Department of Mathematics

University of Houston

Analysis Seminar

MONDAY, October 24, 2016

15:00-16:00 – Room 646 PGH

Speaker: Jason Crann (Carleton University)

Title: Module injectivity of group von Neumann algebras

Abstract: This talk will feature recent results on the injectivity of VN(G) as an operator module over the Fourier algebra A(G) for general locally compact groups G. Contrary to the operator space category, we show that amenability of G is equivalent to injectivity of VN(G). We then show that inner amenability of G is equivalent to relative injectivity of VN(G). This result, among other things, allows us to answer 3 open questions in abstract harmonic analysis. In the bimodule setting, we characterize the (relative) injectivity of VN(G) and apply our results to elucidate the operator amenability of $A_{cb}(G)$ - the cb-multiplier norm closure of A(G).