

Riccardo Buscicchio | Presentations

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Presentations: 21 talks at conferences, 10 talks at department seminars,

Invited talks marked with *.

Talks at conferences:

21. *LISA stellar-mass black holes informed by the GWTC-3 population: event rates and parameters reconstruction.*
15th International LISA Symposium, Dublin, Ireland, Jul 2024.
- 20.* *LISA data analysis: from the stochastic background to the Milky Way.*
11th LISA Cosmology Working Group Workshop, Porto, Portugal, Jun 2024.
- 19.* *An introduction to Bayesian Inference.*
International Pulsar Timing Array Student Week, Milan, Italy, Jun 2024.
- 18.* *Statistical challenges in LISA data analysis.*
LAUTARO joint meeting, GSSI-University of Milano-Bicocca, Milano, Italy, Apr 2024.
17. *From mHz to kHz: stochastic background implications on astrophysical sources and population reconstruction.*
LISA Astrophysics working group workshop, University of Milano-Bicocca, Milano, Italy, Sept 2023.
16. *Non-gaussian gravitational wave backgrounds across the GW spectrum.*
XXV Sigrav conference on general relativity and gravitation, SISSA, Trieste, Italy, Sept 2023.
- 15.* *LISA SGWB data analysis (session chair).*
Data Analysis Challenges for SGWB Workshop, CERN, Geneva, Switzerland, Jul 2023.
- 14.* *Global Fit and foregrounds.*
LISA SGWB detection brainstorming, Univ. of Geneva, Geneva, Switzerland, Jul 2023.
- 13.* *Beyond functional forms: non-parametric methods. (panelist talk).*
Gravitational-wave populations: What's next?, Milano-Bicocca, IT, Jul 2023.
12. *The last three years : multiband gravitational-wave observations of stellar-mass binary black holes.*
LISA Astrophysics working group workshop, University of Birmingham, Birmingham, UK, Jun 2022.
11. *The last three years : multiband gravitational-wave observations of stellar-mass binary black holes.*
American Physical Society (APS) April meeting, New York (NY), USA, Apr 2022.
10. *Bayesian parameter estimation of stellar-mass black-hole binaries with LISA.*
XXIV Sigrav conference on general relativity and gravitation, Urbino, Italy, Sept 2021.
9. *Chirp: a web and smartphone application for visualization of gravitational-wave alerts.*
(remote) 14th Amaldi Conference on Gravitational Waves, Jul 2021.
8. *Milky Way Satellites Shining Bright in Gravitational Waves.*
(remote) 13th LISA Symposium, Sept 2020.
7. *Constraining the Lensing of Binary Black Holes from Their Stochastic Background.*
LISA Sprint workshop, Center for Computational Astrophysics, Flatiron Institute, New York (NY), USA, Mar 2020.
6. *Multiple source detection in GW astronomy: the label switching problem.*
30th Texas Symposium, University of Portsmouth, Portsmouth, UK, Dec 2019.
5. *Non-gaussian Stochastic background search with importance sampling.*
LIGO, Virgo, KAGRA March meeting, Lake Geneva Wisconsin, Milwaukee, USA, Mar 2019.
4. *Hierarchical nonparametric density estimation for population inference.*
LIGO, Virgo, KAGRA September meeting, Warsaw, Poland, Sept 2019.
3. *An improved detector for non-Gaussian stochastic background.*
Stochastic Background Data Analysis for LISA meeting, Instituto de Fisica Teorica, Madrid, Spain, Jan 2019.
2. *Fast Evaluation of Campbell processes N-point correlation functions.*
Astro Hack Week: Data Science for Next-Generation Astronomy, Lorentz Center, Leiden, The Netherlands, Aug 2018.
1. *Stochastic Gravitational Wave Background Data Analysis for Radler.*
5th LISA Cosmology Working Group workshop, Physicum, University of Helsinki, Helsinki, Finland, Jun 2018.

Talks at department seminars:

- 10.* *Statistical challenges in GW inference: an application of field theory to direct population reconstruction in LISA.*
APP seminar, SISSA, Trieste, Italy, May 2024.
- 9.* *GRAF: Gravitational waves data and global fit.*
Department of Physics, University of Milano-Bicocca, Milan, Italy, Dec 2023.
- 8.* *LISA global inference: statistical and modelling challenges for the Milky Way.*
Max Planck Institute for Astrophysics, Munchen, Germany, Nov 2023.
- 7.* *LISA Global inference: modelling, statistical, and computational challenges.*
Department of Physics, University of Pisa, Pisa, Italy, Oct 2023.
- 6.* *Gravitational waves in the many sources, many detectors era.*
Institute for Mathematics and Physics, University of Stavanger, Stavanger, Norway, Apr 2023.
- 5.* *The last three years: multiband gravitational-wave observations of stellar-mass binary black holes.*
Physics Department, Columbia University, New York (NY), USA, 2022.
- 4.* *Stellar mass binary black holes : what, when, and where.*
Astroparticule et cosmologie, Université Paris Cité, Paris, France, (remote) 2022.
3. *Search for lensing signatures in the gravitational-wave observations from the first half of LIGO-Virgo's third observing run.*
(remote, on behalf of the LVK collaboration) 2nd European Physical Society Conference on Gravitation, Jul 2021.
- 2.* *Set the alarm : Bayesian parameter estimation of stellar-mass black-hole binaries with LISA.*
(remote) Sun Yat-sen University, Zhuhai, China, 2021.
1. *Bayesian parameter estimation of stellar-mass black-hole binaries with LISA.*
(remote) LISA Data Analysis Conference, 2021.