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Many Thue equations have no solutions

I will talk about my recent joint work with Manjul Bhargava. We show that a positive proportion of integral binary cubic forms that locally everywhere represent 1 do not globally represent 1. We order all classes of binary cubic forms by their absolute discriminants. We prove the same result for binary forms of any degree greater than 2, provided that these forms are ordered by the maximum of the absolute values of their coefficients.