

DREXEL ANALYSIS SEMINAR

February 22, 2013

3-3:50 PM, Korman 245

Speaker: Ron Perline

Title: A dynamical approach to finding static equilibria.

Abstract: I will describe an elementary way of obtaining particle dynamics from linear operators on polynomial spaces. The equilibria for these dynamical problems come directly from roots of the eigenfunctions of the linear operators. Sometimes, the solutions are of interest in other, less artificial problems. I will describe a couple of elementary examples, and then a slightly more complicated one associated with the Calogero–Sutherland operator on polynomial spaces.