



Contribution ID: **18**

Type: **not specified**

Dark matter at the LHC, models and interpretations

Monday, 30 November 2015 14:30 (45 minutes)

The LHC results on dark matter from Run-1 were mostly interpreted in the framework of effective field theories. Simplified models involve new mediators between the Standard Model and the Dark Sector and allow for richer phenomenology and more complex interpretations. Complementarity of the collider, direct and indirect dark matter searches will be discussed and possible search strategies at the LHC in Run-2 will be outlined.

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Session Classification: Session A