

Riccardo Falcone

Email address: riccardo.falcone@uniroma1.it | Address: Piazzale Aldo Moro 5, 00185, Rome, Italy (Work)

WORK EXPERIENCE

01/12/2023 – CURRENT Rome, Italy POSTDOC (RESEARCH GRANT UNDER THE HEISINGBERG PROJECT, FUNDED BY THE EU INITIATIVE HORIZON EIC PATHFINDER), SAPIENZA UNIVERSITY OF ROME

EDUCATION AND TRAINING

01/11/2020 – 31/10/2023 Rome, Italy PHD IN PHYSICS Sapienza University of Rome

01/10/2016 – 31/03/2020 Milan, Italy MSC IN PHYSICS University of Milan

01/10/2013 – 30/09/2016 Milan, Italy BSC IN PHYSICS University of Milan

PUBLICATIONS

R. Falcone and C. Conti, "Localization in quantum field theory for inertial and accelerated observers," (2024), preprint

R. Falcone and C. Conti, "Localization in quantum field theory," Rev. Phys. 12, 100095 (2024)

R. Falcone and C. Conti, "Limits to the observation of the Unruh radiation via first-quantized hydrogen-like atoms," Phys. Rev. A 108, 022807 (2023)

R. Falcone and C. Conti, "Minkowski vacuum in Rindler spacetime and Unruh thermal state for Dirac fields," Phys. Rev. D 107, 105021 (2023)

R. Falcone and C. Conti, "Frame dependence of the nonrelativistic limit of quantum fields," Phys. Rev. D 107, 085016 (2023)

R. Falcone and C. Conti, "Observing single particles beyond the Rindler horizon," Phys. Rev. A 107, L030203 (2023)

R. Falcone and C. Conti, "Nonrelativistic limit of scalar and Dirac fields in curved spacetime," Phys. Rev. D 107, 045012 (2023)

R. Falcone and C. Conti, "Minkowski-Fock states in accelerated frames," Phys. Rev. D 106, 045013 (2022)

R. Falcone, D. D. Doneva, K. D. Kokkotas, S. S. Yazadjiev, "Nonlinear stability of soliton solutions for massive tensor-multiscalar theories," Phys. Rev. D 104, 064045 (2021)

CONFERENCES AND SEMINARS

Prague

14th annual conference on Relativistic Quantum Information (North), 2024

Vietri Sul Mare

PAFT24 – Quantum Gravity and Information, 2024

Chania

13th annual conference on Relativistic Quantum Information (North), 2023

Granada

Quantum field theory in curved spacetime Workshop II, 2023

Las Vegas (online)
APS March Meeting, 2023

Genova

Avenues of quantum field theory in curved spacetime workshop, 2022

Vienna VCQ Summer School, 2022

Edinburgh

Analogue models of gravity and fluctuation-induced phenomena workshop, 2022

Rome

Amaldi Research Center day, 2021

LANGUAGE SKILLS

Mother tongue(s): ITALIAN

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production Spoken interaction		
ENGLISH	B2	C1	B2	B2	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Mathematica | C++