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EFNUDAT synergies in astrophysics

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About half of the abundances between Fe and Zr in Nature are produced by the slow neutron capture process (s process) in massive stars. These abundances are essentially determined by the (n,g) cross sections of the involved isotopes. In this context, recent (n, g) measurements benefit from the combination of activation and time-of-flight techniques, which were efficiently advanced by the EFNUDAT program. Experimental progress and innovative instrumental developments are illustrated at selected examples of measurements performed at CERN, Budapest, Braunschweig, Vienna, and Karlsruhe.

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