



# “Searching for exotic hadrons using Hyperon Spectrometer at J-PARC”

by **Shinhyung Kim (Korea University)**

**Time and Date: 10:00-12:00, Feb 14<sup>th</sup>, 2024**

**Place: Room 743, Science Complex B H03 (hybrid)**

Registration: "<https://us02web.zoom.us/meeting/register/tZ0sce-pqTljG9DNEFR5SRZoe8yJkUIQinim>”

Exotic hadrons are important because their existence or absence can provide important clues to understanding how QCD makes hadrons from quarks and gluons. At the J-PARC hadron experimental facility, a series of experiments are underway to search for exotic hadrons. A state-of-the-art detector system, namely Hyperon spectrometer, has been newly developed for this purpose. It consists mainly of a superconducting magnet (SC Magnet) and a time projection chamber (HypTPC). Especially, the HypTPC is currently undergoing further tests at Tohoku University in preparation for future experiments. This seminar will provide a comprehensive review of the development of the Hyperon Spectrometer and introduce the ongoing J-PARC hadron experiments using this new spectrometer system.

Contact : Toru Kojo (toru.kojo.b1 [at] tohoku.ac.jp)