

[Albeverio, Sergio](#); [Khrennikov, Andrei](#)

**Representations of the Weyl group in spaces of square integrable functions with respect to  $p$ -adic valued Gaussian distributions.** (English) [Zbl 0903.46073](#)

*J. Phys. A, Math. Gen.* 29, No. 17, 5515-5527 (1996).

**MSC:**

**46S10** Functional analysis over fields other than  $\mathbb{R}$  or  $\mathbb{C}$  or the quaternions; non-Archimedean functional analysis

**81S05** Commutation relations and statistics as related to quantum mechanics (general)

**46N50** Applications of functional analysis in quantum physics

**47N50** Applications of operator theory in the physical sciences

**81R05** Finite-dimensional groups and algebras motivated by physics and their representations

Cited in **2** Reviews  
Cited in **20** Documents

**Keywords:**

$p$ -adic Hilbert space of functions; Weyl-Heisenberg group; operator quantization over  $p$ -adic numbers

**Full Text:** [DOI](#)