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Exotic Ideals in the Fourier-Stieltjes Algebra of a Locally Compact group.

Recently, there has been considerable interest in identifying natural intermediate C^* -algebras sitting strictly between the full group C^* -algebra $C^*(G)$ and the reduced C^* -algebra $C_r^*(G)$ for various non-amenable groups such as the free group on two generators. In this talk we will focus on the dual version of this problem. In particular, we show that for large classes of locally compact groups, including even abelian groups, that L^p -representations generate distinct exotic ideals in the Fourier-Stieltjes of G which contain the Fourier algebra. We also look at some basic properties of these exotic ideals that distinguish them from the Fourier algebra itself.

This is joint work with Zsolt Tanko and Matthew Wiersma.