



Contribution ID: 704

Type: talk

Impact of electroweak precision measurements for dark matter constraints

Friday, July 24, 2015 2:30 PM (12 minutes)

We study SUSY models in the context of LHC searches and LHC exclusion bounds and explore models in the parameter range that may be accessible at future colliders.

We study in particular the impact of precision measurements of masses, cross sections and further observables, for instance as forward-backward asymmetries, to determine the fundamental SUSY parameters for dark matter predictions. We focus in particular on the impact of electroweak loop corrections.

We perform our dark matter predictions from the model-independent parameter determination at full one-loop order corrections and study which observables are most powerful with regard to the dark matter constraints.

Primary author: MOORTGAT-PICK, Gudrid (University of Hamburg/DESY)

Co-authors: BHARUCHA, Aoife (CNRS Marseille); WEIGLEIN, Georg Ralf (Deutsches Elektronen-Synchrotron (DE)); KALINOWSKI, Jan (University of Warsaw (PL)); ROLBIECKI, Krzysztof (Institute of Theoretical Physics, Warsaw University)

Presenter: MOORTGAT-PICK, Gudrid (University of Hamburg/DESY)

Session Classification: Higgs and New Physics

Track Classification: Higgs and New Physics