Séminaire de théorie des nombres

Le 10 juin 2013 à 14h (PRG)

A numerical look at the generalized Birch and Swinnerton-Dyer conjecture for certain threefolds

Exposé de Chad Schoen (Duke)

Résumé : This is joint work with Joe Buhler and Jaap Top. The generalization of the original conjecture of Birch and Swinnerton-Dyer was formulated by Bloch and Beilinson and predicts that the order of vanishing of the *L*-function of a threefold at the center of the critical strip gives the rank of the Chow group of cycles homologous to zero. We discuss an attempt to construct null-homologous one cycles, evaluate the Abel-Jacobi map at these cycles, and to compare the results with the apparent order of vanishing of the *L*-function.