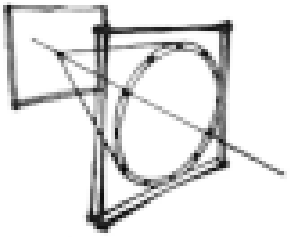

Contribution ID: **26** Type: **Oral presentation**

The GlueX DIRC Detector

Monday, 5 September 2016 13:30 (25 minutes)

A focusing DIRC (FDIRC) detector is being developed to upgrade the particle identification capabilities in the forward region of the GlueX experiment at Jefferson Lab. The GlueX FDIRC will utilize four existing decommissioned BaBar DIRC bar boxes, which will be oriented to form a plane roughly 4 m from the fixed target of the experiment. A new photon camera has been designed that is based on the SuperB FDIRC prototype, but modified to reduce the cost while maintaining the physics performance. The full GlueX FDIRC system will consist of two such cameras, with the first expected to be built and installed by mid 2017. We present the current status of the design and R&D, along with the future plans of the GlueX FDIRC detector.

Registered

Yes

Primary author: PATSYUK, Maria (MIT)

Co-authors: SCHWARZ, Carsten (GSI Darmstadt GmbH); FANELLI, Cristiano (Universita e INFN, Roma I (IT)); WILLIAMS, J Michael (Massachusetts Inst. of Technology (US)); SCHWIENING, Joachim (GSI Helmholtzzentrum für Schwerionenforschung GmbH); HARDIN, John (University of North Caroline - Chapel Hill); STEVENS, Justin (MIT); SHEPHERD, Matthew (Indiana University); Dr DZHYGADLO, Roman (GSI)

Presenter: PATSYUK, Maria (MIT)

Session Classification: Cherenkov light imaging in particle and nuclear physics experiments

Track Classification: Cherenkov light imaging in particle and nuclear physics experiments