

**GEMMA (Gravitational-waves,
ElectroMagnetic and dark
Matter) Physics Workshop**

Report of Contributions

Contribution ID: 0

Type: **not specified**

S. Klimenko: Gravitational wave bursts: Detection with minimal assumptions

Monday, 4 June 2018 09:00 (55 minutes)

Contribution ID: 1

Type: **not specified**

G. Guidi: LIGO-Virgo GW observations in the era of multi-messenger astronomy

Monday, 4 June 2018 09:55 (25 minutes)

Contribution ID: 2

Type: **not specified**

G. Guidi: Tests of general relativity with gravitational wave observations

Monday, 4 June 2018 10:20 (25 minutes)

Contribution ID: 3

Type: **not specified**

D. Keitel: LIGO-Virgo efforts to study the post-merger remnant of the GW170817 event

Monday, 4 June 2018 11:15 (25 minutes)

Contribution ID: 4

Type: **not specified**

B. Haskell: Astrophysical sources of continuous gravitational waves

Monday, 4 June 2018 11:40 (25 minutes)

Contribution ID: 5

Type: **not specified**

I. Jones: Data Analysis techniques to perform Continuous-Wave searches

Monday, 4 June 2018 12:05 (25 minutes)

Contribution ID: 6

Type: **not specified**

S. Mastrogiovanni: Looking for gravitational waves from poorly known neutron stars

Monday, 4 June 2018 12:30 (25 minutes)

Contribution ID: 7

Type: **not specified**

R. Caputo: Overview of Dark Matter

Monday, 4 June 2018 14:30 (55 minutes)

Contribution ID: 8

Type: **not specified**

G. Cavoto: Novel technologies for direct dark matter detection

Monday, 4 June 2018 15:25 (25 minutes)

Contribution ID: 9

Type: **not specified**

A. Tykhonov: First Results from the DAMPE Mission

Monday, 4 June 2018 15:50 (25 minutes)

Contribution ID: 10

Type: **not specified**

C. Galbiati: A Unified Program of Argon Dark Matter Searches: DarkSide-20k and The Global Argon Dark Matter Collaboration

Monday, 4 June 2018 16:45 (55 minutes)

Contribution ID: 11

Type: **not specified**

A. Olivares: Connections between neutrinos and dark matter at the cosmological level

Monday, 4 June 2018 17:40 (25 minutes)

Contribution ID: 12

Type: **not specified**

K. Kotake: Neutrino and Gravitationalwave Signatures of Core-Collapse Supernovae

Monday, 4 June 2018 18:05 (25 minutes)

Contribution ID: 13

Type: **not specified**

A. Urbano: Axions and General Relativity

Tuesday, 5 June 2018 09:00 (55 minutes)

Contribution ID: 14

Type: **not specified**

C. de los Heros: Dark Matter searches with IceCube

Tuesday, 5 June 2018 09:55 (25 minutes)

Contribution ID: 15

Type: **not specified**

M. Isi: Gravitational waves from ultralight bosons

Tuesday, 5 June 2018 10:20 (25 minutes)

Contribution ID: 16

Type: **not specified**

T. Regimbau: Cosmological implications of the first LIGO and Virgo detections

Tuesday, 5 June 2018 11:15 (25 minutes)

Contribution ID: 17

Type: **not specified**

E. Di Marco: Status of Dark Matter searches in final states with jets at ATLAS and CMS

Tuesday, 5 June 2018 11:40 (25 minutes)

Contribution ID: 18

Type: **not specified**

V. Ippolito: Status of Dark Matter searches in final states with missing transverse momentum and Higgs bosons, photons or vector bosons at ATLAS and CMS

Tuesday, 5 June 2018 12:05 (25 minutes)

Contribution ID: 19

Type: **not specified**

S. Gozzini: ANTARES dark matter searches and perspectives for KM3NeT

Tuesday, 5 June 2018 12:30 (25 minutes)

Contribution ID: 20

Type: **not specified**

E. Maiorana: Towards observational run O3 with Virgo detector

Tuesday, 5 June 2018 14:30 (55 minutes)

Contribution ID: 21

Type: **not specified**

L. Naticchioni: Enhancing Advanced Virgo sensitivity with the re-integration of monolithic payloads

Tuesday, 5 June 2018 15:25 (25 minutes)

Contribution ID: 22

Type: **not specified**

F. Travasso: Monolithic folded pendulum sensor for present and future interferometric detectors of gravitational waves

Tuesday, 5 June 2018 15:50 (25 minutes)

Contribution ID: 23

Type: **not specified**

E. Huerta: Deep Neural Networks in the context of Gravitational-Wave searches

Tuesday, 5 June 2018 16:45 (25 minutes)

Contribution ID: 24

Type: **not specified**

R. Sharma: Deep Learning Continuous Gravitational Waves

Tuesday, 5 June 2018 17:10 (25 minutes)

Contribution ID: 25

Type: **not specified**

M. Arca Sedda: Using merged BHs spins and masses to infer the formation history of their progenitors

Tuesday, 5 June 2018 17:35 (25 minutes)

Contribution ID: 26

Type: **not specified**

Julie McEnery: Gamma-ray Bursts - An Overview)

Wednesday, 6 June 2018 09:00 (55 minutes)

Contribution ID: 27

Type: **not specified**

O. S. Salafia: Overview: gamma-ray burst prompt and afterglow theory and models

Wednesday, 6 June 2018 09:55 (25 minutes)

Contribution ID: 28

Type: **not specified**

R. Aloisio: Theoretical overview on highenergy neutrinos and ultra-high energy cosmic rays

Wednesday, 6 June 2018 10:20 (25 minutes)

Contribution ID: 29

Type: **not specified**

C. Finley: Multi-messenger Results from the IceCube Neutrino Observatory

Wednesday, 6 June 2018 11:15 (25 minutes)

Contribution ID: **30**

Type: **not specified**

J. De Mello: Multi-messenger astrophysics with the Pierre Auger Observatory

Wednesday, 6 June 2018 11:40 (25 minutes)

Contribution ID: 31

Type: **not specified**

B. De Lotto: MAGIC multimessenger results and perspectives

Wednesday, 6 June 2018 12:05 (25 minutes)

Contribution ID: 32

Type: **not specified**

P. Ubertini: INTEGRAL observation of GW gamma ray counterparts and future perspectives

Wednesday, 6 June 2018 12:30 (25 minutes)

Contribution ID: **33**

Type: **not specified**

M. Landry: LIGO Detector Status

Thursday, 7 June 2018 09:00 (55 minutes)

Contribution ID: 34

Type: **not specified**

A. Krolak: Application of Feldman-Cousins upper limits to gravitational wave data analysis

Thursday, 7 June 2018 09:55 (25 minutes)

Contribution ID: 35

Type: **not specified**

G. Cusin: Anisotropies in the astrophysical background of gravitational waves

Thursday, 7 June 2018 10:20 (25 minutes)

Contribution ID: 36

Type: **not specified**

A. La Rana: A historical perspective on the 3rd generation GW detectors: the early attempts for a joint European effort 1986-1994

Thursday, 7 June 2018 11:15 (25 minutes)

Contribution ID: 37

Type: **not specified**

R. Flaminio: Status of the KAGRA detector

Thursday, 7 June 2018 11:40 (25 minutes)

Contribution ID: **38**

Type: **not specified**

M. Punturo: Towards the 3rd generation of Gravitational Wave Observatories: The Einstein Telescope project

Thursday, 7 June 2018 12:05 (25 minutes)

Contribution ID: 39

Type: **not specified**

K. Holly-Bockelmann: Supermassive Black Hole Formation as Revealed by LISA

Thursday, 7 June 2018 12:30 (25 minutes)

Contribution ID: 40

Type: **not specified**

E. Pian: Kilonovae: the cosmic foundries of heavy elements

Thursday, 7 June 2018 14:30 (55 minutes)

Contribution ID: 41

Type: **not specified**

A. Perego: Modelling of the EM counterpart of compact binary merger: ejecta, neutrinos and nucleosynthesis

Thursday, 7 June 2018 15:25 (25 minutes)

Contribution ID: 42

Type: **not specified**

L. Piro: The broad-band afterglow and the merger remnant of GW170817

Thursday, 7 June 2018 15:50 (25 minutes)

Contribution ID: 43

Type: **not specified**

A. Coleiero: Search for neutrino counterparts to gravitational wave events with the ANTARES telescope

Thursday, 7 June 2018 16:45 (25 minutes)

Contribution ID: 44

Type: **not specified**

E. Pian: The Transient High Energy Sky and Early Universe Surveyor - THESEUS

Thursday, 7 June 2018 17:10 (25 minutes)

Contribution ID: 45

Type: **not specified**

D. Montanino: Spectral Hardening of cosmic TeV photons in realistic extragalactic magnetic fields

Thursday, 7 June 2018 17:35 (25 minutes)

Contribution ID: 46

Type: **not specified**

B. Patricelli: Prospects for joint GW and gamma-ray EM observations of binary neutron star mergers

Thursday, 7 June 2018 18:00 (25 minutes)

Contribution ID: 47

Type: **not specified**

A. Grado: The search of GW optical counterpart in the Multi-Messenger Astronomy Era

Thursday, 7 June 2018 18:25 (25 minutes)

Contribution ID: 48

Type: **not specified**

S. Yang: Gravitational wave optical counterpart searching based on GRAWITA and DLT40 project

Thursday, 7 June 2018 18:50 (25 minutes)