

10th LISA Cosmology Working Group Workshop

Monday, 5 June 2023

Talks (14:00 - 15:30)

time	[id] title	presenter
14:00	[42] Status of the LISA mission	PETITEAU, Antoine
14:30	[43] The LISA Red Book	CAPRINI, Chiara
15:00	[44] Presentation of new CosWG collaborative rules	COSWG CHAIRS

Tuesday, 6 June 2023

Talks (09:00 - 10:30)

time	[id] title	presenter
09:00	[25] Gravitational Wave Propagation Beyond GR	BAKER, Tessa
09:30	[22] Gravitational wave signals from cosmological phase transitions and cosmic strings	LEWICKI, Marek
10:00	[33] Cosmic string parameter estimation with SGWBinner	WACHTER, Jeremy
10:15	[37] Update on the cosmic strings parameter estimation project	SOUSA, Lara

Talks (11:00 - 12:30)

time	[id] title	presenter
11:00	[2] The SGWB produced by MHD turbulence in the early universe	ROPER POL, Alberto
11:15	[39] First-order phase transition SGWB in LISA: template databank, reconstruction pipeline and science interpretation	MADGE, Eric
11:30	[10] The PBH Review	Prof. GARCIA-BELLIDO, Juan
12:00	[21] PrimBHoles: a public code for the computation of Primordial Black Hole abundances and GW signatures	CLESSE, Sebastien

Talks (14:00 - 15:30)

time	[id] title	presenter
14:00	[45] On the inference of cosmological parameters with gravitational waves	DEL POZZO, Walter
14:30	[30] Cosmological constraints from the 3rd observing run of Advanced LIGO, Virgo and KAGRA	GRAY, Rachel
15:00	[20] LISA data analysis: from measurements to discoveries	BAGHI, Quentin

Talks (16:00 - 18:00)

time	[id] title	presenter
16:00	[29] Lensing of Gravitational Waves	LAGOS, Macarena
16:30	[28] Parameter estimation for inflationary gravitational wave stochastic backgrounds	BRAGLIA, Matteo
16:45	[27] Inflationary Stochastic Gravitational wave Background in LISA	FUMAGALLI, Jacopo
17:00	[40] A review on Astrophysical Stochastic signals measured by LISA	KARNESIS, Nikolaos
17:30	[47] GWSB anisotropies: Challenges and Opportunities	CONTALDI, Carlo

Wednesday, 7 June 2023

Talks (09:00 - 09:30)

time	[id] title	presenter
09:00	[46] Cosmology with Einstein Telescope	RICCIARDONE, Angelo

Talks (14:00 - 15:30)

time	[id] title	presenter
14:00	[24] Constraining the expansion of the Universe with massive black hole binaries	MANGIAGLI, Alberto
14:23	[38] Gravitational wave cosmology with LISA Standard sirens	LAGHI, Danny
14:45	[35] Modified gravitational-wave propagation with extreme mass-ratio inspirals	LIU, Chang
15:00	[19] On the effectiveness of null TDI channels as instrument noise monitors in LISA	HARTWIG, Olaf
15:15	[3] Stochastic gravitational wave background reconstruction for a non-equilateral and unequal-noise LISA constellation	LILLEY, Marc

Talks (16:00 - 17:30)

time	[id] title	presenter
16:00	[11] Impact of the noise knowledge uncertainty for the science exploitation of cosmological and astrophysical stochastic gravitational wave background with LISA	MURATORE, Martina
16:15	[36] Recovering Primordial Stochastic Gravitational Wave Backgrounds in the LISA Global Fit	ROSATI, Robert
16:30	[9] Doppler-boosted anisotropies of SGWB and LISA: a lever of separation from instrumental and confusion noise.	INCHAUSPÉ, Henri
16:45	[14] Reconstructing phase transitions from future LISA data	HOOPER, Deanna
17:00	[1] Computation of stochastic background from extreme mass ratio inspiral populations for LISA	POZZOLI, Federico
17:15	[5] Parity violation from anisotropies in gravitational waves V modes	ORLANDO, Giorgio

Thursday, 8 June 2023

Talks (09:00 - 09:50)

time	[id] title	presenter
09:00	[41] Primordial Gravitational Waves from Axion-Gauge Fields Dynamics	FASIELLO, Matteo
09:20	[34] Probing Primordial Black Holes and Inflation with LISA	FRANCIOLINI, Gabriele

Talks (14:10 - 15:30)

time	[id] title	presenter
14:10	[16] Status of hydrodynamical simulations of early universe phase transitions	WEIR, David
14:30	[8] Gravitational waves from primordial black holes	VEERMAE, Hardi
14:45	[4] Primordial Gravitational Waves in non-Minimally Coupled Chromo-Natural Inflation	Mr MICHELOTTI, Martino
15:00	[31] SGWB anisotropies from inflation with non-Bunch-Davies initial states	AKAMA, Shingo
15:15	[18] Maximal temperature of strongly-coupled dark sectors	KOLESOVA, Helena

Talks (16:00 - 17:15)

time	[id] title	presenter
16:00	[13] Improving predictions for thermal bubble nucleation	GOULD, Oliver
16:15	[12] General relativistic bubble growth in cosmological phase transitions	GIOMBI, Lorenzo
16:30	[6] Audible Gravitational Echoes of New Physics	MORAIS, António
16:45	[17] Correlating new physics searches at colliders with a possible gravitational-wave detection	PASECHNIK, Roman
17:00	[15] Cosmological gravitational wave anisotropies from adiabatic and isocurvature perturbations	DIMASTROGIOVANNI, Ema