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Hyperon non-leptonic decays in relativistic ChPT with resonances

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The non-leptonic decays of hyperons constitute a longstanding theoretical problem. Motivated by recent measurements from the BESIII collaboration, we study these processes in Chiral Perturbation Theory in new Ref. [2604.00646]. We perform the first relativistic calculation of such decays and include the decuplet as an explicit degree of freedom. Moreover, the contributions from the $1/2^-$ and the $1/2^+$ resonance octets are incorporated at tree level. The unknown low-energy constants are fitted to the decay amplitudes. A good simultaneous fit of the s- and p-wave amplitudes is obtained with the caveat of not being very tightly constrained. The role of the resonances is found to be crucial, and consequences for further investigations are discussed.

Primary author(s) : ALVARADO, Fernando (RUB); SALONE, Nora (University of Silesia in Katowice); LEUPOLD, Stefan; KUPSC, Andrzej

Presenter(s) : ALVARADO, Fernando (RUB)

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