

*Speaker* : Eugene Ha

*Title* : On Hermitian vector bundles and the Bost-Connes system

*Abstract* :

The Bost-Connes system is the moduli space of isomorphism classes of lattices in a real vector space with degenerate level structure up to commensurability. It has connections to abelian class field theory and is a finite version of the geometric space underlying Alain Connes's approach to the Riemann hypothesis. We shall discuss some work in progress concerning a completion of the Bost-Connes system to the infinite prime using Hermitian vector bundles.