A Note on Unification of Translational Shape Invariant Potential and Scaling Shape Invariant Potential

HUANG Bo-Wen,[1] GU Zhi-Yu,[1] and QIAN Shang-Wu[2]

[1] Physics Department, Capital Normal University, Beijing 100037, China
[2] Physics Department, Peking University, Beijing 100871, China

Abstract: This article puts forward a general shape invariant potential, which includes the translational shape invariant potential and scaling shape invariant potential as two particular cases, and derives the set of linear differential equations for obtaining general solutions of the generalized shape invariance condition.

[Full text: PDF]

Close