Abstract Submitted
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Timing Resolution and Detection Efficiency of the St. George Detector System[1] LUIS MORALES, University of Notre Dame, SUNIL KALKAL, Indiana University South Bend, HYO SOON JUNG, CHRIS SEYMOUR, MIKE MORAN, ZACHARY MEISEL, GWENAELLE GILARDY, University of Notre Dame, JERRY HINNEFELD, Indiana University South Bend, MANOEL COUDER, University of Notre Dame — The St. George recoil mass separator at the University of Notre Dame will be used to study (α, γ) reactions of astrophysical interest. A detection system was developed for the St. George recoil mass separator, in collaboration with Indiana University South Bend, that will utilize energy and time-of-flight to separate reaction products from residual unreacted beam particles. The detection system utilizes uses two microchannel plate (MCP) detectors, which register timing measurements, and a silicon strip detector is used to measure the ions kinetic energy. The performance of the detection system will be presented.

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