

Wed Jan 25 - The School 08:30 <i>Registration Desk Opens</i>	Thu Jan 26 - Workshop Day 1 08:30 <i>Registration Desk Opens</i>	Fri Jan 27 - Workshop Day 2 08:30 <i>Registration Desk Opens</i>	Sat Jan 28 - Workshop Day 3 09:00 <i>Registration Desk Opens</i>
09:00-10:30 Jeremy Heyl <i>Review of General Relativity and ways in which it has been tested</i>	08:55 Workshop Starts <i>Welcome from organizers</i> 09:00-09:30 Pedro Ferreira <i>A complete framework for testing gravity on cosmological scales</i> 09:30-10:00 Mark Trodden 10:00-10:30 Eric Adelberger	09:00-09:30 Cliff Burgess <i>Effective field theories and modifying gravity: The view from below</i> 09:30-10:00 Austin Joyce 10:00-10:30 Hartmut Abele	09:30-10:00 Bhuvnesh Jain <i>Astrophysical tests</i> 10:00-10:20 Richard Shaw <i>Probing Dark Energy with CHIME</i> 10:20-10:30 Mustapha Ishak <i>Cosmological consistency tests of gravity theory and cosmic acceleration</i>
11:00-12:30 Dimitrios Psaltis <i>Gravitational Waves</i> Review Article: <i><u>The basics of gravitational wave theory</u></i>	11:00-11:30 Bruce Allen <i>Direct observation of gravitational waves from the merger and inspiral of two black holes</i> 11:30-12:00 Frans Pretorius <i>Testing GR and constraining alternative theories with LIGO observations</i> 12:00-12:15 Kent Yagi <i>What do GW150914 and GW151226 tell us about extreme gravity?</i> 12:15-12:30 Leo Stein <i>Black hole mergers: beyond general relativity</i>	11:00-11:30 Maxim Pospelov <i>State of dark matter</i> 11:30-12:00 Justin Khoury <i>Cosmic acceleration without dark energy</i> 12:00-12:15 Cedric Deffayet <i>Partial masslessness beyond Einstein</i> 12:15-12:30 David Langlois <i>Degenerate higher order scalar tensor theories beyond Horndeski</i>	11:00-11:20 Scott Menary <i>The ALPHA-G experiment</i> 11:20-11:40 Masha Baryakhtar <i>Searching for ultralight particles with black holes and gravitational wave</i> 11:40-11:55 Philippe Brax <i>Gravitational birefringence</i> 11:55-12:10 Shinji Tsujikawa <i>Cosmology in generalized Proca theories</i> 12:10-12:20 Joel Bergé <i>MICROSCOPE on its way to the tightest test of the Weak Equivalence Principle</i> 12:20-12:30 Matteo Fasiello <i>LSS probes for dark energy & modified gravity?</i>
Lunch Break 12:30-13:30 <i>(various locations)</i>	Lunch Break 12:30-14:00 <i>(various locations)</i>	Lunch Break 12:30-14:00 <i>(various locations)</i>	Lunch Break 12:30-14:00 <i>(various locations)</i>
13:30-15:00 Lam Hui <i>Review of cosmology and the cosmological</i>	14:00 Joy Johnson <i>Welcome from VPR</i>	14:00-14:30 Ingrid Stairs <i>Strong-field gravity with pulsars</i>	14:00-14:10 Alexander Vikman <i>Canonical exorcism for cosmological ghosts</i>

and astrophysical tests of gravity

14:05-14:35 Holger Muller
Using matter waves to look for the dark sector

14:35-15:05 Clare Burrage
Experimental searches for screened dark energy

15:05-15:20 Tim Kovachy
Testing the equivalence principle with macroscopic atom interferometers

15:20-15:35 Jay Tasson
Testing local Lorentz invariance with gravitational waves

14:30-15:00 Claudia de Rham
Binary pulsar tests of gravity

15:00-15:15 Niayesh Afshordi
Echoes from the abyss

15:15-15:30 Tanmay Vachaspati
Quantum radiation during gravitational collapse

14:10-14:20 Yin-Zhe Ma
Constraining gravity and primordial non-Gaussianity with cosmological observations

14:20-14:30 Danielle Leonard
Testing gravity with EG: Mapping theory onto observation

14:30-14:40 Sheila Dwyer
Prospects for gravitational wave observations: update from LIGO

14:40-14:50 Daniel D’Orazio
Tools for characterizing a massive black hole binary population

14:50-15:30 Lam Hui
Light boson dark matter + conference summary

15:30-17:00 Justin Khoury
Alternative gravity theories

16:00-16:10 Aaron Zimmerman
The horizon modes of black holes

16:10-16:20 Alex Nielsen
Testing black hole ringdowns with gravitational waves

16:20-16:30 Hiromi Saida
GR effect and mass of the massive BH at the center of our galaxy

16:30-16:40 David Rapetti
Modeling and constraining the cluster mass function to test gravity at large scales

16:40-18:00 Very Short Talks

16:00-16:30 Misao Sasaki
Signatures from inflationary massive gravity

16:30-17:00 Will Percival
Final cosmological measurements from BOSS

17:00-17:30 Roy Maartens
Cosmology on ultra-large scales with the SKA

Workshop Ends

Registration Open Until 19:00

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

Conference Dinner 19:00 (Dockside on Granville Island)