

THE STELLAR (n, γ) CROSS SECTIONS OF THE UNSTABLE ^{135}Cs

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The (n, γ) cross sections of the unstable isotope ^{135}Cs has been measured relative to that of gold by means of the activation method. The sample was produced by ion implantation in a high resolution mass separator and irradiated in a quasi-stellar neutron spectrum for $kT = 25$ keV using the $^7\text{Li}(p,n)^7\text{Be}$ reaction near threshold. The $\approx 8\%$ uncertainty of the resulting stellar cross sections is dominated by the thermal (n, γ) cross section used for sample definition.

1. Abstract of published paper: Nucl. Phys. A621, 247c (1997)
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