K–Theory, Quadratic Forms and Number Theory Seminar

Title: Elementary equivalence of lattices of open sets definable in o–minimal expansions of fields

Speaker: Dr. Vincent Astier (UCD)

Date: Thu 10th November 2011 at 4:00PM

Location: Mathematical Sciences Seminar Room (Ag 1.01)

Abstract: The main result is that lattices of open definable subsets of o–minimal expansions of fields are always elementary equivalent, and the aim of the talk is mostly to explain what it means. I will present the notions of elementary equivalence (a model–theoretic approach to comparing structures) and o–minimality, then try to show what all of this has to do with lattices of open sets. Finally I will present the result and the tools used to obtain it.