1057-16-430 **Dag Madsen*** (dmadsen@syr.edu), Mathematics Department, 215 Carnegie, Syracuse University, Syracuse, NY. *T-Koszul algebras.*

Let $\Lambda = \bigoplus_{n \ge 0} \Lambda_n$ be a graded algebra over a field k. We assume $\dim_k \Lambda_i < \infty$ for all $i \ge 0$, but we do not assume that Λ_0 is semi-simple. Suppose gldim $\Lambda_0 < \infty$. Let T be a graded Λ -module concentrated in degree zero.

In this talk I propose the following new definition of T-Koszul algebras: Λ is a T-Koszul algebra if both (1) and (2) hold.

- (1) T is a tilting Λ_0 -module.
- (2) T is graded self-orthogonal as a Λ -module.

We prove that many quasi-hereditary Koszul algebras have a T-Koszul algebra structure coming form the standard (Verma) modules. (Received January 26, 2010)