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Multistrange meson-baryon interactions

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Our aim is to study dynamically generated resonances on the multistrangeness sector, using chiral unitary approach and hidden local symmetry. This work is an extension of ref [1] and the idea is to add s- and u-diagrams in the future for the pseudoscalar-baryon interactions, which is missing in ref [1]. Our work includes systems made of pseudoscalar and vector mesons, reproducing the calculation for the t-channel exchange to study the $\Xi(1690)$, $\Xi(2120)$ and also $\Xi(1620)$, using a coupled channel approach and we aim to compare our results with experimental data. We would like to present such results we have so far in this conference.

References:

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

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