

2020 TGWG Mini-Workshop on Compact Star Physics with Data Analysis of Gravitational Waves

Program

Day 1 - August 10, 2020

TIME	TITLE	SPEAKER
8:30-9:00	<i>Registration</i>	
9:00-10:00	Derivations of TOV Equation and Tidal Love Number by Mathematica	Hong Zhang (NTNU)
10:00-10:15	<i>Break</i>	
10:15-11:15	Calculations of TOV Equation and Tidal Love Number by Python	Jie-Shiun Tsao (NTNU)
11:15-11:30	<i>Break</i>	
11:30-12:30	Hand-on Session and Discussions on Compact Star Physics	
12:30-14:00	<i>Lunch</i>	
14:00-15:00	Neutron Star Configurations Confronting Dark Matter and Neutron Lifetime Anomaly	Chia-Wei Yang (TKU)
15:00-15:15	<i>Break</i>	
15:15-16:15	PyCBC Inference in Gravitational Wave Physics	Guo-Zhang Huang (NTNU)
16:15-16:30	<i>Break</i>	
16:30-17:30	<i>Free Discussions</i>	

Day 2 - August 11, 2020

TIME	TITLE	SPEAKER
9:00-10:00	Quasi Normal Modes of Black Holes and Compact Stars	Alessandro Paris (TKU)
10:00-10:15	<i>Break</i>	
10:15-11:15	Relativistic Stellar Pulsation	Stephen Lien (AS)
11:15-11:30	<i>Break</i>	
11:30-12:30	Acceleration of MCMC in Parameter Estimation of Gravitational Waves Using Neural Network	Chia-Jui Chou (NCTU)
12:30-14:00	<i>Lunch</i>	
14:00-15:00	Gravitational Waves from Inflation	Hans Lao (NCTU)
15:00-15:15	<i>Break</i>	
15:15-16:15	<i>Free Discussions and Concluding Remarks on Future Gravitational-Wave Physics in Taiwan</i>	