Speaker: Dmitry Kaledin

Title: Bokstedt periodicity and Bott periodicity

Abstract: Topological Hochschild Homology, while originally defined by topologists, has recently started turning up in many purely algebraic situations. This is especially true for algebras over a finite filed $\mathbb{F}_p$, due to a sort of a miracle: $\mathrm{THH}(\mathbb{F}_p)$ is extremely simple, it is just the algebra of polynomials in one variable of degree 2. However, the existing proofs of this fact are not simple at all. I will present yet another proof that uses quite a few additional general structures THH is known to have (to wit, multiplication and a trace functor structure), but almost nothing specific to $\mathbb{F}_p$.