

Meeting: 1001, Evanston, Illinois, SS 16A, Special Session on Spectral Problems of Differential Operators

1001-34-45 **Lingju Kong*** (lkong@math.niu.edu), Department of Mathematical Sciences, Northern Illinois University, Dekalb, IL 60115, and **Qingkai Kong**. *Right-definite half-linear Sturm-Liouville Problems.*

We establish the existence of real eigenvalues for a class of right-definite half-linear Sturm-Liouville problems. Dependence of eigenvalues on the problems is also studied. (Received July 19, 2004)