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**Title : Transfer reactions with exotic beams at ATLAS  
– current status and future prospects**

Abstract

Nucleon transfer reactions are again important central tools in the study of the structure of exotic nuclei. Nucleon stripping and pickup reactions are particularly important to the understanding of single-particle states in exotic nuclei, and can be used to test modern theoretical nuclear-structure models that predict spins, parities, and spectroscopic factors for states in exotic light nuclei. This benefit comes at a cost – the most interesting experiments utilize radioactive beams and are carried out in inverse kinematics, thereby adding to the technical complexity of the measurements. I will review some examples of transfer reactions with light exotic nuclei carried out at the ATLAS facility at Argonne National Laboratory, and discuss a coming initiative – HELIOS – that may address some of the experimental difficulties encountered in these studies.