## Fourier and Fourier-Stieltjes algebra of a locally compact group

If G is a locally compact abelian group, and  $\widehat{G}$  is the dual group of G. Then the Fourier transform of functions in  $L^1(\widehat{G})$ , the group algebra of  $\widehat{G}$ , is a subalgebra A(G) of CB(G), the space of bounded continuous complex-valued functions on G with pointwise multiplication called the Fourier algebra of G, and the Fourier-Stieltjes transform of measures in  $M(\widehat{G})$ , the measure algebra of  $\widehat{G}$ , also a subalgebra of CB(G), called the Fourier-Stieltjes algebra of G. In this talk, I shall describe the Fourier and Fourier-Stieltjes algebra of an arbitrary locally compact group, their basic properties and some open problems. I shall also include a recent Decomposition Theorem of B(G) due to T. Miao with an elementary proof.