

REU IN NUMBER THEORY

Thanks to the generous support of the National Science Foundation, we will be running an intense summer research program for 6-8 undergraduate students in the summer of 2010. The program is an ambitious research experience in Number Theory concentrating on the following themes:

- I. Hypergeometric properties of elliptic curves
- II. p -adic interplay between Catalan numbers and elliptic curves
- III. Lehmer's Conjecture on Ramanujan's tau-function

There are two main objectives for this REU. First and foremost, we aim to have fun with the program. The selected problems are of wide interest, and are carefully chosen to maximize the likelihood of success.

FINANCIAL SUPPORT

To be eligible for the program, an applicant must be an undergraduate student (or in exceptional cases a high school student) that is a U.S. citizen or permanent resident. Moreover, the student must not hold an undergraduate degree at the time of the program. Selected participants will receive free lodging on campus, a \$3,600 stipend, and up to \$400 in travel related expenses.