

# Black Holes from Theory to Observations Workshop

## May 11-13, 2026

\*\* all lectures in Wolfensohn Hall unless specified \*\*

(updated: 5/8/26)

	<b>Monday, May 11th</b>	<b>Tuesday, May 12th</b>	<b>Wednesday, May 13th</b>
8:15 am	<b>Registration Opens</b> Wolfensohn Hall		
8:30 am	<b>Coffee Break</b> Rubenstein Commons	<b>Coffee Break</b> Rubenstein Commons	<b>Coffee Break</b> Rubenstein Commons
8:50 am	<b>Welcome and Opening Remarks</b> Wolfensohn Hall		
9:00 am	"The Black Hole Explorer: Tracing an Edge of the Visible Universe" Alex Lupsasca	"The Ultra-Relativistic Limit of Black Hole Collisions" Frans Pretorius	"Nonlinearities, greybody factors and resonances in black hole ringdown" Emanuele Berti
9:45 am	"The Black Hole Explorer: Creating a Mission to Reveal the Photon Ring" Michael Johnson	"(Near-)extremal black holes beyond Einstein-Maxwell theory" Maciej Kolanowski	"Quasinormal ringdown of quantum systems" Matthew Dodelson
10:30 am	<b>Coffee Break</b> Rubenstein Commons	<b>Coffee Break</b> Rubenstein Commons	<b>Coffee Break</b> Rubenstein Commons
11:15 am	"Love Numbers and Waveform Resummation from Black Hole Scattering Amplitudes" Mikhail Ivanov	"The extremal black hole threshold" Ryan Unger	"Modeling black holes after merger" Marina De Amicis
12:00 pm	"Gravitational tidal matching and elliptic curves" Giulia Isabella	"More accurate and complete waveform models for gravitational-wave astrophysics: from theory to observations" Alessandra Buonanno	"Black Holes in Stellar Interiors Across the Mass Spectrum" Matteo Cantiello
1:00 pm	<b>Lunch</b> Simons Hall	<b>Lunch</b> Simons Hall	<b>Lunch</b> Simons Hall
2:15 pm	"Heun-Connection problem: A unified framework for black hole amplitudes" Yilber Fabián Bautista	"Gravitational radiation from hyperbolic orbits: comparison between SF, PM, PN and NR" Niels Warburton	"Black Hole Polarimetry as a Probe of Spin Energy Extraction" Eliot Quartaert
3:00 pm	"Amplitudes for Hawking Radiation" Donal O'Connell	"The astrophysics of binary black holes after a decade of gravitational-wave observations" Sylvia Biscoveanu	"What do horizon-scale observations really tell us about black holes?" George Wong
3:45 pm	<b>Afternoon Tea</b> Rubenstein Commons	<b>Afternoon Tea</b> Rubenstein Commons	<b>Afternoon Tea</b> Rubenstein Commons
4:30 pm	<b>Discussion Time</b>	<b>Discussion Time</b>	<b>End of Workshop/ Discussion Time</b>
6:30 pm	<b>Dinner</b> Rubenstein Commons	<b>Dinner</b> Simons Hall	