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Neutron capture cross section measurements for the astrophysical s-process

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The slow neutron capture process (s-process) is responsible for producing about half of the elemental abundances between Fe and Bi in our cosmos. It occurs in low mass stars (1-5 solar masses) during their Asymptotic Giant Branch phase, and in massive stars during He core, and C shell burning. Neutron capture cross sections at stellar neutron energies are a key input for stellar models to predict abundances produced in the s-process. I will present recent results of cross section measurements and their astrophysical implications.

Primary author: LEDERER-WOODS, Claudia

Presenter: LEDERER-WOODS, Claudia

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