

SES15-2015-000097

Abstract for an Invited Paper  
for the SES15 Meeting of  
the American Physical Society

### **Solid Polarized Deuteron Targets**

DUSTIN KELLER, University of Virginia

Nuclear and particle physics experiments using a solid polarized deuteron target attempt to extract a number of spin-1 polarized observables with optimal precision. A discussion is given on the techniques involved in polarizing and measuring the polarizations of a deuteron sample used in these fixed target experiments. Polarization optimization and recent developments at the University of Virginia Solid Polarized Target Lab are presented. These techniques are especially relevant for the scope of modern nuclear experiments at the Thomas Jefferson National Accelerator Facility.