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QCD & Lund Jet Plane Studies at FCC-ee

Wednesday 9 October 2024 18:44 (2 minutes)

This analysis explores the sensitivity of the strong coupling constant \boxtimes s at the FCC-ee through studies based on R3/2 and the Lund Jet Plane (LJP). Preliminary results demonstrate the dependence of R3/2 on \boxtimes s, providing key insights into QCD measurements. For LJP studies, initial representations of primary and secondary LJPs are presented, utilizing clustering and declustering algorithms for the e+e- environment. Additionally, the potential of the LJP tool for jet tagging techniques at FCC-ee is emphasized.

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Session Classification: Poster Session / Welcome Reception (at 19:00)