

Dark Interactions 2024

Vancouver, Oct. 16-18



Contribution ID: 61

Type: **not specified**

Semi-visible jets: where do we go from here?

Thursday, 17 October 2024 16:00 (20 minutes)

Semi-visible jets (SVJs) arise in strongly interacting dark sector, resulting in jets geometrically enclosing dark hadrons and overlapping with missing transverse momentum direction. The first experimental results from ATLAS and CMS are public, and we will start with a quick debriefing. There are proposals to look at more specialised SVJ signatures, we will focus on SVJ with heavy flavours, which allows us to look at different jet reconstruction techniques for these signatures. We will also cover different ways to simulate these signals, and if current LHC searches and measurements in similar final states constrain the available SVJ phase space.

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Session Classification: Dark Sectors

Track Classification: Contributed Talks