

Thursday, November 21<sup>st</sup>, 12.00-13.00  
Seminar Room at the Mathematics Department of UPV/EHU

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## SOME RESULTS ON THE WEAK TURBULENCE THEORY FOR THE 3D NLS.

The wave turbulence theory will be very briefly described, as a theory of non-equilibrium statistical mechanics for nonlinear wave and dispersive systems. The case of the waves weakly interacting via the 3D nonlinear Schrödinger equation will then be considered in detail. Several results about the existence, non uniqueness and asymptotic behavior of the solutions to the Cauchy problem for the corresponding wave kinetic equation will be presented.