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Yu Deng, Andrea Nahmod and **Haitian Yue*** (haitiany@usc.edu). *Random tensors, propagation of randomness, and nonlinear Schrödinger equations.*

In this talk, we will discuss recent developments on the propagation of randomness, in the setting of random data problems for nonlinear Schrödinger equations. In particular, I will present a new framework called the theory of random tensors that proves almost-sure local well-posedness in the optimal ("probabilistic subcritical") range of regularity. This is work with Yu Deng (USC) and Andrea Nahmod (UMass Amherst). (Received September 15, 2020)