

# Nuclear and astrophysics aspects for the rapid neutron capture process in the era of multimessenger observations



Contribution ID: 11

Type: **not specified**

## The nuclear physics of r-process abundance patterns

*Thursday, 4 July 2019 16:30 (35 minutes)*

The properties of thousands of nuclear species far from stability set abundance patterns and other observables from r-process events. We will describe recent efforts to forge explicit links between the details of the r-process isotopic abundance pattern and specific nuclear properties, here focusing on masses and spallation cross sections. We will discuss future prospects given the anticipated capabilities of the next generation of radioactive beam facilities.

**Presenter:** SURMAN, Rebecca (University of Notre Dame)

**Session Classification:** Session