

## AN ALGEBRA OF INTEGRAL OPERATORS\*

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**Abstract.** We introduce an algebra of integral operators related to a model of the  $q$ -harmonic oscillator and investigate some of its properties.

**Key words.** integral operators, divided difference operators, the continuous  $q$ -Hermite polynomials, generating functions, Poisson kernel, bilinear generating functions,  $q$ -harmonic oscillators

**AMS subject classifications.** 33D45, 42C10, 45E10

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