

Department of Mathematics, BGU

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## Operator Algebras Seminar

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*On Monday, July 6 2026*

*At 11:00 – 12:00*

*In 101-*

Itzhak Calvente (BGU)

will talk about

### **Reproducing kernel Krein spaces of non-commutative functions**

Abstract: Laurent Schwartz showed that a hermitian kernel  $K$  is the difference of two positive kernels iff it has an associated reproducing kernel Krein space of functions. We generalize this equivalence to the free non-commutative setting of nc functions/kernels, with possible application to the locally bounded (equivalently, uniformly nc analytic) case (generalizing a result of Alpay in the classical commutative setting).

**Please Note the Unusual Place!**