

Abstract Submitted  
for the APR12 Meeting of  
The American Physical Society

**LIPSS status and LIPSS-2 future experiments**<sup>1</sup> JAMES R. BOYCE, Jefferson Lab, A. AFANASEV, George Washington University, O.K. BAKER, Yale University, K.B. BEARD, Muons, Inc., G. BIALLAS, Jefferson Lab, M. MINARNI, Universitas Riau (UNRI), T.R. ROBINSON, Columbia University, M. SHINN, Jefferson Lab — The LIght Pseudoscalar and Scalar Search (LIPSS) experiment was the first dark matter experiment to use a photon beam from a high average power free-electron laser (FEL). LIPSS employed the “Light Shining through a Wall” (LSW) technique. Results from these laboratory dark matter searches established new boundaries for six possible dark matter particles. In addition, the experimental set-up can be modified for dark energy particle searches using the “Particles in a Jar” technique. The LIPSS set-up will be summarized and a brief description of other DM/DE search possibilities (LIPSS-2) with the FEL facility will be discussed.

<sup>1</sup>Office of Naval Research Award N00014-06-1-1168; DOE DE-AC05-06OR23177

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Date submitted: 10 Jan 2012

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