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${}^7\text{Li}(\alpha, \text{g}){}^{11}\text{B}$: An update

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At the end of its life, a massive star collapses into a neutron star. The neutrino flux released during the collapse is so significant that the probability of a neutrino interacting with a nucleus is enhanced enough to have an influence on element nucleosynthesis [1]. The origins of light elements, specifically ${}^{11}\text{B}$, is not fully understood. The ν -process has been proposed as a candidate for ${}^{11}\text{B}$ production [2]. Neutrino triggered reactions lead to the creation of ${}^{11}\text{B}$, with the reaction ${}^7\text{Li}(\alpha, \gamma){}^{11}\text{B}$ as a component of the main reaction chain. This reaction was recently studied at Notre Dame and the results of that measurement will be presented.

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