Contribution ID: **819** Type: **Poster**

Search for chargino and neutralino production with three leptons and missing transverse momentum in the final states at sqrt(s) = 13 TeV with the ATLAS detector

Monday 15 July 2019 19:40 (20 minutes)

A search is presented for the direct pair production of a chargino and a neutralino pp⟶$\tilde{\chi}$±1$\tilde{\chi}$02, where the chargino decays to the lightest neutralino and the W boson, $\tilde{\chi}$±1⟶$\tilde{\chi}$01(W±⟶ℓ±ν), while the neutralino decays to the lightest neutralino and either the Z boson $\tilde{\chi}$02⟶$\tilde{\chi}$01(Z⟶ℓℓ) or the 125 GeV Higgs boson, $\tilde{\chi}$02⟶$\tilde{\chi}$01(h⟶ℓℓ). The final states considered for the search have large missing transverse momentum and three isolated light leptons (electrons and muons). The analysis is based on √s=13 TeV proton-proton collision data delivered by the Large Hadron Collider and recorded with the ATLAS detector.

Author: JUSTE ROZAS, Aurelio (ICREA and IFAE (ES))

Presenter: TROVATO, Fabrizio (University of Sussex (GB))

Session Classification: Wine & Cheese Poster Session

Track Classification: Searches for New Physics