

# Probabilistic Operator Algebra Seminar

Organizer: Dan-Virgil Voiculescu

November 28    **Martijn Caspers**, TU Delft

Title: *On the Akemann-Ostrand property for  $q$ -Gaussian von Neumann algebras.*

The Akemann-Ostrand property (AO) is a certain weakening of amenability of a von Neumann algebra which has important applications in deformation-rigidity theory. We study this property AO for  $q$ -Gaussian von Neumann algebras  $M_q(H)$  where  $H$  is a Hilbert space and  $-1 < q < 1$ . We show that if  $H$  is infinite-dimensional and  $q$  does not equal 0 then  $M_q(H)$  does not have AO. The talk is based on two short preprints, one of which is joint work with Matthis Borst, Mario Klisse, Mateusz Wasilewski.