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Andrea R. Nahmod* (nahmod@math.umass.edu), Department of Mathematics, University of Massachusetts Amherst, 710 N. Pleasant St., Amherst, MA 01003. *Almost sure GWP, Gibbs measures and gauge transformations.*

In this talk we will describe recent results establishing the invariance of the Gibbs measure associated to the periodic derivative NLS and the global well posedness of solutions to the Cauchy initial value problem with data living in its support. (Received January 21, 2011)