## New perspectives on obstructions to rationality

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January 21, 2016

A fundamental problem in algebraic geometry is to find rational parametrizations for the solutions of a polynomial equation—or demonstrate that such a parametrization is impossible. Such parametrizations are useful in many fields, from mapmaking and computer-aided design to number theory. The goal of this talk is to summarize very recent progress on these questions due to Voisin and others, while highlighting remaining outstanding open questions.