Naila Amir

Associate Professor

School of Electrical Engineering and Computer Science

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About

Dr. Naila Amir is working as Associate Professor in the School of Electrical Engineering and Computer Science. Dr. Naila Amir has a PhD in Mathematical Physics. Dr. Naila Amir has published 16 research articles & conference papers having a citation count of 163, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Mathematical Physics   2011 - 2015
  NUST, Islamabad , Pakistan

MPhil in Mathematical Physics   2007 - 2010
  NUST, Islamabad , Pakistan

MSc in Mathematics   2003 - 2005
  Quaid-i-Azam University , Pakistan

MIT in Information Technology   2001 - 2003
  Arid Agriculture University , Pakistan

BSc in Mathematics A, Mathematics B, Statistics   1999 - 2001
  University of the Punjab , Pakistan

Experience

Associate Professor   2025- Present
  School of Electrical Engineering and Computer Science

Associate Professor   2023 - 2023
  School of Electrical Engineering and Computer Science

Associate Professor   2022 - 2023
  School of Electrical Engineering and Computer Science

Associate Professor   2021 - 2021
  School of Electrical Engineering and Computer Science

Assistant Professor   2021 - 2022
  School of Electrical Engineering and Computer Science

Assistant Professor   2016 - 2021
  School of Electrical Engineering and Computer Science

TVF   2015 - 2016
  NUST , NUST

TVF   2014 - 2015
  NUST , NUST

TVF   2013 - 2014
  NUST , NUST

Lecturer   2005 - 2007
  Islamabad Model College For Girls, G-10/2, Islamabad , G-10/2, Islamabad

Awards

Role of Honors 2001

Received "Role of Honors" in B.Sc

Professional Memberships

Research Projects

National Projects

Entanglement Assisted Quantum Walks of Composite Bosons 2022

Funding Agency: HEC

Amount: PKR 8,081,000.00

Status: Approved_inprocess

International Projects

Research Articles

Engineering nonclassical SU(1,1) coherent states of light by multiphoton excitation 2022

Sunia Javed Hadiah Bint Monir Naila Amir Shahid Iqbal

Laser Physics , Volume 32, Issue 11, Article Number 115201

Impact Factor: 1.380 | **Quartile:** 4 | **Citations:** 2

DOI: 10.1088/1555-6611/ac92dd

On the solution of nonlinear fractional-order shock wave equation via analytical method 2022

Azzh Saad Alshehry Naila Amir Naveed Iqbal Rasool Shah Kamsing Nonlaopon

AIMS Mathematics , Volume 7, Issue 10, Pages 19325-19343

Impact Factor: 2.739 | **Quartile:** 1 | **Citations:** 4

DOI: 10.3934/math.20221061

Novel Analysis of Fuzzy Fractional Emden-Fowler Equations within New Iterative Transform Method 2022

M. Mossa Al-Sawalha Naila Amir Rasool Shah Muhammad Yar

Journal of Function Spaces , Volume 2022, Article ID 7731135, 9 pages

Impact Factor: 1.807 | **Quartile:** 1 | **Citations:** 5

DOI: 10.1155/2022/7731135

Coherent states of position-dependent mass trapped in an infinite square well 2020

Naila Amir Shahid Iqbal

Journal of Mathematical Physics, Volume 61, Article Number 082102

Impact Factor: 1.488 | **Quartile:** 3 | **Citations:** 11

DOI: https://doi.org/10.1063/5.0015418

Photon-Added SU(1, 1) Coherent States and their Non-Classical Properties 2019

Hadiah Bint Monir Naila Amir Shahid Iqbal

International Journal of Theoretical Physics, Volume 58, Issue 6, Pages 1776-1790

Impact Factor: 1.347 | **Quartile:** 3 | **Citations:** 10

DOI: 10.1007/s10773-019-04071-1

Coherent States of Nonlinear Oscillators with Position-Dependent Mass: Temporal Stability and Fractional Revivals 2017

Shahid Iqbal Naila Amir

Communications in Theoretical Physics, Volume: 68, Issue: 2, Pages: 181-190

Impact Factor: 1.178 | **Quartile:** 3 | **Citations:** 17

DOI: https://doi.org/10.1088/0253-6102/68/2/181

Generalized Coherent States for Position-Dependent Effective Mass Systems 2016

Naila Amir Shahid Iqbal

Communications in Theoretical Physics, Volume: 66, Issue: 6, Pages: 615-620

Impact Factor: 0.989 | **Quartile:** 3 | **Citations:** 12

DOI: 10.1088/0253-6102/66/6/615

Barut-Girardello Coherent States for Nonlinear Oscillator with Position-Dependent Mass 2016

Naila Amir Shahid Iqbal

Communications in Theoretical Physics, Volume: 66, Issue: 1, Pages: 41-48

Impact Factor: 0.989 | **Quartile:** 3 | **Citations:** 20
DOI: https://doi.org/10.1088/0253-6102/66/1/041

Algebraic solutions of shape-invariant position-dependent effective mass systems 2016

Naila Amir Shahid Iqbal

Journal of Mathematical Physics, Volume: 57, Issue: 6, Article Number: 062105

Impact Factor: 1.077 | **Quartile:** 3 | **Citations:** 23
DOI: http://dx.doi.org/10.1063/1.4954283

Ladder operators and associated algebra for position-dependent effective mass systems 2015

Naila Amir Shahid Iqbal

EPL , Volume: 111, Issue: 2, Article Number: 20005

Impact Factor: 1.963 | **Quartile:** 1 | **Citations:** 15
DOI: https://doi.org/10.1209/0295-5075/111/20005

Coherent states for nonlinear harmonic oscillator and some of its properties 2015

Naila Amir Shahid Iqbal

Journal of Mathematical Physics, Volume: 56, Issue: 6, Article Number: 062108

Impact Factor: 1.234 | **Quartile:** 2
DOI: http://dx.doi.org/10.1063/1.4922606

Exact solutions of schrodinger equation for the position-dependent effective mass harmonic oscillator 2014

Naila Amir Shahid Iqbal

Communications in Theoretical Physics, Volume: 62, Issue: 6, Pages: 790-794

Impact Factor: 0.893 | **Quartile:** 3 | **Citations:** 30
DOI: https://doi.org/10.1088/0253-6102/62/6/03

Comment on "Coherent states for the nonlinear harmonic oscillator" [J. Math. Phys.53, 062104 (2012)] 2014

Naila Amir Shahid Iqbal

Journal of Mathematical Physics, Volume: 55, Issue: 11, Article Number: 114101

Impact Factor: 1.243 | **Quartile:** 2 | **Citations:** 11
DOI: https://doi.org/10.1063/1.4901559

Eigenvalues, eigenvectors and the conjugacy classes of the Pseudo-orthogonal groups O(n,m) 2013

Naila Amir Muneer Ahmad Rashid

VFAST Transactions on Mathematics , Volume 2, issue 2

Impact Factor: 0
DOI: 10.21015/vtm.v2i2.120

Linear Invariants of a Cartesian Tensor Under SO(2), SO(3) and SO(4) 2011

Faiz Ahmad Naila Amir Muneer Ahmad Rashid

International Journal of Theoretical Physics, Volume 50, Issue 2, Pages 479-487

Impact Factor: 0.845 | **Quartile:** 3 | **Citations:** 3
DOI: 10.1007/s10773-010-0555-3

Conference Proceedings

On the Algebraic Solutions of Quantum Systems with Position-Dependent Effective Mass 2015

Naila Amir Shahid Iqbal

14th Regional Conference on Mathematical Physics Quaid-i-Azam University, Islamabad, res.country(177,)

Citations: N/A
DOI: https://www.researchgate.net/publication/324158054_On_the_Algebraic_Solutions_of_Quantum_Systems_with_Position-Dependent_Effective_Mass

Editorial Activities

	2024

Reviewed Papers for Journals
Impact Factor: 0

Journal of Physics B: Atomic, Molecular and Optical Physics — 2023
Reviewed Papers for Journals
Impact Factor: 1.6

Physica Scripta — 2022
Reviewed Papers for Journals
Impact Factor: 3.081

2022
Reviewed Papers for Journals
Impact Factor: 2.704

2022
Reviewed Papers for Journals
Impact Factor: Nil

2021
Reviewed Papers for Journals
Impact Factor: 1.968

2019
Reviewed Papers for Journals
Impact Factor: 1.965