WYDZIAŁ MATEMATYCZNO – FIZYCZNY
Instytut Matematyki

Zaprasza na wykład pod tytułem:

Abelian varieties with complex multiplication and their first truncated Barsotti-Tate group schemes

który wygłosi:

prof. Alexey Zaytsev

Uniwersytet w Kaliningradzie

Let A be an abelian variety over a number field L with complex multiplication by the full ring of integers O_K for some CM field K. If A has a good reduction at a prime ideal S in L then A mod S is an abelian variety over a finite field of characteristic p. In this talk, we will study a correspondence between the decomposition of ideal pO_K into prime ideals (unramified case) and the decomposition of the first truncated Barsotti-Tate group scheme (A mod S)[p]. We will try to understand p-torsion points of the abelian variety (A mod S) (as a group scheme, i.e. in functorial sense) from two points of view, algebraic number theory and arithmetic geometry. In addition, I will discuss a moduli problem of abelian varieties up to isogeny.

Wykład odbędzie się **13 czerwca 2012 r.** (środa)
o godz. **16.00** w sali 212
w budynku Wydziału Matematyczno – Fizycznego.