

Aeysha Khalique

Associate Professor
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About

Dr. Aeysha Khalique is working as Associate Professor in the School of Natural Sciences. Dr. Aeysha Khalique has a PhD in Physics: Quantum Information. Dr. Aeysha Khalique has published 18 research articles & conference papers having a citation count of 161, carried out 1 projects and filed 0 intellectual property.

Qualifications

PhD in Physics: Quantum Information Technische Universität Darmstadt , Germany	2003 - 2008
MPhil in Physics-Quantum Optics Quaid-i-Azam University , Pakistan	1999 - 2001
MSc in Physics Quaid-i-Azam University , Pakistan	1996 - 1998
BSc in Science University of the Punjab , Pakistan	1993 - 1995

Experience

Associate Professor School of Natural Sciences	2024- Present
Associate Professor School of Natural Sciences	2017 - 2017
Assistant Professor School of Natural Sciences	2013 - 2008
Assistant Professor School of Natural Sciences	2009 - 2013
Assistant Professor School of Electrical Engineering and Computer Science	2008 - 2017
Lecturer School of Electrical Engineering and Computer Science	2008 - 2009

Research Projects

National Projects	
Network Optimization for Multi-Commodity Flow Funding Agency: NESCOM Amount: PKR 250,000.00 Status: Approved_inprocess	2022

International Projects

Research Articles

Scaling network topologies for multi-user entanglement distribution Aeysha Khalique Muhammad Daud Quantum Information Processing , Volume 23, Article Number 216 Impact Factor: 2.200 Quartile: 1	2024
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DOI: 10.1007/s11128-024-04423-9	
Semi-Quantum Secure Multiparty Summation and its Applications to Anonymous Auction and Ranking	2024
<i>Chong-Qiang Ye Li Jian Xiu-Bo Chen Mianxiong Dong Kaoru Ota Aeysha Khaliq M. Hanif Durad</i>	
<i>Advanced Quantum Technologies</i> , Volume:7, Issue:3, Article Number: 2300347	
Impact Factor: 4.4 Quartile: 1 Citations: 5	
DOI: 10.1002/qute.202300347	
Controlled Information Transfer in Continuous-Time Chiral Quantum Walks	2021
<i>Aeysha Khaliq Amit Sett Jingbo B. Wang Jason Twamley</i>	
<i>New Journal of Physics</i> , Volume 23, Article Number 083005	
Impact Factor: 3.729 Quartile: 2 Citations: 5	
DOI: https://doi.org/10.1088/1367-2630/ac1551	
Entanglement engineering of a GHZ-state and W-state using arbitrary numbers of cavities	2020
<i>Zainub Liaqat Aeysha Khaliq Manzoor Ikram</i>	
<i>Laser Physics</i> , Volume 30, Article Number 115202	
Impact Factor: 1.366 Quartile: 4 Citations: 2	
DOI: https://doi.org/10.1088/1555-6611/abb0ec	
Optimal control of traffic signals using quantum annealing	2020
<i>Hasham Hussain Muhammad Bin Javaid Faisal Shah Khan Archishmita Dalal Aeysha Khaliq</i>	
<i>Quantum Information Processing</i> , Volume 9, Article Number 312	
Impact Factor: 2.349 Quartile: 3 Citations: 43	
DOI: https://doi.org/10.1007/s11128-020-02815-1	
Quantum Interferometry with Multimode Bi-photon Input Pulses	2020
<i>Muhammad Habib Tahir Aeysha Khaliq</i>	
<i>Physica Scripta</i> , Volume 95, Article Number 085103	
Impact Factor: 2.487 Quartile: 2	
DOI: https://doi.org/10.1088/1402-4896/aba1cb	
Interferometrically estimating a quadratic form for any immanant of a matrix and its permutations	2020
<i>Aeysha Khaliq Hubert de Guise Barry C. Sanders</i>	
<i>Physical Review A</i> , Volume 101, Issue 5, Article Number 052314	
Impact Factor: 3.140 Quartile: 2 Citations: 1	
DOI: 10.1103/PhysRevA.101.052314	
Practical quantum teleportation of an unknown quantum state	2017
<i>Syed Tahir Amin Aeysha Khaliq</i>	
<i>Canadian Journal of Physics</i> , CANADIAN JOURNAL OF PHYSICS Volume: 95 Issue: 5 Pages: 498-503	
Impact Factor: 0.983 Quartile: 3 Citations: 1	
DOI: 10.1139/cjp-2016-0758	
Long-distance quantum key distribution using concatenated entanglement swapping with practical resources	2017
<i>Aeysha Khaliq Barry Sanders</i>	
<i>Optical Engineering</i> , OPTICAL ENGINEERING Volume: 56 Issue: 1 Article Number: 016114	
Impact Factor: 0.993 Quartile: 4 Citations: 3	
DOI: 10.1117/1.OE.56.1.016114	
Practical long-distance quantum key distribution through concatenated entanglement swapping with parametric down-conversion sources	2015
<i>Aeysha Khaliq Barry C. Sanders</i>	
<i>Journal of the Optical Society of America B-Optical Physics</i> , Volume 32, Issue 11, Pages 2382-2390	
Impact Factor: 1.731 Quartile: 2 Citations: 8	
DOI: 10.1364/JOSAB.32.002382	
Long Distance Cavity Entanglement by Entanglement Swapping Using Atomic Momenta	2015
<i>Sami Ul Haq AYESHA KHALIQUE</i>	
<i>Optics Communications</i> , Volume: 334 Pages: 290-293	
Impact Factor: 1.48 Quartile: 3 Citations: 8	
DOI: 10.1016/j.optcom.2014.08.053	
Long-distance quantum communication through any number of entanglement-swapping operations	2014
<i>Aeysha Khaliq Barry C. Sanders</i>	

Physical Review A , Volume 90, Issue 3, Article Number 032304

Impact Factor: 2.808 | Quartile: 1 | Citations: 24

DOI: 10.1103/PhysRevA.90.032304

Practical Long-distance quantum communication using concatenated entanglement swapping2013

Aeysha Khaliq Wolfgang Tittel Barry C. Sanders

Physical Review A , Volume 88, Issue 2, Article Number 022336

Impact Factor: 2.991 | Quartile: 1 | Citations: 16

DOI: 10.1103/PhysRevA.88.022336

Postponement of dark-count effects in practical quantum key-distribution by two-way post-processing2006

Aeysha Khaliq Georgios Nikolopoulos Gernot Alber

European Physical Journal D , Volume 40, Issue 3, Pages 453-464

Impact Factor: 1.988 | Quartile: 2 | Citations: 2

DOI: 10.1140/epjd/e2006-00167-2

Provable entanglement and information cost for qubit-based quantum key-distribution protocols2006

Georgios Nikolopoulos Gernot Alber Aeysha Khaliq

The European Physical Journal D , Volume 37, Issue 3, Pages 441–450

Impact Factor: 1.988 | Quartile: 2 | Citations: 4

DOI: 10.1140/epjd/e2005-00314-3

Engineering entanglement between external degrees of freedom of atoms via Bragg scattering2003

Aeysha Khaliq Farhan Saif

Physics Letters A , Volume 314, Issue 1-2, Pages 37-43

Impact Factor: 1.324 | Quartile: 2 | Citations: 37

DOI: 10.1016/S0375-9601(03)00879-X

Quantum Nondemolition State Measurement via Atomic Scattering in Bragg Regime2002

Aeysha Khaliq Farhan Saif

Journal of Physical Society of Japan , Volume 71, Issue 11, Pages 2587-2590

Impact Factor: 1.596 | Quartile: 1 | Citations: 2

DOI: 10.1143/JPSJ.71.2587

Conference Proceedings

Long-distance quantum-key-distribution using concatenated entanglement swapping with practical resources2016

Aeysha Khaliq Barry C. Sanders

Quantum Communications and Quantum Imaging XIV, res.country(233,)

Citations: N/A

DOI: 10.1117/12.2237870