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Developing LAr Scintillation Light Applications at Neutrino Energies with LArIAT

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LArIAT (Liquid Argon in a Testbeam) is a small liquid argon time projection chamber set to calibrate and develop the LArTPC technology. LArIAT has completed 3 Runs on a charged particle beamline at the Fermilab Test Beam Facility and has acquired a large dataset of particle interactions on liquid argon which is currently being analyzed. An important feature of LArIAT, is the light collection system, which uses wavelength shifting foils to enhance the light collection efficiency and uniformity. We will present the results of using this enhanced light collection for calorimetric and particle identification measurements as well as prospects for future applications in larger scale detectors.

Primary author: Dr SZELC, Andrzej (University of Manchester)

Presenter: Dr SZELC, Andrzej (University of Manchester)

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