



Spherically Symmetric Approximation (and beyond) in Relativistic Schroedinger Theory

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The energy eigenvalue problem of non-relativistic positronium is considered within the framework of Relativistic Schroedinger Theory (RST), and the results are compared to those of the conventional quantum theory. For the range of principal quantum number $n = 2; 3; \dots; 30$, the RST predictions for the non-relativistic positronium energies deviate now from the corresponding predictions of the conventional quantum theory at an average of (roughly) 3%. These results suggest that the deviations will be further diminished in the higher orders of approximation.

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