1166-13-130 **Matthew Mastroeni*** (mmastro@okstate.edu), **Hal Schenck** and **Mike Stillman**. *Quadratic Gorenstein rings and the Koszul property.*

Many quadratic Gorenstein rings arising in algebraic geometry, such as the coordinate rings of canonical curves, Grassmannians, and certain sets of points in projective space, are also always Koszul. In this talk, we aim to answer the question: For which integers $c, r \geq 0$ is every quadratic Gorenstein algebra over a field with codimension c and regularity r Koszul? We give an affirmative answer when $c = r + 1$, and time permitting, we will discuss how to produce numerous examples of non-Koszul quadratic Gorenstein rings in almost all other cases, negatively answering a question of Conca, Rossi, and Valla concerning the $r = 3$ case in the process. (Received February 15, 2021)