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Iguá 4225, 11400 Montevideo, Uruguay. *Some results on large random polynomial systems.*

Let

$$X_i(t) = 0 \quad i = 1, 2, \dots, m; \quad t \in R^m \quad (1)$$

be a system of random equations. Assume that all the  $X_i$ 's are polynomials, and that the probability measure on the - real - coefficients satisfies the Kostlan-Shub-Smale model.

The purpose of the talk is to give a certain number of recent results on the asymptotic behavior of the number of roots of the system (??) when  $m$  tends to infinity. (Received February 21, 2008)