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ABSTRACT

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A dual and a conjugate system for q-Gaussians for all q

Abstract: I will report some new results concerning the q-Gaussian operators and their von Neumann algebras; this is based on my recent joint work [1] with Akihiro Miyagawa. The interesting issue is that we can prove quite a few properties of the q-Gaussian operators in a uniform way for all q in the open interval $-1 < q < 1$.

[1] https://arxiv.org/pdf/2203.00547.pdf