

*Department of Mathematics,
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Math 243 - Functional Analysis Seminar

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On generators of q -Gaussian algebras

Abstract:

For each $-1 < q < 1$, Bozejko and Speicher's q -Gaussian functor is a natural and important generalization of Voiculescu's free Gaussian functor. We study a class of subalgebras of the corresponding q -Gaussian von Neumann subalgebras. We construct a Riesz basis in the spirit of Radulescu in the q -Fock space. Then we use this basis and follow Popa's approach to show that when $|q| < 1/9$, the generator subalgebras are maximal amenable inside those q -Gaussian algebras. This is joint work with Sandeepan Parekh and Koichi Shimada.

Host: Adrian Ioana

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