



国立研究開発法人理化学研究所 仁科加速器研究センター
第268回 RIBF核物理セミナー
RIKEN Nishina Center for Accelerator Based Science
The 268th RIBF Nuclear Physics Seminar

R-process and kilonova

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Since the discovery of the kilonova associated with a gravitational source, GW170817, neutron star mergers are recognized to be the astrophysical site of the r-process. A merger of two neutron stars gives rise to an ejection of material made of radioactive heavy nuclei that become the heating source to power a kilonova. Therefore, a reliable prediction of abundance distribution in merger ejecta will be crucial in the coming years. I will discuss which are the key radioactive nuclei as well as what are the key nuclear ingredients in the era of multi-messenger astronomy.

Ref. Wanajo 2018, ApJ, 868, 65

Mar.12th(Tue.)2019 13:30~
Nishina Hall, Nishina bldg., RIKEN

* The talk will be given in English language.

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