

# Curriculum Vitae\*

**Dr. Sameen Ahmed Khan, Ph.D**

*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**

[rohelakhan@yahoo.com](mailto:rohelakhan@yahoo.com)

<http://www.du.edu.om/>

**GSM: +968-9953XXXX**

<http://www.scopus.com/authid/detail.url?authorId=8452157800>

<http://sites.google.com/site/rohelakhan/>

## CAREER OBJECTIVE

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

## EDUCATION

Ph.D (Mathematical Physics), The Institute of Mathematical Sciences, Madras, India (1991-1997).

*Dissertation:* Development of quantum mechanical treatment for the study of transport of charged-particle beams through electromagnetic systems.

*Advisor:* Professor Ramaswamy Jagannathan.

M.S. (Physics), Indian Institute of Technology (IIT), Kanpur, India (1988-1990).

B.S. Honors (Physics), Osmania University, Hyderabad, India (1985-1988).

**Computer Experience:** Familiar with UNIX/LINUX, DOS, Fortran, Mathematica, LaTeX, Microsoft Word, Microsoft Excel, Power Point and Web-Designing.

## TEACHING EXPERIENCE

**Full-time Lecturer** Salalah College of Technology, **SCOT**, May-2006 – 2015.

Middle East College of Information Technology, **MECIT**, 2003-2006.

**Mathematics Teaching:** Foundation Mathematics, Statistics, College Mathematics, Calculus with Numerical Methods, Advanced Calculus and Engineering Mathematics

**Physics Teaching:** Physics-1 for Engineering, Physics-2 for Engineering, Physics, Engineering Mechanics and Engineering Physics.

## Other activities

- Drafted the syllabus for the new Bachelor of Science Programme.
- Set up the Department Homepage on the College Intranet, which contains in-house prepared *Lecture Notes* and *Question Banks*, meeting most of the requirements of all the courses offered by the department.
- Conducted the *first* Mathematics Olympiad in the College on 26 May 2004.
- Served on College Committees: *Disciplinary Committee*, *Journal Committee*, *Library Committee*, *Web-Site Committee*, *Prizes and Awards Committee*, and *Accreditation Steering Committee*.

## RESEARCH EXPERIENCE

- CONACYT-UNAM Postdoctoral Fellow, Centro de Ciencias Físicas, Universidad Nacional Autónoma de México, Cuernavaca, MÉXICO (October 2001 — October 2002).  
**Advisor:** Professor Kurt Bernardo Wolf.  
**Research:** Unified treatment of light beam optics and polarization.
- INFN Post-Doctoral Fellow, Istituto Nazionale di Fisica Nucleare (INFN), Dipartimento di Fisica Galileo Galilei, Università di Padova, ITALY (October 1997 — October 1999).  
**Advisor:** Professor Modesto Pusterla.  
**Research:** Beam Halo Problem.
- **Independent Research** (see the peer-reviewed publications, 6-12 and the six Book Chapters.)

## HONORS AND AWARDS

**Mathematics Olympiads:** Won the State Level Mathematics Olympiads at: Junior Level (1983), Senior Level (1985) and Undergraduate Level (1986 to 1988), conducted by The Andhra Pradesh Association of Mathematics Teachers (APAMT), India.

**Young Physicists Colloquium:** Invited Lecture at the Young Physicists Colloquium Kolkata (Calcutta), August 1996, Organized by The Indian Physical Society (IPS).

## PROFESSIONAL AFFILIATIONS

- American Physical Society
- Optical Society of America
- International Association of Mathematical Physics

## PATENTS

- 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/patent_journal_2008.htm)  
(*in process*, <http://SameenAhmedKhan.webs.com/quadricmeter.html>).

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

## PUBLICATIONS

### 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/>, Salalah, Sultanate of Oman (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/>, Salalah, Sultanate of Oman (2010).  
\* The Notes cover over twenty experiments for the Two-Semester Sequence of *Physics for Engineering*.

## BOOKS

1. Sameen Ahmed Khan, *International Year of Light and Light-based Technologies*, LAP 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, **ISBN-10:** 3659764825 and **EAN:** 9783659764820.
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, **ISBN-10:** 3659771899 and **EAN:** 9783659771897
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 and **EAN:** 9783659786198

## 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 Publ., Delhi, India 1995), pp. 308-321. (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) **97**, 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 (15 March 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). [https://www.novapublishers.com/catalog/product\\_info.php?products\\_id=57128](https://www.novapublishers.com/catalog/product_info.php?products_id=57128)
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, (Monday the 12 December 2016). ISBN-10: 146650059X and ISBN-13: 9781466500594. <http://dx.doi.org/10.1081/E-EPLT-120053953> and <https://www.crcpress.com/Encyclopedia-of-Plasma-Technology/Shohet/9781466500594>.

## PEER-REVIEWED JOURNALS

1. S. A. Khan and R. Jagannathan, **Quantum mechanics of charged particle beam transport through magnetic lenses**, *Physical Review*, **E 51**, 2510-2515 (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**, 461-464 (2001). **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 (JOSA)*, **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**, in *International Journal of Theoretical Physics*, **44** (1), 95-125 (January 2005), (Kluwer Academic Publishers, 2005). **Digital Object Identifier (DOI):** <http://dx.doi.org/10.1007/s10773-005-1488-0>
7. Sameen Ahmed Khan, **An Exact Matrix Representation of the Maxwell's 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). Elsevier, <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). Elsevier, <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). Elsevier, <http://dx.doi.org/10.1016/j.ijleo.2010.08.016>.
11. Sameen Ahmed Khan, **Farey Sequences and Resistor Networks**, *Mathematical Sciences - Proceedings of the Indian Academy of Sciences*, **122** (2), 153-162 (May 2012). (Publication of the Indian Academy of Sciences (IAS), Copublished with Springer). <http://dx.doi.org/10.1007/s12044-012-0066-7>. Larger Version: E-Print: <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). Elsevier, <http://dx.doi.org/10.1016/j.ijleo.2013.07.097>.
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/>). <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>
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, <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). Elsevier, <http://dx.doi.org/10.1016/j.ijleo.2016.07.071> (Available online since Tuesday the 26 July 2016).
17. Sameen Ahmed Khan, **Quantum Methods in Light-Beam Optics**, *Optics & Photonics News (OPN)*, **27** (12), 47 (December 2016). (Monthly, Publication of the Optical Society of America). [http://www.osa-opn.org/home/articles/volume\\_27/december\\_2016/features/optics\\_in\\_2016/](http://www.osa-opn.org/home/articles/volume_27/december_2016/features/optics_in_2016/)  
 \* 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*, **130C**, 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 Monday the 28 November 2016).
21. Sameen Ahmed Khan, **Coordinate Geometric Generalization of the Spherometer**, *Far East Journal of Mathematical Sciences (FJMS)*, **101** (03), 619-642 (February 2017). Print ISSN: 0972-0871 and Online ISSN: 0973-7006. <http://dx.doi.org/10.17654/MS101030619>
22. Sameen Ahmed Khan and Modesto Pusterla, **On the form of Lorentz-Stern-Gerlach force**, (*submitted*).
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**, (*submitted*).

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 for a patent shall be made in the near future!

#### **PUBLICATIONS IN CONFERENCE PROCEEDINGS & PREPRINTS**

1. S. A. Khan and R. Jagannathan, **Theory of relativistic electron beam transport based on the Dirac equation**, in: *Proceedings of the 3rd National Seminar on Physics and Technology of Particle Accelerators and their Applications PATPAA-93* (25-27 November 1993, Kolkata (Calcutta)), Editor: S. N. Chintalapudi (IUC-DAEF, Kolkata, India), 102–107. <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>
3. S. A. Khan, **Transport of Dirac-particle beams through magnetic quadrupoles**, *Preprint: IMSc/96/33* (The Institute of Mathematical Sciences, Chennai (Madras), Dec. 1996).
4. R. Jagannathan and S. A. Khan, **Quantum mechanics of accelerator optics**, *ICFA Beam Dynamics Newsletter*, **13**, 21-27 (April 1997). (ICFA: International Committee for Future Accelerators).
5. S. A. Khan, **Quantum theory of magnetic quadrupole lenses for spin- $1/2$  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.
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) pp. 2817-2819. **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) pp. 3280-3281. **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) 438-441 (July 2000).
9. S. A. Khan, **Quantum formalism of 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, June 2002). pp. 517-526. **Digital Object Identifier (DOI)**: [http://dx.doi.org/10.1142/9789812777447\\_0042](http://dx.doi.org/10.1142/9789812777447_0042)
10. Sameen Ahmed Khan, **Analogies between light optics and charged-particle optics**, *ICFA Beam Dynamics Newsletter*, **27**, 42-48 (June 2002).
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>

#### **E-PRINTS ([http://arXiv.org/a/khan\\_s\\_1](http://arXiv.org/a/khan_s_1))**

1. Sameen Ahmed Khan, **An Alternate way to obtain the aberration expansion in Helmholtz Optics**, *E-Print*: <http://arxiv.org/abs/physics/0210001/>
2. Sameen Ahmed Khan, **Maxwell Optics: I. An exact matrix representation of the Maxwell equations in a medium**, *E-Print*: <http://arxiv.org/abs/physics/0205083/>
3. Sameen Ahmed Khan, **Maxwell Optics: II. An Exact Formalism**, *E-Print*: <http://arxiv.org/abs/physics/0205084/>
4. Sameen Ahmed Khan, **Maxwell Optics: III. Applications**, *E-Print*: <http://arxiv.org/abs/physics/0205085/>
5. Sameen Ahmed Khan, **Wavelength-Dependent effects in Maxwell Optics**, *E-Print*: <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 archive*: <http://arxiv.org/abs/1004.3346/> (Wednesday the 21 April 2010).
7. Sameen Ahmed Khan, **Primes in Geometric-Arithmetic Progression**, 19 pages, *E-Print*: <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*: <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*: <https://arxiv.org/abs/1702.08547> (Tuesday the 14 February 2017).

#### EXPOSITORY PUBLICATIONS

1. Sameen Ahmed Khan, **The World of Synchrotrons**, *Resonance Journal of Science Education*, **6** (11), 77-84 (November 2001). (Monthly Pub. of the Indian Academy of Sciences (IAS), Copublished with Springer); *E-Print* <http://arxiv.org/abs/physics/0112086/>. Cited in the sections on *Synchrotrons* in *THE NET ADVANCE OF PHYSICS* (Review Articles and Tutorials in an Encyclopedic Format). <http://web.mit.edu/redingtn/www/netadv/Xsynchrotr.html> **Digital Object Identifier (DOI):** <http://dx.doi.org/10.1007/BF02868247>
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: Bulletin of the Indian Laser Association).
4. Sameen Ahmed Khan, **Synchrotron Radiation (in Asia)**, ATIP Report No. **ATIP02.034**, 28 pages (21 August 2002). (The Asian Technology Information Programme, Tokyo, Japan, 2002).
5. Azher Majid Siddiqui and Sameen Ahmed Khan, **Ion Beam Channeling and Accelerator Programmes in India**, *MRSI Newsletter*, **B02** (4), 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*: Seán 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). **Digital Object Identifier (DOI):** <http://dx.doi.org/10.1119/1.3517029>
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), (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: E-Print:** <http://arxiv.org/abs/1004.3346/>.
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<http://oeis.org/>      <http://SameenAhmedKhan.webs.com/integer-sequences.html>

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:

- 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 archive*: <http://arxiv.org/abs/1004.3346/> (Wednesday the 21 April 2010).
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 = 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 = 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, ..., **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, ..., **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, ..., **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, ..., **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> (Friday the 03 February 2012).
16. Sameen Ahmed Khan, **Sequence A206042**: 1210230, 2523780, 4788210, 10527720, 12943770, 19815600, 22935780, 28348950, 28688100, 32671170, 43443330, 47330640, ..., **Values of the difference  $d$  for 8 primes in arithmetic progression with the minimal start sequence  $\{11 + j*d\}$ ,  $j = 0$  to 7.**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A206042> (Friday the 03 February 2012).
17. Sameen Ahmed Khan, **Sequence A206043**: 32671170, 54130440, 59806740, 145727400, 224494620, 246632190, 280723800, 301125300, 356845020, 440379870, 486229380, ..., **Values of the difference  $d$  for 9 primes in arithmetic progression with the minimal start sequence  $\{11 + j*d\}$ ,  $j = 0$  to 8.**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A206043> (Friday the 03 February 2012).
18. Sameen Ahmed Khan, **Sequence A206044**: 224494620, 246632190, 301125300, 1536160080, 1760583300, 4012387260, 4911773580, 7158806130, 8155368060, ..., **Values of the difference  $d$  for 10 primes in arithmetic progression with the minimal start sequence  $\{11 + j*d\}$ ,  $j = 0$  to 9.**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, 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, ..., **Values of the difference  $d$  for 11 primes in arithmetic progression with the minimal start sequence  $\{11 + j*d\}$ ,  $j = 0$  to  $10$ .**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A206045> (Friday the 03 February 2012).

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

20. Sameen Ahmed Khan, **Sequence A209202**: 2, 8, 10, 20, 22, 28, 38, 50, 52, 62, 70, 92, 98, 100, 118, 122, 128, 140, 142, 170, 202, 218, 220, 230, 232, 248, 260, 268, 272, 302, ..., **Values of the difference  $d$  for the geometric-arithmetic progression  $\{3 * 3^j + jd\}$ ,  $j = 0$  to  $j = 2$  to be a set of 3 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209202>. (Tuesday the 06 March 2012).
21. Sameen Ahmed Khan, **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  $\{5 * 5^j + jd\}$ ,  $j = 0$  to  $j = 3$  to be a set of 4 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209203>. (Tuesday the 06 March 2012).
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  $\{5 * 5^j + jd\}$ ,  $j = 0$  to  $j = 4$  to be a set of 5 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209204>. (Tuesday the 06 March 2012).
23. Sameen Ahmed Khan, **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  $\{7 * 7^j + jd\}$ ,  $j = 0$  to  $j = 5$  to be a set of 6 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209205>. (Tuesday the 06 March 2012).
24. Sameen Ahmed Khan, **Sequence A209206**: 3324, 13260, 38064, 46260, 51810, 54510, 58914, 76050, 81510, 82434, 109800, 119340, 120714, 132390, 141480, 154254, 167904, ..., **Values of the difference  $d$  for the geometric-arithmetic progression  $\{7 * 7^j + jd\}$ ,  $j = 0$  to  $j = 6$  to be a set of 7 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209206>. (Tuesday the 06 March 2012).

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  $\{11 \cdot 11^j + jd\}$ ,  $j = 0$  to  $j = 7$  to be a set of 8 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209207>. (Tuesday the 06 March 2012).
26. Sameen Ahmed Khan, **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  $\{11 \cdot 11^j + jd\}$ ,  $j = 0$  to  $j = 8$  to be a set of 9 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209208>. (Tuesday the 06 March 2012).
27. Sameen Ahmed Khan, **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  $\{11 \cdot 11^j + jd\}$ ,  $j = 0$  to  $j = 9$  to be a set of 10 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209209>. (Tuesday the 06 March 2012).
28. Sameen Ahmed Khan, **Sequence A209210**: 443687580, 591655080, 1313813550, 2868131100, 3525848580, 3598823970, 4453413120, 6075076800, 6644124480, 7429693770, 9399746580, 11801410530, ..., **Values of the difference  $d$  for the geometric-arithmetic progression  $\{11 \cdot 11^j + jd\}$ ,  $j = 0$  to  $j = 10$  to be a set of 11 primes**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A209210>. (Tuesday the 06 March 2012).
29. Sameen Ahmed Khan, **Sequence A227280**: 81647160420, 170655787050, 211212209880, 227961624450, ..., **Values of the difference  $d$  for 12 primes in geometric-arithmetic progression with the minimal sequence  $\{13 \cdot 13^j + jd\}$ ,  $j = 0$  to 11**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A227280>. (Friday the 05 July 2013).

## Integer Sequences for the First primes of Arithmetic Progressions of k primes each with the common difference k#

**Minimal Difference Sequence**  $\{p_1 + j * (k\#)\}_{j=0}^{j=k-1}$ .

30. Sameen Ahmed Khan,

**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, 27367, ...,

**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>.

(Friday the 05 July 2013).

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, 153529, ...,

**First primes of arithmetic progressions of 7 primes each with the common difference 210**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A227282>.

(Friday the 05 July 2013).

32. Sameen Ahmed Khan,

**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, 3161017, 3600521, ...,

**First primes of arithmetic progressions of 8 primes each with the common difference 210**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A227283>.

(Friday the 05 July 2013).

33. Sameen Ahmed Khan,

**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, 243051943, 304570103, ...,

**First primes of arithmetic progressions of 9 primes each with the common difference 210**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A227284>.

(Friday the 05 July 2013).

34. Sameen Ahmed Khan,  
**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**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, 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**, in N. J. A. Sloane (Editor), *The On-Line Encyclopedia of Integer Sequences*, published electronically at <http://oeis.org/A227286>.  
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36. Sameen Ahmed Khan,



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  - a. Sameen Ahmed Khan, **Call for Creation of Accelerator & Beam Physics Forums**, *ICFA Beam Dynamics Newsletter*, **17**, 5-6 (August 1998). (**ICFA**: International Committee for Future Accelerators);
  - b. Sameen Ahmed Khan, **Call for Creation of Accelerator & Beam Physics Forums**, *Europhysics News*, **30** (2), 49-50 (March/April 1999). **Digital Object Identifier (DOI):** <http://dx.doi.org/10.1007/s00770-999-0049-0> (Publication of **EPS**: the *European Physical Society*).

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8. Sameen Ahmed Khan, **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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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>

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<p><i>Prof. Ramaswamy JAGANNATHAN</i>            The Institute of Mathematical Sciences            4th Cross Road            Central Institutes of Technology Campus            Tharamani            Chennai (Madras) 600113 <b>INDIA</b>            E-Mail: jagan@imsc.res.in            Fax: +91-44-22541586  <a href="http://www.imsc.res.in/~jagan/">http://www.imsc.res.in/~jagan/</a></p>	<p><i>Prof. Rajiah. SIMON</i>            The Institute of Mathematical Sciences            4th Cross Road            Central Institutes of Technology Campus            Tharamani            Chennai (Madras) 600113 <b>INDIA</b>            E-Mail: simon@imsc.res.in            Fax: +91-44-22541586  <a href="http://www.imsc.res.in/~simon/">http://www.imsc.res.in/~simon/</a></p>
<p><i>Prof. Modesto PUSTERLA</i>            Dipartimento di Fisica Galileo Galilei            Istituto Nazionale di Fisica Nucleare <b>INFN</b>            Sezione di Padova            Via Marzolo 8            Padova 35131 <b>ITALY</b>            E-Mail: pusterla@pd.infn.it            Fax: +39-049-8277112; 8277102            Phone: +39-049-8277137  <a href="http://www.pd.infn.it/~pusterla/">http://www.pd.infn.it/~pusterla/</a></p>	<p><i>Prof. Mario CONTE</i>            Dipartimento di Fisica Università di Genova            Istituto Nazionale di Fisica Nucleare <b>INFN</b>            Sezione di Genova            Via Dodecaneso 33            Genova 16146 <b>ITALY</b>            E-Mail: CONTEM@ge.infn.it            Phone: +39-010-353620</p>