

İSTANBUL ANALYSIS SEMINARS

SPECTRAL STRUCTURE OF JACOBI MATRICES AND THE DECAY BOUNDS ON THE GENERALIZED EIGENVECTORS

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Abstract: Bounds on the exponential decay of generalized eigenvectors of bounded and unbounded Jacobi (=tridiagonal) Hermitian matrices to be discussed. Their consideration leads to the constructive examples of Jacobi operators demonstrating the spectral phase transition behavior. No preliminary knowledge of Jacobi operators theory or orthogonal polynomials to be required. The talk is planned as an introduction to the topic.

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