

# Séminaire de théorie des nombres

Le 26 novembre 2007 à 14h

## Stark-Heegner points on elliptic curves over totally real fields

Exposé de Matthew Greenberg (MPI et University of Calgary)

**Résumé :** Let  $E$  be an elliptic curve defined over a totally real number field  $F$ . The conjecture of Birch and Swinnerton-Dyer predicts that the Mordell-Weil rank of  $E$  grows systematically in certain towers of field extensions of  $F$ . In this talk, I will discuss generalizations of the Stark-Heegner point construction of Darmon which should explain this rank growth in many cases.