This is a review text file submitted electronically to MR.

Reviewer: Znojil, Miloslav

Reviewer number:

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

Author: Ramos, Arturo

Short title: On the new translational shape-invariant potentials.

MR Number: 2823437

Primary classification: 81Q60

Secondary classification(s): 81Q05

Review text:

A guide to the reading of the 8 pages of this "Fast Track Communication" (with 7 self-citations but, still, with not enough relevant references) lies in the "Note added in proof" where C. Quesne is acknowledged. She pointed out the existence of papers [24, 25] which offered certain very closely related results two years earlier. Hence, the present reviewer's recommendation is that the potential readers should complement (or even replace) their reading of the very routine first four pages of the text under review (introducing just relation (22) which is taken from the Quesne's 2008 pioneering paper [9] and which is just further analyzed via examples in the second half of the paper) by their reading of paper [9] itself. This will reward them by a proper understanding of the message. Especially if the study were further complemented by the inspiring discovery (see D. Gomez-Ullate, N. Kamran and R. Milson, J. Math. Anal. Appl. 359 (2009) 352-367) of the underlying X_1-Jacobi and X_1-Laguerre polynomials. Precisely this offers the extension (rather than "deformation") of the class of classical orthogonal polynomials as mentioned in the Abstract of the text under review.