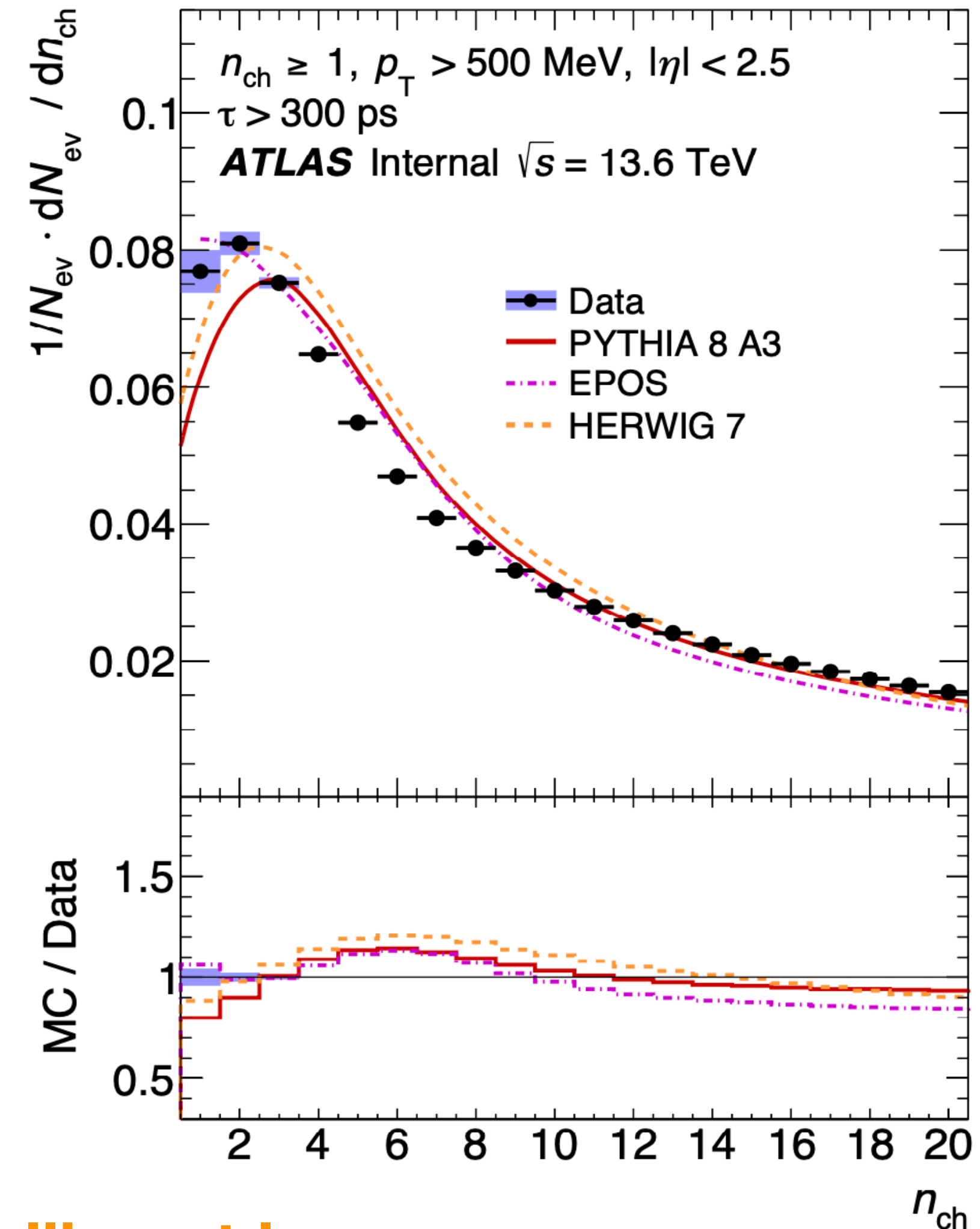


Number of charged particles

Run 2



Run 3

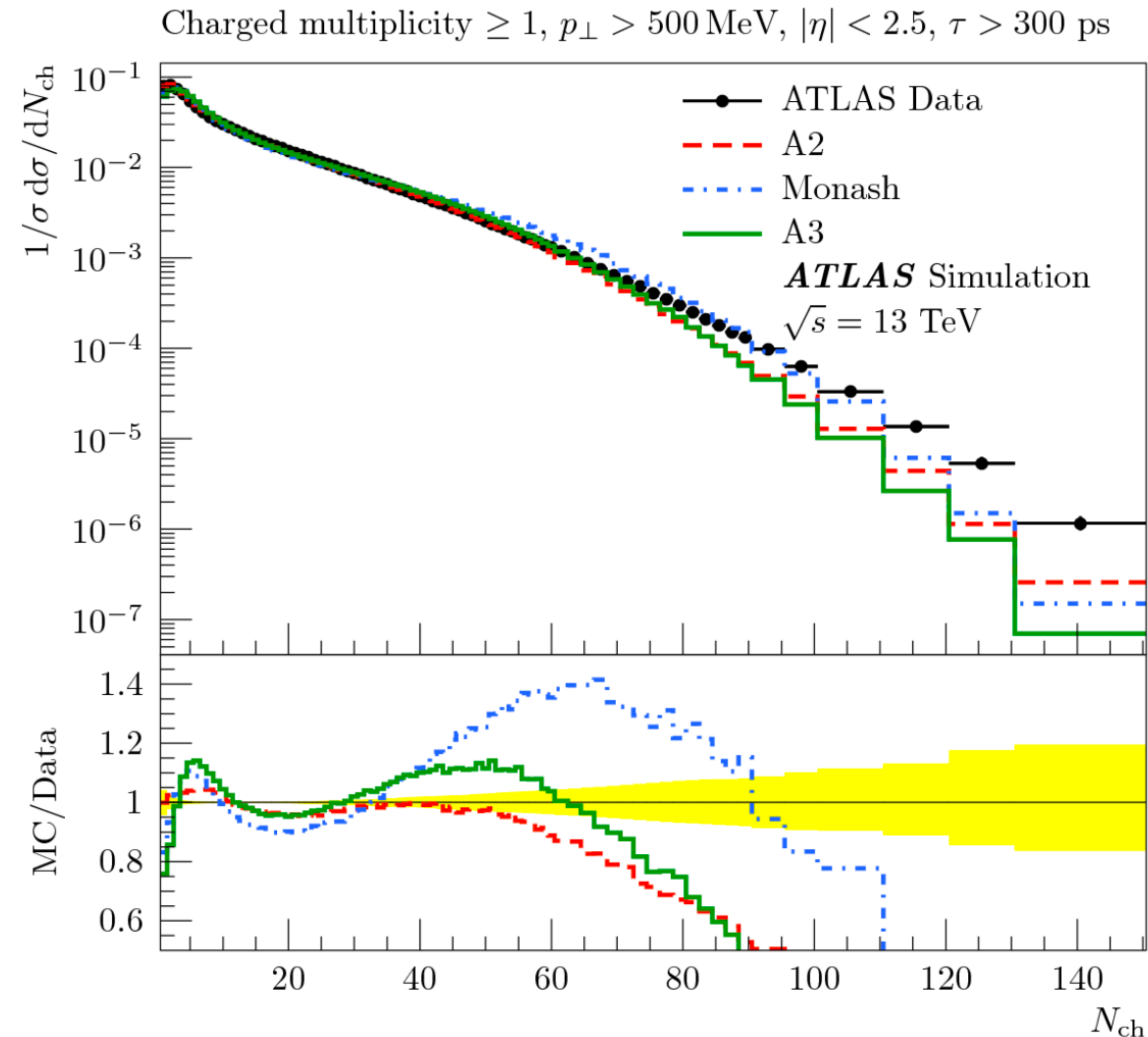


Pythia 8 A3 mis-modelling at low n_{ch}

→ Follow up if low n_{ch} was included in Pythia 8 A3 tuning or not?

Number of charged particles

From <https://cds.cern.ch/record/2206965> Pythia 8 A3 undershooting data at low nch



Indeed, A3 should have a different cross-section, as we tuned it using the ATLAS inelastic cross-section measurement to better model pileup!