



Contribution ID: 72

Type: **Invited talk**

## SUSY Dark matter Search at LHC and future colliders

*Tuesday, 12 November 2019 10:30 (30 minutes)*

The existence of dark matter (DM) is a cornerstone of extensive search programs at colliders. The ATLAS and CMS experiments at the LHC have performed a wide range of searches for DM particles predicted in SUSY, in particular for the lightest neutralino in R-parity conserving scenarios. The event topology and final states containing the neutralino DMs depend on the mass eigenstates of the gauginos and their compositions. In this talk, I will present the current status of neutralino DM searches at the LHC, putting some emphasis on DMs with Wino and Higgsino components. Prospects for the Wino/Higgsino DM searches at future colliders are also discussed.

### **Affiliation**

University of Tokyo, ICEPP

**Primary author:** Dr TERASHI, Koji (University of Tokyo, ICEPP)

**Presenter:** Dr TERASHI, Koji (University of Tokyo, ICEPP)

**Session Classification:** DM Collider