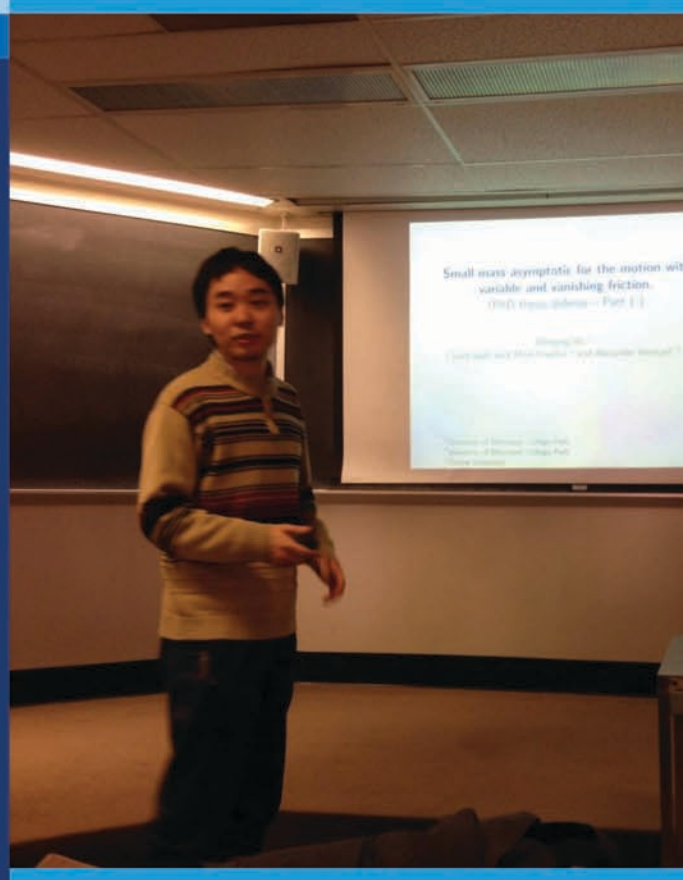
北京大學
PEKING UNIVERSITY

School of Mathematical Sciences
Center for Statistical Science

Lectures on Stochastic Fluid Mechanics



Dr. Wenqing Hu will give a short course about stochastic fluid mechanics and the following topics will be covered: basic existence and uniqueness results for deterministic and stochastic 2–d and 3–d Navier–Stokes equations; existence and uniqueness of invariant measures for 2–d hydrodynamical systems subject to degenerate random forcing; inviscid limit and related problems in turbulence; the 2–d deterministic and stochastic Euler equations and related problems; motion of incompressible ideal fluids from group theoretic and Hamiltonian dynamical point of view.

Dr. Hu currently is a postdoc at the School of Mathematics, University of Minnesota, Twin Cities, working under the supervision of Professor Vladimir Sverak. Dr. Hu completed a Ph.D. in Mathematics at the Department of mathematics, University of Maryland, College Park, under the supervision of Professor Mark Freidlin.

Schedule:

Lecture 1:	**7.9**	**(Thu)**	**8:30-10:30 a.m.**
Lecture 2:	**7.10**	**(Fri)**	**8:30-10:30 a.m.**
Lecture 3:	**7.13**	**(Mon)**	**8:30-10:30 a.m.**
Lecture 4:	**7.15**	**(Wed)**	**8:30-10:30 a.m.**
Lecture 5:	**7.17**	**(Fri)**	**8:30-11:30 a.m.**

Venue:

Room 1114, No.1 Science Building, Peking University

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