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Soft displaced objects from dark matter at the LHC

Feebly interacting dark sectors with a compressed spectrum should leave characteristic signatures with soft displaced particles in the LHC detectors. I will discuss how we can directly predict such signatures from co-scattering dark matter in the early universe. At ATLAS and CMS searches for soft displaced objects are underway, but limited by large hadronic background. Can LHCb do better?

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