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Author: Bayrak, O.; Boztosun, I.

Short title: The pseudospin symmetric solution of the Morse potential for any κ state.

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Primary classification: 81Q05

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Review text:

After the choice of the Morse (i.e., solvable) potential, the Dirac's radial equation (in a specific form reducible to the single Schroedinger-type equation) is considered in its approximate version (due to Pekeris, from 1934). Then it is solved numerically, using the iterative method of ref. [16]. The available results of ref. [12] are reproduced and their minor error is detected and corrected.