Session Program

Jul 7 – 12, 2024

Seventeenth Marcel Grossmann Meeting

Black hole formation, evolution and the black hole mass gap

Aurum, the ‘Gabriele d’Annunzio’ University and ICRANet
Pescara, Italy

Tue, July 9

3:00 PM

Black hole formation, evolution and the black hole mass gap: Tuesday block 1

Session | **Location:** Aurum, Sala 17, Largo Gardone Riviera, Pescara, Italy | **Convener:** Grant Mathews

3:00 – 3:20 PM **Primordial Black Hole Dark Matter from Warm Natural Inflation**

Speaker
Grant Mathews

3:20 – 3:40 PM **Spins of primordial black holes in a matter-dominated era**

Speaker
Daiki Saito

3:40 – 4:00 PM **New instanton on a warped Kerr spacetime**

Speaker
Reinoud Slagter

4:00 – 4:20 PM **Observations of binary black holes in the pair-instability mass gap.**

Speaker
Sergey Klimenko

4:30 PM

5:00 PM

Black hole formation, evolution and the black hole mass gap: Tuesday block 2

Session | **Location:** Aurum, Sala 17, Largo Gardone Riviera, Pescara, Italy | **Convener:** Grant Mathews

5:00 – 5:20 PM

Illustris-TNG simulated central black mass and Galaxy properties correlations with a Machine Learning approach

Speaker
Imani Dindy

5:20 – 5:40 PM **Gravitational wave echos from physical black holes**

Speaker
Yu-Song Cao

5:40 – 6:00 PM

A new channel to form near- and sub-solar-mass black holes and naked singularities

Speaker
Chandrachur Chakraborty

6:00 – 6:20 PM **Initial Conditions and Evolution for Spherically Symmetric Collapse**

Speaker
Mrs Elly Bayona

6:20 – 6:40 PM

Electric and magnetic fields of a charged ring in the vicinity of Kerr black hole

6:40 PM

Speaker
Stanislav Komarov