Lorenzo Speri | Presentations

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Presentations: 14 talks at conferences, 9 talks at department seminars.

Invited talks marked with *.

Talks at conferences:

14. Exploring Transdimensional Sampling Techniques for Euclid Data Analysis: Insights from Gravitational Wave Astronomy.

ESLAB Symposium and Euclid Consortium Meeting, Leiden, 2025/03/25.

13. Prospects and Challenges of the Laser Interferometer Space Antenna. Space Science Workshop 17, Akersloot, Netherlands, 2025/02/12.

12.* LISA data analysis highlight.

LISA-Netherlands Community Day, Nikhef, Amsterdam, 2024/10/10.

11. FastEMRIWaveforms: Waveform package for asymmetric binaries. 15th LISA Symposium, Dublin, Ireland, 2024/07/09.

10.* Challenges and prospects of future Pulsar Timing Array analyses.

11th LISA Cosmology Working Group Workshop, Porto, Portugal, 2024/06/20.

9.* Gravitational self-force: The two-body problem in the small mass ratio limit. GWnext 2024, Bejing, China, 2024/03/05.

8.* Testing General Relativity with LISA observations.

Asymmetric Binaries Meet Fundamental Astrophysics, L'Aquila, Italy, 2023/09/22.

7. Beyond vacuum Extreme Mass Ratio Inspirals.

1st Trieste Meeting on the Physics of Gravitational Waves, Trieste, Italy, 2023/06/09.

- Tutorial session.
- **6.** Fast EMRI Waveform package: New tools for millihertz gravitational-wave data analysis. LISA data analysis workshop: from classical methods to machine learning, Toulouse, France, 2022/11/25.
- 5.* GPU Techniques to Accelerate GW Waveforms and Data Analysis Computations.

 LISA data analysis workshop: from classical methods to machine learning, Toulouse, France, 2022/11/25.
- Tutorial session.
- Probing accretion disk physics with Extreme Mass Ratio Inspirals.
 25th Capra Meeting on Radiation Reaction in General Relativity, Dublin, Ireland, 2022/06/23.
- 3. Testing General Relativity with Extreme Mass Ratio Inspirals.

EuCAPT Workshop: Gravitational wave probes of black hole environments, Rome, Italy, 2022/06/16.

2. Assessing the impact of transient orbital resonances.

24th Capra Meeting on Radiation Reaction in General Relativity, Online, 2021/06/11.

1. Pulsar selection methods.

EPTA spring meeting, Online, 2021/03/24.

Talks at department seminars:

9.* Millihertz Gravitational Waves: Challenges and opportunities in the LISA Era.

Quantum and Gravity Seminar, Radboud University, Nijmegen, the Netherlands, 2024/04/23.

8.* Science with asymmetric binaries.

University of Southampton, Southampton, 2025/03/05.

7.* Millihertz Gravitational Waves: Challenges and Opportunities in the LISA Era. Perimeter Institute, Waterloo, 2025/01/30.

6. The Dark Symphony of the Universe: Gravitational Waves.

European Space Research and Technology Centre (ESTEC), Noordwijk, 2025/01/14.

5.* Challenges of LISA Data Analysis.

Institute for Gravitational and Subatomic Physics (GRASP), Utrecht, 2024/12/11.

- **4.*** Gravitational Wave Observations in the Millihertz Regime: Prospects and Challenges of the Upcoming LISA Mission. GRAPPA Colloquium, Amsterdam, 2024/11/11.
- **3.*** With great precision comes great challenges: Gravitational Wave Observations of Extreme Mass Ratio Inspirals. TAPIR Seminar, Caltech, Pasadena, 2023/12/08.

- **2.*** Probing Accretion Physics with Gravitational Waves. OzGrav Seminar, online, 2023/08/11.
- **1.*** Extreme Mass Ratio Inspiral Waveforms in a nutshell. of Amsterdam, Amsterdam, Netherlands, 2023/01.
 - Two tutorial sessions of two hours each.