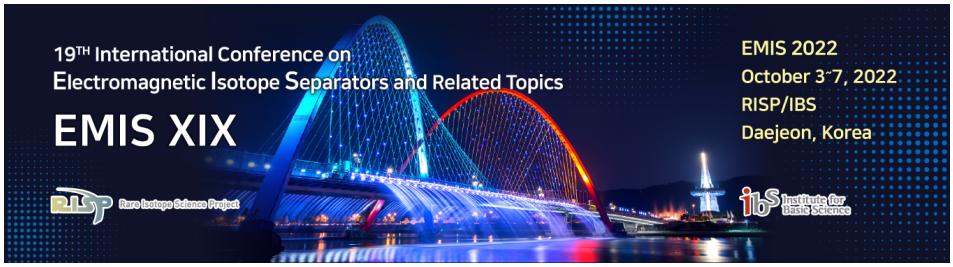

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Detector array ”TOGAXSI” for inverse-kinematics clusters and nucleon knock-out reaction experiments

Tuesday, 4 October 2022 18:40 (8 minutes)

We have started a new research project named the “ONOKORO”project. The project comprehensively investigates clustering in medium-to-heavy mass nuclei with cluster knock-out reactions at the intermediate-energy facilities. “TOGAXSI” is the name of the new detector array. It measures scattering angles and the energies of d, t, 3He, and α emitted at 6-30 degrees in the laboratory system and accompanied recoil protons with angular and energy resolution of ~ 3 mrad and ~1 MeV, respectively. The telescope consists of 100-μm-thick, 100-μm-pitch silicon strip detectors, and GAGG(Ce) scintillation detectors.
In the presentation, we introduce the TOGAXSI array and report the present status of the detector constructions.

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