Speaker : Marc Hindry

Title: On the number of torsion points of abelian varieties over number fields **Abstract**: I will discuss joint work with Nicolas Ratazzi on how the number of torsion points of a fixed abelian variety A defined over a number field K may increase when the degree of K tends to infinity. The answer (proved or conditional) depends on the Galois representations attached to A and its Mumford-Tate group. I will discuss both known cases and what we expect in general.