



MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

Contribution ID: 67

Type: **Presentation**

Searches for electroweakly produced supersymmetry with CMS

Monday, July 31, 2017 1:30 PM (16 minutes)

In supersymmetry, most solutions to the hierarchy problem feature light higgsinos, since it is the most important ingredient to stabilize the Standard Model higgs mass. Light higgsinos, however, are notoriously difficult to detect. This talk will outline the challenges of finding higgsinos and present various search results and techniques, that focus on supersymmetric models where colored sparticles are out of reach at the LHC and electroweakino production is the dominant process beyond the Standard Model. The searches are performed on data corresponding to an integrated luminosity of 36 fb⁻¹ and a center of mass energy of 13 TeV, recorded with the CMS detector at the CERN LHC in 2016.

Primary author: Mr SCHNEIDER, Basil (FNAL)

Presenter: Mr SCHNEIDER, Basil (FNAL)

Session Classification: Beyond Standard Model

Track Classification: Beyond Standard Model