

1172-39-150

**Meiyu Sui, Yejuan Wang, Peter E Kloeden and Xiaoying Han\*** (xzh0003@auburn.edu),  
221 Parker Hall, Department of Mathematics and Statistics, Auburn, AL 36849. *A lattice model  
for random neural networks with delays.*

In this talk we will introduce an infinite lattice model of recurrent neural networks with random connection weights among neurons and delays in activation. The lattice model will be formulated as a random function differential equation on a space of infinite sequences. Existence of random pullback attractor, as well as existence of extremal random complete trajectories will be discussed. (Received August 24, 2021)