

LISA Astrophysics Working Group Workshop

Report of Contributions

Contribution ID: 6

Type: **not specified**

Overview of the Astrophysics Working Group

Wednesday, 12 December 2018 14:20 (25 minutes)

Session Classification: Welcome

Contribution ID: 9

Type: **not specified**

Overview of the LISA consortium

Wednesday, 12 December 2018 14:00 (20 minutes)

Presenter: MARTIN HEWITSON

Session Classification: Welcome

Contribution ID: 11

Type: **not specified**

Extremely loud Extreme-Mass Ratio Inspirals

Wednesday, 12 December 2018 14:45 (15 minutes)

Presenter: PAU AMARO SEOANE

Session Classification: EMRIs and galactic centers

Contribution ID: 12

Type: **not specified**

Modeling gravitational waveforms from extended spinning test bodies in EMRIs

Wednesday, 12 December 2018 15:00 (15 minutes)

Presenter: GEORGIOS LOUKES GERAKOPOULOS

Session Classification: EMRIs and galactic centers

Contribution ID: 13

Type: **not specified**

Can supernova kicks trigger EMRIs in the Galactic Centre?

Wednesday, 12 December 2018 15:15 (15 minutes)

Presenter: ELISA BORTOLAS

Session Classification: EMRIs and galactic centers

Contribution ID: 14

Type: **not specified**

Black hole binary mergers in galactic nuclei

Wednesday, 12 December 2018 15:30 (15 minutes)

Presenter: MANUEL ARCA SEDDA

Session Classification: EMRIs and galactic centers

Contribution ID: 15

Type: **not specified**

A new type of extreme-mass-ratio inspirals produced by tidal capture of binary black holes

Wednesday, 12 December 2018 15:45 (15 minutes)

Presenter: WEN-BIAO HAN

Session Classification: EMRIs and galactic centers

Contribution ID: 16

Type: **not specified**

Probing the vicinity of the Galactic Center black hole with LISA

Wednesday, 12 December 2018 16:00 (15 minutes)

Presenter: ERIC GOURGOULHON

Session Classification: EMRIs and galactic centers

Contribution ID: 17

Type: **not specified**

Probing gas disc physics with LISA

Wednesday, 12 December 2018 16:45 (15 minutes)

Presenter: ANDREA DERDZINSKI

Session Classification: EMRIs and galactic centers

Contribution ID: **18**

Type: **not specified**

Discussion

Wednesday, 12 December 2018 17:00 (40 minutes)

Session Classification: EMRIs and galactic centers

Contribution ID: 19

Type: **not specified**

Circumbinary exoplanets: a new science case for LISA

Wednesday, 12 December 2018 17:40 (15 minutes)

Presenter: NICOLA TAMANINI

Session Classification: Additional/New science with LISA

Contribution ID: 20

Type: **not specified**

Testing modified gravity with gravitational waves

Wednesday, 12 December 2018 17:55 (15 minutes)

Presenter: CLAUDIA DE RHAM

Session Classification: Additional/New science with LISA

Contribution ID: **21**

Type: **not specified**

Discussion

Wednesday, 12 December 2018 18:10 (20 minutes)

Session Classification: Additional/New science with LISA

Contribution ID: 22

Type: **not specified**

Dynamically creating stellar-mass LISA Sources in Globular Clusters

Thursday, 13 December 2018 09:30 (15 minutes)

Presenter: KYLE KREMER

Session Classification: Stellar binaries

Contribution ID: 23

Type: **not specified**

Predicting compact binaries from cosmological simulations

Thursday, 13 December 2018 09:00 (15 minutes)

Presenter: ASTRID LAMBERTS

Session Classification: Stellar binaries

Contribution ID: 24

Type: **not specified**

Predicting the effective inspiral spin parameter distribution of binary black-hole mergers detected by current and future gravitational waves observatories

Thursday, 13 December 2018 09:15 (15 minutes)

Presenter: SIMONE BAVERA

Session Classification: Stellar binaries

Contribution ID: 25

Type: **not specified**

Building GW170608

Thursday, 13 December 2018 09:45 (15 minutes)

Presenter: ED PORTER ET AL

Session Classification: Stellar binaries

Contribution ID: 26

Type: **not specified**

Discussion

Thursday, 13 December 2018 10:00 (40 minutes)

Session Classification: Stellar binaries

Contribution ID: 27

Type: **not specified**

MBH triplets as LISA sources

Thursday, 13 December 2018 11:10 (15 minutes)

Presenter: MATTEO BONETTI

Session Classification: Massive black hole binaries - dynamics

Contribution ID: 28

Type: **not specified**

Post-Newtonian dynamical modelling of supermassive black holes in global large-scale simulations: First applications of the KETJU code

Thursday, 13 December 2018 11:25 (15 minutes)

Presenter: PETER JOHANSSON

Session Classification: Massive black hole binaries - dynamics

Contribution ID: 29

Type: **not specified**

Formation of LISA Black Hole Binaries in Merging Dwarf Galaxies: the Imprint of Dark Matter

Thursday, 13 December 2018 11:40 (15 minutes)

Presenter: TOMAS TAMFAL

Session Classification: Massive black hole binaries - dynamics

Contribution ID: **30**

Type: **not specified**

Massive black hole binaries in circumnuclear discs

Thursday, 13 December 2018 11:55 (15 minutes)

Presenter: ALESSANDRO LUPI

Session Classification: Massive black hole binaries - dynamics

Contribution ID: **31**

Type: **not specified**

Discussion

Thursday, 13 December 2018 12:10 (40 minutes)

Session Classification: Massive black hole binaries - dynamics

Contribution ID: 32

Type: **not specified**

Gravitational waves from the first black holes

Thursday, 13 December 2018 15:50 (15 minutes)

Presenter: ROSA VALIANTE

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: 33

Type: **not specified**

Cosmological simulations of supermassive black holes binaries: spin evolution, coalescence time-scale and merger rate

Thursday, 13 December 2018 16:05 (15 minutes)

Presenter: DEBORA SIJACKI

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: 34

Type: **not specified**

When and where? Predicting the frequency and environment of black hole mergers

Thursday, 13 December 2018 16:20 (15 minutes)

Presenter: SILVIA BONOLI

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: 35

Type: **not specified**

The lonely life of high redshift black holes

Thursday, 13 December 2018 17:05 (15 minutes)

Presenter: HUGO PFISTER

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: 36

Type: **not specified**

Displaced by Mergers: Wandering black holes in MARVEL-ous dwarf galaxies

Thursday, 13 December 2018 17:20 (15 minutes)

Presenter: JILLIAN BELLOVARY

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: 37

Type: **not specified**

The role of gravitational recoil in the assembly of direct collapse massive black hole seeds

Thursday, 13 December 2018 17:35 (15 minutes)

Presenter: GLENNA DUNN

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: **38**

Type: **not specified**

Discussion

Thursday, 13 December 2018 17:50 (40 minutes)

Session Classification: Massive black hole binaries - cosmic evolution

Contribution ID: 39

Type: **not specified**

The electromagnetic chirp of a supermassive black hole binary

Friday, 14 December 2018 09:30 (15 minutes)

Presenter: ZOLTAN HAIMAN

Session Classification: EM counterparts

Contribution ID: 40

Type: **not specified**

Multimessenger observations of Massive black hole binaries

Friday, 14 December 2018 09:45 (15 minutes)

Presenter: ALBERTO SESANA

Session Classification: EM counterparts

Contribution ID: 41

Type: **not specified**

Spectroscopic Signatures of Subparsec Binary Supermassive Black Holes

Friday, 14 December 2018 10:00 (15 minutes)

Presenter: TAMARA BOGDANOVIC

Session Classification: EM counterparts

Contribution ID: 42

Type: **not specified**

Accretion discs around supermassive black hole binaries: non-steady long-term evolution and second decoupling

Friday, 14 December 2018 10:15 (15 minutes)

Presenter: CAMILO FONTECILLA

Session Classification: EM counterparts

Contribution ID: 43

Type: **not specified**

The LISA Science Group Multimessenger-Multiband Team

Friday, 14 December 2018 11:30 (15 minutes)

Presenter: JOHN BAKER

Session Classification: EM counterparts

Contribution ID: 44

Type: **not specified**

Multimessenger Double White Dwarf binaries in the Local Universe

Friday, 14 December 2018 11:15 (15 minutes)

Presenter: ELENA MARIA ROSSI

Session Classification: EM counterparts

Contribution ID: 45

Type: **not specified**

Lighting Up Magnetized Mini-Disk Simulations about Binary Black Holes

Friday, 14 December 2018 11:00 (15 minutes)

Presenter: SCOTT NOBLE

Session Classification: EM counterparts

Contribution ID: 46

Type: **not specified**

Discussion

Friday, 14 December 2018 11:45 (40 minutes)

Session Classification: EM counterparts