

Abstract Submitted  
for the APR21 Meeting of  
The American Physical Society

**Electromagnetic calorimeter for SOLID**<sup>1</sup> JIXIE ZHANG, Univ of Virginia — The Solenoidal Large Intensity Device (SoLID) was proposed to build at Hall A, Jefferson Lab. SoLID is a general-purpose device designed to handle high luminosity ( $10^{37} - 10^{39} \text{ cm}^{-2}\text{s}^{-1}$ ), with a wide momentum and a full  $2\pi$  azimuthal angular coverage. The electromagnetic calorimeter (ECal) is part of the key detectors of SoLID. It is a full-absorption calorimeter consisting of preshower and Shashlyk-type shower modules. Several prototype preshower and shashlyk modules of SoLID were built and tested with cosmics. A beam test is being planned using the Fermilab test beam facility (FTBF) in January of 2021. In this talk, we will present the design and the test performance of SoLID ECal.

<sup>1</sup>This work was supported by the U.S. Department of Energy under Award DE-SC0014434.

Jixie Zhang  
Univ of Virginia

Date submitted: 04 Jan 2021

Electronic form version 1.4