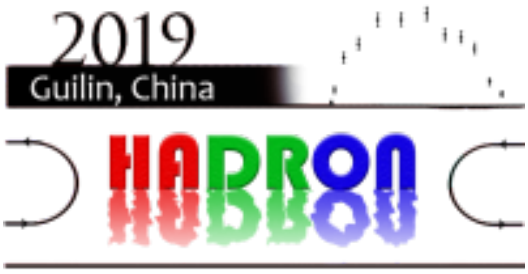

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Study of light baryons in the Lambdac decays

Wednesday, 21 August 2019 09:15 (20 minutes)

A Σ^* resonance with spin-parity $J^P = 1/2^-$ and mass in the vicinity of the $\bar{K}N$ threshold has been predicted in the five quark ficture and the unitary chiral approach. In this talk, based on the dominant Cabibbo favored weak decay mechanism, we perform a study of Λ_c^+ decays for studying the possible Σ^* state decaying into $\pi\Lambda$ or $\pi\Sigma$. We show that these Λ_c^+ decays can be used to study the possible Σ^* state.

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