

Hyperon Axial Couplings at Physical Pion Mass

Tuesday, 24 July 2018 18:45 (2 hours)

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 $a=0.09\text{fm}$ near physical pion mass with clover/HISQ actions.

Primary author: Mr SAVANUR, Aditya (Michigan State University)

Co-author: Prof. LIN, Huey-Wen (MSU)

Presenter: Mr SAVANUR, Aditya (Michigan State University)

Session Classification: Poster reception

Track Classification: Hadron Structure