

Lorenzo Speri | Presentations

lorenzo.speri@esa.int • <https://lorenzsp.github.io/> • March 8, 2025

Presentations: 13 talks at conferences, 8 talks at department seminars.

Invited talks marked with *.

Talks at conferences:

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, Beijing, 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.
4. *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:

- 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.