

Department of Physics

Diploma Ceremony

Sunday, May 12, 2019
Love Auditorium & Hall of Science



PROGRAM

12:00 Lunch

1:00 Welcome Address

Professor Steffen A. Bass, Chair
Department of Physics

1:15 Presentation of Diplomas for Degrees in Physics

Professor John Mercer
Associate Director
Undergraduate Studies
Department of Physics

Professor Kate Scholberg
Director
Undergraduate Studies
Department of Physics

Professor Stephen Teitsworth
Director
Graduate Studies
Department of Physics

FIRST MAJORS IN BIOPHYSICS

Oyeyemi Lizabeth Kolawole
Yash Nigam
Andra Marija Rudzite

Aaron Daniel Therien
David Wang ❖❖ΣΠΣ

FIRST MAJORS IN PHYSICS

John Franklin Crenshaw ❖❖ΣΠΣ
Malik Muhammad Sikandar Hanif
Valentin Daniel Merrill Hollard
Stuart Jinwoo Ki ΣΠΣ
Ari David Meza

Faris Sbahi ❖ΣΠΣ
James Allen Shackford ΣΠΣ
Adiva Subodh Shah
William Allen Willis III
Nikita Alekseyevich Zemlevskiy ❖❖ΣΠΣ

MINORS IN PHYSICS

Jacob Harris Graber-Lipperman
Elliot Lin

Christian Patrick Tanner
Thomas Aaron Van Bibber

MASTERS OF ARTS IN PHYSICS

Hunter Alexander Fisher
Emily LaFrance Phillips Longley

Kevin S. Holway
Forrest Quinn Lister Friesen

DOCTOR OF PHILOSOPHY IN PHYSICS

Summer 2018

Dr. Margaret Eileen Shea
Dr. Ming-Tso Wei
Dr. Gu Zhang
Dr. Yue Zhang

Spring 2019

Dr. Aghil Abed Zadeh
Dr. John Scott Moreland
Dr. Matthew Berg Epland

- ❖ Graduation with Distinction – Requires a significant thesis with originality and thesis defense.
- ❖❖ Graduation with High Distinction – Highest Honor in Physics. Requires a thesis comparable to papers in peer reviewed journals and unanimous support from thesis committee members.

ΣΠΣ Physics Honor Society

ΦBK Phi Beta Kappa

GRADUATION WITH DISTINCTION IN PHYSICS

John Franklin Crenshaw: Graduation with High Distinction [Advisor: Kate Scholberg] – *Sensitivity of The Helium and Lead Observatory to Core-Collapse Supernova Neutrino Bursts*

Faris Sbahi: [Advisor: Iman Marvian] – *Supervised Learning In Quantum-Enhanced Feature Spaces*

David Wang: Graduation with High Distinction [Advisor: Piotr Marszalek] – *Using Force Spectroscopy Based Models to Examine the Effect of Force Field Differences on Protein Refolding*

Nikita Alekseyevich Zemleyskiy: Graduation with High Distinction [Advisor: Ken Brown] – *Sympathetic Sideband Cooling and Trapping of Ions*

DOCTOR OF PHILOSOPHY DISSERTATION IN PHYSICS

Aghil Abed Zadeh : [Advisor: Robert Behringer and Joshua Socolar] – *Crackling Noise in a Granular Stick-Slip Experiment*

Matthew Berg Epland: [Advisor: Ayana Arce] – *A Search of Supersymmetry in Multi-b Jet Events with the ATLAS Detector*

John Scott Moreland: [Advisor: Steffen Bass] – *Initial Conditions of Bulk Matter in Ultrarelativistic Nuclear Conditions*

Margaret Eileen Shea: [Advisor: Daniel Gauthier] – *Fast Nondestructive Quantum State Readout of a Single, Trapped, Neutral Atom*

Ming-Tso Wei: [Advisor: Gleb Finkelstein] – *Transport Mechanisms of Quantum Hall Supercurrents in Graphene Josephson Junctions*

Gu Zhang: [Advisor: Harold Baranger] – *Studies on the Effect of Noise in Boundary Quantum Phase Transitions*

Yue Zhang: [Advisor: Robert Behringer and Joshua Socolar] – *Pull-Out Experiment in Granular Material*