

Numerical ranges of banded 2-Toeplitz operators: boundary generating curve and algorithms

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Abstract

The numerical range of an operator is a well studied concept with many applications in several areas of mathematics. In this talk, the numerical range of banded biperiodic Toeplitz operators is investigated, performing a reduction to the 2×2 case. Namely, the parametric equations of the boundary generating curve are deduced and two algorithms for the numerical generation of the numerical range are presented.

Keywords

Numerical range, Boundary generating curve, Banded biperiodic Toeplitz operators.

References

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