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Cubic Binary Forms That Do Not Represent 1.

Let F(x , y) be an irreducible binary cubic form. It is known that the equation F(x , y) = 1 has at most finitely many solutions in integers x and y. I am going to show that for a positive proportion of binary forms F(x , y), the equation F(x , y) = 1 has no solutions in integers x and y. This is a joint work with M. Bhargava.