

STUDY OF THE ($\vec{d}, {}^6\text{Li}$) REACTION

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We have proposed to study the sensitivity of the vector analyzing powers produced in the ($\vec{d}, {}^6\text{Li}$) reaction initiated with 60 MeV vector polarized deuterons from the IUCF cyclotron. The preliminary phase of this study involved investigation of the feasibility of the magnetic spectrograph and helical wire counter to detect the reaction ${}^6\text{Li}$ particles. By using the ΔE signal from the helix anode and reducing the counter anode voltage by about 300 volts from its usual value, the signals from the ${}^6\text{Li}$ particles were cleanly separated from alphas and other lighter ions.

We hope to begin the experimental phase of the reaction study during the first half of 1979.

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