

Abstract Submitted
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Structure of ^{12}Be studied via the $^{11}\text{Be}(\text{d,p})$ reaction¹ RITUPARNA KANUNGO², Saint Mary's University, TIGRESS COLLABORATION — Understanding the evolution of the unusual characteristics of unstable nuclei is of great interest in recent times. The breakdown of the N=8 shell closure in ^{12}Be with its neighbouring isotope ^{11}Be being a one-neutron halo makes it one of the important sites for investigating the role of binding energy and pairing in the distribution of intruder *s*-wave strength. We will report the first measurement of the $^{11}\text{Be}(\text{d,p})$ reaction performed at ISACII, TRIUMF that provides a highly selective way to understand the *s*-wave occupancies in the ground and excited states of ^{12}Be . Interesting new observations will be presented.

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