

A Deeper Understanding of the s-Process: A Ph.D. Oral Qualifier

by: Jaad A. Tannous
Advisor: Prof. Bradley S. Meyer

Abstract

The aim of this document is to provide the committee a quick recap of the s-process, and how I aim to contribute to further its understanding. The first section is a brief recap, but granted not a complete one, on the s-process. The following four will outline tools being developed, and aspects that are being studied. In the last section I will conclude how the project will come together.

The s-process

Neutron Exposure

Isomers

T and Y_e dependent rates

Multizone framework development

My research