

Thursday, November 22nd, 14:00

Room 0.26 of the Mathematics Department at UPV/EHU (Leioa campus)

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THE SCHRÖDINGER EQUATION ON A TREE

In this talk we consider the Schrödinger equation on a tree with the last generation formed by infinite edges. More precisely we have an equation on each edge and coupling conditions at the vertices. We study the dispersion property of the linear semigroup and analyze the well-posedness of the nonlinear Schrödinger equation in L^2 as well as in the energy space.

Joint work with Andreea Grecu.