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Erik Lundberg* (elundber@fau.edu) and **Koushik Ramachandran**. *The geometry of random polynomials: a probabilistic counterpart to the Erdos lemniscate problem.*

Erdos, Herzog, and Piranian posed the extremal problem of determining the maximum length of a polynomial lemniscate $|p(z)|=1$ when p is a monic polynomial of degree n . In this talk, we study the length and topology of a random lemniscate whose defining polynomial has i.i.d. Gaussian coefficients. We show that the length approaches a constant. We also show that the average number of connected components is asymptotically n , and we observe a positive probability (independent of n) of a giant component occurring. (Received September 14, 2019)