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Reviewer: Znojil, Miloslav

Reviewer number:

Address:

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

Author: Qiang, Wen-Chao; Li, Kai; Chen, Wen-Li

Short title: New bound and scattering state solutions of the Manning-Rosen potential with the centrifugal term.

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Primary classification: 81Q05

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Review text:

An enthusiastic report on an N plus first rediscovery of the very old and very elementary idea of an approximative simulation of the presence of a centrifugal term in Schroedinger equation by means of an ad hoc modification of parameters in some exactly solvable potential (cf., e.g., an extensive account of this trick in S. Fluegge, Practical Quantum Mechanics I, Springer, Berlin, 1971, pp. 186 - 1890 where also a reference to the author's 1967 paper is also provided).