



Contribution ID: 123

Type: **Parallel talks**

## Dark Matter Direct Detection and Collider Search Complementarity

*Wednesday 19 July 2023 18:00 (20 minutes)*

We discuss Dark Matter (DM) in combination of  $(g - 2)_\mu$  in the MSSM. Six different scenarios according to the nature of the Next-to-lightest SUSY particle are identified. All relevant bounds from LHC searches, DM relic abundance and direct detection (DD) are taken into account. We show how collider searches and direct detection experiments can fully test these scenarios.

**Authors:** Dr SAHA, Ipsita (Kavli IPMU); CHAKRABORTI, Manimala; HEINEMEYER, Sven (CSIC (Madrid, ES))

**Presenters:** Dr SAHA, Ipsita (Kavli IPMU); CHAKRABORTI, Manimala; HEINEMEYER, Sven (CSIC (Madrid, ES))

**Session Classification:** SUSY: Phenomenology and Experiment

**Track Classification:** SUSY: Phenomenology and Experiment