

Lunar Gravitational-wave Antenna workshop



Report of Contributions

Contribution ID: 7

Type: **not specified**

Chasing Super-Massive Black Hole merging events with Athena and LISA

Tuesday 8 October 2024 11:15 (25 minutes)

Presenter: PIRO, Luigi (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: 8

Type: **not specified**

LEM-X - The Lunar Electromagnetic Monitor in X-rays

Tuesday 8 October 2024 11:40 (25 minutes)

Presenter: Dr EVANGELISTA, Yuri (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: 9

Type: **not specified**

Vera C. Rubin Observatory Legacy Survey of Space and Time activities

Tuesday 8 October 2024 12:05 (25 minutes)

Presenter: BONITO, Rosaria (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: **10**

Type: **not specified**

Future terrestrial GW detectors

Tuesday 8 October 2024 10:00 (30 minutes)

Presenter: RICCI, Fulvio (University of Rome, La Sapienza)

Session Classification: LGWA meeting

Contribution ID: 11

Type: **not specified**

Update on the Lunar Gravitational-wave Antenna

Tuesday 8 October 2024 09:00 (30 minutes)

Presenter: HARMS, Jan (Gran Sasso Science Institute)

Session Classification: LGWA meeting

Contribution ID: 12

Type: **not specified**

Multiband GW cosmology

Tuesday 8 October 2024 14:30 (30 minutes)

Presenter: MAGGIORE, Michele (University of Geneva)

Session Classification: LGWA meeting

Contribution ID: 13

Type: **not specified**

Challenges of estimating sky-localization with multiband observations

Tuesday 8 October 2024 15:00 (20 minutes)

Presenter: TISSINO, Jacopo (GSSI)

Session Classification: LGWA meeting

Contribution ID: 14

Type: **not specified**

Quasi normal mode detectability by future space detectors

Tuesday 8 October 2024 15:30 (15 minutes)

Presenter: ANSELMO, Chiara (University of Rome, La Sapienza)

Session Classification: LGWA meeting

Contribution ID: 15

Type: **not specified**

Multiband BBH population studies

Tuesday 8 October 2024 16:30 (30 minutes)

Presenter: SCHNEIDER, Raffaella (University of Rome, La Sapienza)

Session Classification: LGWA meeting

Contribution ID: 16

Type: **not specified**

Unveiling the nature of IMBHs with LGWA, ET, and LISA

Tuesday 8 October 2024 17:20 (20 minutes)

Presenter: ARCA SEDDA, Manuel (GSSI)

Session Classification: LGWA meeting

Contribution ID: 17

Type: **not specified**

Simulating the evolution of black hole pairs and their implications for the LGWA

Tuesday 8 October 2024 17:00 (20 minutes)

Presenter: SINGH, Jasbir (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: **18**

Type: **not specified**

Luni-solar gravitational control on the Earth's geodynamics

Thursday 10 October 2024 09:00 (30 minutes)

Presenter: DOGLIONI, Carlo (INGV)

Session Classification: LGWA meeting

Contribution ID: 19

Type: **not specified**

Matter-dominated gravitational wave sources

Wednesday 9 October 2024 14:30 (30 minutes)

Presenter: BOBRICK, Alexey (Technion Institute)

Session Classification: LGWA meeting

Contribution ID: 20

Type: **not specified**

LGWA's localization capabilities on a simulated DWD population

Wednesday 9 October 2024 17:30 (20 minutes)

Presenter: BENETTI, Giovanni (University of Padova)

Session Classification: LGWA meeting

Contribution ID: 21

Type: **not specified**

Payload introduction and Watt's linkage

Wednesday 9 October 2024 09:00 (18 minutes)

Presenter: VAN HEIJNINGEN, Joris (VU Amsterdam / Nikhef)

Session Classification: LGWA meeting

Contribution ID: 22

Type: **not specified**

Sorption cooler

Wednesday 9 October 2024 10:12 (18 minutes)

Presenter: VAN LIMBEEK, Michiel (University of Twente)

Session Classification: LGWA meeting

Contribution ID: 23

Type: **not specified**

Platform leveling

Wednesday 9 October 2024 11:18 (18 minutes)

Presenter: DORAVARI, Suresh (IUCAA)

Session Classification: LGWA meeting

Contribution ID: 24

Type: **not specified**

Superconducting readout

Wednesday 9 October 2024 11:36 (18 minutes)

Presenter: GOTTADI, Luciano (SRON)

Session Classification: LGWA meeting

Contribution ID: 25

Type: **not specified**

Electronics

Wednesday 9 October 2024 11:00 (18 minutes)

Presenter: FERRAIOLI, Luigi (ETH Zurich)

Session Classification: LGWA meeting

Contribution ID: 26

Type: **not specified**

Actuator coil fabrication

Wednesday 9 October 2024 09:36 (18 minutes)

Presenter: SHARMA, Meenakshi (MPI Dresden)

Session Classification: LGWA meeting

Contribution ID: 27

Type: **not specified**

Actuator coil characterization

Wednesday 9 October 2024 09:54 (18 minutes)

Presenter: PERALI, Andrea (University of Camerino)

Session Classification: LGWA meeting

Contribution ID: 28

Type: **not specified**

E-TEST / CRISTAL sensor test facility

Wednesday 9 October 2024 11:54 (18 minutes)

Presenter: COLLETTE, Christophe (University of Liège)

Session Classification: LGWA meeting

Contribution ID: 29

Type: **not specified**

GEMINI sensor test facility

Wednesday 9 October 2024 12:12 (18 minutes)

Presenter: ANDRIC, Tomislav (GSSI)

Session Classification: LGWA meeting

Contribution ID: 30

Type: **not specified**

3DMHD simulations of white dwarf mergers and their GW signals

Wednesday 9 October 2024 15:00 (30 minutes)

Presenter: MORÁN FRAILE, Javier (Heidelberg Institute for Theoretical Studies)

Session Classification: LGWA meeting

Contribution ID: **31**

Type: **not specified**

Superconducting accelerometer

Wednesday 9 October 2024 09:18 (18 minutes)

Presenter: BIAN, Xing (Chinese Academy of Sciences)

Session Classification: LGWA meeting

Contribution ID: 32

Type: **not specified**

Session introduction

Thursday 10 October 2024 16:30 (10 minutes)

Presenter: Dr FRIGERI, Alessandro (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: 33

Type: **not specified**

The Role of Geology in LGWA

Thursday 10 October 2024 16:40 (20 minutes)

Presenter: Dr FRIGERI, Alessandro (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: 34

Type: **not specified**

Geologic Mapping of the Moon: History, Rationale, and Role in Exploration

Thursday 10 October 2024 17:00 (20 minutes)

Presenter: SKINNER, James (USGS)

Session Classification: LGWA meeting

Contribution ID: 35

Type: **not specified**

International Collaboration in Support of Planetary Geologic Mapping

Thursday 10 October 2024 17:20 (20 minutes)

Presenter: LUNA, Jeannette (Tennessee Tech)

Session Classification: LGWA meeting

Contribution ID: 36

Type: **not specified**

Questions & Discussion

Thursday 10 October 2024 17:40 (10 minutes)

Presenter: Dr FRIGERI, Alessandro (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: 37

Type: **not specified**

Information regarding the Geologic Field Trip to Colli Albani (or backup visit to the Nemi Museum in case of bad weather)

Thursday 10 October 2024 17:50 (10 minutes)

Presenter: Dr FRIGERI, Alessandro (Istituto Nazionale di Astrofisica (INAF))

Session Classification: LGWA meeting

Contribution ID: 38

Type: **not specified**

Estimates on the visibility of LGWA of gravitational counterparts of tidal disruptions by intermediate-mass black holes

Wednesday 9 October 2024 15:30 (20 minutes)

Presenter: KEPLER, Elisabeth (SISSA, University of Trieste)

Session Classification: LGWA meeting

Contribution ID: 39

Type: **not specified**

Single-Seismometer Illumination of Deep Planetary Interiors: A Way Out with Global Inter-Source Correlations

Thursday 10 October 2024 09:30 (20 minutes)

Presenter: WANG, Sheng (ETH Zurich)

Session Classification: LGWA meeting

Contribution ID: 40

Type: **not specified**

Synthetic models of the lunar seismic field

Thursday 10 October 2024 09:50 (20 minutes)

Presenter: CASAROTTI, Emanuele (INGV)

Session Classification: LGWA meeting

Contribution ID: 41

Type: **not specified**

Terrestrial analogues for seismic site characterization

Thursday 10 October 2024 10:10 (20 minutes)

Co-authors: Dr FRIGERI, Alessandro (Istituto Nazionale di Astrofisica (INAF)); ZACCARELLI, Lucia (INGV); OLIVIERI, Marco (INGV)

Presenter: OLIVIERI, Marco (INGV)

Session Classification: LGWA meeting

Contribution ID: 42

Type: **not specified**

Observations of galactic GW sources for LISA/LGWA

Wednesday 9 October 2024 17:00 (30 minutes)

Presenter: KUPFER, Thomas (University of Hamburg)

Session Classification: LGWA meeting

Contribution ID: 43

Type: **not specified**

Discussion

Wednesday 9 October 2024 17:50 (10 minutes)

Presenter: BOBRICK, Alexey (Technion Institute)

Session Classification: LGWA meeting

Contribution ID: 44

Type: **not specified**

Galactic DWD population models

Wednesday 9 October 2024 16:30 (30 minutes)

Presenter: TOONEN, Silvia (University of Amsterdam)

Session Classification: LGWA meeting

Contribution ID: 45

Type: **not specified**

The Taiji mission and its recent progress

Tuesday 8 October 2024 09:30 (30 minutes)

Presenter: LUO, Ziren (Chinese Academy of Sciences, Beijing)

Session Classification: LGWA meeting

Contribution ID: 46

Type: **not specified**

Italy on the Moon ... Science

Tuesday 8 October 2024 11:00 (15 minutes)

Presenter: COSMO, Mario (Direttore Scienza e Innovazione ASI)

Session Classification: LGWA meeting

Contribution ID: 47

Type: **not specified**

Approaches to obtain coordinate-independent sky-localization errors

Tuesday 8 October 2024 15:20 (10 minutes)

Presenter: SCHULZ, Matteo (GSSI)

Session Classification: LGWA meeting