

Thursday, May 30th, 12:00-13:00

Seminar Room at the Mathematics Department of UPV/EHU

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STRONG UNIQUE CONTINUATION FOR HIGHER ORDER FRACTIONAL SCHRÖDINGER EQUATIONS

In this talk I will show the strong unique continuation property for solutions of higher order fractional Schrödinger operators, including the case of variable coefficients and the presence of Hardy type gradient potentials. The proof relies on a generalised Caffarelli-Silvestre extension for the higher order fractional Laplacian and on Carleman estimates. I will also discuss applications of the unique continuation results in the context of nonlocal Calderón problems. This is a joint work with Angkana Rüland.