

## Supernovae and Nucleosynthesis

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Recent progresses to understand the mechanism of collapse-driven supernova explosions and related nucleosynthesis are reviewed. In particular, rapid neutron-capture nucleosynthesis is focused.

\*Our institute (RIKEN) produced a video on nucleosynthesis. Its new English version (34 minutes) will be available from April, 2002.

The primary characteristic of this video is that we have employed a number of 2-D and 3-Dimensional visualizations and animations based on an updated understanding of nuclear physics and astrophysics.

It contains explanation on the chart of the nuclides, nuclear burning in the sun, big-bang nucleosynthesis, stellar nucleosynthesis, beta-stability valley, the s-process, the r-process, production of an RI beam, etc., and professors D. Arnett, T. Kajino, K. Langanke, K. Sato, C. Sneden, I. Tanihata, and F.-K. Thielemann appear as interviewees.

Please visit our web site for details: <http://www.rarf.riken.go.jp/video>. The Japanese version was awarded the prize of the Minister of Education, Culture, Sports, Science, and Technology of Japan 2001.