

Autumn 2023
Directed Reading Program
Student Talks

Thursday November 30, 5:30 – 7:30pm

Friday December 1, 5:30 – 7:30pm

Saturday December 2, 1:30 – 3:30pm

The Ohio State University, Columbus, Ohio

Thursday, November 30, 2023

The Theory of Special Relativity

Andrew Clark
(Mentor: Zach Davis)

Combinatorics and the Catalan Numbers

Luc Azen
(Mentor: Caleb Dilsavor)

The 4-Color Theorem

Jiaming Cheng
(Mentor: Chloe Ireland)

An Introduction to Stochastic Processes

Thomas Thackston
(Mentor: Jake Huryn)

TBA

Felix Janow
(Mentor: Tianyu Zhao)

TBA

Adam Coon
(Mentor: Tianyu Zhao)

Friday, December 1, 2023

Tychonoff's Theorem

Jeremy Case
(Mentor: Linus Ge)

Mathematics from a Pedagogical Standpoint

Neila Sarkis
(Mentor: Brett Hungar)

Functorial Algebraic Geometry

Wo Wu
(Mentor: Luke Wiljanen)

The Hydrogen Atom and Representation Theory

Steven Speck
(Mentor: David Green)

A Method of Proofs based on Markov's Inequality and the Moment Generating Function

Yicheng Lin
(Mentor: Hao Xing)

Saturday, December 2, 2023

The Baire Category Theorem and Elementary Analysis

Eric Chen

(Mentor: Adam Christopherson)

Visual Beauty and Chip-Firing

Cherish Brumley

(Mentor: Kyle Binder)

Probability, Concentrations, and Programming

Avery Stevens

(Mentor: Wenyan Luo)

TBA

Ziang Hu

(Mentor: Mehmet Basaran)

TBA

Yiheng Fang

(Mentor: Mehmet Basaran)

TBA

Ketul Patel

(Mentor: Michael Tychonievich)

Directed Reading Program Organizing Committee

Ivo Terek
Kyle Binder
Amogh Parab
James Marshall Reber
Stefan Nikoloski
Thomas O'Hare
Brett Hungar

The DRP Committee would like to thank all of the graduate student mentors for their work with their undergraduate students this semester. We would also like to thank the DRP's advisor, Dr.

Dan Thompson, as well as the OSU Math Department for providing funding for this program. Any graduate student who would like to serve on the committee may talk to a current committee member. Any graduate or undergraduate student wishing to participate in the program in the fall may apply by visiting go.osu.edu/drp at the beginning of next semester.