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New Results on the Near-Infrared Scintillation of Liquid Argon

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After a short review of previous attempts to observe and measure the near-infrared scintillation in liquid argon, we present new results obtained with a dedicated cryostat at the Fermilab Proton Assembly Building (PAB). The new results give confidence that the near-infrared light can be used as the much needed light signal in large liquid argon time projection chambers and we present first ideas on how to design and build a photon detection system utilizing the near-infrared light.

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