1099-13-362 **Liana M Sega*** (segal@umkc.edu). *Homological properties of compressed Gorenstein local rings.*
A compressed Gorenstein local ring is a commutative artinian local ring $(R, \mathfrak{m}, k)$ whose length is maximal, given fixed integes s and t with $\mathfrak{m}^s \neq 0 = \mathfrak{m}^{s+1}$ and $\operatorname{rank}_k(\mathfrak{m}/\mathfrak{m}^2) = e$. I will present work with M. Rossi in which we establish that the Betti numbers of all finite modules over such rings satisfy specific recurrence relations. I will also discuss recent work with J. Hoffmeier, which shows that the Yoneda Ext algebra of such rings is generated in degrees 1 and 2. (Received February 11, 2014)