Wed Jan 23 - The School 08:00 Registration Desk Opens	Thu Jan 24 - Workshop Day 1 08:00 Registration Desk Opens
09:00-10:10 Dimitrios Psaltis Introduction to General Relativity and ways of testing it	08:55 Workshop Starts Welcome from organizers
	09:00-09:30 Alessandra Buonanno Probing the nature of gravity and fundamental physics with gravitational-wave observations
	09:30-10:00 Mark Trodden Extending the classical double copy
	10:00-10:30 Eric Adelberger Eot-Wash update: fuzzy dark matter, equivalence principle tests, short- distance gravity and LIGO instrumentation
10:30-11:40 Lam Hui The landscape of modified gravity theories	11:00-11:30 Cliff Burgess Effective applications of gravity: some surprises from EFT
11:45-12:55 Nicolas Yunes Binary systems and gravitational waves	11:30-12:00 Ruth Gregory Testing gravitational quantum tunneling
	12:00-12:15 Niayesh Afshordi Quantum black holes in the sky
	12:15-12:30 Jay Tasson

The systematic search for Lorentz violation

Lunch Break 13:00-14:30 (various locations)	Lunch Break 12:30-14:00 (various locations)
14:30-15:40 Jeremy Heyl Neutron stars and astrophysical tests of gravity	14:00-14:30 Hartmut Abele qBOUNCE, and an acoustic Ramsey-type gravity resonance spectrometer
	14:30-15:00 Misao Sasaki Primordial black holes from inflation and gravitational waves
	15:00-15:10 Florent Michel Simulating vacuum tunneling with cold atoms 15:10-15:20 Matthew Robbins Bose-Einstein condensates as gravitational wave detectors 15:20-15:30 John Lee Gravity below 50 micrometers
16:00-17:10 Alessandra Silvestri Cosmological tests of gravity	16:00-16:10 Daniel Carney Tabletop experiments for quantum gravity
	16:10-16:20 Heather Fong Latest results from Advanced LIGO and Virgo and outlook for the next observing run
	16:20-16:30 Yoshio Kamiya Experimental search for new gravity-like forces in the nanometer scale with slow neutrons
	16:30-16:40 Lia Medeiros
	Quantifying black hole images in non-Kerr metrics 16:40-16:50 Ilaria Caiazzo Shining black holes: testing gravity with Colibri 16:50-16:50 Federico Urban Fuzzy dark matter and binary pulsars 16:50-17:50 RAPID TALKS Session #1
Registration Open Until 19:00	Poster Session and Reception 18:00-20:00 (snacks & cash bar)

Fri Jan 25 - Workshop Day 2

08:30 Registration Desk Opens

09:00-09:30 Justin Khoury

Search optimization, self-organized criticality, and Higgs metastability

09:30-09:45 Clare Burrage

Symmetron scalar fields: modified gravity, dark matter or both?

09:45-10:00 Jiro Murata

Status and new idea of experimental tests of Newtonian gravity

10:00-10:15 Austin Joyce

Shapes of gravity: graviton non-Gaussianity and heavy particles

10:15-10:30 Alexander Rider

Testing gravity with optically levitated test masses

11:00-11:30 Avery Broderick

Mapping spacetimes with black hole cinema

11:30-11:45 Dimitrios Psaltis

EHT update

11:45-12:15 Nicolas Yunes

Can we probe Planckian corrections at the horizon scale with gravitational waves?

12:15-12:25 Tomas Galvez

Towards a generalized Stefan-Boltzmann law for curved spacetime

12:25-12:35 Raúl Carballo-Rubio

Testing gravity with galaxy surveys

Testing the nature of black hole boundaries

Sat Jan 26 - Workshop Day 3

09:00 Registration Desk Opens

09:30-10:00 Alessandra Silvestri

New perspectives in black hole spectroscopy with gravitational-wave observations

10:00-10:30 Bhuvnesh Jain

Lensing by halos and large-scale structure: results from DES

11:00-11:20 Chukman So

The ALPHA-g experiment

11:20-11:30 Douglas Scott

Dimensionless cosmology and gravity

11:30-12:30 RAPID TALKS

Session #2

Lunch Break	Lunch Break
12:35-14:00 (various locations)	12:30-14:00 (various locations)
14:00-14:30 Manuela Campanelli	14:00-14:15 Shinji Tsujikawa
Shedding light on binary supermassive black hole mergers	Galaxy-ISW constraints on dark energy models consistent with GW170817 14:15-14:25 Georgios Papadomanolakis
14:30-15:00 Ingrid Stairs	
Strong-field gravity with pulsars	

15:00-15:30 Will Percival

The tachyon instability in scalar tensor theories

14:25-14:35 Jessica Muir

Splitting growth and geometry to test ACDM with DES

14:35-14:45 Dimitry Ayzenberg

RELXILL_NK: a non-Kerr extension of the RELXILL X-Ray reflection model

14:45-14:55 Andrius Tamosiunas

Testing emergent gravity on galaxy cluster scales

14:55-15:25 Lam Hui

Symmetries in dark matter and black holes

16:00-16:30 Mark Kasevich

Testing gravity and quantum mechanics with atom interferometry

16:30-17:00 Mark Wise

Primordial non-Gaussianities from quantum loops in de Sitter space and Simulating galaxy formation with the Illustris-TNG model in f(R) their impact on the large scale distribution of galaxies

17:00-17:30 Tanmay Vachaspati

Classical quantum correspondence

17:30-17:45 Gabor Kunstatter

Lost horizons: the dynamics of regular black hole formation and evaporation

16:00-16:10 Nelson Nunes

Testing the equivalence principle with RadioAstron

16:10-16:20 Christian Arnold

modified gravity

16:20-16:30 Alexander Mead

Accurate non-linear power spectra calculations for modified gravity models using halo-model responses

16:30-16:40 Wenjuan Fang

A new probe of gravity using the Minkowski functionals of large-scale

16:40-16:50 Marco Raveri

Reconstructing gravity on cosmological scales

16:50-17:00 Conference Summary

Conference Dinner 19:00 (Al Porto on Waterfront)