



598th ASRC Seminar

Date: 13:15~14:30, Friday, 19 June

Location: Meeting Room 302, ASRC bldg.

Speaker: Dr. Atsushi Tamii (Research Center for Nuclear Physics, Osaka University)

Title: Light-Ion Reaction Measurements with Implanted Radioactive Target

Abstract: I will introduce a collaborative project, BRILLIANT, for developing a new experimental method on measurements of light-ion nuclear reactions in normal kinematics with implanted radioactive target. The method will open a new possibility on high-resolution missing mass spectroscopy for nuclear structure and nuclear astrophysics. One of the essences of the project is to implant radioactive isotopes in a small localized area for increasing the luminosity of the reactions. Measurement of the ${}^7\text{Be}(d,p){}^8\text{Be}$ reaction at the JAEA tandem facility is under discussion with implanted ${}^7\text{Be}$ targets produced at the CNS-CRIB facility, as a proof of concept measurement and for astrophysical interest on the primordial ${}^7\text{Li}$ production in the Big Bang nucleosynthesis.



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