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The SoLID Science Program in Hall A at Jefferson Lab

Tuesday 30 November 2021 08:30 (30 minutes)

The science program enabled by the Solenoidal Large Detector Device (SoLID) in Hall A at Jefferson Lab encompasses studies of nucleon structure addressing some of the fundamental questions in hadron structure. It will explore the nucleon origins of mass and spin in the framework of Quantum Chromodynamics at the luminosity frontier. It will also seek signatures of physics beyond the standard model of particle physics in the electroweak sector. I will discuss the SoLID science program and its impact on our knowledge of nucleon structure in the valence quark region for both quarks and gluons. SoLID has undergone a successful DoE science review, and the collaboration is eager to hear news on a DOE critical decision zero (CD0) soon.

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