

Generalised Wigner–Dunkl harmonic oscillator

Prof. Hassan Hassanabadi
Departamento de Física Teórica (UVa)

Abstract: After a review on the Dunkl operator and introducing some properties we introduce the generalized Dunkl operator and then we investigate the harmonic oscillator in the presence of the Generalised-Wigner–Dunkl formalism based on creation and annihilation operators, which also include the reflection operator. We provide explicit results on the spectral properties of the Hamiltonian and an explicit form of the quantum propagator.



17:00

May 15, 2025

Seminario B118, Fac. Ciencias



**Financiado por
la Unión Europea**
NextGenerationEU



**Plan de Recuperación,
Transformación
y Resiliencia**

**NOS
IMPULSA**


**Junta de
Castilla y León**