## Abstract Submitted for the APR15 Meeting of The American Physical Society

The Heavy Photon Search Experiment at Jefferson Lab OMAR MORENO, Santa Cruz Institute for Particle Physics/University of California, Santa Cruz, HPS COLLABORATION — The Heavy Photon Search (HPS) is a new experiment at Jefferson Lab that will search for massive U(1) vector bosons (also known as heavy photons, dark photons, or A') of mass 20–1000 MeV that couple to electric charge with relative coupling  $\alpha'/\alpha$  of  $10^{-5}$ – $10^{-10}$ . The HPS experiment is designed to produce heavy photons by electron scattering off a fixed target, and detect decays to  $e^+e^-$  pairs with two signatures (invariant mass resonance and displaced decay vertex). The detector is a compact, large-acceptance forward spectrometer comprising a silicon microstrip tracker for momentum measurement and vertexing and an electromagnetic calorimeter for triggering on  $e^+e^-$ . This talk will give an overview of the HPS experiment and its current status after test, commissioning, and engineering runs.

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