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Chicane current setting for the Heavy Photon Search 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 commissioning run began in the fall of 2014 and will continue to run in Hall B in the spring of 2015. In this first phase of the measurements, HPS will search for a heavy photon in the mass range of 20 to 200 MeV/ c^2 . In this mass range, the heavy photon is predicted to decay into e^+e^- pair. The HPS experiment uses an electromagnetic calorimeter for energy measurements and triggering, and a silicon vertex tracker located inside the HPS analyzing magnet (AM) for momentum and vertex measurements. Two small H-dipole magnets are needed before and after the analyzing magnet to form a chicane and ensure beam alignment. In this poster, determination of the current settings for the AM and the two small bending magnets as a function of the beam energy will be presented.

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