

## Effective Field Theory for the LHC and Dark Matter

*Thursday 24 May 2018 16:10 (20 minutes)*

In this talk, I will discuss the EFT approach to LHC physics and Dark Matter searches regarding its validity and prospects to gain information on the underlying UV physics. In particular in the first case, correlations will be pointed out that allow to directly access the mass of new particles beyond collider reach, while in the second case, a new effective description will be presented that allows to consistently combine results from direct-detection experiments and LHC searches for missing energy.

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**Session Classification:** Parallel Session on DM at Colliders