Abstract Submitted
for the SES09 Meeting of
The American Physical Society

Intranight Optical Variability of 1418+546 H.G. MARINE, H.R. MILLER, J. EGGEN, J. MAUNE, Georgia State University, K. MARSHALL — The object 1418+546 is a BL Lacertae object which is a member of a class of Active Galactic Nuclei (AGN) called blazers. Photometric observations of 1418+546 have been made in through an R-filter using the 16-inch Meade telescope at Hard Labor Creek Observatory (HLCO) and the 31-inch telescope at Lowell Observatory. Significant night-to-night variations have been observed with intranight optical variability superposed on these longer term variations. Preliminary analyses show the time scale of variability for this object is one of the shortest in its class. The timescale of the variations will place an upper limit on the size of the emitting region. This data set will also be investigated to determine if a there exists a characteristic timescale or periodicity in these variations.

H. G. Marine
Georgia State University

Date submitted: 18 Aug 2009 Electronic form version 1.4