Renato LUCA (BCAM Bilbao, Spain)

Titolo: Phase blow up for the cubic NLS and connections with the binormal flow.

Abstract: In this talk, we will discuss a suitable family of borderline regularity solutions of the 1d cubic Schrodinger equation exhibiting a phase blow-up. We will also discuss the connection between these solutions and the evolution of curves under the binormal curvature equation. This is a joint work with V. Banica, N. Tzvetkov and L. Vega.