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Gibbs' measure and almost sure global well-posedness for one dimensional periodic fractional Schrödinger equation.

In this talk we will present recent local and global well-posedness results on the one dimensional periodic fractional Schrödinger equation. We will also talk about construction of Gibbs' measures on certain Sobolev spaces and how we can prove almost sure global well-posedness using this construction. (Received September 15, 2014)