
Measurement of the -3 keV resonance in the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction and its influence on the synthesis of $A > 90$ nuclei

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Abstract

The $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction is the neutron source for the main component of the s-process, responsible of the production of most nuclei in the mass range $90 < A < 204$. It is active inside the helium-burning shell in asymptotic giant branch stars, at temperatures

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