

Abstract Submitted
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Liquid neon as a scintillator for low energy particle detection

JAMES NIKKEL, Yale University, CLEAN COLLABORATION — Neon is a promising target material for use in WIMP dark matter detection as well as for low energy solar neutrino detection. In this presentation I will describe measurements of liquid neon scintillation due to both electronic and nuclear recoils. I will discuss properties such as signal yield, nuclear recoil scintillation efficiency and pulse shape discrimination. I will also address several technical challenges associated with using liquid neon in a particle detector.

James Nikkel
Yale University

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