

Speaker: **George Elliott**

Title: **A canonical form of the Pimsner-Voiculescu embedding**

Abstract

In joint work with Zhuang Niu, an embedding of the irrational rotation  $C^*$ -algebra in an AF algebra has been constructed which does not involve the arbitrary choices present in the original Pimsner-Voiculescu embedding. While the AF algebra is the same in the two cases, in the sense that the two AF algebras constructed are isomorphic, it is not quite clear what the relation is between the constructions. The new construction can be described (i.e., is uniquely determined) by a universal property. It should be mentioned that the construction in question has so far in fact been verified only in the case of a generic (irrational) rotation.