Exact solutions in Burgers turbulence and the equation free method
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My primary purpose in this talk is to advertise a set of exact solutions to PDE with random data that serve as nontrivial examples to benchmark numerical schemes for complex stochastic systems. The examples I will present include a set of exact solutions to Burgers equation with random data and their application to the ""equation free"" method developed by Yannis Kevrekidis and his co-workers.

This is joint work with I. Kevrekidis (Princeton), X. Li (UNC, Charlotte), and M. Williams (UTRC).