

TPB-coated Light Guides for Liquid Argon TPC Light Detection Systems

Friday, 31 May 2013 12:05 (25 minutes)

I will discuss work on a system for light detection in Liquid Argon TPCs utilizing acrylic lightguides coated with a thin film of TPB embedded in acrylic. This system provides solutions to some of the issues we expect to face when scaling existing light collection systems to the scale of future detectors. While there is still room for improvement, we show that the current results are sufficient for triggering in a large detector.

Primary author: IGNARRA, Christina (Massachusetts Institute of Technology)

Presenter: IGNARRA, Christina (Massachusetts Institute of Technology)

Session Classification: Scintillation Light Read-Out for Noble Elements-Based