

Exposé plénier

7 *A two dimensional version of the delta method and applications to quadratic forms*

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We develop a two dimensional version of the delta symbol method (Heath-Brown circle method) and apply it to establish a quantitative Hasse principle for a smooth pair of quadrics defined over \mathbb{Q} in least 10 variables. This improves on work of Munshi which applies a modified one-dimensional delta method twice, and provokes the question: what is the delta-method, really? This is joint work with Pankaj Vishe (Durham) and Junxian Li (Bonn).