

Workshop on ‘YN and YY interactions and neutron stars’

Date: 20th Nov., 2025

Place: Nishina Hall at Wako, RIKEN

if you are interested in attending the workshop, please fill the below format
by 7th Nov. :

[https://forms.gle/KvNunyjpeaBqYrZB9.](https://forms.gle/KvNunyjpeaBqYrZB9)

10:00-11:00 Wolfram Weise (Technical University of Munich)

Neutron star matter equation-of-state: inference and interpretations

11:00-11:30 Tetsuo Hatsuda (RIKEN)

Universal two-pion exchange from lattice QCD

11:30-12:00 Kotaro Murakami (Institute of Science Tokyo)

Interactions between (anti)kaon and nucleon from lattice QCD

12:00-13:30 Lunch

13:30-14:00 Tetsuo Hyodo (The University of Osaka)

Entanglement Suppression, Quantum Statistics and Symmetries in Spin-3/2 Baryon
Scatterings

14:00-14:30 Hirokazu Tamura (Tohoku University)

Baryon modification in nuclear medium studied with hyperons

14:30-15:00 Hiroshi Toki (The University of Osaka)

Pion Nuclear Physics

15:00-15:30 Koji Miwa (Tohoku University)

Collaborative research to investigate hyperon-nucleon interactions from two-body
scattering

15:30-16:00 break

16:00-16:30 Kazuyuki Sekizawa (Institute of Science Tokyo)

Exploring Neutron Star Physics Based on Density Functional Theory

16:30-17:00 Shunji Nishimura(RIKEN)

Experimental Challenges in identifying the Sites of r-Process Nucleosynthesis

**17:00-17:30 Kohsuke Sumiyoshi 【National Institute of Technology(KOSEN), Numazu
College)**

Hot-dense matter and neutrinos in core-collapse supernovae

18:30- Dinner