Seminar Title

"Calogero Type Bounds in Two Dimensions."

Speaker: Prof. Ari Laptev (Imperial College, London)

Date/Time: Monday November 28, 2022

4:00 PM - 5:00 PM

Abstract

For a Schrödinger operator on the plane with electric potential and Aharonov--Bohm magnetic field we obtain an upper bound on the number of its negative eigenvalues. Similar to Calogero's bound in one dimension, the result is true under monotonicity assumptions on electric potential. Our proof method relies on a generalisation of Calogero's bound to operator-valued potentials.