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Testing and Calibration of the Electromagnetic Calorimeter for the Heavy Photon Search Experiment MATHIEU EHRHART, Old Dominion University, HPS COLLABORATION — The Heavy Photon Search (HPS) experiment at Jefferson Laboratory will search for hypothetical massive vector boson, called "heavy photon." The experiment is expected to run in Hall B in the fall of 2014. In this first phase of the measurements, it will search for a heavy photon in the mass range of 20 to 200 MeV/c^2. In this mass range the heavy photon will decay into e^+e^- pair. An electromagnetic calorimeter (Ecal) will be used to identify electrons and for triggering the readout. The Ecal is made of 442 lead-tungstate ($PbWO^4$) crystals with avalanche photodiode (APD) readout. I will present results from the calibration of cosmic ray testing.

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