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QCD & Lund Jet Plane Studies at FCC-ee

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This analysis explores the sensitivity of the strong coupling constant α_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 α_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.

Presenters: PANWAR, Lata (LPNHE); PANWAR, Lata (Laboratoire de physique nucléaire et des hautes énergies (LPNHE), Paris, France)

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