Some recent results about an equation of wave turbulence.

Miguel Escobedo[*1]

[1]Univesrity of the Basque Country (UPV/EHU) – Spain

Abstract

A very brief introduction will be given to the kinetic equations of the so called wave turbulence, and the relation of some of them with the interaction of ocean waves and atmosphere. Then some recent mathematical results will be presented for the wave turbulence equation related with the nonlinear 3D Schrödinger equation. The existence of different kinds of solutions will be discussed as well as their possible blow up and formation of a Dirac measure in finite time.

[*]Speaker