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Review text:

Harmonic-oscillator Hamiltonian in p-representation (cf. Eq. (3.1) for details) is considered after one of the simplest deformations of the Heisenberg algebra (cf. (2.2)) yielding one of the most elementary nontrivial forms (2.5) of the operator of the coordinate. The eigenvalue problem is then found solvable in terms of truncated hypergeometric series (3.17). In the zero-deformation limit, the energies (cf. (3.21)) degenerate to the well known ones.