



The NSF AI Institute for
Artificial Intelligence and Fundamental Interactions



IAIFI-AIMLAC Workshop Day 3

10:00-11:30 am (Kolker Room, 26-414)

Flash Talks (3-5 minutes)

- Ben Winter (Bangor) – Using Grammatical Evolution to create loss functions
- Iwan Mitchell (Bangor) – Optimising CT scanners with Virtual Simulations and Neural Networks
- Peter Lu (MIT) - Discovering Conservation Laws via Manifold Learning
- Matt Selwood (Bristol) – Consistent Analysis of Type 2 AGN Optical Spectra
- Jack Furby (Cardiff) – Explainable Concept Bottleneck Models using LRP
- Sam Kim (MIT) - Deep Learning for Bayesian Optimization of High-Dimensional Problems in Science
- Sam Wincott (Cardiff) – Communication for exploration in deep reinforcement learning
- Rumen Dangovski (MIT) - Equivariant Contrastive Learning

2:00-3:00 pm (Kolker Room, 26-414)

IAIFI Colloquium: Giuseppe Carleo, Assistant Professor, Computational Quantum Science Laboratory, École Polytechnique

Neural-Network Quantum States: new computational possibilities at the boundaries of the many-body problem

3:00-4:00 pm (IAIFI Penthouse, 26-648)

Reception with refreshments