

## PUBLICATIONS

---

### Publications in peer-reviewed journals

---

- [1] **D. Trestini**, “Quasi-Keplerian parametrization for eccentric compact binaries in scalar-tensor theories at second post-Newtonian order and applications,” *Phys. Rev. D* **109**, 104003 (2024), arXiv:2401.06844
- [2] L. Blanchet, G. Faye, Q. Henry, F. Larrouturnou and **D. Trestini**, “Gravitational-Wave Phasing of Quasicircular Compact Binary Systems to the Fourth-and-a-Half Post-Newtonian Order,” *Phys. Rev. Lett.* **131**, 121402 (2023) [Editors’ Suggestion], arXiv:2304.11185.
- [3] L. Blanchet, G. Faye, Q. Henry, F. Larrouturnou and **D. Trestini**, “Gravitational-Wave Phasing of Quasicircular Compact Binary Systems to the Fourth-and-a-Half Post-Newtonian Order,” *Phys. Rev. D* **108**, 064041 (2023) [Editors’ Suggestion], arXiv:2304.11186.
- [4] **D. Trestini** and L. Blanchet, “Gravitational-wave tails of memory”, *Phys. Rev. D* **107**, 104048 (2023), arXiv:2301.09395
- [5] **D. Trestini**, F. Larrouturnou and L. Blanchet, “The quadrupole moment of compact binaries to the fourth post-Newtonian order: relating the harmonic and radiative metrics”, *Class. Quant. Grav.* **40**, 055006 (2023), arXiv:2209.02719
- [6] L. Bernard, L. Blanchet and **D. Trestini**, “Gravitational waves in scalar-tensor theory to one-and-a-half post-Newtonian order”, *JCAP* **08** (2022) 008, arXiv:2201.10924

### Other publications

---

- [1] L. Blanchet, G. Faye and **D. Trestini**, “Gravitational radiation reaction for compact binary systems at the fourth-and-a-half post-Newtonian order,” arXiv:2407.18295
- [2] N. Warburton, B. Wardell, **D. Trestini**, Q. Henry, A. Pound, L. Blanchet, L. Durkan, G. Faye and J. Miller, “Comparison of 4.5PN and 2SF gravitational energy fluxes from quasicircular compact binaries,” arXiv:2407.00366
- [3] **D. Trestini**, “Gravitational radiation of compact binary systems in general relativity and in scalar-tensor theories,” Ph.D. thesis (Sorbonne Université, Paris, 2023), hal:tel-04224762
- [4] **D. Trestini** and L. Blanchet, “ Gravitational-wave tails of memory at 4PN order,” in *Proceedings of the 57th Rencontres de Moriond on Gravitation, La Thuile, Italy, 18-25 March 2023*, edited by E. Augé, J. Dumarchez and J. Trân Thanh Vân, pp. 235-239, arXiv:2306.00546
- [5] L. Blanchet, G. Faye, Q. Henry, F. Larrouturnou and **D. Trestini**, “Gravitational waves from compact binaries to the fourth post-Newtonian order,” in *Proceedings of the 57th Rencontres de Moriond on Gravitation, La Thuile, Italy, 18-25 March 2023*, edited by E. Augé, J. Dumarchez and J. Trân Thanh Vân, pp. 231-234, arXiv:2304.13647

- [6] **D. Trestini**, “Gravitational waves in scalar-tensor theory to one-and-a-half post-Newtonian order,” in *Proceedings of the 56th Rencontres de Moriond on Gravitation, La Thuile, Italy, 30 January - 6 February 2022*, edited by E. Augé, J. Dumarchez and J. Trân Thanh Vân, pp. 269-272, arXiv:2306.00540

#### Collaboration publications

---

- [1] N. Afshordi *et al.* [LISA Consortium Waveform Working Group], “Waveform Modelling for the Laser Interferometer Space Antenna,” arXiv:2311.01300.