

Abstract Submitted
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Measuring low energy nuclear recoil response in NaI(Tl) TYANA STIEGLER, CLEMENT SOFKA, JAMES WHITE, ROBERT WEBB, Texas A&M University — An investigation of the low energy nuclear recoil response of NaI(Tl) will be discussed. The experiment uses low energy neutrons produced via the Li(p,n) reaction and utilizes a high light output NaI(Tl) crystal. The goal is to improve on published measurements at energies relevant to DAMA/LIBRA and other low-mass WIMP experiments. The experimental design and setup, shielding optimization, neutron beam calibration techniques and preliminary results will be included.

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