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Type: **Workshop**

Spectroscopic Studies with Quasi-Free Knockout Reactions

Thursday, 30 November 2023 10:00 (25 minutes)

Quasi-free knockout reactions have been established in the past years as a versatile spectroscopic tool to study exotic nuclei accelerated to high energy of few hundred MeV/nucleon. The advantage of inverse kinematics is the possibility of kinematical complete measurements of the reaction including the detection of the remaining residue after the knockout. The applications of quasi-free knockout reactions are meanwhile manifold, examples are the study of the single-particle structure by single-nucleon knockout like (p,2p), or the population of nuclei beyond the drip line by nucleon or cluster knockout reactions as (p,2p) and (p,p alpha). In this presentation we will discuss recent examples from GSI and the RIBF addressing the aforementioned processes and topics.

Attendance Type

Remote

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