

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
<i>Sunia Javed Hadiah Bint Monir Naila Amir Shahid Iqbal</i>	
<i>Laser Physics</i> , 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
<i>Azzh Saad Alshehry Naila Amir Naveed Iqbal Rasool Shah Kamsing Nonlaopon</i>	
<i>AIMS Mathematics</i> , 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
<i>M. Mossa Al-Sawalha Naila Amir Rasool Shah Muhammad Yar</i>	
<i>Journal of Function Spaces</i> , 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
<i>Naila Amir Shahid Iqbal</i>	
<i>Journal of Mathematical Physics</i> , 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
<i>Hadiah Bint Monir Naila Amir Shahid Iqbal</i>	
<i>International Journal of Theoretical Physics</i> , 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
<i>Shahid Iqbal Naila Amir</i>	
<i>Communications in Theoretical Physics</i> , 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
<i>Naila Amir Shahid Iqbal</i>	
<i>Communications in Theoretical Physics</i> , 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

Reviewed Papers for Journals Impact Factor: 0	2024
Journal of Physics B: Atomic, Molecular and Optical Physics Reviewed Papers for Journals Impact Factor: 1.6	2023
Physica Scripta 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	2022
Reviewed Papers for Journals Impact Factor: 1.968	2021
Reviewed Papers for Journals Impact Factor: 1.965	2019