

Curriculum Vitae*

Sameen Ahmed Khan, PhD

Assistant Professor

Department of Mathematics and Sciences
College of Arts and Applied Sciences (CAAS)
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rohelaakhan@yahoo.com, <http://www.scopus.com/authid/detail.url?authorId=8452157800>

<http://SameenAhmedKhan.webs.com/>

<http://sites.google.com/site/rohelaakhan/>, <http://www.imsc.res.in/~jagan/khan-cv.html>

PERSONAL DATA

Full Name: Mr. Sameen Ahmed KHAN
Place of Birth: New Delhi, INDIA
Nationality: INDIAN
Marital Status: Married. Blessed with a daughter, Hajira Khan

ADDRESS FOR CORRESPONDENCE:

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CURRENT POSITION: *Assistant Professor*

Department of Mathematics and Sciences
College of Arts and Applied Sciences (CAAS)
Dhofar University
Post Box No. 2509, Postal Code: 211
Salalah

Sultanate of Oman.

PREVIOUS POSITIONS: *Assistant Professor*

Engineering Department
Salalah College of Technology (**SCOT**)
Salalah
Sultanate of Oman.

Assistant Professor and Assistant Head,

Department of Mathematics & Applied Sciences **DOMAS**
Middle East College of Information Technology (**MECIT**)
Technowledge Corridor
Knowledge Oasis Muscat (**KOM**)
Muscat

Sultanate of Oman

*Updated on Friday the 24 March 2017.

<http://SameenAhmedKhan.webs.com/>

RESEARCH POSITIONS: CONACYT-UNAM Post-Doctoral Fellow,
(with Professor Kurt Bernardo WOLF)
Centro de Ciencias Físicas
Universidad Nacional Autónoma de México (**UNAM**)
Apartado Postal 48-3,
Cuernavaca, Morelos, **MÉXICO**
(15 October 2001 - 13 October 2002)

INFN Post-Doctoral Fellow,
(with Professor Modesto PUSTERLA)
Dipartimento di Fisica Galileo Galilei, Università di Padova
Istituto Nazionale di Fisica Nucleare (**INFN**)
Sezione di Padua/Padova, **ITALY**
(27 October 1997 to 26 October 1999)

Junior Research Fellow (JRF)
The Institute of Mathematical Sciences, (**IMSc/Matscience**),
Chennai (Madras), **INDIA**,
(August 1991 to July 1997).

CAREER OBJECTIVE:

Faculty Member in Departments of Physics or Mathematics in Universities, Institutes of Technology or Engineering Colleges, with teaching and research in Physics OR/AND Mathematics.

TEACHING EXPERIENCE

- **Full-time Lecturer:**
Salalah College of Technology, SCOT, May-2006 to Present.
Middle East College of Information Technology, MECIT, September 2003 to May 2006.
- **Teaching:**
Two-Semester Sequence of Physics for Engineering;
The Three-Semester Sequence of Engineering Mathematics (Foundation Mathematics, College Mathematics, Calculus with Numerical Methods and Advanced Calculus) and
The Two-Semester Sequence of Physics (Physics, Engineering Mechanics and Engineering Physics).

OTHER ACTIVITIES

- Drafted the syllabus for the new BS Programme.
- Set up the Department Homepage on the College Intranet, which contains the in-house prepared *Lecture Notes* and *Question Banks*, meeting most of the requirements of all the courses offered by the department.
- **Mathematics Olympiad**
I was part of the three-member team, which jointly conducted the *first* Mathematics Olympiad in the College, on Wednesday the 26th May 2004. The other two members of the team were my Colleagues from the Department, Ms. Lavanya Venkatesan and Ms. Usha Ramanathan. The second Olympiad was conducted on Tuesday the 21 March 2006. These events are now evolving into a National Olympiad with the first *Intercollegiate Mathematics Olympiad* held on Sunday the 07 May 2006, during the Intercollegiate Meet, **QUEST** (6-8 May 2006, <http://www.mecit-quest.com/>).
- **Served on several College Committees:**
Disciplinary Committee, Journal Committee, Library Committee, Web-Site Committee, Prizes and Awards Committee, Accreditation Steering Committee, Time Table Committee, Examination Committee, E-Learning and Library Committee, Moderation Committee, Staff Development Committee, Staff Research and Consultancy, Curriculum Review & Development Committee, Academic Journal Committee, Staff Handbook Committee, Student Induction Committee, Student Progress Committee and SCT Eco Club (Environment).

EDUCATION:

B.Sc. Honours (Physics)	1988, Osmania University, Hyderabad
M.Sc. (Physics)	1990, Indian Institute of Technology (IIT), Kanpur
Ph.D	1997, The Institute of Mathematical Sciences, Chennai (Madras)
Title of the Thesis	Quantum theory of charged-particle beam optics
Description of Ph.D research	Development of quantum mechanical treatment for the study of transport of charged-particle beams through electromagnetic systems
Thesis Supervisor:	Prof. Ramaswamy JAGANNATHAN

Course Work: The Ph.D programme consisted of regular course work over three semesters in Classical Mechanics, Quantum Mechanics, Electromagnetic Theory, Mathematical Physics, Differential Geometry, Group theory, Statistical & Thermal Physics, Quantum Field Theory, Quantum Optics and Particle Physics.

Skills:

Spoken and Written English, Proficient; used as the medium of instruction since kindergarten
Computers: Familiar with Fortran, Mathematica, L^AT_EX, MS Office and Web-designing.

MAIN FIELDS OF RESEARCH: Physics of Beams: Particles & Photons

In particular, Applications of the classical and quantum theory of beam transport to various situations such as Accelerator Optics, Electron Microscopy, *etc.*
 Helmholtz Optics and Maxwell Optics. A unified treatment of light beam optics and polarization.

AWARDS & HONOURS:

- **Mathematics Olympiads:**

Winner of the State Level Mathematics Olympiads at:

- Junior Level (1983),
- Senior Level (1985) and
- Degree (Undergraduate) Level (1986 to 1988).

(Conducted by **APAMT**: Andhra Pradesh Association of Mathematics Teachers).

- **Young Physicists Colloquium:**

Invited Lecture at the Young Physicists Colloquium, Kolkata (Calcutta), 22-23 August 1996,

Beam optics of the Dirac particle,

The Abstract Appeared in: *Physics Teacher*, Vol. **38**, No. 2 & 3, pp. 67, (April-September 1996).
 (Organized by **IPS**: The Indian Physical Society).

- **Reviewer and Referee:**

- Serving on the Board of Advisors, *RFID Association, India*.
<http://www.rfida.org/>.
- Served as a Referee for several Peer-Reviewed Journals.
- Member of the Review Panel,
International Conference on Applied Information and Communications Technology,
 (22-23 March 2011 at MECIT, the Middle East College of Information Technology, Muscat, Sultanate of Oman). <http://www.mecit.edu.om/conf2011/>.
- The *Regular Correspondent* for the ICFA Beam Dynamics Panel Newsletters, for the regions of Middle East & Africa.
(ICFA: International Committee for Future Accelerators,
<http://icfa-usa.jlab.org/archive/newsletter.shtml>).

• **Biographical Listings:**

- **Who's Who Online**,
<http://www.whoswho-online.com/whoshome.html>, (March 1998).
- **Asian/American Who's Who, Vol. II**,
(Rifacimento International, New Delhi, India), pp. 367 (2002).
- **Asia/Pacific Who's Who, Vol. IV**,
(Rifacimento International, New Delhi, India), pp. 290-291 (2002).
- **Reference Asia: Asias Who's Who of Men & Women of Achievement**,
(Rifacimento International, New Delhi, India), pp. 191-192 (2004).
- **Asian/American Who's Who, 2005, Vol. IV**,
(Rifacimento International, New Delhi, India), pp. 367 (2005).
- **Eminent Personalities of the World, Vol. I**,
(World Biographical Research Foundation, Shri Vaishnavi Publishing, Nagpur, India), pp. ???
(2005) (*in press*).
- **Distinguished & Admirable Achievers-2005**,
(South-Asia (Intl.) Pub. Co., Delhi, India). pp. ??? (*in press*).

PRESENT RESEARCH: A Summary

(For details see the PUBLICATIONS listed below)

Quantum theory of charged-particle beam dynamics is being developed essentially using an algebraic approach. On the basis of this theory, optics of the transport of nonrelativistic and relativistic charged-particle beams through electromagnetic systems (of importance for charged particle beam devices, like electron microscopy, microelectron-beam lithography, etc., and accelerator design) is being analyzed systematically. The machinery of Lie algebraic methods is used primarily and this facilitates an easy passage from the quantum theory to the traditional classical theory (geometrical optics). The results include the modifications of the paraxial properties and aberration coefficients, with \hbar -dependent contributions, for the various optical elements, like the magnetic round lenses, quadrupoles, etc., using the Schrödinger (nonrelativistic), Klein-Gordon and Dirac equations. For charged spin- $\frac{1}{2}$ particles, the Dirac equation leads to spinor contributions to the beam dynamics. We do hope that these quantum corrections, albeit small, would be of some practical significance in certain situations; it should, however, be emphasized that, in any case, it is certainly satisfying to understand the working of the traditional classical theory as an approximation of a proper quantum theory since after all any physical system is quantum mechanical at the fundamental level. The application of the spinor beam optical formalism has been shown to lead to a fully quantum mechanical understanding of the dynamics of a spin- $\frac{1}{2}$ particle with anomalous magnetic moment, including the spin evolution, at the level of single-particle dynamics. The general theory, developed for any magnetic optical element with straight axis, describes the the quantum mechanics of the orbital dynamics, the Stern-Gerlach kicks and the Thomas-Bargmann-Michel-Telegdi (Thomas-BMT) spin evolution.

The application of the Wigner phase-space distribution for studying the quantum mechanics of charged particle beam transport through electromagnetic optical systems provides a natural link between the classical and the quantum descriptions. In this context, the relation between the transformation of the Wigner function of a charged particle optical system, corresponding to the associated scalar wave function, and the transformation of the classical phase-space of the system has been studied.

In the paraxial régime of 3-dim optics, two evolution Hamiltonians are equivalent when one can be transformed to the other modulo scale by similarity through an optical system. To determine the equivalence sets of paraxial optical Hamiltonians one requires the orbit analysis of the algebra $\mathfrak{sp}(4, \mathfrak{R})$ of 4×4 real Hamiltonian matrices. Our strategy uses instead the isomorphic algebra $\mathfrak{so}(3, 2)$ of 5×5 matrices with metric $(+1, +1, +1, -1, -1)$ to find 4 orbit regions (strata), 6 isolated orbits at their boundaries, and 6 degenerate orbits at their common point. We thus resolve the degeneracies of the eigenvalue classification.

RESEARCH PLANS

Portions of my work are concerned with the applications of the above formalism and related ideas to various problems such as developing a complete quantum mechanical treatment of high energy polarized beams of Dirac particles (electrons, protons, \dots), including polarization, radiation effects etc., studying the quantum mechanics of beam optical aberrations relevant for electron microscopy (from low voltage to high voltage regions) and microelectron-beam device technology, \dots , etc.

Using the analogy of the Helmholtz equation with the Klein-Gordon equation and the Pauli-Villars approach, a formalism utilizing the powerful techniques of quantum mechanics has been developed for scalar optics including aberrations. This provides an alternative to the traditional *square-root* approach and gives rise to wavelength-dependent contributions modifying the aberration coefficients.

Starting with the Dirac-like form of the Maxwell equations we build a formalism which provides a **unified treatment of beam optics and polarization**. The traditional results (including aberrations) of scalar optics are modified by the wavelength-dependent contributions. Some of the well-known results in polarization studies are realized as the leading-order limit of a more general framework of our formalism.

We are also studying the **Beam Halo Problem** and building a diffraction-based model for the beam losses. In the proposed model we use the machinery of the *Quantum-like* approaches. We are also trying to analyze the bulk characteristics of beams using the powerful techniques of **Statistical Mechanics**.

Expected Outcome of the Proposed Research Plan

Any physical system is quantum mechanical at the fundamental level. So, the proposed research would lead, first of all, to a better understanding of the quantum physics of beam dynamics. Besides this, of course, the results should lead to some insight into the solutions of some of the practical problems of beam dynamics; in the polarization analysis, for example. One immediate result shall be the generalization of the 'beam-optical' form of the Thomas-BMT equation to *all* orders. In our earlier paper the leading order approximation leads to the paraxial beam-optical form of the Thomas-BMT equation.

The preliminary results of the proposed halo model are encouraging and further work is in progress.

PATENTS

Quadricmeter is the instrument devised to identify (distinguish) and measure the various parameters (axis, foci, latera recta, directrix, etc.,) completely characterizing the important class of surfaces known as the quadratic surfaces. Quadratic surfaces (also known as quadrics) include a wide range of commonly encountered surfaces including, cone, cylinder, ellipsoid, elliptic cone, elliptic cylinder, elliptic hyperboloid, elliptic paraboloid, hyperbolic cylinder, hyperbolic paraboloid, paraboloid, sphere, and spheroid. Quadricmeter is a generalized form of the conventional spherometer and the lesser known cylindrometer (also known as the Cylindro-Spherometer). With a conventional spherometer it was possible only to measure the radii of spherical surfaces. Cylindrometer can measure the radii of curvature of a cylindrical surface in addition to the spherical surface. In both the spherometer and the cylindrometer one assumes the surface to be either spherical or cylindrical respectively. In the case of the quadricmeter, there are no such assumptions.

- Sameen Ahmed Khan,
Quadricmeter,
Official Journal of the Patent Office, Issue No. **43/2008**, Part-I, pp. 25296 (24 October 2008).
Application No.: **2126/MUM/2008 A**, International Classification: **B69G1/36**,
Controller General of Patents Designs and Trade Marks, Government of India.

http://ipindia.nic.in/ipr/patent/journal_archieve/journal_2008/patent_journal_2008.htm

http://ipindia.nic.in/ipr/patent/journal_archieve/journal_2008/pat_arch_102008/official_jour

<http://www.patentoffice.nic.in/>, <http://www.ipindia.nic.in/>

(*patent in process*, <http://SameenAhmedKhan.webs.com/quadricmeter.html>).

- Sameen Ahmed Khan,
Conicmeter.
(*patent in process*, <http://SameenAhmedKhan.webs.com/conicmeter.html>).

PUBLICATIONS

Contributions to International Reports:

1. ..., A. Sameen KHAN, ..., (*one of the 300+ Contributors, from 73 Institutions*),
Particle Physics Experiments at JLC,
ACFA Linear Collider Working Group Report, KEK Report 2001-11 (August 2001).
JLC: Electron-Positron Linear Collider Project.
E-Print arXiv: <http://arXiv.org/abs/hep-ph/0109166/>.
2. ..., Sameen Ahmed KHAN, ..., (*one of the 500+ Contributors, from 121 Institutions*),
GLC Project Linear Collider for TeV Physics,
KEK Report 2003-7 (September 2003).
GLC: Global Linear Collider.
3. ..., Sameen Ahmed KHAN, ..., (*one of the 250+ Contributors, from 79 Institutions*),
GLD Detector Outline Document (GLD DOD),
 GLD: A Large Detector Concept study for International Linear Collider for TeV Physics
 Report of the
 GLD Concept Study Group,
 World Wide Study of Physics and Detectors for future Linear e^+e^- Colliders, (March 2006).
GLD: Gaseous tracker based Large Detector.
E-Print arXiv: <http://arXiv.org/abs/physics/0607154/>.
4. ..., Sameen Ahmed KHAN, ..., (*one of the 500+ Contributors, from 325 Institutions*),
International Linear Collider Reference Design Report, (Four Volumes)
 ILC Global Design Report and World Wide Study,
 (August 2007).
ILC: International Linear Collider.
 (Digital Object Identifier (**DOI**), <http://dx.doi.org/10.2172/914731>).
E-Print arXiv: <http://arxiv.org/abs/0712.1950/>, <http://arxiv.org/abs/0709.1893/>,
<http://arxiv.org/abs/0712.2361/> and <http://arxiv.org/abs/0712.2356/>.
5. ..., Sameen Ahmed KHAN, ..., (*one of the Signatories*),
 Letter of Intent (LOI), **The International Large Detector Letter of Intent**,
 ILD Concept Group, International Linear Collider (ILC)
 DESY 2009-87, FERMILAB-PUB-09-682-E, KEK Report 2009-6, (February 2010).
 (Digital Object Identifier (**DOI**), <http://dx.doi.org/10.2172/975166>).
E-Print arXiv: <http://arxiv.org/abs/1006.3396/>.
6. ..., S. A. KHAN, ..., (*one of the 2400 Signatories, from 408 Institutions*),
International Linear Collider Technical Design Report, (Five Volumes)
 ILC Global Design Effort (GDE), (Wednesday the 12 June 2013).
ILC: International Linear Collider.
 (Digital Object Identifier (**DOI**), <http://dx.doi.org/>).
E-Print arXiv: <http://arxiv.org/abs/1306.6327/>, <http://arxiv.org/abs/1306.6352/>,
<http://arxiv.org/abs/1306.6353/>, <http://arxiv.org/abs/1306.6328/> and
<http://arxiv.org/abs/1306.6329/>.

Lecture Notes:

1. Sameen Ahmed Khan,
Lecture Notes in Mathematics,
Middle East College of Information Technology,
Muscat, Sultanate of Oman (2005). <http://www.mecit.edu.om/>.
The Notes cover the *Foundation Mathematics* and the Three-Semester Sequence of *Engineering Mathematics*, *College Mathematics*, *Calculus with Numerical Methods* and *Advanced Calculus*.
2. Sameen Ahmed Khan,
Lecture Notes in Physics,
Middle East College of Information Technology,
Muscat, Sultanate of Oman (2005).
<http://www.mecit.edu.om/>.
The Notes cover the Two-Semester Sequence of *Physics* along with *Engineering Physics* and *Engineering Mechanics*.
3. Sameen Ahmed Khan,
Lecture Notes in Physics,
Salalah College of Technology E-Learning Website, <http://www.sct.edu.om/>, (2010).
The Notes cover the Two-Semester Sequence of *Physics for Engineering*.
4. Sameen Ahmed Khan,
Physics Laboratory Manual,
Salalah College of Technology E-Learning Website, <http://www.sct.edu.om/>, (2010).
The Notes cover over twenty experiments for the Two-Semester Sequence of *Physics for Engineering*.

A. Books

1. Sameen Ahmed Khan,
International Year of Light and Light-based Technologies,
LAMBERT Academic Publishing, Germany (Thursday the 30 July 2015),
96 pages. <http://www.lap-publishing.com/>, <http://isbn.nu/9783659764820/>.
ISBN-13: 978-3-659-76482-0 and **ISBN-10:** 3659764825.
2. Sameen Ahmed Khan,
Introductory Physics Laboratory Manual,
LAP LAMBERT Academic Publishing, Germany (Wednesday the 19 August 2015),
168 pages. <http://www.lap-publishing.com/>, <http://isbn.nu/9783659771897/>.
ISBN-13: 978-3-659-77189-7 and **ISBN-10:** 3659771899.
3. Sameen Ahmed Khan,
Objective Questions in Introductory Physics,
LAP LAMBERT Academic Publishing, Germany (Friday the 9 October 2015),
408 pages. <http://www.lap-publishing.com/>, <http://isbn.nu/9783659786198/>.
ISBN-13: 978-3-659-78619-8 and **ISBN-10:** 3659786195.

B. Review Articles and Book Chapters

1. R. Jagannathan and S. A. Khan,
Wigner functions in charged particle optics,
in: Selected Topics in Mathematical Physics — Professor R. Vasudevan Memorial Volume,
Editors: R. Sridhar, K. Srinivasa Rao, and V. Lakshminarayanan
(Allied Publishers, Delhi, 1995), pp. 308-321 (1995).
(ISBN-10: 8170234883 and ISBN-13: 978-8170234883).

2. R. Jagannathan and S. A. Khan,
Quantum theory of the optics of charged particles,
Chapter-4 in:
Advances in Imaging and Electron Physics, Editors: P. W. Hawkes, B. Kazan and T. Mulvey,
(Academic Press, San Diego, 1996) **Vol. 97**, pp. 257-358 (1996).
(ISBN-10: 0120147394 and ISBN-13: 978-0120147397).
(Digital Object Identifier (**DOI**), [http://dx.doi.org/10.1016/S1076-5670\(08\)70096-X](http://dx.doi.org/10.1016/S1076-5670(08)70096-X)).
3. Sameen Ahmed Khan,
Wavelength-Dependent Effects in Light Optics,
Chapter-6 in:
New Topics in Quantum Physics Research,
Editors: Volodymyr Krasnoholovets and Frank Columbus,
(Nova Science Publishers, New York, 2006, <http://www.novapublishers.com/>).
pp. 163-204 (30 December 2006).
(ISBN-10: 1600210287 and ISBN-13: 978-1600210280).
4. Sameen Ahmed Khan,
The Foldy-Wouthuysen Transformation Technique in Optics,
Chapter-2 in:
Advances in Imaging and Electron Physics, Editor: Peter W. Hawkes,
(Elsevier, 2008) **Vol. 152**, pp. 49-78 (August 2008).
(ISBN-10: 0123742196 and ISBN-13: 978-0-12-374219-3).
(Digital Object Identifier (**DOI**), [http://dx.doi.org/10.1016/S1076-5670\(08\)00602-2](http://dx.doi.org/10.1016/S1076-5670(08)00602-2)).
5. Sameen Ahmed Khan,
Number Theory and Resistor Networks,
Chapter-5 in:
Resistors: Theory of Operation, Behavior and Safety Regulations,
Editor: Roy Abi Zeid Daou,
(Nova Science Publishers, New York, 2013, <http://www.novapublishers.com/>).
pp. 99-154 (May 2013).
(Hard Cover: pp. 99-154, ISBN-10: 1622577884 and ISBN-13: 978-1-62257-788-0).
(ebook: pp. 99-154, ISBN-10: 1626187959 and ISBN-13: 978-1-62618-795-5).
6. Sameen Ahmed Khan,
Coordinate Geometric Generalization of the Spherometer and Cylindrometer,
Chapter-8 in:
Advances in Engineering Research, Volume 10,
Editor: Victoria M. Petrova,
(Nova Science Publishers, New York, 2015, <http://www.novapublishers.com/>).
pp. 163-190 (10 July 2015).
(Hard Cover: pp. 163-190, ISBN-10: 1634827848 and ISBN-13: 978-1-63482-784-3).
(ebook: pp. 163-190, ISBN-10: 1634828151 and ISBN-13: 978-1-63482-815-4).
7. Sameen Ahmed Khan,
International Year of Light and History of Optics,
Chapter-1 in:
Advances in Photonics Engineering, Nanophotonics and Biophotonics,
Editor: Tanya Scott,
(Nova Science Publishers, New York, 2016, <http://www.novapublishers.com/>).
pp. 1-56 (April 2016).
(Hard Cover: pp. 1-56, ISBN-10: 163484498X and ISBN-13: 978-1-63484-498-7).
(ebook: pp. 1-56, ISBN-10: 1634845307 and ISBN-13: 978-1-63484-530-4).
8. G. B. V. S. Lakshmi, Shumaila, Sameen Ahmed Khan, Azher M. Siddiqui,
Thin Films: Polyaniline and Poly(3-methylthiophene),
in *Encyclopedia of Plasma Technology* (First Edition), *Editor: J. Leon Shohet,*
(Taylor & Francis Encyclopedia Program), pp. 1442-1451, (12 December 2016).
(Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1081/E-EPLT-120053953> and
<https://www.crcpress.com/Encyclopedia-of-Plasma-Technology/Shohet/9781466500594>).

C. Refereed Publications

1. S. A. Khan and R. Jagannathan,
Quantum mechanics of charged particle beam transport through magnetic lenses,
Physical Review E **51**, 2510-2515 (March 1995).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1103/PhysRevE.51.2510>).
2. M. Conte, R. Jagannathan, S. A. Khan and M. Pusterla,
Beam optics of the Dirac particle with anomalous magnetic moment,
Particle Accelerators **56**, 99-126 (1996).
<http://cds.cern.ch/record/307931/files/p99.pdf>
3. S. A. Khan and M. Pusterla,
Quantum-like approach to the transversal and longitudinal beam dynamics. The halo problem,
European Physical Journal A **7**(4), 583-587 (2000).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1007/s100500050430>).
4. Sameen Ahmed Khan and Modesto Pusterla,
Quantum approach to the halo formation in high current beams,
Nuclear Instruments and Methods in Physics Research (NIMS) A **464**, Issue 1-3, 461-464 (May 2001).
Refereed Proceedings of the 13th International Symposium on Heavy Ion Inertial Fusion (HIF2000)
(13-17 March 2000, San Diego, USA).
(Digital Object Identifier (DOI), [http://dx.doi.org/10.1016/S0168-9002\(01\)00108-5](http://dx.doi.org/10.1016/S0168-9002(01)00108-5)).
5. Sameen Ahmed Khan and Kurt Bernardo Wolf,
Hamiltonian orbit structure of the set of paraxial optical systems,
Journal of the Optical Society of America A **19**(12), 2436-2444 (December 2002).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1364/JOSAA.19.002436>).
6. Sameen Ahmed Khan,
Wavelength-dependent modifications in Helmholtz Optics,
International Journal of Theoretical Physics, **44**(1), 95-125 (January 2005).
(Kluwer Academic Publishers).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1007/s10773-005-1488-0>).
7. Sameen Ahmed Khan,
An Exact Matrix Representation of Maxwells Equations,
Physica Scripta, **71**(5), 440-442 (2005).
(<http://www.physica.org/>).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1238/Physica.Regular.071a00440>).
8. Sameen Ahmed Khan,
The Foldy-Wouthuysen Transformation Technique in Optics,
Optik-International Journal for Light and Electron Optics, **117**(10), 481-488 (October 2006).
(<http://www.elsevier-deutschland.de/ijleo/>).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1016/j.ijleo.2005.11.010>).
9. Sameen Ahmed Khan,
Maxwell Optics of Quasiparaxial Beams,
Optik-International Journal for Light and Electron Optics, **121**(5), 408-416 (March 2010).
(<http://www.elsevier-deutschland.de/ijleo/>).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1016/j.ijleo.2008.07.027>).
10. Sameen Ahmed Khan,
Can the Photon Velocity be derived from the Klein-Gordon equation?,
Optik-International Journal for Light and Electron Optics, **122**(15), 1324-1325 (August 2011).
(<http://www.elsevier-deutschland.de/ijleo/>).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1016/j.ijleo.2010.08.016>).
(Available online since Saturday the 23 October 2010).

11. Sameen Ahmed Khan,
Farey Sequences and Resistor Networks,
Mathematical Sciences - Proceedings of the Indian Academy of Sciences, **122**(2), 153-182 (May 2012).
(Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1007/s12044-012-0066-7>);
Larger Version as E-Print arXiv: <http://arxiv.org/abs/1004.3346/>.
12. Sameen Ahmed Khan,
Aberrations in Maxwell Optics,
Optik-International Journal for Light and Electron Optics, **125**(3), 968-978 (February 2014).
(<http://www.elsevier-deutschland.de/ijleo/>).
(Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1016/j.ijleo.2013.07.097>).
(Available online since Saturday the 09 November 2013).
13. Sameen Ahmed Khan and Farooq Ahmed Khan,
Phenomenon of Motion of Salt along the Walls of the Container,
International Journal of Current Engineering and Technology (IJCET), **5**(1), 368-370 (February 2015).
ISSN: 2277-4106 and 2347-5161 (<http://inpressco.com/category/ijcet/>).
(Digital Object Identifier (**DOI**), <http://dx.doi.org/10.14741/Ijcet/22774106/5.1.2015.66>
14. Sameen Ahmed Khan,
Primes in Geometric-Arithmetic Progression,
Global Journal of Pure and Applied Mathematics (GJPAM), **12**(2), 1161-1180 (March-April 2016).
Print ISSN: 0973-1768 and Online ISSN: 0973-9750.
<http://www.ripublication.com/gjpam.htm>.
E-Print arXiv: <http://arxiv.org/abs/1203.2083>.
15. Sameen Ahmed Khan,
Passage from scalar to vector optics and the Mukunda-Simon-Sudarshan theory for paraxial systems,
Journal of Modern Optics, **63** (17), 1652-1660 (September 2016).
(Taylor & Francis, 2016).
(Digital Object Identifier (**DOI**): <http://dx.doi.org/10.1080/09500340.2016.1164257>).
(Available online since Friday the 25 March 2016).
16. Sameen Ahmed Khan,
Quantum Methodologies in Helmholtz Optics,
Optik-International Journal for Light and Electron Optics, **127**(20), 9798-9809 (October 2016).
(<http://www.elsevier-deutschland.de/ijleo/>).
(Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1016/j.ijleo.2016.07.071>).
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Optics & Photonics News (OPN), **27** (12), pp. 47 (December 2016).
(Monthly, Publication of the Optical Society of America, <http://www.osa-opn.org/>).
One of the thirty papers selected under the theme, *Optics in 2016*, highlighting the most exciting peer-reviewed optics research to have emerged over the past 12 months.
18. Sameen Ahmed Khan,
Hamilton's Optical-Mechanical Analogy in the Wavelength-dependent Regime,
Optik-International Journal for Light and Electron Optics, **130**(C), 714-722 (February 2017).
Elsevier, <http://dx.doi.org/10.1016/j.ijleo.2016.10.112>.
(Available online since Wednesday the 02 November 2016).
19. Sameen Ahmed Khan,
Linearization of Wave Equations,
Optik-International Journal for Light and Electron Optics, **131**, 350-363 (February 2017).
Elsevier, <http://dx.doi.org/10.1016/j.ijleo.2016.11.073>.
(Available online since Wednesday the 16 November 2016).

20. Sameen Ahmed Khan,
Polarization in Maxwell Optics,
Optik-International Journal for Light and Electron Optics, **131**, 733-748 (February 2017).
Elsevier, <http://dx.doi.org/10.1016/j.ijleo.2016.11.134>.
(Available online since Wednesday the 28 November 2016).
21. Sameen Ahmed Khan,
Coordinate Geometric Generalization of the Spherometer,
Far East Journal of Mathematical Sciences (FJMS), **101(3)**, 619-642 (February 2017).
Digital Object Identifier (DOI): <http://dx.doi.org/10.17654/MS101030619>.
Print ISSN: 0972-0871 and Online ISSN: 0973-700.
<http://www.pphmj.com/journals/fjms.htm>
22. Sameen Ahmed Khan and Modesto Pusterla,
On the form of Lorentz-Stern-Gerlach force,
10 pages, (*communicated*).
23. Sameen Ahmed Khan, Ramaswamy Jagannathan and Rajiah Simon,
Foldy-Wouthuysen transformation and a quasiparaxial approximation scheme for the scalar wave theory of light beams,
14 pages, (*communicated*).
24. Ramaswamy Jagannathan and Sameen Ahmed Khan,
Quantum Mechanics of Charged Particle Beam Optics,
(*in preparation*).
25. Sameen Ahmed Khan and Ramaswamy Jagannathan,
Quantum Methodology Approach to Light Beam Optics,
(*in preparation*).

The corrections to the traditional descriptions rigorously derived in the above articles have a significant bearing on the celebrated Scherzer Theorem in the wavelength-dependent regime in electron microscopy and the algebraically equivalent system of fiber optics. An application shall be made for a patent in the near future!

D. E-Prints[†]
<http://arXiv.org/>

1. Sameen Ahmed Khan,
An alternate way to obtain the aberration expansion in Helmholtz Optics,
 40 pages, *E-Print arXiv*: <http://arXiv.org/abs/physics/0210001/>.
2. Sameen Ahmed Khan,
Maxwell Optics: I. An exact matrix representation of the Maxwell equations in a medium,
 10 pages, *E-Print arXiv*: <http://arXiv.org/abs/physics/0205083/>.
3. Sameen Ahmed Khan,
Maxwell Optics: II. An Exact Formalism,
 23 pages, *E-Print arXiv*: <http://arXiv.org/abs/physics/0205084/>.
4. Sameen Ahmed Khan,
Maxwell Optics: III. Applications,
 13 pages, *E-Print arXiv*: <http://arXiv.org/abs/physics/0205085/>.
5. Sameen Ahmed Khan,
Wavelength-Dependent Effects in Maxwell Optics,
 58 pages, *E-Print arXiv*: <http://arXiv.org/abs/physics/0210027/>.
6. Sameen Ahmed Khan,
The bounds of the set of equivalent resistances of n equal resistors combined in series and in parallel,
 37 pages, *E-Print arXiv*: <http://arxiv.org/abs/1004.3346/>.
 (Wednesday the 21 April 2010).
7. Sameen Ahmed Khan,
Primes in Geometric-Arithmetic Progression,
 19 pages, *E-Print arXiv*: <http://arxiv.org/abs/1203.2083>.
 (Friday the 09 March 2012).
8. Sameen Ahmed Khan,
Coordinate Geometric Generalization of the Spherometer and Cylindrometer,
 35 pages, *E-Print archive arXiv*: <http://arxiv.org/abs/1311.3602/>.
 (Thursday the 14 November 2013).
9. Sameen Ahmed Khan,
A Statistical Approach to Prime Gaps and Andrica's Conjecture,
 9 pages, *E-Print arXiv*: <https://arxiv.org/abs/1702.08547>.
 (Tuesday the 14 February 2017).

E. In Proceedings & Preprints

1. S. A. Khan and R. Jagannathan,
Theory of relativistic electron beam transport based on the Dirac equation,
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Editor: S. N. Chintalapudi (IUC-DAEF, Kolkata (Calcutta)), pp. 102-107 (1996).
<http://cds.cern.ch/record/263573>
2. S. A. Khan and R. Jagannathan,
Quantum mechanics of charged particle beam optics: An operator approach,
 Preprint: IMSc-94/11 Presented at the **JSPS-KEK** International Spring School on High Energy Ion Beams — Novel Beam Techniques and their Applications, Japan, 17-29 March 1994.
<http://cds.cern.ch/record/263576>

[†]These E-Prints are being rewritten as long *Reports* or/and *Review Articles*

3. S. A. Khan,
Transport of Dirac-particle beams through magnetic quadrupoles,
Preprint: IMSc/96/33 (The Institute of Mathematical Sciences, Chennai (Madras), December 1996).
4. R. Jagannathan and S. A. Khan,
Quantum mechanics of accelerator optics,
ICFA Beam Dynamics Newsletter, **13**, pp. 21-27 (April 1997).
(**ICFA**: International Committee for Future Accelerators).
5. S. A. Khan,
Quantum theory of magnetic quadrupole lenses for spin- $\frac{1}{2}$ particles,
in: Proceedings of the 15th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics, (04-09 January 1998, Monterey, California USA),
Editor: Pisin Chen, (World Scientific, Singapore, 1999), pp. 682-694 (1999).
6. Sameen A. Khan,
Quantum aspects of accelerator optics,
in: Proceedings of the 1999 Particle Accelerator Conference (PAC99),
(29 March - 02 April 1999, New York City, NY), *Editors*: A. Luccio and W. MacKay,
(IEEE Catalogue Number: 99CH36366), Vol. 4, pp. 2817-2819 (1999).
(Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1109/PAC.1999.792948>).
7. Sameen A. Khan and Modesto Pusterla,
Quantum mechanical aspects of the halo puzzle,
in: Proceedings of the 1999 Particle Accelerator Conference (PAC99)
(29 March - 02 April 1999, New York City, NY), *Editors*: A. Luccio and W. MacKay,
(IEEE Catalogue Number: 99CH36366), Vol. 5, pp. 3280-3281 (1999).
(Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1109/PAC.1999.792276>).
8. Sameen A. Khan and Modesto Pusterla,
Quantum-like approaches to the beam halo problem,
in: Proceedings of the 6th International Conference on Squeezed States and Uncertainty Relations ICSSUR'99, (24-29 May 1999, Napoli, Italy)
Editors: D Han, Y S Kim, and S Solimeno,
(NASA Conference Publication Series, 2000-209899) pp. 438-441 (July 2000).
9. S. A. Khan,
Quantum mechanical formalism of particle beam optics,
in: Proceedings of the 18th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics (15-20 October 2000, Capri, Italy), *Editor*: Pisin Chen,
(World Scientific, Singapore, May 2002), pp. 517-526 (2002).
10. Sameen Ahmed Khan,
Analogies between light optics and charged-particle optics,
ICFA Beam Dynamics Newsletter, **27**, pp. 42-48 (June 2002).
Cited in:
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<http://web.mit.edu/redingtn/www/netadv/Xoptics.html>
11. Sameen Ahmed Khan,
Quantum Aspects of Charged-Particle Beam Optics,
in: Proceedings of the Fifth Saudi International Meeting on Frontiers of Physics 2016, SIMFP 2016,
(16-18 February 2016, Department of Physics, Jazan University, Gizan, Saudi Arabia). *Editors*: Ali Al-Kamli, Nurdogan Can, Galib Omar Souadi, Mohamed Fadhali, Abdelrahman Mahdy and Mahmoud Mahgoub,
AIP Conference Proceedings, 1742, 030008-1-030008-4 (10 June 2016). (American Institute of Physics); Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1063/1.4953129>.

12. Riti Sethi, Pravin Kumar, Sameen Ahmed Khan, Anver Aziz and Azher M. Siddiqui, **Effect of Nitrogen Ion Implantation on the Structural and Optical Properties of Indium Oxide Thin Films**, *in: Proceedings of the Fifth Saudi International Meeting on Frontiers of Physics 2016, SIMFP 2016*, (16-18 February 2016, Department of Physics, Jazan University, Gizan, Saudi Arabia). *Editors*: Ali Al-Kamli, Nurdogan Can, Galib Omar Souadi, Mohamed Fadhali, Abdelrahman Mahdy and Mahmoud Mahgoub, AIP Conference Proceedings, 1742, 030016-1–030016-5 (10 June 2016). (American Institute of Physics); Digital Object Identifier (DOI), <http://dx.doi.org/10.1063/1.4953137>.

F. Expository Publications

1. Sameen Ahmed Khan, **The World of Synchrotrons**, *Resonance Journal of Science Education*, **6**(11), 77-84 (November 2001). (Monthly Publication of the Indian Academy of Sciences (IAS), Copublished with Springer); (Digital Object Identifier (DOI), <http://dx.doi.org/10.1007/BF02868247>). *Larger Version as E-Print arXiv*: <http://arXiv.org/abs/physics/0112086/>. *Cited in*: **The Net Advance of Physics** (Review Articles and Tutorials in an Encyclopaedic Format), at <http://web.mit.edu/redingtn/www/netadv/Xsynchrotr.html>
2. Sameen Ahmed Khan, **Introduction to Synchrotron Radiation**, *Bulletin of the IAPT*, **19**(5), 149-153 (May 2002). (**IAPT**: Indian Association of Physics Teachers).
3. Sameen Ahmed Khan, **Electron Beams for Radiation**, *Kiran*, **13**(3), 40-42 (July 2002). (**Kiran**: the Bulletin of the Indian Laser Association).
4. Sameen Ahmed Khan, **Synchrotron Radiation (in Asia)**, ATIP Report No. **ATIP02.034**, 28 pages (21 August 2002). (**ATIP**: The Asian Technology Information Program, Tokyo, Japan, 2002).
5. Azher Majid Siddiqui and Sameen Ahmed Khan, **Ion Beam Channeling and Accelerator Programmes in India**, *MRSI Newsletter*, Vol. **B 02**, Number 4, pp. 3-5 (October 2002). (**MRSI**: Materials Research Society of India).
6. Fathiya Khamis Al Rawahi, Sameen Ahmed Khan and Abdul Huq, **Microsoft Excel in the Mathematics Classroom: A Case Study**, *in Proceedings of The Second Annual Conference for Middle East Teachers of Mathematics, Science and Computing (METSMaC 2006)*, The Petroleum Institute, Abu Dhabi, United Arab Emirates, 14-16 March 2006. *Editors*: Sean M Stewart, Janet E. Olearski and Douglas Thompson, pp. 131-134 (2006).
7. Sameen Ahmed Khan, **Microsoft Excel in the Physics Classroom**, *in Proceedings of The Third Annual Conference for Middle East Teachers of Mathematics, Science and Computing (METSMaC 2007)*, The Petroleum Institute, Abu Dhabi, United Arab Emirates, 17-19 March 2007. *Editors*: Seán M. Stewart, Janet E. Olearski, Peter Rodgers, Douglas Thompson and Emer A. Hayes, pp. 171-175 (2007).

8. Sameen Ahmed Khan,
Data Analysis Using Microsoft Excel in the Physics Laboratory,
Bulletin of the IAPT, **24**(6), 184-186 (June 2007).
(**IAPT**: Indian Association of Physics Teachers).
9. Sameen Ahmed Khan,
Cylindro-Spherometer,
Bulletin of the IAPT, **26**(1), 4-6 (January 2009).
(**IAPT**: Indian Association of Physics Teachers).
10. Sameen Ahmed Khan,
Quadratic Surfaces in Science and Engineering,
Bulletin of the IAPT, **Volume 2**(11), 327-330 (November 2010).
(**IAPT**: Indian Association of Physics Teachers).
11. Sameen Ahmed Khan,
Cylindrometer,
The Physics Teacher, **48**(9), 607 (December 2010).
(**AAPT**: American Association of Physics Teachers).
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12. Sameen Ahmed Khan,
Speed of Sound in Air at varying Temperatures,
Bulletin of the IAPT, **4**(5), 116-117 (May 2012).
(**IAPT**: Indian Association of Physics Teachers).
13. Sameen Ahmed Khan,
How many equivalent resistances?,
Resonance Journal of Science Education, **17**(5), 468-475 (May 2012).
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Larger Version as E-Print arXiv: <http://arxiv.org/abs/1004.3346/>).
14. Sameen Ahmed Khan,
Floating Ring Magnets,
Bulletin of the IAPT, **4**(6), 145 (June 2012).
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15. Sameen Ahmed Khan,
Coordinate Geometric Approach to Spherometer,
Bulletin of the IAPT, **5**(6), 139-142 (June 2013).
(**IAPT**: Indian Association of Physics Teachers).
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16. Sameen Ahmed Khan,
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Physics Education, **29** (4), Article Number: 5 (October-December 2013).
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17. Sameen Ahmed Khan,
Beginning to count the Number of Equivalent Resistances,
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Print ISSN: 0974-6846 and **Online ISSN**: 0974-5645, <http://www.indjst.org/>
18. Sameen Ahmed Khan,
Doing Numerical Calculus using Microsoft EXCEL,
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Digital Object Identifier (**DOI**): <http://dx.doi.org/10.17485/ijst/2016/v9i44/87217>.
Print ISSN: 0974-6846 and **Online ISSN**: 0974-5645, <http://www.indjst.org/>

19. Sameen Ahmed Khan,
Sonometer,
(*in preparation*).
20. Azher Majid Siddiqui and Sameen Ahmed Khan,
Introduction to Ion Beam Channeling,
(*in preparation*).
21. Azher Majid Siddiqui and Sameen Ahmed Khan,
Accelerator-Based Techniques and Applications in Research and Industry,
(*in preparation*).

G. Articles in Preparation

- Ramaswamy Jagannathan and Sameen Ahmed Khan,
Quantum Mechanics of Charged Particle Beam Optics.
- Sameen Ahmed Khan,
Quantum Methodologies in Light Beam Optics.
- Sameen Ahmed Khan,
Unified treatment of beam-optics and light polarization.
- Sameen Ahmed Khan,
Set Theoretic properties of Resistor Networks.
- Sameen Ahmed Khan,
Generalized Spherometer.
- Sameen Ahmed Khan,
Why is the Foldy-Wouthuysen transform so little known in optics?.
- Sameen Ahmed Khan and R. Jagannathan *et al*,
Maxwell Optics: IV. Polarization.
- Sameen Ahmed Khan and Kurt Bernardo Wolf,
Equivalent and nonequivalent astigmatic Hamiltonians.
- M. Conte, R. Jagannathan, S. A. Khan and M. Pusterla,
A quantum mechanical formalism for studying the transport of Dirac-particle beams through magnetic optical elements in accelerators.
- S. A. Khan,
Anomalous moments ... Thomas-BMT ...
- S. A. Khan and R. Jagannathan,
Quantum theory of aberrations in charged-particle beam optics.
- Sameen A. Khan and Modesto Pusterla,
A diffraction model for the beam halo problem.
- And Others...

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Integer Sequences

<http://www.research.att.com/~njas/sequences/>

<http://NeilSloane.com/>

<http://oeis.org/>

<http://www.oeisf.org/>

<http://SameenAhmedKhan.webs.com/integer-sequences.html>

Integer Sequences

The set of equivalent resistances formed by any conceivable network (series/parallel or bridge, or non-planar configurations) of n equal resistors has over twenty Integer Sequences associated with it. Ten new Integer Sequences occurring in the following article are listed below:

1. Sameen Ahmed Khan,
The bounds of the set of equivalent resistances of n equal resistors combined in series and in parallel,
37 pages, *E-Print arXiv*: <http://arxiv.org/abs/1004.3346/>.
(Wednesday the 21 April 2010).
 2. Sameen Ahmed Khan,
Farey Sequences and Resistor Networks,
Mathematical Sciences - Proceedings of the Indian Academy of Sciences, **122**(2) 153-182 (May 2012).
(Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1007/s12044-012-0066-7>);
Larger Version as E-Print arXiv: <http://arxiv.org/abs/1004.3346/>.
 3. Sameen Ahmed Khan,
How many equivalent resistances?,
Resonance Journal of Science Education, **17**(5), pp. 468-475 (May 2012).
(Monthly Publication of the Indian Academy of Sciences (**IAS**), Copublished with Springer), (Digital Object Identifier (**DOI**), <http://dx.doi.org/10.1007/s12045-012-0050-7>);
Larger Version as E-Print arXiv: <http://arxiv.org/abs/1004.3346/>.
 4. Sameen Ahmed Khan,
Number Theory and Resistor Networks,
Chapter-5 in:
Resistors: Theory of Operation, Behavior and Safety Regulations,
Editor: Roy Abi Zeid Daou,
(Nova Science Publishers, New York, 2013, <http://www.novapublishers.com/>).
pp. 99-154 (May 2013).
(Hard Cover: pp. 99-154, ISBN-10: 1622577884 and ISBN-13: 978-1-62257-788-0).
(ebook: pp. ???-???, ISBN-10: 1626187959 and ISBN-13: 978-1-62618-795-5).
-
1. Sameen Ahmed Khan,
Sequence A174283: 1, 2, 4, 9, 23, 57, 151, 409, ...,
Order of the Set of distinct resistances that can be produced using n equal resistors in, series, parallel and/or bridge configurations,
N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
published electronically at: <http://oeis.org/A174283>
(Monday the 15 March 2010).

2. Sameen Ahmed Khan,
Sequence A174284: 1, 3, 7, 15, 35, 79, 193, 489, ...,
Order of the Set of distinct resistances that can be produced using at most n equal resistors (n or fewer resistors) in series, parallel and/or bridge configurations,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A174284>
 (Monday the 15 March 2010).
3. Sameen Ahmed Khan,
Sequence A174285: 0, 0, 0, 0, 1, 3, 17, 53, ...,
Order of the Set of distinct resistances that can be produced using n equal resistors in, series and/or parallel, confined to the five arms (four arms and the diagonal) of a bridge configuration,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A174285>
 (Monday the 15 March 2010).
4. Sameen Ahmed Khan,
Sequence A174286: 0, 0, 0, 0, 1, 3, 19, 67, ...,
Order of the Set of distinct resistances that can be produced using at most n equal resistors (n or fewer resistors) in, series and/or parallel, confined to the five arms (four arms and the diagonal) of a bridge configuration,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A174286>
 (Monday the 15 March 2010).
5. Sameen Ahmed Khan,
Sequence A176497: 0, 0, 0, 1, 4, 9, 25, 75, 195, 475, 1265, 3135, 7983, 19697, 50003, 126163, 317629, 802945, 2035619, 5158039, 13084381, 33240845, 84478199, ...,
Order of the Cross Set which is the subset of the set of distinct resistances that can be produced using n equal resistors in series and/or parallel,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A176497>
 (Wednesday the 21 April 2010).
6. Sameen Ahmed Khan,
Sequence A176498: 0, 0, 0, 0, 0, 0, 0, 0, 1, 6, 9, 24, 58, 124, 312, ...,
Number of elements less than half in the Cross Set which is the subset of the set of distinct resistances that can be produced using n equal resistors in series and/or parallel,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A176498>
 (Wednesday the 21 April 2010).
7. Sameen Ahmed Khan,
Sequence A176499: 2, 3, 5, 11, 23, 59, 141, 361, 941, 2457, 6331, 16619, 43359, 113159, 296385, 775897, 2030103, 5315385, 13912615, 36421835, 95355147, 249635525, 653525857, 1710966825, 4479358275, 11726974249, 30701593527, 80377757397, 210431301141, ...,
Haros-Farey Sequence whose argument is the Fibonacci Number; Farey(m) where $m = \text{Fibonacci}(n + 1)$,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A176499>
 (Wednesday the 21 April 2010).
8. Sameen Ahmed Khan,
Sequence A176500: 1, 3, 7, 19, 43, 115, 279, 719, 1879, 4911, 12659, 33235, 86715, 226315, 592767, 1551791, 4060203, 10630767, 27825227, 72843667, 190710291, 499271047, 1307051711, 3421933647, 8958716547, 23453948495, 61403187051, 160755514791, 420862602279, ...,
2Farey(m) - 3 where $m = \text{Fibonacci}(n + 1)$,
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A176500>
 (Wednesday the 21 April 2010).

9. Sameen Ahmed Khan,
Sequence A176501: 1, 2, 4, 9, 19, 50, 122, 317, 837, 2213, 5758, 15236, 40028, 105079, 276627, 727409, 1910685, 5020094, ...,
Farey(m; I) where m = Fibonacci (n + 1) and I = [1/n, 1],
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A176501>
 (Wednesday the 21 April 2010).
10. Sameen Ahmed Khan,
Sequence A176502: 1, 3, 7, 17, 37, 99, 243, 633, 1673, 4425, 11515, 30471, 80055, 210157, 553253, 1454817, 3821369, 10040187, ...,
2Farey(m; I) - 1 where m = Fibonacci (n + 1) and I = [1/n, 1],
 N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at: <http://oeis.org/A176502>
 (Wednesday the 21 April 2010).

Integer Sequences for the difference for Primes in Arithmetic Progression with the minimal start Sequence $\{p_1 + jd\}_{j=0}^{j=k-1}$

11. Sameen Ahmed Khan,
Sequence A206037: 2, 4, 8, 10, 14, 20, 28, 34, 38, 40, 50, 64, 68, 80, 94, 98, 104, 110, 124, 134, 154, 164, 178, 188, 190, 208, 220, 230, 238, 248, ...,
Values of the difference d for 3 primes in arithmetic progression with the minimal start sequence $\{3 + j * d\}$, $j = 0$ to 2.,
 in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at <http://oeis.org/A206037>
 (Friday the 03 February 2012).
12. Sameen Ahmed Khan,
Sequence A206038: 6, 12, 18, 42, 48, 54, 84, 96, 126, 132, 252, 348, 396, 426, 438, 474, 594, 636, 642, 648, 678, 804, 858, 1176, 1218, 1272, 1302, 1314, 1362, 1428, ...,
Values of the difference d for 4 primes in arithmetic progression with the minimal start sequence $\{5 + j * d\}$, $j = 0$ to 3.,
 in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at <http://oeis.org/A206038>
 (Friday the 03 February 2012).
13. Sameen Ahmed Khan,
Sequence A206039: 6, 12, 42, 48, 96, 126, 252, 426, 474, 594, 636, 804, 1218, 1314, 1428, 1566, 1728, 1896, 2106, 2574, 2694, 2898, 3162, 3366, 4332, 4368, 4716, 4914, 4926, ...,
Values of the difference d for 5 primes in arithmetic progression with the minimal start sequence $\{5 + j * d\}$, $j = 0$ to 4.,
 in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at <http://oeis.org/A206039>
 (Friday the 03 February 2012).
14. Sameen Ahmed Khan,
Sequence A206040: 30, 150, 930, 2760, 3450, 4980, 9150, 14190, 19380, 20040, 21240, 28080, 33930, 57660, 59070, 63600, 69120, 76710, 80340, 81450, 97380, 100920, 105960, ...,
Values of the difference d for 6 primes in arithmetic progression with the minimal start sequence $\{7 + j * d\}$, $j = 0$ to 5.,
 in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at <http://oeis.org/A206040>
 (Friday the 03 February 2012).

15. Sameen Ahmed Khan,
Sequence A206041: 150, 2760, 3450, 9150, 14190, 20040, 21240, 63600, 76710, 117420, 122340, 134250, 184470, 184620, 189690, 237060, 274830, 312000, 337530, 379410, ...,
Values of the difference d for 7 primes in arithmetic progression with the minimal start sequence $\{7 + j * d\}$, $j = 0$ to 6.,
 in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at <http://oeis.org/A206041>
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16. Sameen Ahmed Khan,
Sequence A206042: 1210230, 2523780, 4788210, 10527720, 12943770, 19815600, 22935780, 28348950, 28688100, 32671170, 43443330, 47330640, 51767520, 54130440, ...,
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 published electronically at <http://oeis.org/A206042>
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Sequence A206043: 32671170, 54130440, 59806740, 145727400, 224494620, 246632190, 280723800, 301125300, 356845020, 440379870, 486229380, 601904940, 676987920, ...,
Values of the difference d for 9 primes in arithmetic progression with the minimal start sequence $\{11 + j * d\}$, $j = 0$ to 8.,
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 published electronically at <http://oeis.org/A206043>
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18. Sameen Ahmed Khan,
Sequence A206044: 224494620, 246632190, 301125300, 1536160080, 1760583300, 4012387260, 4911773580, 7158806130, 8155368060, 15049362300, 15908029410, ...,
Values of the difference d for 10 primes in arithmetic progression with the minimal start sequence $\{11 + j * d\}$, $j = 0$ to 9.,
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 published electronically at <http://oeis.org/A206044>
 (Friday the 03 February 2012).
19. Sameen Ahmed Khan,
Sequence A206045: 1536160080, 4911773580, 25104552900, 77375139660, 83516678490, 100070721660, 150365447400, 300035001630, 318652145070, 369822103350, 377344636200, 511688932650, ...,
Values of the difference d for 11 primes in arithmetic progression with the minimal start sequence $\{11 + j * d\}$, $j = 0$ to 10.,
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Values of the difference d for the geometric-arithmetic progression $\{3 * 3^j + jd\}_{j=0}^2$ to be a set of 3 primes,
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 published electronically at <http://oeis.org/A209202>
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Sequence A209203: 6, 12, 16, 28, 34, 36, 54, 76, 78, 84, 114, 124, 132, 138, 142, 148, 154, 166, 168, 208, 226, 258, 268, 288, 324, 348, 376, 414, 436, 442, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{5 * 5^j + jd\}_{j=0}^3$ to be a set of 4 primes,
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 published electronically at <http://oeis.org/A209203>
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22. Sameen Ahmed Khan,
Sequence A209204: 84, 114, 138, 168, 258, 324, 348, 462, 552, 588, 684, 714, 744, 798, 882, 894, 972, 1176, 1602, 1734, 2196, 2256, 2442, 2478, 2568, 2646, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{5 * 5^j + jd\}_{j=0}^4$ to be a set of 5 primes,
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 published electronically at <http://oeis.org/A209204>
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Sequence A209205: 144, 1494, 1740, 2040, 3324, 4044, 6420, 12804, 13260, 13464, 13620, 15444, 25824, 31524, 31674, 31680, 32124, 33720, 38064, 40410, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{7 * 7^j + jd\}_{j=0}^5$ to be a set of 6 primes,
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 published electronically at <http://oeis.org/A209205>
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Sequence A209206: 3324, 13260, 38064, 46260, 51810, 54510, 58914, 76050, 81510, 82434, 109800, 119340, 120714, 132390, 141480, 154254, 167904, 169734, 185040, . . . ,
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 published electronically at <http://oeis.org/A209206>
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25. Sameen Ahmed Khan,
Sequence A209207: 62610, 165270, 420300, 505980, 669780, 903030, 932400, 1004250, 1052610, 1093080, 1230270, 1231020, 1248120, . . . ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^7$ to be a set of 8 primes,
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 published electronically at <http://oeis.org/A209207>
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Sequence A209208: 903030, 1004250, 3760290, 7296450, 7763520, 17988210, 28962390, 29956950, 33316320, 37265160, 39013800, 39768150, 43920480, 50110620, 54651480, 56388810, 74306610, 74679810, 75911850, 89115210, 92619690, 98518800, ... ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^8$ to be a set of 9 primes,
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Sequence A209209: 903030, 17988210, 28962390, 39768150, 74306610, 89115210, 116535300, 173227980, 186013380, 237952050, 359613030, 386317920, 392253990, 443687580, 499153200, 548024610, 591655080, ... ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^9$ to be a set of 10 primes,
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Sequence A209210: 443687580, 591655080, 1313813550, 2868131100, 3525848580, 3598823970, 4453413120, 6075076800, 6644124480, 7429693770, 9399746580, ... ,
Values of the difference d for the geometric-arithmetic progression $\{11 * 11^j + jd\}_{j=0}^{10}$ to be a set of 11 primes,
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Sequence A227280: 81647160420, 170655787050, 211212209880, 227961624450, ... ,
Values of the difference d for 12 primes in geometric-arithmetic progression with the minimal sequence $\{13 * 13^j + j * d\}_{j=0}^{11}$,
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 k primes each with the common difference $k\#$
 Minimal Difference Sequence $\{p_1 + j * (k\#)\}_{j=0}^{j=k-1}$**

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Sequence A227281: 7, 11, 37, 107, 137, 151, 277, 359, 389, 401, 541, 557, 571, 877, 1033, 1493, 1663, 2221, 2251, 2879, 3271, 6269, 6673, 6703, 7457, 7487, 9431, 10103, 10133, 10567, 11981, 12457, 12973, 14723, 17047, 19387, 24061, 25643, 25673, 26861, 26891, 27337, ... ,
First primes of arithmetic progressions of 5 primes each with the common difference 30,
 in N. J. A. Sloane (*Editor*), *The On-Line Encyclopedia of Integer Sequences*,
 published electronically at <http://oeis.org/A227281>
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31. Sameen Ahmed Khan,
Sequence A227282: 47, 179, 199, 409, 619, 829, 881, 1091, 1453, 3499, 3709, 3919, 10529, 10627, 10837, 10859, 11069, 11279, 14423, 20771, 22697, 30097, 30307, 31583, 31793, 32363, 41669, 75703, 93281, 95747, 120661, 120737, 120871, 120947, 129287, 140603, 153319, ...,
First primes of arithmetic progressions of 7 primes each with the common difference 210,
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published electronically at <http://oeis.org/A227282>
(Friday the 05 July 2013).
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Sequence A227283: 199, 409, 619, 881, 3499, 3709, 10627, 10859, 11069, 30097, 31583, 120661, 120737, 153319, 182537, 471089, 487391, 564973, 565183, 825991, 1010747, 1280623, 1288607, 1288817, 1302281, 1302491, 1395209, 1982599, 2358841, 2359051, 2439571, ...,
First primes of arithmetic progressions of 8 primes each with the common difference 210,
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Sequence A227284: 199, 409, 3499, 10859, 564973, 1288607, 1302281, 2358841, 3600521, 4047803, 17160749, 20751193, 23241473, 44687567, 50655739, 53235151, 87662609, 100174043, 103468003, 110094161, 180885839, 187874017, 192205147, 221712811, 243051733, ...,
First primes of arithmetic progressions of 9 primes each with the common difference 210,
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(Friday the 05 July 2013).
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Sequence A227285: 60858179, 186874511, 291297353, 1445838451, 2943023729, 4597225889, 7024895393, 8620560607, 8656181357, 19033631401, 20711172773, 25366690189, 27187846201, 32022299977, 34351919351, ...,
First primes of arithmetic progressions of 11 primes each with the common difference 2310,
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published electronically at <http://oeis.org/A227285>
(Friday the 05 July 2013).
35. Sameen Ahmed Khan,
Sequence A227286: 14933623, 2085471361, ...,
First primes of arithmetic progressions of 13 primes each with the common difference 30030,
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(Nova Science Publishers, New York, 2016, <http://www.novapublishers.com/>).
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ATIP Report No. **ATIP02.034**, 28 pages (21 August 2002).
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Jordan to host Middle East Synchrotron,
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SESAME: The First Synchrotron Facility in the Middle East,
AAPPS Bulletin, **10**(2), 36-39 (December 2000).
(**AAPPS**: Association of Asia Pacific Physical Societies).
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BaKhabar, **9** (02), 5-6 (February 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
- (b) Sameen Ahmed Khan,
Iran Launches Mustafa Prize,
Radiancance Viewsweekly, **Vol. LIII**, No. 45, pp. 28-29 (0713 February 2016).
The Prizes are awarded in alternate years by the Government of Iran, <http://mustafaprize.org/>.
193. (a) Sameen Ahmed Khan,
King Faisal International Prizes for 2016,
BaKhabar, **9** (02), 29-32 (February 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
- (b) Sameen Ahmed Khan,
King Faisal International Prizes for 2016,
Radiancance Viewsweekly, **Vol. LIII**, No. 47, pp. 26-29 (21-27 February 2016).
The Prizes are awarded every year by the King Faisal Foundation (**KFF**), Saudi Arabia.
194. (a) Sameen Ahmed Khan,
Introspecting on the International Year of Light,
BaKhabar, **9** (03), 7-10 (March 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
- (b) Sameen Ahmed Khan,
Introspecting on the International Year of Light,
Radiancance Viewsweekly, **Vol. LIV**, No. 1, pp. 20-22 (03-09 April 2016).
195. (a) Sameen Ahmed Khan,
Report: Second National Urdu Science Congress,
(*Report of the Second National Urdu Science Congress, 20-21 February 2016, Aligarh, India*),
BaKhabar, **9** (03), 17-19 (March 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
- (b) Sameen Ahmed Khan,
Second National Urdu Science Congress 2016 Held at Aligarh,
(*Report of the Second National Urdu Science Congress, 20-21 February 2016, Aligarh, India*),
Radiancance Viewsweekly, **Vol. LIII**, No. 49, pp. ??-?? (06-12 March 2016).
196. Sameen Ahmed Khan,
Iran Launches the Mustafa Prize for Sciences,
Current Science, **110** (6), 961 (25 March 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prizes are awarded in alternate years by the Government of Iran, <http://mustafaprize.org/>.
197. Sameen Ahmed Khan,
Medieval Arab Contributions to Optics,
Digest of Middle East Studies (DOMES), **25**(1), pp. 19-35 (Spring 2016).
Digital Object Identifier (**DOI**): <http://dx.doi.org/10.1111/dome.12065>
(Available online since Thursday the 25 February 2016).
198. (a) Hajira Khan and Sameen Ahmed Khan,
Better Health with Honey,
Radiancance Viewsweekly, **Vol. LIV**, No. 1, pp. 27-29 (03-09 April 2016).
- (b) Hajira Khan and Sameen Ahmed Khan,
Honey for Health,
BaKhabar, **9** (05), 31-32 (May 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
199. Sameen Ahmed Khan,
2016 King Faisal International Prize for Science and Medicine,
Current Science, **110** (7), 1140-1141 (10 April 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prizes are awarded every year by the King Faisal Foundation (**KFF**), Saudi Arabia.

200. Hajira Khan and Sameen Ahmed Khan,
Date Palm Revisited,
Research Journal of Pharmaceutical, Biological and Chemical Sciences (RJPBCS), **7**(3), 2010-2019 (May-June 2016).
ISSN: 0975-8585; <http://www.rjpbc.com/>.
201. Hajira Khan and Sameen Ahmed Khan,
Blessed Tree of Olive,
Asian Journal of Pharmaceutical and Clinical Research (AJPCR), **9**(3), 32-34 (May-June 2016).
Print ISSN: 09742441 and Online ISSN: 24553891.
<http://innovareacademics.in/journals/index.php/ajpcr/article/view/11677>.
202. Sameen Ahmed Khan,
Predhiman Krishan Kaw bags the 2015 Subrahmanyam Chandrasekhar Prize of Plasma Physics,
Current Science, **111** (03), 458 (10 August 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prize is awarded by the Division of Plasma Physics under Association of Asia Pacific Physical Societies.
203. Sameen Ahmed Khan,
Reflecting on the International Year of Light and Light-based Technologies,
Current Science, **111** (04), 627-631 (25 August 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
Digital Object Identifier (DOI), <http://dx.doi.org/10.18520/cs/v111/i4/627-631>.
204. (a) Sameen Ahmed Khan,
Ahmed Hassan Zewail (1946-2016),
Radiance Viewsweekly, Vol. LIV, No. 22, pp. 28-29 (28 August - 03 September 2016).
(b) Sameen Ahmed Khan,
Life and Times of Ahmed Hassan Zewail,
BaKhabar, **9** (09), 3-4 (September 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
(c) Sameen Ahmed Khan,
Nobel Prize Chemist Ahmed Hassan Zewail Dies,
Pakistan Link, Vol. **26/38**, pp. ??? (Friday the 02 September 2016, 30 Dhul-qi'dah 1437).
(Published from Irvine, California, USA).
205. Sameen Ahmed Khan,
Ahmed Hassan Zewail (1946-2016),
Current Science, **111** (05), 936-937 (10 September 2016).
(Fortnightly Publication of the Indian Academy of Sciences).
206. (a) Sameen Ahmed Khan,
Prof Niyaz Ahmed Wins Prestigious Prize in Medical Sciences,
Pakistan Link, Vol. **26/40**, pp. ??? (Friday the 30 September 2016, 28 Dhul-Hijjah 1437).
(Published from Irvine, California, USA).
(b) Sameen Ahmed Khan,
Niyaz Ahmed Conferred the Shanti Swarup Bhatnagar Prize in Medical Sciences,
BaKhabar, **9** (10), 19-20 (October 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
(c) Sameen Ahmed Khan,
Niyaz Ahmed Conferred the Shanti Swarup Bhatnagar Prize in Medical Sciences,
Islamic Voice, **28-10**, No. 358, pp. 15 (October 2016, Zeehijja/Muharram 1438 H).
(d) Sameen Ahmed Khan,
Niyaz Ahmed Conferred Shanti Swarup Bhatnagar Prize in Medical Sciences,
Radiance Viewsweekly, Vol. LIV, No. 28, pp. 28-29 (09-15 October 2016).

207. (a) Hajira Khan and Sameen Ahmed Khan,
Our Multiplication Tables,
Radiance Viewsweekly, Vol. LIV, No. 31, pp. 16-17 (30 October - 05 November 2016).
- (b) Hajira Khan and Sameen Ahmed Khan,
Multiplication Table,
BaKhabar, 9 (11), 16-17 (November 2016).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
208. Sameen Ahmed Khan,
Beginning to count the Number of Equivalent Resistances,
Indian Journal of Science and Technology (INDJST), 9(44), 1-7 (November 2016).
Digital Object Identifier (DOI): <http://dx.doi.org/10.17485/ijst/2016/v9i44/88086>.
Print ISSN: 0974-6846 and Online ISSN: 0974-5645, <http://www.indjst.org/>
209. Sameen Ahmed Khan,
Doing Numerical Calculus using Microsoft EXCEL,
Indian Journal of Science and Technology (INDJST), 9(44), 1-5 (November 2016).
Digital Object Identifier (DOI): <http://dx.doi.org/10.17485/ijst/2016/v9i44/87217>.
Print ISSN: 0974-6846 and Online ISSN: 0974-5645, <http://www.indjst.org/>
210. Sameen Ahmed Khan,
How to shine a brighter light on light,
Letter in Physics World, 30(1), 23 (January 2017).
(Digital Object Identifier (DOI), <http://dx.doi.org/10.1088/2058-7058/30/1/33>).
211. (a) Sameen Ahmed Khan,
King Faisal International Prizes for 2017,
Radiance Viewsweekly, Vol. LIV, No. 43, pp. 89-92 (22-28 January 2017).
- (b) Sameen Ahmed Khan,
2017 King Faisal International Prizes,
BaKhabar, 10 (02), 4-7 (February 2017).
Published by Bihar Anjuman, <http://bakhabar.biharanjuman.org/>.
The Prizes are awarded every year by the King Faisal Foundation (KFF), Saudi Arabia.
212. Sameen Ahmed Khan,
2017 King Faisal Prize awarded to Daniel Loss and Laurens Molenkamp,
e-EPS Newsletter (23 February 2017).
(*e-EPS* is the monthly Newsletter of the European Physical Society).
The Prizes are awarded every year by the King Faisal Foundation (KFF), Saudi Arabia.
213. Sameen Ahmed Khan,
2017 King Faisal International Prize for Science and Medicine,
Current Science, 112 (06), 1088-1090 (25 March 2017).
(Fortnightly Publication of the Indian Academy of Sciences).
The Prizes are awarded every year by the King Faisal Foundation (KFF), Saudi Arabia.
214. Sameen Ahmed Khan,
Need to Create Regional Science Centres in the Developing Countries,
For the *Proceedings of Higher Education in Developing Countries: With a Focus on Muslim Contexts*, The Aga Khan University Institute for the Study of Muslim Civilisations, (AKU-ISMC), (24-25 February 2005, London, UK).
10 pages (*communicated*).
215. Sameen Ahmed Khan,
E-Learning Challenges and Prospects in the Middle East,
The Online Virtual Conference of the World Forum on Information Society (WFIS), (31 March - 13 November 2005), *Pre-Cursor* to the **IRFD World Forum 2005**, 14-16 November
Conference on Digital Divide, Global Development and the Information Society, Organized by **United Nations World Summit on the Information Society**, Tunis, Tunisia.
(**IRFD**: International Research Foundation for Development).
06 pages (*submitted*).

216. Sameen Ahmed Khan,
Solar Cells Technology bags the 2015 King Faisal International Prize,
(*in preparation*).
217. Sameen Ahmed Khan,
Medieval Arab Contributions to Optics;
Medieval Arab Contributions to Physics;
Medieval Arab Contributions to Mathematics.
(*in preparation*).
218. Sameen Ahmed Khan,
ICTP Golden Jubilee Celebrations,
(*in preparation*).
ICTP the The Abdus Salam International Centre for Theoretical Physics is located in Trieste the Science City in Italy.
219. Sameen Ahmed Khan,
Sonometer,
(*in preparation*).
220. Azher Majid Siddiqui and Sameen Ahmed Khan,
Introduction to Ion Beam Channeling.
(*in preparation*).
221. Sameen Ahmed Khan,
Set Theoretic properties of Resistor Networks.

In March 2005, I was appointed as the *Regular Correspondent* for the ICFA Beam Dynamics Panel Newsletters, for the regions of Middle East & Africa. ICFA, the International Committee for Future Accelerators, provides a forum to discuss and implement plans for further promoting collaborative accelerator-based science. Its primary purpose is to strengthen collaboration in accelerator-based science, to encourage future projects, and to make recommendations to governments. Further details at:

<http://icfa-usa.jlab.org/archive/newsletter.shtml>

**PARTICIPATION IN CONFERENCES/SEMINARS/COLLOQUIA
VISITS TO INSTITUTIONS**

1. 07-15 November 1993
The CERN Accelerator School: Physics & Engineering for Particle Accelerators,
Held at: Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, India.
2. 25-27 November 1993
3rd National Seminar on Physics and Technology of Particle Accelerators and their Applications PATPAA-93. *Held at:* IUC-DAEF, Kolkata (Calcutta) Centre, India,
Poster: **Theory of relativistic electron beam transport based on the Dirac equation.**
3. 17-29 March 1994
JSPS-KEK International Spring School: High Energy Ion Beams—Novel Beam Techniques and their Applications, *Held in Japan at:*
National Laboratory for High Energy Physics (KEK)
Institute of Nuclear Study (INS)
Institute of Physical and Chemical Research (RICKEN)
Talk: **Quantum mechanics of charged particle beam optics: An operator approach.**
4. 23 January - 10 February 1995
SERC School[§] on Coherence and Correlations in Modern Optics and Quantum Physics,
Held at: The Institute of Mathematical Sciences, Chennai (Madras), India
Talk: **Charged Particle Optics — A Wigner function approach.**
5. 11 November 1995
High-Energy Physics in the 21st Century,
61st Annual Meeting of Indian Academy of Science,
Held at: Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, India.
6. 09 March 1996
Workshop on Internet for Educational and Research Organizations,
Held at: The Institute of Mathematical Sciences, Chennai (Madras), India
7. 22-23 August 1996
Young Physicists Colloquium,
Organized by: The Indian Physical Society (IPS), Kolkata (Calcutta), India,
Talk: **Beam optics of the Dirac particle.**
8. 10-15 January 1997
International Conference on Dynamical Systems,
Held at: The Indian Institute of Science, Bangalore, India,
Poster: **Transport of Dirac-particle beams through magnetic quadrupoles.**
9. 13-25 January 1997
School on Physics of Beams,
Held at: Raja Ramanna Centre for Advanced Technology (RRCAT), Indore, India,
Talk: **Beam optics of the Dirac particle.**
10. 03-21 March 1997
Winter College on Quantum Optics: Novel Radiation Sources,
Held at: The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy,
Talk: **Quantum mechanical approach to beam physics.**
11. 25-27 March 1997
Dipartimento di Fisica Galileo Galilei
Università di Padova
Istituto Nazionale di Fisica Nucleare (INFN),
Sezione di Padova, Padua/Padova, Italy.
12. 19-22 November 1997
Salam Memorial Meeting
Held at: The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy.

[§] Actively involved in capacity as the **Member of the Local Organizing Committee** and **Publicity Secretary**. The School Circular appeared in numerous places including, *CERN Courier*, 34(9), 23-24 (November 1994); and *AAPPS Bulletin*.

13. 09-13 December 1997
Istituto Nazionale di Fisica Nucleare (INFN),
Sezione di Naples, Naples, Italy.
Talk-I: Transport of Dirac particle beams through magnetic quadrupoles
Talk-II: Wigner function approach to quantum theory of charged-particle beam optics.
14. 04-09 January 1998
15th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics,
Monterey, California, USA,
Talk: Quantum theory of magnetic quadrupole lenses for spin- $\frac{1}{2}$ particles.
15. 12-14 January 1998
Center for Beam Physics,
Ernest Orlando Lawrence Berkeley National Laboratory (LBNL),
University of California, Berkeley, USA.
Quantum theory of magnetic quadrupole lenses for spin- $\frac{1}{2}$ particles.
16. 19-30 January 1998
US Particle Accelerator School (USPAS),
University of Texas at Austin, Austin, USA.
17. 13-15 May 1998
Workshop on Non-Linear Problems in Charged-Particle Beam Transport in Linear and Recirculated Accelerators, Analysis of Transverse and Longitudinal Instabilities,
Italian National Agency for New Technology, Energy and Environment (ENEA), Frascati, Italy,
Talk: Quantum methodology in beam physics.
18. 28 June - 05 July 1998
Deutsches Elektronen-Synchrotron (DESY),
Hamburg, Germany.
Talk: Quantum theory of accelerator optics.
19. 09-10 November 1998
Fermi National Accelerator Laboratory (Fermilab),
Batavia, Illinois, USA.
Talk: Quantum theory of charged-particle optics.
20. 12-13 November 1998
Brookhaven National Laboratory (BNL),
Upton, New York, USA.
Talk: Quantum theory of charged-particle optics.
21. 20-26 March 1999
Centennial Meeting of the American Physical Society,
Held at: Atlanta, Georgia, USA,
Talk: Quantum aspects of charged-particle beam optics.
22. 29 March - 02 April 1999
1999 Particle Accelerator Conference (PAC99),
Held at: New York City, USA,
Poster-I: Quantum aspects of accelerator optics,
Poster-II: Quantum mechanical aspects of the halo puzzle.
23. 24-29 May 1999
6th International Conference on Squeezed States and Uncertainty Relations (ICSSUR'99),
Held at: Dipartimento di Scienze Fisiche, Università di Napoli "Federico II", Napoli, Italy,
Poster: Quantum-like approaches to the beam halo problem.
24. 15-17 December 1999.
National Laser Symposium (NLS-1999),
Held at: School of Physics, University of Hyderabad,
Hyderabad, India.
25. 29 January - 29 February 2000
The Institute of Mathematical Sciences (IMSc/Matscience),
Chennai (Madras), India.

26. 15-20 October 2000
18th Advanced ICFA Beam Dynamics Workshop on Quantum Aspects of Beam Physics,
Capri, Italy,
Talk: Quantum formalism of beam optics.
27. 21-26 October 2000
Dipartimento di Fisica,
Università di Salerno,
Salerno, Italy
28. 23 October 2000
Mini Workshop on Quantum Methodologies in Beam Physics,
Held at: Dipartimento di Fisica,
Università di Salerno,
Salerno, Italy,
Talk: Quantum Aspects of Charged-Particle Beam Optics.
29. 18-22 December 2000
XIV DAE Symposium on High Energy Physics,
Held at: School of Physics,
University of Hyderabad,
Hyderabad, India.
30. 10-14 December 2001
Mathematical Results in Quantum Mechanics,
Held at: Taxco, MÉXICO.
31. 02-06 September 2002
IV International Workshop on Classical and Quantum Integrable Systems,
Held at: Centro de Ciencias Físicas, Universidad Nacional Autónoma de México (UNAM), Cuernavaca, Morelos, MÉXICO.
32. 23 May - 22 June 2003
Middle East College of Information Technology (MECIT),
Technowledge Corridor, Knowledge Oasis Muscat (KOM)
Muscat, Sultanate of Oman.
33. 19 May 2004
**International Conference in E-Business
E-Business in GCC Challenges and Prospects (EGCC'04)**
Majan College (University College)
Muscat, Sultanate of Oman.
Presentation: E-Learning Challenges in the Middle East.
34. 23-30 August 2004
The Institute of Mathematical Sciences (IMSc/Matscience),
Chennai (Madras), India.
35. 24-25 February 2005
Higher Education in Developing Countries: With a Focus on Muslim Contexts,
The Aga Khan University Institute for the Study of Muslim Civilisations (AKU-ISMC), London,
UK.
Talk: Need to Create Regional Science Centres in the Developing Countries.
36. 31 March - 13 November 2005
The Online Virtual Conference of the World Forum on Information Society (WFIS),
Pre-Cursor to the IRFD World Forum 2005
14-16 November
Conference on Digital Divide, Global Development and the Information Society
Organized by United Nations World Summit on the Information Society,
Tunis, Tunisia.
(IRFD: International Research Foundation for Development).
Presentation: E-Learning Challenges and Prospects in the Middle East.
37. 08-09 May 2005
ICT 2005: The business value of IT
Muscat, Sultanate of Oman.

38. 31 October - 02 November 2005
World Conference on Physics and Sustainable Development (WCPSD),
Durban, South Africa.
Presentation: Role of Physics Institutions in International Collaborations.
39. 14-15 November 2005
The Second Engineering Students Gathering
College of Engineering
Sultan Qaboos University
Muscat, Sultanate of Oman.
(Participated as a *Referee* for the Project Presentations).
40. 23-24 January 2006
PEIE's Smart Manufacturing Conference,
Muscat, Sultanate of Oman.
(**PEIE**: Public Establishment for Industrial Estates, <http://www.peie.om/>).
41. 23-25 November 2006
Dipartimento di Fisica Galileo Galilei
Università di Padova
Istituto Nazionale di Fisica Nucleare (INFN),
Sezione di Padova, Padua/Padova, Italy.
Collaboration: The Halo Problem in Accelerator Beams.
42. 27 November - 01 December 2006
Workshop on Economic Development for Physicists from Developing Countries (EDPDC),
Held at: The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy,
43. 15-18 August 2007
The Institute of Mathematical Sciences (IMSc/Matscience),
Chennai (Madras), India.
44. 02-04 January 2013
The Institute of Mathematical Sciences Golden Jubilee Conference,
The Institute of Mathematical Sciences (IMSc/Matscience),
Chennai (Madras), India.
45. 17-18 April 2013
**International Conference on Business Management 2013
Omani Economy & Globalization:
Emerging Modernization & Benchmarking (ICBM-2013)**
College of Commerce and Business Administration (CCBA)
Dhofar University
Salalah, Dhofar
Sultanate of Oman.
46. 25-30 August 2013
**13th Asian Quantum Information Science Conference (AQIS13),
The Institute of Mathematical Sciences (IMSc/Matscience)**,
Chennai (Madras), India.
47. 28 September 2014
The Research Council Awareness Programme
TRC: The Research Council (of Oman)
Dhofar University
Salalah, Dhofar
Sultanate of Oman.
48. 13-15 December 2014
Second Arab-American Frontiers of Sciences, Engineering, and Medicine Symposium
Muscat
Sultanate of Oman.
Poster Presentation: Gearing up for the International Year of Light.

49. 14-15 September 2015
The Islamic Golden Age of Science for today's Knowledge-based Society: The Ibn Al-Haytham Example
 Room II
 UNESCO Headquarters
 Paris
FRANCE.
Oral Presentation: Medieval Arab Achievements in Optics.
50. 11-14 July 2016
AP Summer Institute
Calculus AB: For New Teachers
 Continuing and Professional Studies
 University of Houston
 Houston, Texas,
 USA.
 (**AP:** Advanced Placement, Equivalent of 30 Contact Hours and 3 Continuing Education Units).
51. 22-25 February 2017
 Frontiers in Theoretical and Applied Physics Conference 2017 (**FTAPS 2017**)
 American University of Sharjah
 Sharjah
 United Arab Emirates
 UAE.
Oral Presentation: Relativistic Quantum Mechanics of Charged Particle Beam Optics.

Conferences & Visits of Interest

1. 15-19 May 2017
8th International Particle Accelerator Conference (IPAC-2017)
 Copenhagen
 Denmark.
2. July-August 2017
The Institute of Mathematical Sciences (IMSc/Matscience),
 Chennai (Madras), India.
3. July-August 2017
Chennai Mathematical Institute (CMI),
 Chennai (Madras), India.
4. 20-25 May 2018
International Particle Accelerator Conference (IPAC-2018)
 Vancouver,
 Canada.
5. 25-29 May 2019
International Particle Accelerator Conference (IPAC-2019)
 Melbourne Convention & Exhibition Centre
 Melbourne
 Australia.

ANNUAL MEMBERSHIPS

- **American Physical Society**
 - The Division of Atomic, Molecular, and Optical Physics (**DAMOP**)
 - The Division of Physics of Beams (**DPB**)
 - Forum on Education (FEd)
 - Forum on International Physics (**FIP**)
- **International Association of Mathematical Physics (IAMP)**
- **International Radiation Physics Society (IRPS)**
- **Optical Society of America (OSA)**

LIFE MEMBERSHIPS OF ACADEMIC ORGANIZATIONS

- **Indian Physical Society**
IPS
Life Membership No. IPS/LM/95
Department of Material Science
Indian Association for Cultivation of Science
Jadavpur
KOLKATA (CALCUTTA) 700032
- **Particle Accelerator Society of India**
PASI
Life Membership No.
Accelerator Office
Raja Ramanna Centre for Advanced Technology (**RRCAT**)
Post: RRCAT Rajendranagar
INDORE 452013
- **Optical Society of India**
OSI
Life Fellow No. L 225
Department of Applied Physics
University of Calcutta
92, Acharya Prafulla Chandra Road
KOLKATA (CALCUTTA) 700009
- **Materials Research Society of India**
MRSI
Life Membership No. L 1069
C/O Composites Group
Defence Metallurgical Research Laboratory
P.O Kanchanbagh
HYDERABAD 500258
- **Indian Association of Physics Teachers**
IAPT
Life Membership No. 5304-L2529
L-117/302, Naveen Nagar
KANPUR 208025
- **Astronomical Society of India**
ASI
Life Membership No. L/959
Department of Astronomy
Osmania University
HYDERABAD 500007
- **Indian Physics Association**
IPA
Life Membership No. MAS/LM/10896
Tata Institute of Fundamental Research
Homi Bhabha Road
Colaba
MUMBAI (BOMBAY) 400005
- **Power Beam Society of India**
PSI
Life Membership No.
Electron Beam Centre
Kharghar
Sector 7, CBD
NAVI MUMBAI (BOMBAY) 400614
- **Indian Laser Association**
ILA
Life Membership No. LM/348
Laser Research & Development Block-B
Raja Ramanna Centre for Advanced Technology (**RRCAT**)
Post: RRCAT Rajendranagar
INDORE 452013
- **Indian Society of Atomic and Molecular Physics** *ISAMP*
Life Membership No. 1181
Physical Research Laboratory (**PRL**)
Navrangpura
AHMEDABAD 380009
- **Indian Society for Technical Education**
ISTE
Life Membership No. LM 24901
Indian Institute of Technology Campus
Hauz Khas
NEW DELHI 110016
- **Indian Association for General Relativity and Gravitation** *IAGRG*
Life Membership No.
Inter-University Centre for Astronomy and Astrophysics
Post Bag 4, Ganeshkhind
PUNE 411007

- **Electrochemical Society of India**
ECSEI
Life Fellow Membership No. F-214
Indian Institute of Science Campus
BANGALORE 560012
- **Magnetics Society of India**
MSI
Life Membership No. LM-211
C/O Composites Group
Defence Metallurgical Research Laboratory
P.O Kanchanbagh
HYDERABAD 500258
- **Semiconductor Society (India)**
SSI
Life Membership No.
Solid State Physics Laboratory
Lucknow Road
DELHI 110054
- **Indian Society for Mass Spectrometry**
ISMAS
Life Membership No. LM-629
Fuel Chemistry Division
Bhabha Atomic Research Centre (**BARC**)
MUMBAI (BOMBAY) 400085
- **Indian Nuclear Society**
INS
Life Membership No. LM-6658
Project Square, Anushaktinagar
MUMBAI (BOMBAY) 400094
- **Forum of Scientists, Engineers & Technologists** *FOSET*
Life Membership No. LM/2001-1187
15 N, Lindsay Street
New CMC Building (5th Floor)
KOLKATA (CALCUTTA) 700087
- **Solar Energy Society of India**
SESI
Life Membership No. 0949/LM/2000
Tata Energy Research Institute
Darbari Seth Block, Habitat Place, Lodhi Road
NEW DELHI 110003
- **Plasma Science Society of India**
PSSI
Life Membership No. L-415
Institute for Plasma Research
Bhat
GANDHINAGAR 382424
- **Powder Metallurgy Association of India**
PMAI
Life Membership No. LM-486
Hoganas India Ltd.
4, North Road, Koregaon
Park
PUNE 411007
- **Indian Society for Surface Science and Technology** *ISSST*
Life Membership No. K-31
Department of Chemistry
Jadavpur University
KOLKATA (CALCUTTA) 700032
- **Indian Vacuum Society**
IVS
Life Membership No. LM 709
Technical Physics & Prototype Engineering
Division
Bhabha Atomic Research Centre (**BARC**)
MUMBAI (BOMBAY) 400085
- **Association of Medical Physicists of India**
AMPI
Life Membership No. LM-1685
Radiological Physics & Advisory Division
(RPAD)
Bhabha Atomic Research Centre (**BARC**)
CT&CRS Building, Anushaktinagar
MUMBAI (BOMBAY) 400094

- **Indian Academy of Mathematics**
IAM
Life Membership No. LM-128
15, Kaushaliyapuri
Chitawad Road
INDORE 452001
- **Ramanujan Mathematical Society**
RMS
Life Membership No.
Ramanujan Institute for Advanced Studies
in Mathematics
University of Madras
CHENNAI (MADRAS) 600005
- **Indian Society for History of Mathematics**
ISHM
Life Membership No. L-132
Department of Mathematics
Ramjas College
University of Delhi
NEW DELHI 110007
- **Indian Statistical Institute**
ISI
Life Membership No. L/7827
203, Barrackpore Trunk Road
KOLKATA (CALCUTTA) 700035
- **Operational Research Society of India**
ORSI
Senior Life Membership
No. 0476/S/00/MSL
39, Mahanirvan Road
KOLKATA (CALCUTTA) 700029
- **Cryptology Research Society of India**
CRSI
Life Membership No. L/154
Applied Statistics Unit
Indian Statistical Institute
203, Barrackpore Trunk Road
KOLKATA (CALCUTTA) 700108
- **Association of Mathematics Teachers of India**
AMTI
Life Membership No. L01012
B-19, Vijay Avenue, Old No. 37, New No. 85
Venkatatarangam Street, Triplicane
CHENNAI (MADRAS) 600005
- **Society for Special Functions and their Applications**
SSFA
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Department of Mathematics
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- **Indian Society for Mathematical Modeling and Computer Simulation**
ISMMCS
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Indian Institute of Technology (IIT) Kanpur
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- **Indian Statistical Association**
ISA
Life Membership No. 197
Department of Statistics, University of Poona
PUNE 411007
- **Computer Society of India**
CSI
Life Membership No. 00059965
122, T. V. Industrial Estate
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MUMBAI (BOMBAY) 400025
- **Indian Association for Medical Informatics**
IAMI
Life Membership No. PL04353
Department of Surgery, GMCH
1155, Sector-32-B
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- **Society for Information Science**
SIS
Life Membership No.
NISTADS (CSIR)
Dr. K S Krishana Marg
NEW DELHI 110012
- **Indian Science Congress Association**
ISCA
Life Membership, No. L-8707 (8544)
14, Dr. Biresh Guha Street
KOLKATA (CALCUTTA) 700017
- **The Society for Progress of Science**
SPS
Life Membership No.
Pragati Prakashan
Post Box No. 62, New Market Begum Bridge
MEERUT 250001
- **Regional Science Association**
RSA
Life Membership No. 380
CK-134, Sector-II, Salt Lake City
KOLKATA (CALCUTTA) 700091
- **Indian Science Writers' Association**
ISWA
Life Membership No. LM-K 007
25/3, Sector-I
Pushp Vihar
NEW DELHI 110017
- **Indian Library Association**
ILA
Life Membership No. SL/5093
A/40-41, Flat No. 201
Ansal Building, Dr. Mukherjee Nagar
NEW DELHI 110009
- **Indian Innovators Association**
IIA
A-50, Ashoka Enclave-II
Sector 37
FARIDABAD 121003
- **Institute of Science, Education & Culture**
ISEC
Life Membership No.
ISEC House, 42-B, Syed Amir Ali Avenue
KOLKATA (CALCUTTA) 700017
- **Indian Adult Education Association**
IAEA
Life Membership No.
Shafiq Memorial
17 B, Indraprastha Estate
NEW DELHI 110002
- **All India Association for Educational Research** *AIÆR*
Life Membership No. 724 (AP 13)
N1/55, IRC Village
BHUBANESWAR 751015
- **United Writers' Association**
UWA
Life Fellow Membership No. 850/03
75 Kamakoti Nagar, Second Cross Street
Valasaravakkam
CHENNAI (MADRAS) 600087
- **Indian Association of Special Libraries & Information Centres** *IASLIC*
Life Membership No.
P 291, CIT Scheme 6M
Kankurgachi
KOLKATA (CALCUTTA) 700054

- **All India Muslim Educational Society**
AIMES
Life Membership No.
A-1-D, Anugraha
19, Nungambakkam High Road
CHENNAI (MADRAS) 600034
- **Indian Association of Muslim Social Scientists** *IAMSS*
Life Membership No.
162, Jogabai Extension
Jamia Nagar
NEW DELHI 110025
- **Ibn Sina Academy of Medieval Medicine & Sciences** *IAMMS*
Life Membership No.
Tijara House
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ALIGARH 202002
- **The Muslim Association for the Advancement of Science** *MAAS*
Life Associate No. 9701B130
Darul Fikr, The Main Road
Iqra Colony
New Sir Syed Nagar
ALIGARH 202002
- **Indian Association for Islamic Economics** *IAFIE*
Life Membership No.
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