2019 APCTP School/Workshop on Gravitational-Wave Cosmology Date: 2019/11/30 ~ 2019/12/4

Place: Auditorium on the first floor of Institute of Physics, Academia Sinica

	Workshop				
aturday (11/ 30)					
09:00	Registration				
09:50	Welcome Speech Mei-Yin Chou (Vice President Academia Sinica & APCTP Trustee)				
Kin-Wang Ng (Chair)					
10:00	Jun'ichi Yokoyama (RESCEU, University of Tokyo) Gravitational waves as a probe of the history of the Universe				
10:45	Yi-Zen Chu (National Central University) Gauge invariance, nonlocality and observables in gravitational physics				
11:20	Arun Kumar Pandey (University of Delhi) Chiral plasma instability and primordial gravitational wave				
11:45	Yi-Peng Wu (RESCEU, University of Tokyo) Statistical bias for black hole mass functions from the inflationary power spectrum				
12:10	Group Photo				
12:20	Lunch				
	Hing Tong Cho (Chair)				
13:30	Atsushi Nishizawa (RESCEU, University of Tokyo) Observational predictions of the viable generalized scalar-tensor theory				
14:15	Yuki Inoue (National Central University) <i>The development and characterization of KAGRA gravitational wave telescope toward the</i> <i>joining of worldwide observing run 3</i>				
14:50	Xun Xue (East China Normal University) The effective quintessence from string landscape				
15:25	Coffee Break				
Wolung Lee (Chair)					
16:00	Student Presentations				
Each 15 min.	 Yu-Kuang Chu (Institute of Physics, Academia Sinica) Spherical harmonic analysis of stochastic gravitational wave background anisotropies Keitaro Tomikawa (Rikkyo University) On the gauge dependence of gravitational waves generated at second order from scalar perturbations Irvin Martinez (University of Cape Town) Binary black hole spin evolution in dense stellar systems: distinguishing formation channel 				

Each 10 min.	 Un-Pang Chang (Institute of Astrophysics, National Taiwan University) Constraints on gravitational waves induced by delta-function curvature perturbations Hsu-Wen Chiang (LeCosPA, National Taiwan University) Exponential decay of the horizon deformation in a dynamical super-translated black hole system Rafkat Galeev (Dept of General Relativity and Gravity Theory, Kazan Federal University) Homogeneous models in Horndeski theory Reggie Pantig (De La Salle University) The Effect of Dark Matter on Kerr Spacetime Muhammad F. Alfian R. Sakti (Bandung Institute of Technology) Kerr/CFT correspondence on Kerr-Newman-NUT-Quintessence black hole Shivani Sharma (Birla Institute of Technology and Science Pilani) Observational constraints on the extension of CPL model via Bianchi type I spacetime Santosh Kumar Yadav (Birla Institute of Technology and Science Pilani) Effects of time-varying dark energy on dark matter-photon coupling model
19:30	Banquet

Workshop

Sunday (12/1)

Jun'ichi Yokoyama (Chair)					
09:00	Jai-chan Hwang (Kyungpook National University) Gauge dependence of gravitational waves generated from scalar perturbations				
09:40	Shu-Lin Cheng (Institute of Physics, Academia Sinica) Primordial black holes and associated gravitational waves in axion inflation				
10:05	Alessandro Parisi (Tamkang University) Fundamental oscillation modes of boson stars and gravitational constraint				
10:30	Coffee Break				
	Meng-Ru Wu (Chair)				
11:00	Chun-Hung Chen (The Institute for Fundamental Study, Naresuan University) A new (original) set of quasi-normal modes in spherically symmetric AdS black hole spacetimes				
11:25	Che-Yu Chen (LeCosPA, National Taiwan University) Testing gravity theories with gravitational waves via quasinormal modes				
11:50	Meng-Ru Wu (Institute of Physics, Academia Sinica) <i>r-process nucleosynthesis in neutron star mergers</i>				
12:25	Lunch				
	FREE				

School						
Date Time	Monday (12/2)	Tuesday (12/3)	Wednesday (12/4)			
09:00	Desistration	Guo-Chin Liu II	Jai-chan Hwang III			
10:30	Registration	Coffee Break				
11:00	Jai-chan Hwang I	Atsushi Nishizawa II	Kin-Wang Ng I			
12:30	Lunch					
14:00	Guo-Chin Liu I	Jai-chan Hwang II	Hsin-Yu Chen II			
15:30	Coffee Break					
16:00-17:30	Atsushi Nishizawa I	Hsin-Yu Chen I	Kin-Wang Ng II			
18:00	Reception	Banquet	Adjourn			