

Alexei Skorobogatov
Imperial College London

Rational points on families of conics

The Brauer-Manin conditions precisely describe the closure of rational points in the adelic points for pencils of conics and quadrics over \mathbb{Q} when the degenerate fibres are all defined over \mathbb{Q} . This is based on the work of Green, Tao and Ziegler in additive combinatorics. I will give an overview of recent work in this direction due to L. Matthiesen, T. Browning, Y. Harpaz, O. Wittenberg and the speaker.