

1099-47-9

Alain Bourget* (abourget@fullerton.edu), Department of Mathematics, California State University, Fullerton, Fullerton, CA 92834. *Szegő's Limit Theorem for Band Dominated Operators*. Preliminary report.

Szegő's first limit theorem is a remarkable result concerning the asymptotic eigenvalues distribution of large Toeplitz matrices. In this paper, we extend Szegő's results to a subclass of band dominated operators, namely to bounded operators in the closure of the algebra of infinite band matrices whose diagonal sequences satisfy a vanishing mean variation condition. (Received October 14, 2013)