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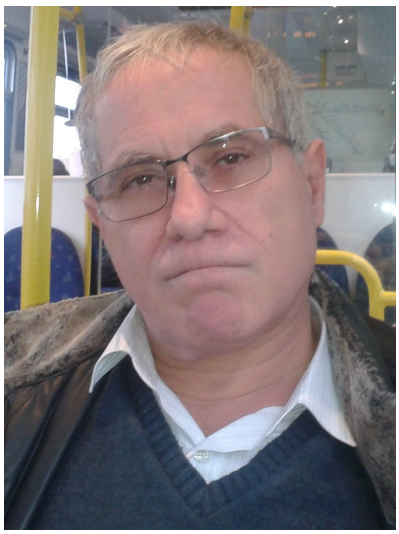
КИЇВСЬКИЙ МАТЕМАТИЧНИЙ КОЛОКВІУМ

The Hilbert transform intertwines a Perron-Frobenius operator



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A Heisenberg uniqueness pair is a pair (Γ, Λ), where Γ is a curve and Λ is a set in the plane $\mathbf{R}^2$, with the following property: any finite Borel measure μ in the plane supported on Γ, which is absolutely continuous with respect to arc length, and whose Fourier transform μ^1 vanishes on Γ, must automatically be the zero measure. It will be shown how Perron–Frobenius operators are intimately related to the Hilbert transform and to the Heisenberg uniqueness pairs associated with the hyperbola $x_1 x_2 = 1$.

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