

DNP17-2017-000525

Abstract for an Invited Paper  
for the DNP17 Meeting of  
the American Physical Society

### **Spectroscopy of Exotic Nuclei via Quasi-free Scattering Reactions**

STEFANOS PASCHALIS, University of York

In the work presented here we are interested in examining the single-particle strength of nucleons in stable and exotic nuclei and the reduction compared to the independent particle model. The motivation for this work has been the reported reduction of single-particle strengths and in particular the dependency of this reduction as a function of isospin asymmetry expressed in terms of nucleon separation energies. In particular, in (e,ep) experiments single-particle strengths of the order of 60-70