Department of Mathematics, BGU

Operator Algebras Seminar

On *Wednesday, December ,24 2025*

At *13:00 – 14:00*

In *201*

James Pascoe (Drexel U)

will talk about

Constrained sphere packing and the interpolation problem for positive definite functions

Abstract: Delsarte's method provides a framework for analysis of sphere packing problems in terms of positive definite functions. Constrained packing, where only a prespecfiied set of angles between points may occur, is, in turn, naturally governed by the interpolation theory for positive definite functions. In this talk, we discuss the general theory of positive definite functions on the sphere, Delsarte's method and its geometric kernel embedding interpretation, related interpolation problems, and other topics.

Based on joining work with Sujit Sakharam Damase.