Wed Jan 29 - The School

08:00 *Registration Desk Opens*

09:00-10:15 **Jeremy Heyl**
Introduction to General Relativity

11:00-12:15 **Kazuya Koyama**
Alternative gravity theories

Lunch Break
12:30-14:00 *(various locations)*

14:00-15:15 **Luis Lehner**
Gravitational waves and their sources

16:00-17:15 **Bhuvnesh Jain**
Cosmological tests of gravity

Registration Open Until 19:00

Thu Jan 30 - Workshop Day 1

08:00 *Registration Desk Opens*

08:55 **Workshop Starts**
Welcome from organizers

09:00-09:30 **Alessandra Buonanno**
Testing General Relativity through the inspiral, merger, and ringdown of a binary coalescence

09:30-10:00 **Luis Lehner**
Testing gravity in the strong gravity regime, challenges and options

10:00-10:30 **Michael Ross**
New experimental tests of gravity from Eot-Wash group

11:00-11:30 **Sarah Vigeland**
Testing gravity with pulsar timing arrays

11:30-11:45 **Meng-Xiang Lin**
Testing gravity with realistic gravitational waveforms in pulsar timing arrays

11:45-12:00 **Giorgio Gratta**
The short distance gravity program at Stanford

12:00-12:25 **Gautam Venugopalan**
Suspended animation - an optomechanical test of short-range gravity

12:25-12:35 **Jia Chengjie**
Experimental search for new short range interactions with Mossbauer spectroscopy

Lunch Break
12:35-14:00 *(various locations)*

14:00-14:30 **Jessica McIver**
Testing gravity with gravitational waves

14:30-15:00 **Daniel Carney**
Testing quantum gravity

15:00-15:30 **Lam Hui**
Nonlinear static tidal deformation of black holes

16:00-16:30 **Will Percival**
Measuring H0 and dark energy with DESI

16:30-17:00 **Justin Khoury**
Gravitational memory and soft theorems: the local perspective

17:00-17:10 **Hiromi Saida**
*Current result of PPN test of black hole spacetime by observing the star S0-2 orbiting around the galactic central massive black hole Sgr A**

17:10-17:20 **Jonathan Barenboim**
Evaporating non-singular black holes in 2D gravity

17:20-17:25 **Ali Nezhadsafavi**
Cosmic strings in the complex symmetron model

17:25-17:35 **Alan Knee**
Searching for continuous gravitational waves with a hidden Markov model

17:35-17:45 **Conner Dailey**
Formulating the complete initial boundary value problem in numerical relativity to model black hole echoes

17:45-17:55 **Shiming Gu**
Cosmic shear without small physical scales

Poster Session and Reception 18:00-20:00 *(snacks & cash bar)*

Fri Jan 31 - Workshop Day 2

08:30 *Registration Desk Opens*

09:00-09:30 **Tessa Baker**
Cosmology with gravitational wave sirens

09:30-10:00 **Eugene Lim**
Testing inflation with numerical relativity

10:00-10:30 **Kazuya Koyama**
Simulations and nonlinearities beyond LCDM

11:00-11:30 **Lia Medeiros**
ETH tests of gravity: what we've learned so far and what's to come

11:30-12:00 **Bhuvnesh Jain**
Testing beyond wCDM models with higher statistics

12:00-12:30 **Adam Pound**
High-precision waveform modeling in and beyond GR: the self-force approach

Lunch Break

12:30-14:00 *(various locations)*

14:00-14:30 **Gray Rybka**
The search for axion dark matter (and gravitational waves) with ADMX

14:30-15:00 **Clare Burrage**
Searching for screened scalar fields

15:00-15:15 **Suvendu Giri**
The curvature dependence of gravitational-wave tests of General Relativity

15:15-15:30 **Benjamin Elder**
Searching for dark energy, dark matter, and modified gravity with pairs of atomic clocks

16:00-16:30 **Douglas Tuckler**
Dark matter

16:30-17:00 **Martin Bojowald**
Emergent modified gravity

17:00-17:10 **Akira Taniguchi**
Search for high-frequency gravitational waves with Rydberg atoms

17:10-17:20 **Kate Taylor**
Null orbits in the Ernst-Wild geometry: exact and perturbative insights on black holes immersed in a magnetic field

17:20-17:30 **Hamid Mirpoorian**
Modified recombination and the Hubble tension

Conference Dinner

19:00 *(Al Porto on Waterfront)*

Sat Feb 1 - Workshop Day 3

09:00 *Registration Desk Opens*

10:00-10:30 **Mark Trodden**
Tidal Love numbers of analog black holes

11:00-11:30 **Filippo Vernizzi**
TBD

11:30-12:00 **Andrea Capra**
Observation of the gravitational free-fall of antihydrogen with ALPHA-g at CERN

12:00-12:15 **Alice Garoffolo**
Proper time path integrals for gravitational waves

12:15-12:30 **Valerio De Luca**
New insights into tidal Love numbers

Lunch Break

12:30-14:00 *(various locations)*

14:00-14:15 **Daniela Saadeh**
A field-level emulator for modified gravity

14:15-14:45 **Misao Sasaki**
Probing gravitational waves with the large-scale structure of the universe

14:45-15:15 **Chi-Kwan Chan**
Testing gravity and astrophysical models with EHT observations

15:15-15:30 **Alessandra Silvestri**
Conference Summary