Zvi Rosen and Jessica Sidman* (jsidman@mtholyoke.edu), Department of Mathematics and Statistics, Mount Holyoke College, South Hadley, MA 01002, and Jessica Sidman and Cynthia Vinzant. Algebraic matroids in rigidity theory. Preliminary report.

Consider a framework consisting of a fixed length bars attached at flexible joints. The central question in rigidity theory is to determine if the resulting framework is rigid or flexible. In this talk we will discuss various algebraic matroids associated to frameworks and how to extract geometric data from circuit polynomials. (Received August 13, 2018)