

Constructing Gibbs measures for the 1D nonlinear Schrödinger equation

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Abstract

We give an overview of Gibbs measures for the one dimensional nonlinear Schrödinger equation (NLS). In the first part of the talk, we discuss some of the properties of the NLS and its deterministic well-posed theory. In the second part, we summarise the construction of Gibbs measures given in Jean Bourgain's paper "Periodic Nonlinear Schrödinger Equation and Invariant Measures."

Time: 12 noon – 1 p.m., 30th June 2021

Location: W.O.M.P.S. (M.S. Teams)

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Website: <https://warwick.ac.uk/fac/sci/math/research/events/seminars/areas/postgraduate/20-21>