

## **Quantitative Singularity theory for Random Polynomials**

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In this talk, based on a joint work with A. Lerario and H. Keneshlou, I will discuss what we call a "singularity type" of a system of Kostlan polynomials. Among these types is the zero set or the set of critical points. The main result is that with overwhelming probability the singularity type of a system of Kostlan polynomials is equal to the type of another system of polynomials, whose degree is much smaller. As a consequence, "complicated" configurations are an extremely rare event.