Algebra and Number Theory Seminar

Quadratic field, cubic equation and the first derivative of L-functions

Wei Zhang

Harvard University

Abstract: There has been a long history on how to construct all rational solutions of cubic equations of two variables like $y^2 = 4x^3 + ax + b$. We will see how imaginary quadratic fields, together with the study of some L-functions, can be used to partially solve the question. We will also mention some recent progress that leads us to a broader perspective.

Thursday, October 21, 2010, 3:00 pm

Mathematics and Science Center: E408

Mathematics and Computer Science
Emory University