

Fermilab Program for Organic Scintillator

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Fermilab is one of the largest producers of organic scintillator in the world. Its scintillator has been used in a wide variety of applications including archeology, volcanology, mining exploration, agriculture, national security, as well as more traditional applications in HEP and Astro-particle physics. We will survey these applications. We will describe the scintillator extrusion facility and injection molding facility. We will discuss ongoing and near-term future projects for these facilities, including production of scintillating tiles for the CMS HGCALE HL-LHC upgrade. Finally, we will present future plans for preparing new scintillating materials tailored for specific applications. We will focus on developments in neutron-sensitive scintillator and in specialty scintillator for dual readout calorimetry.

Collaboration

Role of Submitter

I am the presenter

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