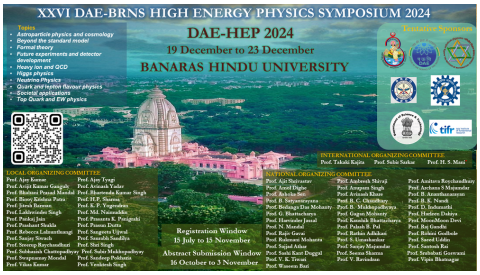

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Prospects of QCD & Lund Jet Plane Studies at FCC-ee

This analysis describes prospects of the sensitivity of the strong coupling constant ⊠s at the FCC-ee using studies based on 3-jet/2-jet cross-section ratio (R3/2) and the Lund Jet Plane (LJP) representation. Preliminary results demonstrate the dependence of R3/2 on ⊠s, providing key insights into the re-interpretation of these measurements through QCD studies. For LJP studies, preliminary representations of primary and secondary LJPs are presented, utilizing jet clustering and declustering algorithms for the e+e- collision environment. Additionally, the other potentials of the LJP tool at FCC-ee are emphasized.

Field of contribution

Experiment

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Track Classification: Future experiments and detector development