

Using the recoil mass separator DRAGON to constrain astrophysical reaction rates

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The detector of recoils and γ -rays of nuclear reactions (DRAGON) is used to directly observe radiative capture reactions of astrophysical interest and is located at TRIUMF, Canada. Such measurements are crucial for constraining the uncertainty of nuclear reaction rates, leading to a better understanding of various stellar scenarios. In this talk, DRAGON's measurements of the $^{18}\text{F}(p,\gamma)^{19}\text{Ne}$ and $^{76}\text{Se}(\alpha,\gamma)^{80}\text{Kr}$ reactions, relevant to satellite observation of novae and the production of heavy proton rich nuclei respectively, are highlighted.

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