

# Path Integral Solution of a Singular Oscillator Potential

*S. Bekhouche and B. Bentag*

Laboratoire Physique Mathématique et Subatomique, University of Constantine  
(Algeria) Département de Physique, Faculté des Sciences Exactes,  
Université Frères Mentouri Constantine  
e-mail : [bekhouche-soumia@hotmail.fr](mailto:bekhouche-soumia@hotmail.fr), [bayabentag@gmail.com](mailto:bayabentag@gmail.com).

## **Abstract**

By path integral formulation and delta functional technics we calculated the propagator of singular oscillator. We have found the discrete spectrum and the corresponding wave functions.

**Keywords:** Path integral, non-central potential, propagator, bound states, energy spectrum, wave functions..