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Zeros of Fekete polynomials

The study of the location of zeros of polynomials with coefficients constrained in different sets has a very rich history. The case of random polynomials has been extensively studied and the asymptotic number of real zeros has been computed in various cases (Gaussian, Bernoulli etc). The problem is subtler in a deterministic case. The goal of the talk is to briefly survey some developments in this subject and discuss recent progress for the family of Fekete polynomials. This is part of a joint work with Y. Lamzouri and M. Munsch.