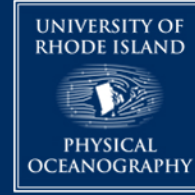
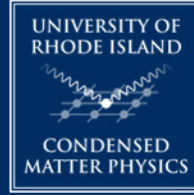
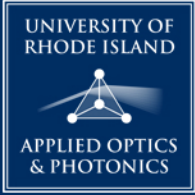


THE UNIVERSITY OF RHODE ISLAND

DEPARTMENT OF PHYSICS



You are invited to join us for a talk as part of our semester colloquium series

Presenter: Dr. Michael Pürrer

Date & Time: Friday November 1, 2024
4:00 - 4:50 PM

Location: East Hall Room 112

Title: Machine Learning With Artificial Neural Networks

Abstract:

The Nobel Prize in Physics 2024 was awarded to John J. Hopfield and Geoffrey E. Hinton for foundational contributions enabling artificial neural networks in machine learning. I will give a high level summary of Hopfield networks which model associative memory, as well as Boltzmann machines, a stochastic extension of Hopfield networks, and their connections to statistical physics. Lastly, I will highlight how we use deep learning techniques in the physics department for rapid and reliable Bayesian inference in gravitational wave astronomy.



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