



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE 6566

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Fisica dell'Universit`a di Milano**

Scientist- in - charge: MATTEO G A PARIS

Elnaz Darsheshdar

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Darsheshdar
Name	Elnaz

PRESENT OCCUPATION

Appointment	Structure
Research Fellow	University of Warwick, United Kingdom

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree			
Specialization			
PhD	Physics	University of Isfahan	2018
Master	Physics	University of Isfahan	2012
Degree of medical specialization			
Degree of European specialization			
Other			

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
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FOREIGN LANGUAGES

Languages	level of knowledge
English	Excellent

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

2019-2021	Postdoctoral researcher, FAPESP employment, working in Federal University of São Carlos (UFSCar)
2021-2022	Postdoctoral researcher, Kurdistan university, Iran
2022-2024	Research Fellow, University of Warwick

TRAINING OR RESEARCH ACTIVITY

description of activity: Quantum information theory, Light-matter interaction, Condensed matter

PROJECT ACTIVITY

Year	Project
2012-2015	Collaboration on the Industrial Project: Exploring Magnetic Properties of Nanoparticles

PATENTS

Patent

CONGRESSES AND SEMINARS

Date	Title	Place
2023	Temporal phase modulation of single-photon pulse for quantum spectroscopy	Workshop, BQIT:23, Bristol, United Kingdom
2023	Temporal phase modulation of a single photon and temporally entangled two photons for pulsed quantum spectroscopy	Quantum, Atomic and Molecular Physics QuAMP, Glasgow, United Kingdom



2021	Photon-photon Correlations from a Pair of Strongly Coupled Two-Level Emitters	Department of Optics Faculty of Science, Palacky University, Czech Republic
2019	Martingale Strategy for Modeling Quantum Adiabatic Evolution	The V AMMCS International Conference, Waterloo, Ontario, Canada
2019	Quantum Correlations in the Mollow Triplet and its Higher-Harmonic Side-bands	School on Interaction of Light with Cold Atoms, São Paulo, Brazil
2017	Mean Field Adiabatic Quantum Computation using BBGKY hierarchy equations	IV AMMCS International Conference”, Waterloo, Canada
2016	Shear viscosity of quasi 2D Bose-Fermi mixture with dipole-dipole and Coulomb interactions	Conference on Long-Range-Interacting Many Body Systems: from Atomic to Astrophysical Scales”, ICTP, Trieste, Italy
2016	Shear viscosity of quasi 2D Dipolar Bose-Fermi mixtures with long-range interactions	STATPHYS26 Conference, Centre de Congrès de Lyon, Lyon, France

PUBLICATIONS

Books
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]
[title, place, publishing house, year ...]

Articles in reviews
Temporal phase modulation of single-photon pulse for quantum spectroscopy, Will be on arXiv soon, 2024
Fluorescence Spectroscopy as a Tool to Investigate the Interaction and Geometry, Arabian Journal for Science and Engineering 48 (6), 8011-8020, 2023.
N-photon correlations from non-identical strongly coupled quantum emitters, The European Physical Journal Plus, 137 (10), 1-10, 2022.
Three-body and Coulomb interactions in a quasi-two-dimensional dipolar Bose-condensed gas, Annals of Physics 438, 168788, 2022.
Shear Viscosity in the Strong Interaction Regime of a p-wave Superfluid Fermi Gas, Physics Letters A, 127308, 2021.
Photon-photon Correlations from a Pair of Strongly Coupled Two-Level Emitters, Phys Rev A 103, 053702, 2021.
Martingale Strategy for Modeling Quantum Adiabatic Evolution, arXiv:1804.02670v1, 2018
Landau damping in a dipolar Bose-Fermi mixture in the Bose-Einstein condensation (BEC) limit, Chinese Physics B 25 (12), 126701, 2016.
Depletion of the condensate in a dipolar Bose condensed gas in the presence of impurities, The European Physical Journal Plus 131 (10), 1-9, 2016.
Low temperatures shear viscosity of a two-component dipolar Fermi gas with unequal population, Annals of Physics 370, 105-116.
Shear viscosity of quasi-2D dipolar Bose-Fermi mixtures with long-range $1/r$ interactions, The European Physical Journal Plus 131 (5), 1-9, 2016.
Effect of long-range $1/r$ interactions on the Landau damping in a Bose-Fermi mixture, The European Physical Journal Plus 131 (4), 1-13, 2016.



Magnetic and structural studies of nickel-substituted cobalt ferrite nanoparticles, synthesized by the sol-gel method, Journal of Magnetism and Magnetic materials 350, 19-22, 2014.

Congress proceedings

[title, structure, place, year]

[title, structure, place, year]

[title, structure, place, year]

OTHER INFORMATION

Co-organizer of weekly Theory group seminars in the department of physics, University of Warwick, UK, 2022-2024.

Member of woman in physics society in the department of physics, University of Warwick, UK, 2022-2024.

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Please note that CV WILL BE PUBLISHED on the University website and It is recommended that personal and sensitive data should not be included. This template is realized to satisfy the need of publication without personal and sensitive data.

Please DO NOT SIGN this form.

Place and date: Coventry(UK), 2/5/2024