1127-60-130 **Robin Pemantle*** (pemantle@math.upenn.edu), 209 South 33rd Street, Philadelphia, PA 19104.

Zeros of random polynomials and their derivatives.

Consider a random polynomial or power series f. Its zero set Z is a point process in the complex plane. An obvious and much studied question is to describe of the law of Z. In this talk I consider a rather different model where f is obtained from g by differentiating once or more, with the zeros of g following some simple law. The goal is now to understand how the zeros evolve. In one step, there is little change. In many steps, for a model with zeros of constant density on the real line, the zeros approach an evenly spaced lattice. (Received January 30, 2017)