

SHORT PRESENTATION OF RESEARCH TOPICS

INTEGRATED PHD IN MATHEMATICS

NOVEMBER 8, 2024

14:00 – 17:00

**Venue: P3.10,
Mathematics Building IST**

SCHEDULE

- 14:00** Brief introduction by the chairman
- 14:05** João Ribeiro, *Randomness, Codes, and Computation*
- 14:25** Pedro Lopes, *Structure of quandles*
- 14:45** Ricardo Schiappa, *Resurgence, random matrices, and strings*
- 15:05** Lina Oliveira, *Structure and representation of Tits-Kantor-Koecher Lie algebras of JB^* -triples*
- 15:25 – 15:45** COFFEE BREAK
- 15:45** João Pimentel Nunes, *Problems in geometric quantization*
- 16:05** Gabriel Cardoso, *Riemann-Hilbert problems, self-dual Yang-Mills equations and gravitational field equations*
- 16:25** Cristina Câmara, *Spaces of analytic functions and their operators*
- 16:45** José Matias, *Calculus of Variations applied to problems in the context of Continuum Mechanics*