

1145-34-2127

**Qingkai Kong** and **Thomas E St. George\*** (tstgeorg@carrollu.edu). *Linear Sturm-Liouville Problems with Riemann-Stieltjes Integral Boundary Conditions.*

In this talk, we consider second-order linear Sturm-Liouville problems involving general homogeneous linear Riemann-Stieltjes integral boundary conditions. Conditions are obtained for the existence of a sequence of positive eigenvalues with consecutive zero counts of the eigenfunctions. Additionally, interlacing relationships between the eigenvalues of such Sturm-Liouville problems and those of Sturm-Liouville problems with certain two-point separated boundary conditions are obtained. (Received September 24, 2018)