

Abstract Submitted
for the PSF15 Meeting of
The American Physical Society

Commissioning of the St. George Recoil Separator CHRISTOPHER SEYMOUR, University of Notre Dame — Measurement of alphacapture reactions at energies of astrophysical interest is hindered by low cross sections and relatively high gammabackgrounds. The precision of these measurements, using traditional techniques, is limited by the ability to reduce this gammabackground. Using a recoil separator enables the direct detection of the heavy reaction products. These recoils are separated from the primary beam using a Wienfilter and a series of magnetic dipoles, and then identified using a total energy loss plus time-offlight detection system. A series of commissioning experiments to measure the energy acceptance of the St. George recoil separator are currently underway at Notre Dame. The progress of these measurements will be presented, along with plans for upcoming angular acceptance measurements.

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Date submitted: 02 Nov 2015

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