

Performance of SPiRIT-TPC with GET readout system for heavy ion collision experiment

mercredi 17 janvier 2018 12:30 (30 minutes)

The SPiRIT Time Projection Chamber (TPC) was designed and constructed to perform the experiments for the constraints of the symmetry term of the Nuclear Equation of State. The state-of-art readout electronics, GET readout system, was employed as the readout system for SPiRIT-TPC 12k readout pads.

In the spring of 2016, first campaign of heavy ion collision experiments was performed at RIKEN-RIBF. In this experiment, ~10kHz Sn isotope beams of 270 MeV/u incident energy were used as projectile. I will present the overview of SPiRIT-TPC+GET system, its in-beam performance, and recent result of heavy ion collision experiments in terms of detector technology mainly.

This presentation is based on the work supported by the DOE under Grant No. DE-SC0014530, DE-NA0002923 and NSF under Grant No. PHY-1102511 and the Japanese MEXT Grant-in-Aid for Scientific Research on Innovative Area Grant No. 24105004.

Auteur principal: ISOBE, Tadaaki (RIKEN)

Orateur: ISOBE, Tadaaki (RIKEN)