

**THM determination of the 65 keV resonance strength intervening in the
 $^{17}\text{O}(\text{p},\alpha)^{14}\text{N}$ reaction rate**

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The $^{17}\text{O}(\text{p},\alpha)^{14}\text{N}$ reaction is of paramount importance for the nucleosynthesis in a number of stellar sites, including red giants (RG), asymptotic giant branch (AGB) stars, massive stars, and classical novae. We report on the indirect study of the $^{17}\text{O}(\text{p},\alpha)^{14}\text{N}$ reaction via the Trojan Horse method by applying the approach recently developed for extracting the resonance strength of the narrow resonance at $E_R^{cm} = 65$ keV ($E_x = 5.673$ MeV). The strength of the 65 keV resonance in the $^{17}\text{O}(\text{p},\alpha)^{14}\text{N}$ reaction, measured by means of the THM, has been used to renormalize the corresponding resonance strength in the $^{17}\text{O} + \text{p}$ radiative capture channel.

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