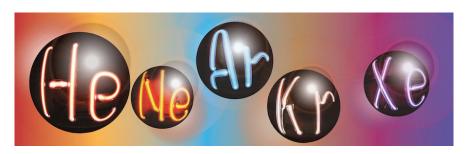
## **LIDINE 2017: Light Detection In Noble Elements**



Contribution ID: 14 Type: Presentation

## New Results on the Near-Infrared Scintillation of Liquid Argon

Friday, 22 September 2017 09:15 (15 minutes)

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.

Primary author: Dr OURIVIO ESCOBAR, Carlos (FERMILAB)

Co-author: Dr RUBINOV, Paul (FERMILAB)

Presenter: Dr OURIVIO ESCOBAR, Carlos (FERMILAB)

Session Classification: Friday Morning 1

Track Classification: Light/charge response in Noble Elements (gas, liquid, dual phase)