



独立行政法人理化学研究所 仁科加速器研究センター
第82回RIBF核物理セミナー
RIKEN Nishina Center for Accelerator Based Science
The 82nd RIBF Nuclear Physics Seminar

In quest of the Origin of r-process elements
(r過程元素の起源を求めて)

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About half of elements heavier than iron in the nature are formed via r-process (rapid neutron-capture process). Astrophysical origin of these elements is still unknown despite of decades of studies. I will introduce recent studies for finding out the astrophysical site(s) for the r-process. From observational studies, I will present new observational results of metal-poor globular clusters. These observational results constrain on the astrophysical site(s) for the r-process. From theoretical studies, nucleosynthesis calculations based on A. Burrows' new SNeII model will be presented. Nuclear physics uncertainties and required nuclear physics data for the r-process calculations will be also discussed.

Jul. 14(Tue), 2009 13:30 -
RIBF Conf. Hall, RIKEN

The seminar will be given in English

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