

This is a review submitted to Mathematical Reviews/MathSciNet.

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Title: Dirac equation under scalar, vector, and tensor Cornell interactions.

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Primary classification: 34A05

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Review text:

Routinely, the Dirac equation is decoupled into two alternative ordinary linear differential Schrödinger-like equations (viz., eqs. (2.8) and (2.10)). The first few simplest forms of the invasive “quasi-exact” (i.e., exponential times polynomial) ansatz for a single, exceptional bound-state wave function are then inserted yielding the first few simplest forms of the necessary algebraic consistency restrictions imposed upon the parameters.