

@ 407 Jadwin Hall  
Princeton University

# Workshop on Nonlinear Aspects of General Relativity

Wednesday 11/Oct:

***FLASH! talks***

Thursday 12/Oct:

15:00	<b>Ericka Florio</b> (University of Cambridge) Nonlinear mixing of vacuum tensor modes during inflation
15:05	<b>Sebastian Völkel</b> (AEI Potsdam) Confronting black hole spectroscopy with the ringdown
15:10	<b>Harrison Siegel</b> (Columbia University/CCA) GW190521: hints of multiple fundamental ringdown modes
15:15	<b>Mark Cheung</b> (Johns Hopkins University) Nonlinear effects in black hole ringdown
15:20	<b>Tousif Islam</b> (KITP, UC Santa Barbara) Connection between linear perturbation theory and numerical-relativity waveforms: aligned-spin binaries
15:25	<b>Nicole Khusid</b> (Stony Brook University) Evidence of precession in aligned-spin analysis of ringdown signals
15:30	<b>Zihan Zhou</b> (Princeton University) On the dynamical tidal response of Kerr black holes
15:35	

11:30	<b>Lorena Magaña Zertuche</b> (UMississippi) A surrogate model for ringdown
11:35	<b>Hengrui Zhu</b> (University of Princeton) Nonlinearity in black hole ringdown from a scattering experiment
11:40	<b>Hongji Wei</b> (University of Arizona) An asymptotic framework for gravitational scattering
11:45	<b>Daine Danielson</b> (University of Chicago) Decoherence and superselection in QED and quantum gravity
11:50	<b>Victor Zhang</b> (University of Chicago) Dynamical black hole entropy in GR is apparent horizon area
11:55	<b>Subhayu Bagchi</b> (UMississippi) Axisymmetric black Hole solutions in dCS gravity
12:00	<b>Iain Davies</b> (University of Cambridge) Well-posed formulation of Einstein-Maxwell effective field theory
12:05	

**Organizers:** Alejandro Cárdenas-Avendaño (Princeton), Macarena Lagos (Columbia), Adam Pound (Southampton), Igor Rodnianski (Princeton), Gautam Satishchandran (Princeton), Leo Stein (Mississippi), Rita Teixeira da Costa (Princeton/Cambridge), Niels Warburton (UC Dublin)