Contribution ID: **89**   Type: **not specified**

Hard diffraction and proton tagging at the LHC

Many standard model processes in proton-proton collisions at the LHC are produced through diffractive interactions where one or both protons may survive the collisions. The dominant production of diffractive interactions is where only one proton emerges intact (hard single diffraction). We propose using the LHC data to study the diffractive production of EW boson and heavy flavor quarks as a new probe for constraining diffractive components.

Presenter: PITT, Michael (CERN)

Session Classification: Photon-photon physics and hard diffraction

Track Classification: Photon-photon physics and hard diffraction