

# STNB 2015-16

SEMINARI DE TEORIA DE NOMBRES DE BARCELONA  
BARCELONA NUMBER THEORY SEMINAR (UB-UAB-UPC)



## Barcelona Fall Workshop on NUMBER THEORY

25-27 november, 2015

Facultat de Matemàtiques, UB

### PROGRAMME

Sessions will be held in Josep Carner building (entrance by Aribau street)

#### Wednesday November 25, Room 0.2

- 15:00-15:40 Construction of CM genus 3 curves: a survey and first results, Elisa Lorenzo (Leiden University).
- 16:00-16:40 Modular forms over fields of mixed signature and algebraic points in elliptic curves, Xavier Guitart (Universitat de Barcelona).
- 17:00-18:00 On approximation of special series of oscillating terms of quantum theory, Ekatherina Karatsuba (Dorodnicyn Computing Center of RAS, Moscow).

#### Thursday November 26, Room 0.2

- 15:30-16:30 On the generalized Fermat equation  $x^{2\ell} + y^{2m} = z^p$ , Samuele Anni (University of Warwick).
- 17:00-18:00 Automorphy of the tensor product  $GL(2) \times GL(n)$ , Luis Dieulefait (Universitat de Barcelona).

#### Friday November 27, Room 2.4

- 10:30-11:30 Serre weights and wild ramification in two-dimensional Galois representations, Lassina Dembélé (University of Warwick).
- 12:00-13:00 On some Fermat-type equations, Nuno Freitas (Universitat de Barcelona).