המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 10 במאי, 2016

בשעה *14:30 – 15:30*

ב *Math -101*

ההרצאה

theory field class explicit and curves Elliptic

תינתן על-ידי

McGill)) Darmon Henri

תקציר: The arithmetic of elliptic curves is related in multiple ways to explicit class field theory, notably through the theory of {\em complex multiplication}, This connection plays a key role of one of the crown jewels of number theory. in recent progress in the recent theorem that there are positive proportions of elliptic curves of rank zero, and of rank one, for which the Birch and Swinnerton- Dyer conjecture is true, growing out of the work of Gross-Zagier, Kolyvagin, Bhargava-Shankar, Skinner-Urban-Wan, and Wei Zhang. I will discuss various relations that exist between elliptic curves and explicit class field theory, such as those above.