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### **Randomly forced nonlinear PDEs and statistical**

Coupling approach to white-forced nonlinear PDEs Sergei Kuksin<sup>1,2</sup>, Armen Shirikyan Received 11 March 2002; accepted 18 March 2002 Abstract We consider the 2D Navier-Stokes system, perturbed by a white in time random force, such that sufficiently many of its Fourier modes are excited (e.g., all of them are). It is proved that the system

### **Coupling approach to white-forced nonlinear PDEs - CORE**

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A Coupling Approach to Randomly Forced Nonlinear PDEs<sup>1,2</sup>. I Sergei Kuksin<sup>1,2</sup>, ... Randomly Forced Nonlinear PDEs<sup>1,2</sup> 353 ... a form of coupling applies directly to infinite-dimensional Markov chains and randomly forced PDEs<sup>1,2</sup>. When a preprint of this paper was sent around, we learned from L.-S. Young that ...

### **A Coupling Approach to Randomly Forced Nonlinear PDEs<sup>1,2</sup>. I**

Solution of Stochastic Nonlinear PDEs Using Wiener-Hermite Expansion of High Orders ... random media, randomly forced Burgers<sup>1,2</sup> and Navier-Stokes equations, Materials science, Chemistry, Biology, ... un is the nonlinear term, Many applications contain nonlinear terms in this

### **Solution of Stochastic Nonlinear PDEs Using Wiener-Hermite**

On Exponential Convergence to a Stationary Measure ... tive nonlinear PDEs perturbed by a bounded

random kick-force, we propose a direct proof" of the uniqueness of the stationary measure and exponential ...  
domly forced nonlinear PDEs and obtained for them similar results; see [EH01]. In [KS01a, KPS01] the  
author of this paper and his ...

### **On Exponential Convergence to a Stationary Measure for**

It is proved that the system has a unique stationary measure and that all solutions exponentially fast  
converge in distribution to this measure. The proof is based on the same ideas as in our previous works on  
equations perturbed by random kicks. It applies to a large class of randomly forced PDEs with linear  
dissipation.

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