



# 1st TEONGRAV international workshop on theory of gravitational waves

## Monday, 16 September 2024

### Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (11:30 - 12:30)

time	[id] title	presenter
11:30	[25] A new multipolar waveform model for eccentric, spin-aligned binary black holes within the effective-one-body formalism	GAMBOA, Aldo
11:50	[39] IMPROVED EOB MODEL FOR EMRIs SIMULATION	PANZERI, Mattia
12:10	[41] Consistent dynamics of eccentric black hole binaries.	FUMAGALLI, Giulia

### Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (15:20 - 16:40)

time	[id] title	presenter
15:20	[10] The conundrum of tidal Love number	CHAKRABORTY, Sumanta
15:40	[43] The importance of gauge choices in the EOB conservative dynamics	Dr PLACIDI, Andrea
16:00	[60] A new phenomenological waveform model for binary neutron star systems of unequal masses	WILLIAMS, Natalie
16:20	[32] Radiation reaction at fourth-and-a-half post-Newtonian order	TRESTINI, David

## Tuesday, 17 September 2024

### **Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (09:50 - 10:30)**

time	[id] title	presenter
09:50	[91] Spectroscopy of magnetized black holes and topological stars	DIMA, Alexandru
10:10	[84] Primordial Black Hole formation from a massless scalar field	Dr MUSCO, Ilia

### **Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (11:10 - 12:30)**

time	[id] title	presenter
11:10	[86] Kinetic screening and scalar radiation in K-Essence	CAYUSO, Ramiro
11:30	[42] Ringdowns for black holes with scalar hair: the large mass case	D'ADDARIO, Giovanni
11:50	[21] Neutron stars and the cosmological constant problem	VENTAGLI, Giulia
12:10	[61] Quasinormal modes of black holes with scalar hair	ANTONIOU, Georgios

### **Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (15:00 - 15:40)**

time	[id] title	presenter
15:00	[28] Tidal heating in eccentric orbit	DATTA, SAYAK
15:20	[20] Perturbation of the Vaidya metric in frequency domain: Quasi-normal modes and tidal response	CAPUANO, Lodovico

### **Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (16:20 - 17:40)**

time	[id] title	presenter
16:20	[62] Orbital eccentricity in general relativity from catastrophe theory	BOSCHINI, Matteo
16:40	[88] Development of Phenomenological Gravitational Wave Signals from Rotating Core-Collapse Supernovae in a Multi-Messenger Environment	FAVALI, Alessandro
17:00	[15] Model-independent cosmology with joint observations of gravitational waves and $\gamma$ -ray bursts	COZZUMBO, Andrea

# Wednesday, 18 September 2024

## **Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (09:50 - 10:30)**

time	[id] title	presenter
09:50	[92] Probing scalar fields with extreme mass ratio inspirals	DELLA ROCCA, Matteo
10:10	[40] Extreme mass-ratio inspirals as fundamental physics probes	GLIORIO, Sara

## **Contributed Talks - Conversi Room (16:40 - 17:40)**

time	[id] title	presenter
16:40	[81] Nonlinearities in black hole ringdown	KUNTZ, Adrien Benoit
17:00	[27] Late-time signal from binary black hole coalescences	DE AMICIS, Marina
17:20	[56] A covariant approach to relativistic large-eddy simulations	CELORA, Thomas

# Thursday, 19 September 2024

## Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (09:50 - 10:10)

time	[id] title	presenter
09:50	[18] Exploring Composition of Dense Nuclear Matter with Astrophysical Observations	Dr CHAR, Prasanta

## Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (11:00 - 12:20)

time	[id] title	presenter
11:00	[29] Magnetic dissipation in short gamma-ray burst jets	MATTIA, Giancarlo
11:20	[87] Numerical models of magnetorotational core-collapse supernovae: explosions dynamics, gravitational waves, neutrinos, and explosive nucleosynthesis	BUGLI, Matteo
11:40	[22] Gravitational waves from mergers of Population III binary black holes: roles played by two evolution channels	LIU, Boyuan
12:00	[45] Chemically-Homogeneous Evolution's Impact on Stellar Populations and Compact Binary Mergers	DALL'AMICO, Marco

## Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (15:10 - 15:50)

time	[id] title	presenter
15:10	[30] Comparing gravitational waveform models for binary black hole mergers through a hypermodels approach	PUECHER, Anna
15:30	[58] Micro-Tidal Disruption Events in Star Clusters	RASTELLO, Sara

## Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (16:20 - 17:40)

time	[id] title	presenter
16:20	[83] Computing the Bayes factor in favor of the ringdown overtone using normalizing flows	SRINIVASAN, Rahul
16:40	[104] Tidal deformability of black holes surrounded by thin accretion disks	CANNIZZARO, Enrico
17:00	[57] Wolf-Rayet – compact object binaries: the road to gravitational wave mergers	KORB, Erika
17:20	[49] Fast and Reliable Gravitational Waveform Model for Binary Neutron Star Coalescences	ABAC, Adrian

# Friday, 20 September 2024

## Contributed Talks - Physics Department - Aula Amaldi (Marconi Building) (09:50 - 10:30)

time	[id] title	presenter
09:50	[48] Scattering and dynamical capture of two black holes: synergies between numerical and analytical methods	ALBANESI, Simone
10:10	[89] Scattering amplitudes for black holes	SERGOLA, matteo