

## **Session Program**

**Jul 7 - 12, 2024**



# **Seventeenth Marcel Grossmann Meeting**

## ***Astrophysics with gravitational waves***

Aurum, the 'Gabriele d'Annunzio' University and ICRA  
Pescara, Italy

# Mon, July 8

3:00 PM

**Astrophysics with gravitational waves: Monday block 1**  
**Session | Location:** Palazzo Micara of the 'Gabriele d'Annunzio' University, M6, Viale Pindaro, 42, Pescara |  
**Convener:** Jose Fernando Rodriguez Ruiz

3:00 – 3:30 PM

**Lessons, promises, and innovations in synergistic gravitational-wave science**

**Speaker**  
 Szabolcs Marka

3:30 – 4:00 PM

**Dissipative effects in matter and metric perturbations: formal analysis**

**Speaker**  
 David Díaz-Guerra

4:00 – 4:30 PM

**Conservation, Non-conservation Laws and Gravitational Energy-momentum in General Relativity**

**Speaker**  
 Prof. Zhaoyan Wu

4:30 PM

5:00 PM

**Astrophysics with gravitational waves: Monday block 2**  
**Session | Location:** Palazzo Micara of the 'Gabriele d'Annunzio' University, M6, Viale Pindaro, 42, Pescara |  
**Convener:** Jose Fernando Rodriguez Ruiz

5:00 – 5:30 PM

**On the maximum mass and stability of differentially rotating neutrons stars**

**Speaker**  
 Prof. Dorota Rosinska

5:30 – 6:00 PM

**Chameleon-induced signatures in polarization of gravitational waves**

**Speaker**  
 Prof. Murli Manohar Verma

6:00 – 6:30 PM

**Physical Significance of the Constants in the Colliding Plane Gravitational Wave Solutions**

**Speakers**  
 Asghar Qadir, Kamran Qadir Abbasi

6:30 PM

## Tue, July 9

3:00 PM

### Astrophysics with gravitational waves: Tuesday block 1

**Session** | **Location:** Palazzo Micara of the 'Gabriele d'Annunzio' University, M6, Viale Pindaro, 42, Pescara |  
**Convener:** Jose Fernando Rodriguez Ruiz

3:00 - 3:30 PM

#### Dynamical tidal Love numbers of Kerr-like compact objects

**Speaker**

Sumanta Chakraborty

3:30 - 4:00 PM

#### Observability of spin precession in the presence of a black-hole remnant kick

**Speaker**

Angela Borchers

4:00 - 4:30 PM

#### An Effective Field Theory Approach to Gravitational and Electromagnetic Love Numbers of Magnetars

**Speaker**

Siddarth Ajith

4:30 PM

5:00 PM

### Astrophysics with gravitational waves: Tuesday block 2

**Session** | **Location:** Palazzo Micara of the 'Gabriele d'Annunzio' University, M6, Viale Pindaro, 42, Pescara |  
**Convener:** Jose Fernando Rodriguez Ruiz

5:00 - 5:40 PM

#### Detectability of exotic object mergers by current generation gravitational wave detectors

**Speaker**

Shrobana Ghosh

5:40 - 6:20 PM

#### Why CGW is yet to be detected from isolated magnetized rotating neutron stars?

**Speaker**

Banibrata Mukhopadhyay

6:30 PM