



Contribution ID: 887

Type: **Parallel Talk**

## Dark matter and LHC: complementaries and limitations

*Thursday, July 6, 2017 5:15 PM (15 minutes)*

It is well known that dark matter density measurements, indirect and direct detection experiments, importantly complement the LHC in setting strong constraints on new physics scenarios. Yet, dark matter searches are subject to limitations which need to be considered for realistic analyses. For illustration, we explore the parameter space of the phenomenological MSSM and discuss the interplay of the constraints from dark matter searches and the LHC, and analyse the impact of the astrophysical uncertainties in some detail.

### Experimental Collaboration

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**Session Classification:** Dark matter

**Track Classification:** Dark Matter