

1073-16-25

**Tom Cassidy\*** (tcassidy@bucknell.edu) and **Chris Phan**. *Graded algebras with relations in degrees 2 and d*. Preliminary report.

Finitely generated graded algebras with defining relations in degrees 2 and  $d$  can have Koszul-like homological properties. Such algebras have been independently studied by Vatne and by Green and Marcos. I will discuss connections between these two approaches, and answer two questions posed by Green and Marcos. I will also provide a partial answer to a question posed by Vatne. This is joint work with Chris Phan. (Received July 02, 2011)