

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



Contribution ID: 23

Type: **not specified**

## Constraining neutron-capture reactions for the r process

*Tuesday, 2 July 2019 15:05 (35 minutes)*

In this talk I will discuss experimental constraints to neutron-capture reactions far from stability. These reactions are a critical part of the r process, and to date are almost completely unconstrained experimentally. Measuring direct neutron-capture reactions on short-lived nuclei is extremely challenging, and therefore one has to rely on indirect constraints. I will discuss the  $\beta$ -Oslo method, which was developed for this purpose by a Michigan State University and University of Oslo collaboration. I will present recent results on neutron-rich nuclei around mass 70, and also future plans for expanding to heavier r-process nuclei.

**Primary author:** SPYROU, Artemis (Michigan State University)

**Presenter:** SPYROU, Artemis (Michigan State University)

**Session Classification:** Session