

Department of Mathematics

University of Houston

Analysis Seminar

Thursday, September 29, 2016

11:00-12:00 – Room 646 PGH

Speaker: Scott LaLonde (University of Texas at Tyler)

Title: Permanence properties of exact groupoids

Abstract: A locally compact groupoid is said to be exact if its associated reduced crossed product functor is exact. In this talk, we will investigate permanence properties of exact groupoids, some of which generalize known results for exact groups. We will see that exactness descends to certain types of closed subgroupoids, and that any action of an exact groupoid on a locally compact Hausdorff space yields an exact transformation groupoid. The latter result also admits a partial converse: if G acts on a suitable space X and the transformation groupoid $G \times X$ is exact, then G is necessarily exact. If time permits, we may also discuss the related notion of inner exactness (which was recently introduced by Anantharaman-Delaroche) and some results about Fell bundles over exact groupoids.