

Meeting: 1005, Newark, Delaware, SS 1A, Special Session on Homotopy Theory (in Honor of Donald M. Davis's and Martin Bendersky's 60th Birthdays)

1005-55-14 **Duane Randall*** (randall@loyno.edu). *Block Bundle Obstruction to Kervaire Invariant One.*
PL block bundle theory provides obstructions to the existence of Kervaire invariant one elements and their sphere-of-origin. The lower bound for sphere-of-origin due to Barratt-Jones-Mahowald is attained in dimension 62 and also in dimension 126, assuming such elements exist. This is joint work with KEE LAM. (Received December 14, 2004)