Filipe Moura

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Contacts

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Research Interests

Theoretical and Mathematical Physics. Gravitation. Quantum information.

Academic Qualifications

University/Institution	Type	Degree	Period
Universidade do Minho - Escola de Engenharia	Advanced Studies	Programação de Computadores	2016
State University of New York at Stony Brook	PhD	Theoretical Physics	2003
Universidade de Lisboa - Instituto Superior Tecnico	Licenciate	Engenharia Física Tecnológica	1997

External Professional Activities

Period	Employer	Country	Description
--	Fundação Calouste Gulbenkian	Portugal	Program "New Talents in Physics" 2024/25

Teaching Activities

Teaching Year	Sem.	Course Name	Degree(s)	Coord.
2025/2026	2º	Mathematics Topics for Telecommunications	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2025/2026	1º	Mathematical methods for computation	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Computer Engineering;	No
2024/2025	2º	Mathematics and Numerical Methods for Economics and Finance II	Doctorate Degree (PhD) in Economics; Doctorate Degree (PhD) in Finance;	Yes
2024/2025	2º	Mathematics Topics for Telecommunications	Bachelor Degree in Telecommunications and Computer Engineering;	Yes
2024/2025	2º	Optimization		Yes
2024/2025	1º	Linear Algebra Fundamentals	Bachelor Degree in Data Science (PL); Bachelor Degree in Data Science;	No
2023/2024	2º	Calculus II	Bachelor Degree in Computer Engineering (PL); Bachelor Degree in Telecommunications and Computer Engineering;	No
2023/2024	1º	Mathematical methods for computation	Bachelor Degree in Computer Engineering (PL);	No

Supervisions

• Post-doc Supervisions

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	Gonçalo Castro	Black hole physics	Portuguese	Instituto de Telecomunicações	2024

• M.Sc. Dissertations

- Ongoing

	Student Name	Title/Topic	Language	Status	Institution
1	Francisco Silva	Spectroscopy of accelerating black holes	English	Developing	Faculdade de Ciências, Universidade de Lisboa
2	Oskar Borgvall Gonzalez	Superradiance in Born-Infeld black holes	English	Developing	Instituto Superior Técnico, Universidade de Lisboa

- Concluded

	Student Name	Title/Topic	Language	Institution	Concluding Year
1	João Carlos Vieira Rodrigues	Quasinormal modes and greybody factors of string-theoretical black holes	English	Universidade de Coimbra	2020

Total Citations

Web of Science®	76
Scopus	75

Publications

• Scientific Journals

- Scientific journal paper

1	Moura, F. & Rodrigues, J. (2025). Greybody factors of string-corrected d-dimensional black holes. General Relativity and Gravitation. 57 (10)
2	Moura, F. & Rodrigues, J. (2023). The isospectrality of asymptotic quasinormal modes of large Gauss-Bonnet d-dimensional black holes. Nuclear Physics B. 993 - Times Cited Web of Science®: 12 - Times Cited Scopus: 12
3	Moura, F. & Rodrigues, J. (2021). Asymptotic quasinormal modes of string-theoretical d-dimensional black holes. Journal of High Energy Physics. 2021 (8) - Times Cited Web of Science®: 19 - Times Cited Scopus: 18
4	Moura, F. & Rodrigues, J. (2021). Eikonal quasinormal modes and shadow of string-corrected d-dimensional black holes. Physics Letters B. 819 - Times Cited Web of Science®: 40 - Times Cited Scopus: 40

5	Moura, F. (2019). Maximal angular correlation in y – y coincidences: a quantitative study . American Journal of Physics. 87 (8), 638-642 - Times Cited Web of Science®: 3 - Times Cited Scopus: 3
6	Moura, F. (2019). Dilatonic black holes in superstring gravity. Physical Review D. 99 (8) - Times Cited Web of Science®: 2 - Times Cited Scopus: 2

• Books and Book Chapters

- Book chapter

1	Moura, F. & Rodrigues, J. (2024). WKB Method and Quasinormal Modes of String-Theoretical D-Dimensional Black Holes. In Eleftherios Papantonopoulos; Nikolaos Mavromatos; (Ed.), Compact Objects in the Universe. (pp. 203-236). Cham: Springer Nature Switzerland.
2	Moura, F. (2010). Higher-order string effective actions and off-shell d=4 supergravity. In Stefano Bellucci (Ed.), The Attractor Mechanism.: Springer.

• Conferences/Workshops and Talks

- Talk

1	Moura, F. (2025). Greybody factors of string-theoretical d-dimensional black holes. 24th International Conference on General Relativity and Gravitation (GR24).
2	Moura, F. (2024). Greybody factors of string-theoretical d-dimensional black holes. Spanish and Portuguese Relativity Meeting EREP 2024.
3	Moura, F. (2024). Greybody factors of string-theoretical d-dimensional black holes. JGRG 33 - The 33rd Workshop on General Relativity and Gravitation in Japan .
4	Moura, F. (2023). Asymptotic quasinormal modes of Gauss-Bonnet d-dimensional black holes. Quantum Field Theory in Curved Spacetimes Workshop II.
5	Moura, F. (2023). Asymptotic quasinormal modes of Gauss-Bonnet d-dimensional black holes. Golden Wedding of Black Holes and Thermodynamics.
6	Moura, F. (2023). Greybody factors of string-theoretical d-dimensional black holes. XVI Black Holes Workshop.
7	Moura, F. (2022). Asymptotic quasinormal modes of Gauss-Bonnet d-dimensional black holes. Third European Physical Society Conference on Gravitation.
8	Moura, F. (2022). WKB method and quasinormal modes of string-theoretical d-dimensional black holes. Eleventh Aegean Summer School.
9	Moura, F. (2021). Eikonal quasinormal modes and shadow of string-corrected d-dimensional black holes. Seminar at University of Minho.
10	Moura, F. (2021). Asymptotic quasinormal modes of Gauss-Bonnet d-dimensional black holes. XIV Black Holes Workshop.

11	Moura, F. (2021). Eikonal quasinormal modes and shadow of string-corrected d-dimensional black holes. EREP2021 – Spanish–Portuguese Relativity Meeting.
12	Moura, F. (2019). Dilatonic black holes in superstring gravity. Seminar at University of Minho.

• Other Publications

- Other publications

1	Moura, F. (2018). O paradigma perturbativo e o legado de Feynman na Física contemporânea. Gazeta de Física.

- Newspaper article

1	Moura, F. (2018). O objeto da Física é o universo. Observador.
2	Moura, F. (2013). Supercordas: Unificação por fim?. Correio do Minho.

Research Projects

Project Title	Role in Project	Partners	Period
Black holes, gravitational waves and phase transitions	Local Coordinator	IT-Iscte, IT - Leader (Portugal)	2024 - 2026
Black holes, holography and phase transitions	Local Coordinator	IT-Iscte, IT - Leader (Portugal)	2020 - 2023
Quantum Security	Local Coordinator	IT-Iscte	2019

Professional Associations

Portuguese Society of Relativity and Gravitation (--)

Organization/Coordination of Events

Type of Organization/Coordination	Event Title	Organizer	Year
Coordination of scientific event (with scientific committee) at ISCTE-IUL	XV Black Holes Workshop	Sociedade Portuguesa de Relatividade e Gravitação	2022