Analysis Seminar

Wednesday, May 11, 2016

11:00-12:00 – Room 646 PGH

Speaker: Michael Brannan (Texas A&M University)

Title: On complemented ideals in the Fourier algebra

Abstract: For a locally compact group G, the Fourier algebra $A(G)$ is the space of coefficient functions of the left-regular representation of G. $A(G)$ turns out to be a completely contractive Banach algebra of continuous functions on G, and it serves as a natural generalization of the convolution algebra of L^1 functions on the Pontryagin dual of G when G is non-abelian. In this talk I will discuss the problem of classifying the complemented ideals in $A(G)$. Our main emphasis will be on how the study of this problem within the operator space category (i.e., by considering _completely_ complemented ideals instead of merely Banach space complemented ideals) makes some of the analysis much more tractable.