Edward McDonald

Title:

The triangular truncation and Krein's theorem in modern language

Abstract

Gohberg and Krein's two books on the theory of linear nonselfadjoint operators revisit time and again a theorem of Krein on the asymptotic distribution of eigenvalues of the real part of a Volterra operator with trace-class imaginary part. This theorem was a matter of intense interest for mathematicians from the 50s until the 70s, but what precisely does it tell us? I will give a reformulation of the theorem in terms of Schur multipliers and discuss a new proof and various applications. Based on joint work with F. Sukochev and D. Zanin.