Speaker: John-Marc Fontaine

Title: The fundamental curve of p-adic Hodge theory

Abstract: Let \overline{K} an algebraic closure of a *p*-adic field *K*. We construct a separated noetherian regular scheme *X* (non algebraic) equipped with an action of $G_K = Gal(\overline{K}/K)$. We have $H^0(X, O_X) = Q_p$ and $H^1(X, O_X) = 0$. For each rational number λ , there is exactly one isomorphism class of stable vector bundles of slope λ . The two main theorems of *p*-adic Hodge theory can be deduced from the classification of vector bundles over *X* (joint work with Laurent Fargues).