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Grigory Terlov* (terlov@wisc.edu), 131 Monroe St, Apt. 2s, Hoboken, NJ 07030. *On the Probability of Random Polynomials with Integer Coefficients Being Irreducible.*

In this article we study asymptotical behavior of the probability that a random monic polynomial with integer coefficients is irreducible over the integers. We consider the cases where the coefficients grow together with the degree of the random polynomials. Our main result is a generalization of a theorem proved by Konyagin in 1999. We also generalize Hilberts Irreducibility Theorem and present an analog of this result with shifted Binomial distributed coefficients. (Received September 16, 2017)