

2024 UNIVERSITY RESEARCH SYMPOSIUM April 13, 2024 DEPARTMENT OF PHYSICS ORAL PRESENTATIONS



(D7) Moulton Hall: Department of Physics Oral Presentations 9:30 a.m. - 11:00 a.m. Room 309

DEPARTMENT OF PHYSICS

Oral Presentations (April 13, 2024) Moulton Hall 309

Faculty mentors: Dr. N. Christensen, Dr. A. Harris, Dr. R. Grobe, and Dr. Q. Su

9:30-9:45 Brendan Czajka

INHERITED LEARNING NEURAL NETWORK FOR QUANTUM FIELD THEORY

9:45-10:00 Eyan James

EFFICIENT DETERMINATION OF DIRAC SEA STATES

10:00-10:15 Chris Achammer

SOLVING DIFFERENTIAL EQUATIONS WITH NEURAL NETWORKS

10:15-10:30 James Aygun

EFFECTS OF SPECTRAL PHASE PULSE SHAPING ON ATTOSECOND PROCESSES

10:30-10:45 Gabe Minney

COMPUTING 5-POINT CONSTRUCTIVE AMPLITUDES

10:45-11:00 Chris Achammer

MINIMA HOPING FOR REDUNDANTLY LARGE NEURAL NETWORKS