

Diffraction dissociation of protons in proton-proton collisions at $\sqrt{s} = 0.9$ TeV, 2.76 TeV and 7 TeV with ALICE at the LHC

Monday, May 23, 2011 4:40 PM (20 minutes)

(for the ALICE Collaboration)

The relative rates of single- and double- diffractive processes were measured with the ALICE detector by studying properties of gaps in the pseudorapidity distribution of particles produced in proton-proton collisions at $\sqrt{s} = 0.9$ TeV, 2.76 TeV and 7 TeV. ALICE triggering efficiencies were determined for various classes of events, using a detector simulation validated with data on inclusive particle production. Cross-sections were determined using van der Meer scans to measure beam properties.

Primary author: Dr POGHOSYAN, Martin (Universita & INFN, Torino)

Presenter: Dr POGHOSYAN, Martin (Universita & INFN, Torino)

Session Classification: Global and collective dynamics

Track Classification: Global and collective dynamics