

# ROCKSTAR: Towards a ROadmap of the Crucial measurements of Key observables in Strangeness reactions for neutron sTARs equation of state

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## The minreview of lower $\Sigma(1/2^-)$ around 1400 MeV

*Friday 13 October 2023 11:30 (30 minutes)*

In this talk, we will introduce the recent progress of the  $\Sigma(1/2^-)$  state around 1400 MeV. This state is beyond the usual quark model and has been predicted to exist as a pentaquark, compact state, or molecular state. Various experiments have provided evidences for the existence of this state, but it has not been confirmed yet. Therefore, it is crucial to observe this state and determine its nature accurately.

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