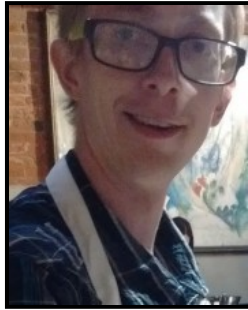




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Machine Learning for Quantum Systems**Samuel Kellar, Louisiana State University**

Graduate Student

Digital Media Center 1008B
May 28, 2019 - 03:30 pm**Abstract:**

The Soft Gap Anderson model, with a hybridization function proportional to ω^r , serves as a simple test for machine learning. A combination of supervised and unsupervised methods learn directly on the Hirsch Fye Quantum Monte Carlo decoupled fields and separate the into two phases near the predicted value of $r=0.5$

Speaker's Bio:

Samuel Kellar Graduated with a Bachelor of Science in Physics from Brigham Young University. As a graduate student he uses a dynamical cluster approximation to study the Hubbard model in 3 dimensions. He worked with the Stellar at the Center for Computation & Technology in improving efficiency of highly parallel quantum calculations.

