



SCUOLA  
NORMALE  
SUPERIORE

## SEMINARIO DI MATEMATICA

**giovedì 21 luglio 2011**  
ore 16.00

Scuola Normale Superiore  
Pisa  
(Aula Bianchi)

***Daniele Disegni***  
*Columbia University New York*

Terrà un seminario dal titolo:

### **“Special values of L functions and their derivatives”**

***Abstract***

*L functions are functions of one complex variable associated to various objects of arithmetic interest (basic examples being the Riemann zeta function, or the L function of an elliptic curve). A wealth of information about the object under consideration can be extracted from its L function. This talk will propose an introduction to a web of conjectures (Zagier, Birch and Swinnerton-Dyer, Bloch-Beilinson,...) relating the values of L functions (and their derivatives) at integer arguments to arithmetic invariants. The known results in these directions are partial but significant: I will survey some of them, concentrating on those based on explicit formulas (Gross-Zagier and generalizations).*

Tutti gli interessati sono invitati a partecipare.

Classe di Scienze