

Abstract Submitted
for the DNP07 Meeting of
The American Physical Society

Feasibility of Direct (n,γ) TOF Experiments on s-Process Branch Points¹ AARON COUTURE, Los Alamos National Laboratory, RENE REIFARTH, GSI — We have simulated the response of a 4π calorimetric detector to radioactive isotopes on the s-process path. From these simulations, a maximum tolerable sample size has been determined. In addition, the estimated neutron flux needed for a direct time-of-flight measurement on these branch-point isotopes has been determined. These calculations should aid in the planning of future experiments on these critical isotopes. The methodology of the simulations as well as the determination of the maximum sample size will be discussed.

¹This work has benefited from the use of the Los Alamos Neutron Science Center at the Los Alamos National Laboratory. This facility is funded by the US Department of Energy as operated by Los Alamos National Security, LLC under Contract DE-AC52-06NA25396.

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Date submitted: 28 Jun 2007

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