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Distribution of eigenvalues for sub-skewtriagonal Hankel matrices. (English) Zbl 07467885

Summary: We investigate the eigenvalue distribution of banded Hankel matrices with non-zero skew diagonals. This work uses push-forward of an arcsine density, block structures and generating functions. Our analysis is done by a combination of Chebyshev polynomials, Laplacian determinant expansion and mathematical induction.

MSC:
15B05 Toeplitz, Cauchy, and related matrices
15A18 Eigenvalues, singular values, and eigenvectors

Keywords:
Hankel; eigenvalue; distribution; generating function

Full Text: DOI

References:

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