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Exotic baryons on S=-2 sector

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Content

Our aim is to study resonances with quantum number of strangeness -2, that can be described as a molecular states, using chiral unitary approach and hidden local symmetry. This work is an extension of ref [1] and the calculation being developed now is the addition of s- and u-diagrams in the future for the pseudoscalar-baryon interactions, which was not included in ref [1].
Within the new amplitudes, we will study observables that were recently measured by several collaborations, such as Belle, LHCb, Alice and BES.
We also intend to explore more about the implications of Wenberg-Tomozawa theorem on the S=-2 sector and hope to bring some clarification on the puzzles related to those exotic baryons.

[1]. K. P. Khemchandani et al. Phys. Rev. 2018, D 97 034005.

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