

Abstract Submitted  
for the DNP17 Meeting of  
The American Physical Society

**Search for the exclusive photoproduction of a leptophobic B boson at GlueX** CRISTIANO FANELLI, Massachusetts Institute of Technology, GLUEX COLLABORATION — An exclusive search for a directly photoproduced leptophobic B boson coupling to the baryon number is performed at GlueX by looking at its main decay channels. The data collected so far can give a significant contribution to this search, and in case of non observation GlueX can improve the existing exclusion limits on the gauge coupling  $\alpha_B$  by a factor  $O(100)$  in the mass region between 450 and 900 MeV. Details of the analysis are presented along with motivations for similar BSM searches at Jefferson Lab.

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Date submitted: 30 Jun 2017

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