



Contribution ID: 191

Type: **Invited Talk**

Hadron physics experiments with HypTPC at J-PARC

Friday 14 November 2025 09:00 (25 minutes)

The Hadron Experimental Facility at J-PARC provides unique opportunities to explore hadron physics with high-intensity kaon, pion, and anti-proton beams. A series of experiments use the Hyperon Spectrometer equipped with a GEM-based Time Projection Chamber (HypTPC) operated in a 1-T superconducting magnet. In this talk, I will briefly introduce the experimental environment at the J-PARC Hadron Experimental Facility and outline the main features of the HypTPC. I will then highlight ongoing and planned experiments that exploit the capabilities of the HypTPC, with emphasis on the E45 experiment dedicated to N^* spectroscopy.

Author: KIM, Shin Hyung (Kyungpook National University (KR))

Presenter: KIM, Shin Hyung (Kyungpook National University (KR))

Session Classification: Plenary

Track Classification: 1. Spectroscopy of hadrons