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## **Designs and construction techniques for the CLAS12 Dynamically Polarized Target**

*Monday, 10 September 2018 16:40 (20 minutes)*

Construction of a new, dynamically polarized target for the recently commissioned CLAS12 detector package at Jefferson Lab presents new challenges. The target, currently under construction by a collaboration comprised of Christopher Newport University, Old Dominion University, the University of Virginia, and the Jefferson Lab Target Group, will feature samples of solid, irradiated ammonia longitudinally polarized at 1K and 5T for experiments examining the spin structure of the nucleon. A description of the target and its design philosophy will highlight lessons gathered from previous systems and the flexibility to accommodate a variety of target configurations for future experiments.

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**Session Classification:** Polarized Ion and Lepton Sources and Targets

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