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ONOKORO project –knockout reaction studies of clusters in heavy nuclei –

Wednesday 29 June 2022 09:00 (20 minutes)

We have started a new research project named the ONOKORO project where we comprehensively investigate clustering in medium-to-heavy mass nuclei using (p, pX) cluster knockout reactions under normal and inverse kinematics.

The research is motivated by our previous study on α clustering in $^{112-124}\text{Sn}$ conducted at Research Center for Nuclear Physics, Osaka University [J. Tanaka, Z.H. Yang et al., Science 371, 260 (2021)]. The ONOKORO project will extend the study to d , t , ^3He , α clustering both in stable and unstable nuclei in the mass region of $A=36-220$.

In the conference, we will present a physics background, research plan at RIBF, RCNP, and HIMAC facilities, and status of detector development for the inverse kinematics knockout experiments.

Topic

Experiment

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