

המחלקה למתמטיקה, בן-גוריון

אלגבראות של אופרטורים ותורת האופרטורים

ביום שני, 21 בנובמבר, 2022

בשעה 16:00 – 17:00

ב-101 (basement)

ההרצאה

Kernels Christoffel–Darboux Noncommutative

תינתן על-ידי

(BGU) Vinnikov Victor

תקציר: I will discuss a free noncommutative analogue of the classical Christoffel–Darboux kernel reproducing the space of polynomials of degree n on a positive definite $n \times n$ matrix. Using generators, we show that despite the fact that the Christoffel–Darboux kernel is extremal in the space of solutions to the classical case, the noncommutative analogue introduced by Siciak is extremal in the space of solutions to the noncommutative case. The study of the asymptotic behaviour of the kernel as $n \rightarrow \infty$ will be discussed.

The talk is based on joint work with Victor Magron and Belinschi Serban.