

**Analytic Solution of the Schrödinger Equation for the  
Coulomb-plus-Linear Potential: I. The Wave Functions**

Guillaume Plante and Adel F. Antippa

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**Abstract**

We solve the Schrödinger equation for a quark-antiquark system interacting via a Coulomb-plus-linear potential, and obtain the wave functions as power series, with their coefficients given in terms of the combinatorics functions.