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# POSITIVE DEFINITE FUNCTION AND FOURIER-STIELTJES ALGEBRA OF A LOCALLY COMPACT GROUP

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## Abstract

In 1964 in a celebrated article, P. Eymard has associated to a general locally compact group  $G$  two Banach algebras, the Fourier algebra  $A(G)$  and the Fourier-Stieltjes algebra  $B(G)$ . These are commutative function algebras on  $G$ . In the case  $G$  is commutative,  $B(G)$  is isometrically isometric (via Fourier transform) to the measure algebra  $M(H)$  of the dual group  $H$  of  $G$ . Since Eymard's paper these algebras have become central object of study in Harmonic Analysis. In this introductory talk I will define the positive definite functions and the algebra  $B(G)$  and present some properties of them to invite the interested students to this area of Harmonic Analysis.

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Bankalar Caddesi 2, Karaköy 34420, İstanbul

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