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Hyperon Axial Couplings at Physical Pion Mass

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The hyperon axial couplings are important parameters entering the low-energy effective field theory description of the octet baryons. In addition, the coupling constants appear in the non-leptonic decays of hyperons, and hyperon-hyperon and hyperon-nucleon scattering processes, which can be used in the description of neutron stars. In this poster, we present preliminary results on the Sigma-Sigma and Xi-Xi axial couplings calculated at a=0.09fm near physical pion mass with clover/HISQ actions.

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