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Flavor Physics at FCC-ee

Thursday 26 August 2021 16:00 (35 minutes)

Z-pole operation at FCC-ee offers a unique laboratory for flavor physics, with the anticipated production of 10^{12} b-quarks and the opportunity for triggerless data-taking in a clean e^+e^- collision environment. Using new simulation and analysis tools developed for FCC-ee physics and performance studies, theoretically compelling beauty, charm, and tau decay modes are studied in order to evaluate key performance metrics and expected yields. Comparisons with LHCb Upgrade and Belle-II are performed, in order to highlight areas within flavor physics where FCC-ee measurements can be highly impactful.

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