

Blog Entry © Wednesday, November 6, 2024, by James Pate Williams, Jr. Particle in a Finite Spherical Three-Dimensional Potential Well

Based on the textbook example in ***Quantum Mechanics Third Edition*** by Leonard I. Schiff © 1968, I programmed a C++ application to draw solutions of the Schrödinger equation for both the interior and exterior of the potential energy well. These solutions involved spherical Bessel functions of the first and third kinds.

Get Data Dialog - Finite Three-Dimensional Square Well Potential

Width of Well (a)


Depth of Well (V0)

Angular Momentum (l)

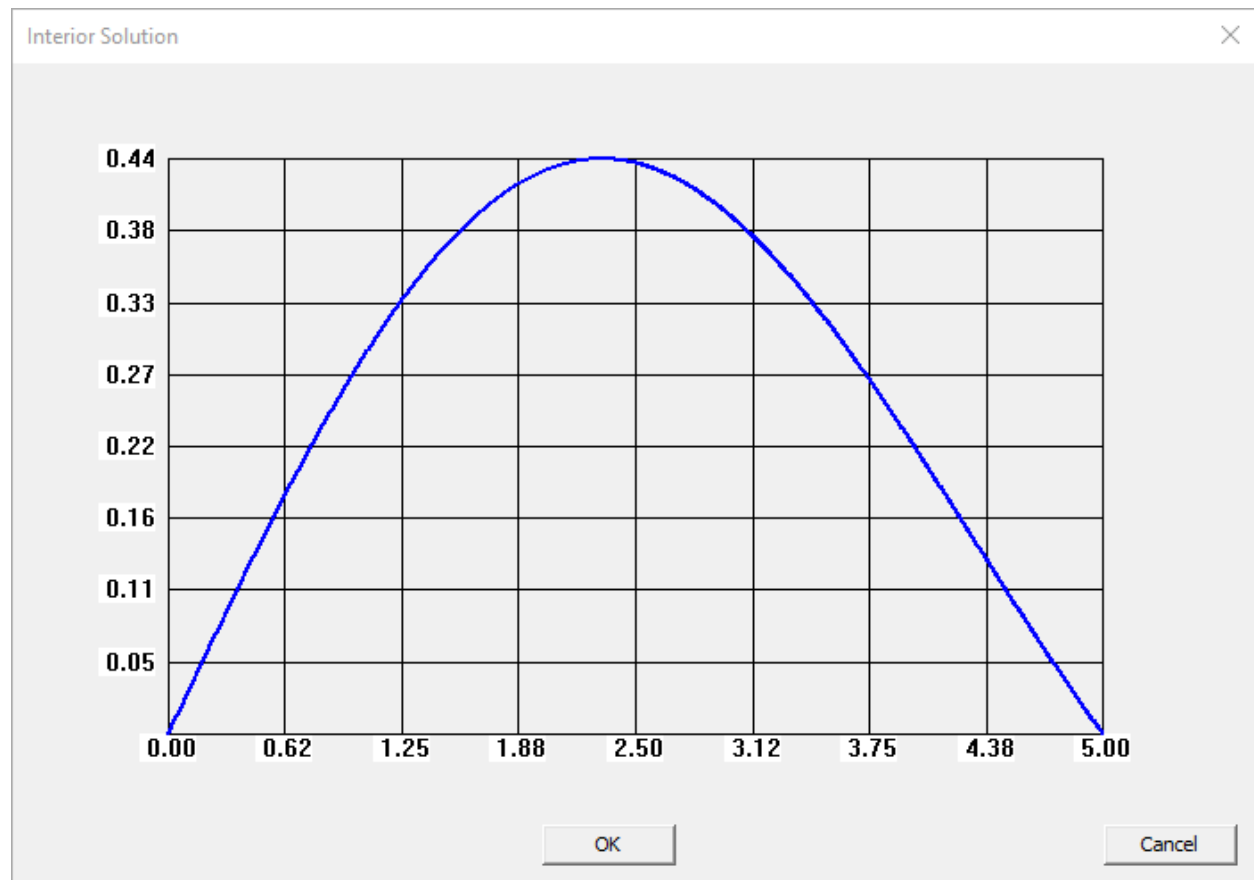
All inputs are non-negative integers l must ≥ 1

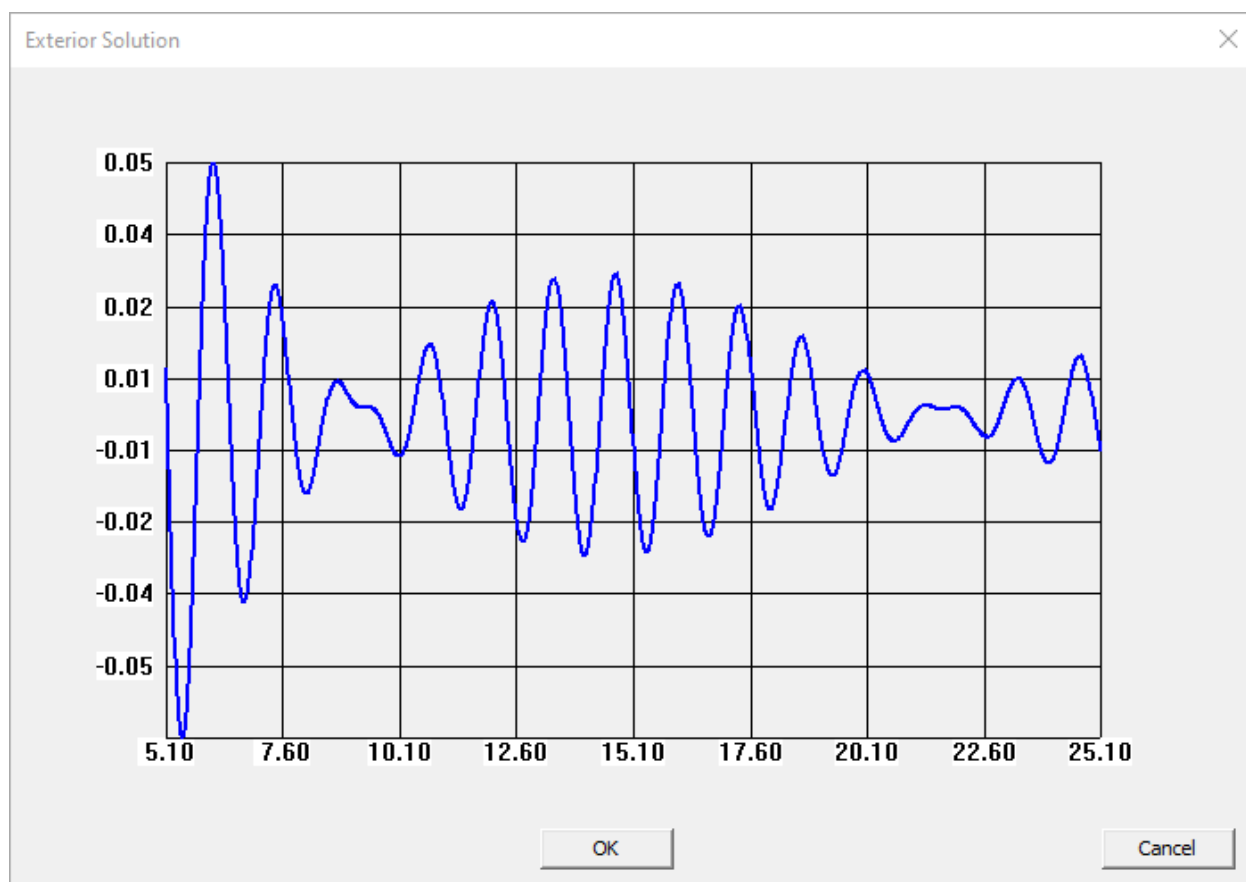
OK Cancel

Energy Level

 -30.190729

OK





Get Data Dialog - Finite Three-Dimensional Square Well Potential

Width of Well (a)

Depth of Well (V_0)

Angular Momentum (l)

All inputs are non-negative integers l must ≥ 1

OK Cancel

