

Session Program

September 25, 2022 to October 1, 2022



Vulcano Workshop 2022 - Frontier Objects in Astrophysics and Particle Physics

Gravitation, GW and electromagnetic counterpart

Elba Island (Tuscany, Italy)

Mon, September 26

9:00 AM

Gravitation, GW and electromagnetic counterpart

Session | **Location:** Elba Island (Tuscany, Italy) | **Convener:** Salvatore Capozziello

9:00 - 9:25 AM

Multiwavelength observations of afterglow of GW counterparts (GW170817)

Speaker

Eleonora Troja

9:25 - 9:50 AM

Gravitational waves: recent results

Speaker

Maria Alessandra Papa

9:50 - 10:15 AM

Gravitational Waves: a new way to explore the Universe

Speaker

Fulvio Ricci

10:15 - 10:40 AM

Einstein Telescope: science, technologies and perspectives

Speaker

Michele Punturo

10:40 AM

11:00 AM

Gravitation, GW and electromagnetic counterpart

Session | **Location:** Elba Island (Tuscany, Italy) | **Convener:** stavros katsanevas

11:00 - 11:25 AM

Relativistic Jets and Gamma-Ray Bursts from Neutron Star Mergers

Speaker

Hendrik van Eerten

11:25 - 11:50 AM

Observations of Kilonovae and theoretical implications

Speaker

Massimo Della Valle

11:50 AM - 12:15 PM

Core-collapse supernova detection: a deep learning approach

Speaker

Irene Di Palma

12:15 - 12:40 PM

Integral observations of GW and transient phenomena

Speaker

Pietro Ubertini

12:40 - 1:05 PM

Implications for cosmology following gravitational waves detected from binary black hole binaries

Speaker

Simone Mastrogiovanni

1:05 - 1:30 PM

LISA-Athena synergy for detecting GW and HE counterparts of supermassive binary BH mergers

Speaker

Alberto Mangiagli

1:30 PM

5:00 PM

Gravitation, GW and electromagnetic counterpart

Session | **Location:** Elba Island (Tuscany, Italy) | **Convener:** Fulvio Ricci

5:00 - 5:25 PM

GW detection at the Moon

Speaker

stavros katsanevas

5:25 - 5:50 PM

Athena multimessenger science

Speaker

Luigi Piro

5:50 - 6:15 PM

METRIC: an Italian proposal for an atmosphere/gravity/geodesy small mission in LEO

Speaker

Roberto Peron

6:15 - 6:40 PM

Three lunar laser ranging mission in 2023-2024 by NASA, ESA and CNSA for precision test of general relativity

Speaker

Luca Porcelli

6:40 PM