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## Multi-Component Dark Matter: Identifying at Collider

*Tuesday 19 December 2023 15:10 (20 minutes)*

In this talk, I will demonstrate how having two WIMPs, each with different masses, and mass splitting with the NLSP, generated at a collider through a decay chain, can result in double peaks in the missing energy or missing transverse momentum distribution of the multilepton signal. I will also outline a set of criteria to identify and segregate the second peak in the missing energy spectrum, after a careful analysis of the corresponding Standard Model background contribution.

### Designation

Postdoc

### Reference publication/preprint

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