

In memory of Prof. Akira Ohnishi: Hyperon puzzle of neutron stars examined through heavy-ion collisions and hypernuclei

Tuesday, October 8, 2024 3:00 PM (30 minutes)

At the beginning of the talk, I will reflect on my memories with my supervisor, Prof. Akira Ohnishi. Then, I will present our research on the Lambda potential strongly repulsive at high densities that is capable of avoiding the hyperon puzzle of neutron stars. The Lambda potential is shown to be consistent with the Lambda binding energies of hypernuclei and the Lambda directed flows in heavy-ion collision. I will also present my recent studies analyzing the Σ potential to constrain the Λ potential at high densities.

Presenter: JINNO, Asanosuke (Kyoto University)