Workshop in algebraic K-theory and motivic cohomology.

This workshop will be devoted to recent developments in algebraic K-theory, algebraic cycles and motives. The main topics to be discussed are:

• Completed K-theory for schemes over a DVR
• Non-$\mathbb{A}^1$-homotopy invariant aspects of K-theory, reciprocity functors and Chow groups with modulus.
• Pro-cdh descent for K-theory and cyclic homology with applications to the K-theory of singular scheme.
• Application of unstable $\mathbb{A}^1$-homotopy theory to classical stability questions.
• Applications of the Grothendieck formalism in categories of triangulated mixed motives to geometric representation theory and generalizations of motivic polylogarithms.
• Geometric applications of the theory of non-commutative motives.
• Analytic constructions in K-theory and motivic cohomology, such as differential K-theory, Arakelov motivic cohomology and Deligne-K-theory.
• Motivic versions of perverse sheaves and intersection cohomology.