

Speaker: Su Gao

Title: Equivalence relations from actions of the unitary group **Abstract:**By

the unitary group we mean the Polish group of unitary operators on a separable complex Hilbert space. We consider the class of all orbit equivalence relations induced by Borel actions of the unitary group. The main focus is the Borel reducibility hierarchy for this class of equivalence relations. I'll talk about results as well as open problems.