



ICTS Seminar

Title : On the Birch and Swinnerton-Dyer Conjecture

Speaker: Florian Sprung, Institute for Advanced Study, Princeton

Date: Thursday, August 10, 2017

Time : 3:00 PM

Venue : Amal Raychaudhuri Meeting Room, ICTS Campus, Bangalore

Abstract: The Birch and Swinnerton-Dyer conjecture, one of the millenium

problems, is a bridge between the algebra and the analysis of elliptic

curves. (Here is an elliptic curve: $y^2=x^3+1$.) In one sentence, the

conjecture says that L-function associated to an elliptic curve

should know 'everything' about the rational points on it. Other than

explaining what the L-function is, we will discuss what is known

about the conjecture, and how we can attack it one prime at a time.

This talk assumes no specialized background in number theory.

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