



Contribution ID: 72

Type: Oral Presentation

Two Proton Stripping via the $^{115}\text{In}(^3\text{He},n)^{117}\text{Sb}$ reaction and a GEANT4 simulation of the AFRODITE array at iThemba LABS.

Thursday, 10 July 2014 11:50 (20 minutes)

Abstract content
 (Max 300 words)
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The AFRODITE array at iThemba Labs, together with the ancillary neutron wall detectors, provide high selectivity in viewing the direct two proton stripping reaction, in particular the $^{115}\text{In}(^3\text{He},n)^{117}\text{Sb}$ and $^{16}\text{O}(^3\text{He},n)^{18}\text{Ne}$ reactions. The populated states were identified via the gamma spectra from the CLOVER detectors selected by neutron- γ coincident events. The AFRODITE CLOVER array, together with a catalogue of other detectors such as the TIGRESS and LEPS detectors, have been integrated into the simulation and together are utilised to validate and understand our experimental results.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD)?

MSc

Main supervisor (name and email) and his / her institution

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Would you like to submit a short paper for the Conference Proceedings (Yes / No)?

No

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Session Classification: NPRP

Track Classification: Track B - Nuclear, Particle and Radiation Physics