

Numerics of the stochastic Navier-Stokes equation

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The numerical analysis of the incompressible Navier-Stokes equation is well-developed to construct ample convergent discretizations. In the talk, I discuss convergent space-time discretizations for the stochastic version of the Navier-Stokes equation, and motivate possible failure of numerical methods which are efficient in the deterministic setting (such as time-splitting methods, or LLB-stable discretizations).