İSTANBUL ANALYSIS SEMINARS

POSITIVE DEFINITE FUNCTIONS 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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