Random Attractors for Nonautonomous Damped Stochastic Wave Equations

Abstract: In this talk, we will first present a recent result on the existence of pullback random attractor for nonautonomous stochastic wave equations with nonlinear damping and multiplicative noise on unbounded domain, including briefly the key uniform estimates, and the averaging of rapid oscillation with the convergence to the limiting attractor. Then we shall talk about the random attractor for damped stochastic wave equations with additive noise and critical exponent on unbounded domain, whose asymptotic compactness proof involves a Vitali-type convergence criterion.

Short Bio: Dr. Yuncheng You received his Ph.D. in Mathematics from the University of Minnesota in 1988. He was a research assistant professor in Purdue University and then joined the University of South Florida as an assistant professor in 1990, then associate professor in 1993, and full professor in 1996. Dr. You’s research interests include partial differential equations, infinite-dimensional dynamical systems, stochastic differential equations and random dynamics, mathematical biology, mathematics of finance, and interdisciplinary data science. He has published numerous research papers and co-authored the book *Dynamics of Evolutionary Equations* by Springer.

Refreshments before the talk and socializing following the talk
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