

$^{18}\text{F}(\text{p},\alpha)^{15}\text{O}$ reaction in novae

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The 511 keV gamma rays and below emitted by novae are mainly produced by ^{18}F , the flux may be detected by satellite detectors. We can effectively constrain the novae model by comparing the theory and observation results. As the main consumed reaction of ^{18}F , $^{18}\text{F}(\text{p},\alpha)^{15}\text{O}$, its reaction rate is extremely important and has been investigated for decades. This poster is mainly to introduce the gamma rays from novae and progress in studying the $^{18}\text{F}(\text{p},\alpha)^{15}\text{O}$ reaction rate at nova temperature.

Primary author: Mr RU, Longhui

Presenter: Mr RU, Longhui

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