

Department of Mathematics

University of Houston

Analysis Seminar

MONDAY, October 31, 2016

15:00-16:00 – Room 646 PGH

Speaker: Roger Smith (Texas A&M University)

Title: A Galois correspondence for C^* -subalgebras of crossed products of simple C^* -algebras

Abstract: If a discrete group G acts on a unital C^* -algebra A by outer automorphisms, then we consider the inclusion of A into the reduced crossed product. Each subgroup H gives rise to an intermediate C^* -algebra, and if this accounts for all intermediate C^* -algebras then we have a Galois correspondence with the subgroups of G . When A is simple (no proper ideals) then such a Galois correspondence holds in two known cases: G is abelian (Landstad, Olesen and Pedersen) and G is finite (Izumi). In this talk we will show that this Galois correspondence holds generally without any restriction on G . This is joint work with Jan Cameron.