Colloquium

The density of squarefree values taken by a polynomial

Manjul Bhargava
Princeton

Abstract: It is well known that the density of integers that are squarefree is $6/\pi^2$, giving one of the more intriguing occurrences of π where one might not a priori expect it! A natural next problem that has played an important role in number theory is that of understanding the density of squarefree values taken by an integer polynomial. We survey a number of recent results on this problem for various types of polynomials - some of which use the "ABC Conjecture" and some of which do not.

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Emory University