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

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Abstract content
 (Max 300 words)
Formatting &
Special chars

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 $^{115}\text{In}(3\text{He},\text{n})^{117}\text{Sb}$ and $^{16}\text{O}(3\text{He},\text{n})^{18}\text{Ne}$ 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
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No

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