

Prof. Xenia de la Ossa
University of Oxford

An Interpretation of the Birch Swinnerton-Dyer Conjecture

The aim of this mini-course is to give a heuristic understanding of the Birch and Swinnerton-Dyer conjecture in terms of path integrals. We will begin by reviewing the conjecture and then we will proceed to recast the conjecture in terms of path integrals which can be approximated in a way that is analogous to the method of steepest descent method.