Ruochuan Liu: **Finiteness of cohomology of relative (phi,Gamma)-modules.**

We will show finiteness of the higher direct images of geometric (phi, Gamma)-modules for proper smooth morphisms of smooth rigid analytic varieties. As a consequence, for proper smooth rigid analytic varieties over finite extensions of Qp, the proetale cohomology groups of Qp-local systems are all finite dimensional Qp-vector spaces. This is joint work with Kedlaya.