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Reviewer: Znojil, Miloslav

Reviewer number:

Address:

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

Author: Chithiika Ruby, V.; Senthilvelan, M.

Short title: On the generalized intelligent states and certain related nonclassical states of a quantum exactly solvable nonlinear oscillator.

MR Number: 2726697

Primary classification: 81Q80

Secondary classification(s): 81Q60 81V80

Review text:

In the present “publish-and-receive-support” world it is not too surprising that the more or less elementary, SUSY-related harmonic-oscillator-image potential (1) (cf. also my one-month-old review MR2735228) attracts attention (one would even like to say disproportionate attention) immediately after its serendipitous discovery (see Ref. [1]) and after its subsequent Darboux-mediated “return home” (cf. Ref. [2]). The study under review offers a characteristic example of an exhaustive and very professional fructification of such a topic. Making the ample use of the hidden correspondence the authors retell us the story of the linear harmonic oscillator (in multifaceted applications) in an innovative, very systematic, careful and exhaustive manner.