

# KADoNiS- An experimental online database for the s and p process

Iris Dillmann<sup>1,2</sup>, Michael Heil<sup>1</sup>, Franz Käppeler<sup>1</sup>, Ralf Plag<sup>1</sup>, Thomas Rauscher<sup>2</sup> and  
Friedrich-Karl Thielemann<sup>2</sup>

<sup>1</sup> *Institut für Kernphysik, Forschungszentrum Karlsruhe, Postfach 3640, D-76021 Karlsruhe,  
Germany*

<sup>2</sup> *Departement Physik und Astronomie, Universität Basel, Klingelbergstrasse 82, CH-4056  
Basel, Switzerland*

The project "Karlsruhe Astrophysical Database of Nucleosynthesis in Stars" (<http://nuclear-astrophysics.fzk.de/kadonis>) is an online database for experimental *s*- and *p*-process cross sections and reaction rates. It combines an updated sequel to the well-known Bao et al. compilation [1] for stellar (n, $\gamma$ ) cross sections in the *s* process with a newly created library for experimental *p*-process reaction rates. The update of Bao et al. is already online since June 2005, whereas the *p*-process database is expected to be launched by the end of 2005.

This work gives an overview about the extent of the updated *s*-process library, which includes more than 50 new stellar cross section measurements. Furthermore the present status of the *p*-process database is shown.

[1] Z. Bao, H. Beer, F. Käppeler, F. Voss, K. Wisshak, and T. Rauscher, ADNDT **76**, 70 (2000).