

# **7th LISA Cosmology Working Group Workshop**

## **Report of Contributions**

Contribution ID: 16

Type: **not specified**

## **Standard Sirens and tests of Modified Gravity**

*Monday, September 23, 2019 11:30 AM (30 minutes)*

**Presenter:** TASINATO, G.

Contribution ID: 17

Type: **not specified**

## **Statistical techniques to measure cosmological parameters with Standard Sirens**

*Monday, September 23, 2019 12:00 PM (30 minutes)*

**Presenter:** FOFFA, S.

Contribution ID: **18**

Type: **not specified**

## **Constraints on DHOST: GWs, Vainshtein and Cosmology**

*Monday, September 23, 2019 12:30 PM (20 minutes)*

**Presenter:** CRISOSTOMI, M.

Contribution ID: 19

Type: **not specified**

## **LISA and the Ground: the Multi-Band Promise**

*Monday, September 23, 2019 2:30 PM (30 minutes)*

**Presenter:** KOVETZ, E.

Contribution ID: **20**

Type: **not specified**

## **GWxLSS and PBH**

*Monday, September 23, 2019 3:00 PM (30 minutes)*

**Presenter:** RACCANELLI, A.

Contribution ID: 21

Type: **not specified**

## **LISA Serendipity**

*Monday, September 23, 2019 3:30 PM (30 minutes)*

**Presenter:** FRANCIOLINI, G.

Contribution ID: 22

Type: **not specified**

## **Detecting or ruling out massive primordial black holes with LISA**

**Presenter:** CLESSE, S.

**Session Classification:** Parallel discussions



Contribution ID: 23

Type: **not specified**

## **Detecting or ruling out massive primordial black holes with LISA**

*Monday, September 23, 2019 4:30 PM (20 minutes)*

**Presenter:** CLESSE, S.

Contribution ID: 24

Type: **not specified**

## **Gravitational Waves in the LISA band from Bouncing Cosmology**

*Monday, September 23, 2019 4:50 PM (20 minutes)*

**Presenter:** BEN-DAYAN, I.

Contribution ID: 25

Type: **not specified**

## **Adiabatic media inflation and primordial gravitational waves**

*Monday, September 23, 2019 5:10 PM (20 minutes)*

**Presenter:** CELORIA, M.

Contribution ID: 26

Type: **not specified**

## **Constraining the inflationary field content**

*Monday, September 23, 2019 5:30 PM (20 minutes)*

**Presenter:** IACCONI, L.

Contribution ID: 27

Type: **not specified**

## **Update on SGWB from Inflation**

*Tuesday, September 24, 2019 9:30 AM (30 minutes)*

**Presenter:** BARTOLO, N.

Contribution ID: 28

Type: **not specified**

## **SGWB characterisation and non-Gaussianity**

*Tuesday, September 24, 2019 10:00 AM (30 minutes)*

**Presenter:** PELOSO, M.

Contribution ID: 29

Type: **not specified**

## **Theoretical aspects of SGWB Anisotropies**

*Tuesday, September 24, 2019 10:30 AM (30 minutes)*

**Presenter:** BERTACCA, D.

Contribution ID: **30**

Type: **not specified**

## **Spectral Reconstruction of the SGWB**

*Tuesday, September 24, 2019 11:30 AM (30 minutes)*

**Presenter:** PIERONI, M.



Contribution ID: 31

Type: **not specified**

## **Blind SGWB detection technique**

*Tuesday, September 24, 2019 12:00 PM (30 minutes)*

**Presenter:** KARNESIS, N.

Contribution ID: 32

Type: **not specified**

## **Mapping the gravitational wave intensity on the sky with LISA**

*Tuesday, September 24, 2019 12:30 PM (30 minutes)*

**Presenter:** RENZINI, A.

Contribution ID: 33

Type: **not specified**

## **Formation and Abundance of Primordial Black Holes**

*Wednesday, September 25, 2019 9:30 AM (20 minutes)*

**Presenter:** MUSCO, I.

Contribution ID: 34

Type: **not specified**

## **Primordial GW and galaxy intrinsic alignments**

*Wednesday, September 25, 2019 9:50 AM (20 minutes)*

**Presenter:** ORLANDO, G.

Contribution ID: 35

Type: **not specified**

# **Anisotropies of the astrophysical gravitational wave background: astrophysical dependencies in the LISA band**

*Wednesday, September 25, 2019 10:10 AM (20 minutes)*

**Presenter:** CUSIN, G.

Contribution ID: 36

Type: **not specified**

## **Mapping the gravitational wave intensity on the sky with LISA**

**Presenter:** RENZINI, A.

Contribution ID: 37

Type: **not specified**

## **Report on phase transition project**

*Thursday, September 26, 2019 9:30 AM (30 minutes)*

**Presenter:** SCHWALLER, P.

Contribution ID: **38**

Type: **not specified**

## Summary of Nordita workshop

*Thursday, September 26, 2019 10:00 AM (30 minutes)*

**Presenter:** HINDMARSH, M.



Contribution ID: 39

Type: **not specified**

## **Report Topological Defects project**

*Thursday, September 26, 2019 10:30 AM (30 minutes)*

**Presenter:** FIGUEROA, D.

Contribution ID: 40

Type: **not specified**

## **Solitosynthesis and gravitational waves**

*Thursday, September 26, 2019 11:30 AM (20 minutes)*

**Presenter:** WHITE, G.

Contribution ID: 41

Type: **not specified**

## **Strong first-order phase transitions: Vorticity, droplets and gravitational waves**

*Thursday, September 26, 2019 11:50 AM (20 minutes)*

**Presenter:** CUTTING, D.

Contribution ID: 42

Type: **not specified**

## **Gravitational wave energy budget in strongly supercooled phase transitions**

*Thursday, September 26, 2019 12:10 PM (20 minutes)*

**Presenter:** LEWICKI, M.

Contribution ID: 43

Type: **not specified**

## **Gravitational waves from first-order phase transitions: from the lattice to LISA**

*Thursday, September 26, 2019 12:30 PM (20 minutes)*

**Presenter:** KOZACZUK, J.

Contribution ID: 44

Type: **not specified**

# Primordial Non-Gaussianity in Gravitational Wave Spectrum

*Monday, September 23, 2019 5:50 PM (20 minutes)*

**Presenter:** UNAL, C.

Contribution ID: 45

Type: **not specified**

## **Consortium and LIG status**

*Wednesday, September 25, 2019 11:00 AM (30 minutes)*

**Presenter:** HEWITSON, M.

Contribution ID: 46

Type: **not specified**

## **LISA Science Group status**

*Wednesday, September 25, 2019 12:00 PM (30 minutes)*

**Presenter:** ROSSI, E. M.



Contribution ID: 47

Type: **not specified**

## **LDPG + LDC status**

*Wednesday, September 25, 2019 11:30 AM (30 minutes)*

**Presenter:** PETITEAU, A.

Contribution ID: 48

Type: **not specified**

## **Key science WP and catalogue WP**

*Wednesday, September 25, 2019 2:30 PM (1 hour)*

**Presenter:** BARAUSSE E. AND SESANA A.

Contribution ID: 49

Type: **not specified**

## **Discussion on modified gravity**

*Tuesday, September 24, 2019 2:40 PM (1h 20m)*

**Presenter:** TASINATO, G.

**Session Classification:** Parallel discussions

Contribution ID: 50

Type: **not specified**

## **Discussion on anisotropies**

*Tuesday, September 24, 2019 2:40 PM (1h 20m)*

**Presenter:** RICCIARDONE, Angelo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Parallel discussions

Contribution ID: 51

Type: **not specified**

## Discussion on Binner code

*Tuesday, September 24, 2019 2:40 PM (1h 20m)*

**Presenter:** PIERONI, Mauro

**Session Classification:** Parallel discussions

Contribution ID: 52

Type: **not specified**

## **General introduction to discussions (main auditorium)**

**Session Classification:** Parallel discussions

Contribution ID: 53

Type: **not specified**

## Discussion on anisotropies

*Tuesday, September 24, 2019 4:30 PM (1h 30m)*

**Presenter:** RENZINI, Arianna (Imperial College London)

**Session Classification:** Parallel discussions

Contribution ID: 54

Type: **not specified**

## **Discussion on modified gravity**

*Tuesday, September 24, 2019 4:30 PM (1h 30m)*

**Presenter:** TASINATO, G.

**Session Classification:** Parallel discussions



Contribution ID: 55

Type: **not specified**

## Discussion on PBH

*Tuesday, September 24, 2019 4:30 PM (1h 30m)*

**Presenter:** CLESSE, Sebastien (Louvain U. & Namur U.)

**Session Classification:** Parallel discussions

Contribution ID: 56

Type: **not specified**

## **Discussion on SGWB parameter estimation**

*Wednesday, September 25, 2019 4:30 PM (1h 30m)*

**Presenter:** NARDINI, Germano (University of Bern)

**Session Classification:** Parallel discussions

Contribution ID: 57

Type: **not specified**

## **Discussion on anisotropies**

*Wednesday, September 25, 2019 4:30 PM (1h 30m)*

**Presenter:** RICCIARDONE, Angelo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Parallel discussions

Contribution ID: 58

Type: **not specified**

## Discussion on PBH

*Wednesday, September 25, 2019 4:30 PM (1h 30m)*

**Presenter:** GARCIA-BELIDO, Juan

**Session Classification:** Parallel discussions

Contribution ID: 59

Type: **not specified**

## **Discussion on modified gravity**

*Wednesday, September 25, 2019 4:30 PM (1h 30m)*

**Presenter:** TASINATO, G.

**Session Classification:** Parallel discussions

Contribution ID: **60**

Type: **not specified**

## **Discussion on SGWB parameter estimation**

**Presenter:** NARDINI, Germano (University of Bern)

**Session Classification:** Parallel discussions

Contribution ID: **61**

Type: **not specified**

## **Discussion on SGWB parameter estimation**

*Thursday, September 26, 2019 4:30 PM (1h 30m)*

**Presenter:** NARDINI, Germano (University of Bern)

**Session Classification:** Parallel discussions

Contribution ID: **62**

Type: **not specified**

## **Discussion on anisotropies (data)**

*Thursday, September 26, 2019 4:30 PM (1h 30m)*

**Presenter:** RENZINI, Arianna (Imperial College London)

**Session Classification:** Parallel discussions



Contribution ID: **63**

Type: **not specified**

## **Discussion on PBH**

*Thursday, September 26, 2019 4:30 PM (1h 30m)*

**Presenter:** CLESSE, Sebastien (Louvain U. & Namur U.)

**Session Classification:** Parallel discussions

Contribution ID: **64**

Type: **not specified**

## **Discussion on anisotropies (theory)**

*Thursday, September 26, 2019 4:30 PM (1h 30m)*

**Presenter:** RICCIARDONE, Angelo (Istituto Nazionale di Fisica Nucleare)

**Session Classification:** Parallel discussions

Contribution ID: 65

Type: **not specified**

## Discussion on modified gravity

*Thursday, September 26, 2019 4:30 PM (1h 30m)*

**Presenter:** TASINATO, G.

**Session Classification:** Parallel discussions