UNIVERSITÀ DELLA CALABRIA

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE



*Ph.D. programme in Mathematics and Computer Science* 

## *Title:* NUMBER THEORY

## Speaker: Dott.ssa Laura Paladino, postdoctoral fellow, UniCal

## Abstract:

The course provides a background of some classical topics and some recent developments in algebraic number theory. In particular the lectures focus on the following subjects: discrete valuations ring and Dedekind domains; structure of modules over Dedekind domains; number fields; Galois extensions; cyclotomic fields; ideal class group; continued fractions and Pell's equation; padic valuations and p-adic fields; local and global fields; Hasse principle; elliptic curves; abelian varieties; commutative algebraic groups; Tate-Shafarevich groups.

## Organization:

Wednesday, May 16, 2018: 8.30-10.30 am, MT13

Wednesday, May 23, 2018: 8.30-10.30 am, MT13

Wednesday, May 30, 2018: 8.30-10.30 am, MT13

Wednesday, June 06, 2018: 8.30-10.30 am, MT13

Wednesday, June 13, 2018: 8.30-10.30 am, MT13

Wednesday, June 20, 2018: 8.30-10.30 am, MT13

Wednesday, June 27, 2018: 8.30-10.30 am, MT13

Wednesday, July 04, 2018: 8.30-10.30 am, MT13