



国立研究開発法人理化学研究所 仁科加速器科学研究センター
第312回 RIBF核物理セミナー
RIKEN Nishina Center for Accelerator Based Science
The 312th RIBF Nuclear Physics Seminar
Co-organized with JaFNA (UKAKUREN)

Recent advances in compound nuclear reaction theory and its applications

Dr. Toshihiko Kawano
(Los Alamos National Laboratory)

Despite its rather old-fashioned appearance, the statistical theory for a compound nuclear reaction still plays an important role in calculating nucleon-nucleus interaction in the keV to MeV energy region, and indeed improvement for better predictive capabilities is one of the active research areas. In this talk we present a few topics regarding the recent progress in the statistical nuclear reaction theory, which consists of the unification of the coupled-channels formalism and the Hauser-Feshbach theory, inclusion of the nuclear structure ingredients, and some applications to the post-fission and beta-delayed observable calculations. (LA-UR-22-32058)

Jan. 13th (Fri), 2023 13:30 ~
via Hybrid (Zoom + RIBF Hall)



* The talk will be given in English language.

Contact: Nuclear Physics Seminar Organizing Committee

npsoc@ribf.riken.jp

<http://ribf.riken.jp/~seminar/>