Contribution ID: **26**   Type: **not specified**

Exploration of b-philic SVJ and new discriminating observables

Friday, 17 May 2024 10:30 (12 minutes)

After the first round of SVJ experimental results, the focus has shifted to exploring more specific topologies, as well as attempts to design more sensitive observables. In this presentation, we will cover an exploratory study of SVJs produced preferentially with bottom quarks, including looking at the sensitivity from current public results. The advantage of using variable radius jets will be discussed. In the second part, we will cover our attempts to discriminate SVJs better, by designing observables less sensitive to specifics of Pythia8 HV modelling.

Primary authors: KAR, Deepak (University of the Witwatersrand (ZA)); SINHA, Sukanya (University of Manchester (GB)); NZUZA, Wandile (University of the Witwatersrand (ZA))

Presenter: KAR, Deepak (University of the Witwatersrand (ZA))

Session Classification: Dark showers

Track Classification: Dark showers