Contribution ID: **277** Type: **not specified**

Searches for Dark Matter at the LHC

Monday 24 August 2015 11:30 (30 minutes)

Astrophysical observations have provided compelling proof for the existence of a non-baryonic dark component of the universe: Dark Matter (DM). The DM abundance is precisely measured but its nature is still not known. A compelling hypothesis is that the DM is composed of a weakly interacting massive particle (WIMP) which can be produced and detected at the LHC. This talk will present an overview of the DM search programs in the ATLAS and CMS collaborations, both in terms of experimental strategies and theoretical benchmark models. The talk will outline the most important results from LHC Run I as well as the sensitivity prospects and, when available, the new results from Run II.

Primary author: PANI, Priscilla (Stockholm University (SE))

Presenter: PANI, Priscilla (Stockholm University (SE))

Session Classification: Plenary

Track Classification: Plenary Talks