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Reviewer: Znojil, Miloslav

Reviewer number:

Address:
NPI ASCR Rez,
250 68 Czech Republic
znojil@ujf.cas.cz

Author: Bagarello, F.

Short title: Two-parameters pseudo-bosons.

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Review text:

In a recent (and still growing) series of papers the author generalized the concept of the bosonic number operator in such a manner that the underlying generalized creation and annihilation operators are not mutually adjoint while the underlying eigenvectors may still form a biorthogonal basis in a suitable Hilbert space. He calls the resulting quantum dynamics "pseudo-bosonic" and, in the present continuation of the series, he studies a two-parametric toy model, pointing out some of its interesting and unusual properties including the observation that the biorthogonal basis in question is an "irregular", unbounded-operator map of an orthonormal basis.