

### **Publications in peer reviewed journal:**

- Rasco, Bertis C., et al. "The ORNL analysis technique for extracting  $\beta$ -delayed multi-neutron branching ratios with BRIKEN." *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 911 (2018): 79-86.
- Tolosa-Delgado, Alvaro, et al. "Commissioning of the BRIKEN detector for the measurement of very exotic  $\beta$ -delayed neutron emitters." *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* 925 (2019): 133-147.
- Phong, V. H., et al. "Observation of a  $\mu$  s isomer in In 85 49 134: Proton-neutron coupling "southeast" of Sn 82 50 132." *Physical Review C* 100.1 (2019): 011302.
- Yokoyama, R., et al. "Strong one-neutron emission from two-neutron unbound states in  $\beta$  decays of the r-process nuclei Ga 86, 87." *Physical Review C* 100.3 (2019): 031302.
- Wang, Kailong, et al. "Plastic scintillation detectors for time-of-flight mass measurements." *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment* (2020): 164199.

### **Conference Proceedings:**

- Tolosa-Delgado, Alvaro, et al. "Commissioning of the BRIKEN beta-delayed neutron detector for the study of exotic neutron-rich nuclei." *EPJ Web of Conferences*. Vol. 165. EDP Sciences, 2017.
- Tain, J. L., et al. "The BRIKEN Project: extensive measurements of  $\beta$ -delayed neutron emitters for the astrophysical r process." *Acta physica polonica B* 49.3 (2018): 417-428.
- Tolosa-Delgado, A., et al. "Improving Nuclear Data Input for r-Process Calculations Around A  $\sim$  80." *Nuclei in the Cosmos XV*. Springer, Cham, 2019. 453-456.

### **Oral Presentations:**

- N. Nepal et al., Title "Beta Decay Experiment for Rapid Neutron Capture Nucleosynthesis Process", *APS April Meeting 2019* in Denver
- N. Nepal et al., Title "Preliminary Analysis on BRIKEN Mass A = 100 Experiment", *BRIKEN Data Analysis Workshop 2018* in IFIC, Valencia, Spain
- N. Nepal et al., Title "Measurement of Beta Delayed Neutrons of Rapid Neutron Capture Process Isotopes with the BRIKEN Detector", *Joint CNA/JINA-CEE Winter School on Nuclear Astrophysics 2016* in Shanghai, China

### **Poster Presentations:**

- N. Nepal et al., Title "Beta Decay Experiment in the Mass Region A = 100 for the Rapid Neutron Capture Nucleosynthesis, *JINA-CEE Frontiers in Nuclear Astrophysics Meeting 2019* in NSCL, East Lansing, Michigan
- N. Nepal et al., Title "Decay Properties of Neutron Rich Nuclei Around Mass A = 100", *Nuclear Structure Conference 2018* in NSCL, East Lansing, Michigan
- N. Nepal et al., Title "Measurement of Beta Delayed Neutrons of Rapid Neutron Capture Process Isotopes with the BRIKEN Detector", *16<sup>th</sup> Exotic Beam Summer School 2017* in Argonne National Laboratory, Illinois

- N. Nepal et al., Title “Measurement of Beta Delayed Neutrons of Rapid Neutron Capture Process Isotopes with the BRIKEN Detector”, *JINA-CEE Frontiers in Nuclear Astrophysics Meeting 2017* in NSCL, East Lansing, Michigan