1100-13-182 **Justin Hoffmeier***, jche60@mail.umkc.edu, and **Liana Sega**. *Generalized Koszul properties of compressed Gorenstein local rings.* Preliminary report.

Compressed Gorenstein local rings have been discussed recently in work of Rossi and Şega; they are defined as those local rings $(R, \mathfrak{m}, k)$ of maximal length among all local Gorenstein Artinian rings of socle degree s, where $\mathfrak{m}^{s+1} = 0 \neq \mathfrak{m}^s$, and embedding dimension $e = \operatorname{rank}_k(\mathfrak{m}/\mathfrak{m}^2)$. When $s = 2$ such rings are Koszul, in the sense that the associated graded ring with respect to $\mathfrak{m}$ is a Koszul algebra. We prove that when $s > 2$ and s is even these rings satisfy various properties which can be understood as *generalized Koszul properties*. In particular, the Yoneda algebra $\operatorname{Ext}_R(k, k)$ is generated in degrees 1 and 2. (Received February 07, 2014)