

## SEMINARIO EDP

**Expositor: Jacek Jendrej, LAGA, Université Paris 13**

**Title:**

**Strongly interacting kink-antikink pairs for scalar fields on a line**

**Abstract:**

I will present a recent joint work with Michał Kowalczyk and Andrew Lawrie. A nonlinear wave equation with a double-well potential in 1+1 dimension admits stationary solutions called kinks and antikinks, which are minimal energy solutions connecting the two minima of the potential. We study solutions whose energy is equal to twice the energy of a kink, which is the threshold energy for a formation of a kink-antikink pair. We prove that, up to translations in space and time, there is exactly one kink-antikink pair having this threshold energy. I will explain the main ingredients of the proof.

Miércoles 20 de Noviembre a las 15:00 hrs, Sala de Seminario Felipe Álvarez Daziano, 5to piso, Torre Norte de Beauchef 851.