

CURRICULUM VITAE

July 7, 2015



Name: **Mujahid Kamran**
Present Position: **Vice Chancellor, Punjab University (wef Jan 3, 2008)** Lahore, Pakistan
Date and place of birth: 23.1.1951 - Gujrat, Pakistan
Father's name: **Syed Shabbir Hussain¹**
Residential Address: V C House, Punjab University, Lahore 54590
Correspondence address: The Vice Chancellor, University of the Punjab, Lahore 54590
Nationality: Pakistani
Phone No's: 0092-42-9231098 (off), 9231097 ®
Cell ph 0092- 322-888-1882
Email: kamran_m51@yahoo.com , vc@pu.edu.pk
mujahid.kamran@gmail.com
Languages: Urdu, English, Punjabi

REFERENCES:

1. **Prof. (Retd) Dr. M. Saleem**, ex Dean Science Faculty, Punjab University, and ex-Director Center for High Energy Physics, Punjab University, Lahore
email: dmsdmsaleem@yahoo.com
2. **Professor T. Bolton** , Physics Department, Kansas State University, Manhattan, Kansas email: bolton@phys.ksu.edu
3. **Prof. Larry Weaver**, Physics Department, Kansas State University, Manhattan, Kansas email: weaver@phys.ksu.edu

PUBLICATIONS:

Sixty three (63) **research** publications in refereed journals **outside** Pakistan / presented at conferences **abroad** (list appended; 42 in **foreign** journals, 2 in local journals, 19 Conference presentations / contribution in International Conferences **abroad**)

Eighty Five (85 **popular** articles, mostly on aspects of science and higher education and more recently on international affairs, published in national and foreign magazines and newspapers (list appended)

Twelve (12) **books** including two text books (4 of the 13 are in Urdu language – three of these deal with the lives and works of great physicists of the twentieth century):

- 1) **M. Kamran: The International Bankers, World War I, II and Beyond:** University of the Punjab Press, April 2015; 560 pages, ISBN 978-969-9325-24-3

¹ Deceased (July 5, 2003). Former Bureau Chief and Political Correspondent of daily The Pakistan Times, Islamabad.

- 2) M. Kamran: Relativistic Quantum Mechanics An Easy Introduction: University of the Punjab Press, 2014; 288 pages, ISBN 978-969-9325-20-5
- 3) M. Kamran: 9/11 & the New World Order (English) : University of the Punjab Press, 2013; 396 pages, ISBN 978-969-9325-13-7
- 4) M. Kamran: The Inspiring Life of Abdus Salam (A biography of Abdus Salam Pakistan's only Nobel Laureate): University of the Punjab Press, 2013; 356 pages ISBN 978-969-9325-11-3
- 5) M.Kamran: The Grand Deception - Corporate America and Perpetual War: Sang e Meel Publications, 2010, 429 pages ISBN-10: 969-35-2406-3, ISBN-13: 978-969-35-2406-2
- 6) M. Kamran: Einstein and Germany: Sang e Meel Publications April 2009, 222 pages ISBN-10: 969 - 35 - 2234 - 6, ISBN-13: 969 - 35 - 2234 - 1
- 7) M.Kamran: Pase e Parda- aalmi siyasat key makhfi haqaiq, (Behind the Curtain - Hidden Facts of Global Politics) Sang e Meel Publications Nov 2008, 190 pages ISBN-10 969-35-2174-9
- 8) M. Kamran: "Relativistic Quantum Mechanics – A Quick Introduction" ISBN 969-35-1783-0 Sang e Meel Publications Nov 2005, 119 pages (for final year undergraduate and first year graduate students of US universities and M.Sc. and M.Phil students of Pakistani universities)
- 9) M. Kamran: Editor: " Dr. A.Q. Khan on Science, Education and Technology" January 2004, 500 pages
- 10) "Jadeed Tabiyat kay Bani" (i.e. Founders of Modern Physics - 313 pages, Sang e Meel Publications, Lahore, 1997; publishers - Sang e Meel Publications; winner National Book Foundation Award, reprinted 2009)
- 11) M.Kamran: "Jadeed Tabiyat kay Mashaheer" - 203 pages; published by Punjab University 1988
- 12) S, Shabbir Hussain and M. Kamran: (Editors) " Dr. A.Q. Khan on Science and Education" (269 pages -1997 - publishers - Sang e Meel Publications, Lahore)

BOOKS CURRENTLY BEING WRITTEN:

1. M. Kamran, M. Shamim and M. Ahsan : Quantum Mechanics: (20 out of 21 chapters already completed in final form – current length: 842 pages; – some diagrams need to be done)
2. M. Kamran: Introductory Quantum Field Theory for Pedestrians: (175 pages already completed)
3. M. Kamran: The Life and Work of Albert Einstein: (440 pages written; one chapter remaining)
4. M. Kamran: Variety of Physicists (250 pages completed, ongoing work; chapters on Rutherford, Einstein, Dirac, Kaptiza, Landau, Salam, completed; planned chapters on Bohr, Schrodinger, Heisenberg, Fermi, Born, Pauli, Sakharov, Yukawa, Feynman and Chandrasekhar)

DISTINCTIONS AND HONORS:

Sitar-e-Imtiaz Award in the Field of Education, conferred by the President of Pakistan (March 23, 2015)

President's Pride of Performance Award for contribution to physics research, teaching, and popularization of science (March 23, 1999)

Abdus Salam Prize for "contributions to hadronic scattering while working in Pakistan" **1985-** (reward primarily in recognition of Phys. Rep. 108C (1984) 125; the Abdus Salam prize was initiated by Prof. Salam from a part of his Nobel prize money and consists of a cash prize of 1000 US\$ and a certificate)

National Book Council Award (first prize) for published work in the subject of Physics in one year (**1986**) (cash award of Rs25000/- approximately 1000 US\$ at the then exchange rates and a certificate)

National Book Foundation Award on the book "Jadeed Tabiat kay Bani" – award announced in **2000** (cash prize + certificate)

Fulbright Fellow and visiting Associate Professor, University of Georgia, Athens, Georgia, USA - **1988-89**

Appointed **Senior Associate** of ICTP (International Centre for Theoretical Physics) Trieste, Italy for a 6 year period beginning January 1, 1991; former **Associate** of ICTP (1985-1990) and **Junior Associate** 1984

Bolan Award for contributions towards science and popular science (1992) (the awards are instituted by the Bolan Society which normally presents these in the field of social work and theatrical arts (particularly cinema), but occasionally people from other walks of life also receive these awards)

Elected **Active Member** of the **New York Academy of Sciences** in recognition of "work in, and support for, science and technology" (1994)

Awarded **Advance increments** in salary for research output by the Punjab University on the recommendations of British and American experts

Won **Merit Scholarships** as a student **1965-67, 1967-69, 1969-71**

PROFESSIONAL EXPERIENCE:

Designation / post held

Period for which position held

(All positions except one held in the University of the Punjab, Lahore, Pakistan)

Vice Chancellor, Punjab University
Dean Faculty of Science, Punjab University
Professor of Physics (KSU, SA)
Chairman Department of Physics

January 3, 2008 to present
June 7, 2004 – June 6, 2007
August 23, 2001 – June 5, 2004
May 1995 to July 2001 and Jan 2,
2007 to Jan 2, 2008

Professor of Physics
Associate Professor in High Energy Physics
Assistant Professor in High Energy Physics
Lecturer in Physics

Oct. 1988 to present; permanent position
Oct. 1987 – Oct 1988
Feb. 1982 - Oct 1987
Oct. 1972 - Feb. 1982

Teaching /taught post-graduate (M.Sc. and M.Phil) and undergraduate (B.Sc. Hons) classes at **Punjab University (PU)**. Taught Ph.D, M.Sc and B.Sc courses at **King Saud University (KSU)**, Riyadh, Saudi Arabia. KSU has an American system with a B.Sc. awarded after 16 years, and M.Sc after 18 years of education. Courses taught by me at Ph.D and M.Sc level at **KSU** were : - *Physics of Elementary Particles, Quantum Field Theory I and II, Gauge Theories, Mathematical Physics, Quantum Mechanics II*; courses taught at the B.Sc final year level: *Quantum Mechanics*. Courses taught at M.Sc. and M.Phil level at **PU**: *The Standard Model (M.Phil) Quantum Mechanics, Classical Mechanics, Mathematical Methods of Physics to M.Sc. (1st year), and Theoretical Particle Physics (I and II) to M.Sc (2nd year)*; Currently teaching Quantum Mechanics to M.Sc part I students.

Ph.D students

1. Successfully co-supervised the Ph.D. thesis of Dr. M. Ali on "Hypercharge Exchange Reactions" (supervisor Prof. Dr. M. Saleem) **1986**.
2. Successfully supervised the Ph.D. thesis of Muneer Ahmad "Aspects of Hadronic Structure in the Final State Hadron production in Deeply Inelastic Scattering" (co-supervisor Prof. G. Kramer of Hamburg University) **2004**.
3. Successfully supervised the Ph.D. thesis of Mr. Faisal Akram "Hadronic Cross Section of B Mesons" **2013**.

CONTRIBUTION TO HUMAN RESOURCE DEVELOPEMNT AS CHAIR PHYSICS DEPT.

After becoming Chairman Physics Department in May 1995 I *initiated a program of grooming talented students (through extra lectures and coaching) so that they could compete and win foreign scholarships. Owing to my efforts PU Physics students have won about 40 fellowships (worth 3 million US \$ approx.) since 1999. This program was initiated well before GOP/HEC launched its current manpower training programs. Not a single penny of the GOP/HEC has been spent in this regard as these scholarships are funded by Western institutions.* I was able to transform the culture of PU Physics Department during my tenure. I never allowed political student groups, including the most powerful one, to operate in my Department. Good students, and not the stereotyped politically motivated "student leaders", became role

models in the Physics Department during my tenure. Prof. T. Bolton of Kansas State University referred to me as "*a gold mine of graduate students*".

1. **Muneer Ahmad** (DAAD Germany 1996-2000 **PhD completed successfully**)
2. **M. Arif** (DAAD Germany 1998- 3 months)
3. **Mansoor Shamim** (Abdus Salam ICTP, Italy 1999 -2000, 1 year Diploma, **completed successfully**)
4. **Shahida Dar** (Abdus Salam ICTP, Italy, 1999-2000 - 1 year Diploma, **completed successfully**)
5. **Amna Saman Saeed** (ICTP, Italy 1999 -2000) **not availed**
6. **Jameela Bashir Butt** (ICTP, Italy 2000 -2001 1 year Diploma **completed**)
7. **Aneeqa Bashir** (ICTP, Italy 2000-2001) **not availed**
8. **Samya Bano Zain** (SUNY Albany, USA 2000 – **completed Ph D May 2006**)
9. **Shahida Dar** (**successfully completed PhD in 2008 from Delaware University**)
10. **Mansoor Shamim** (**successfully completed PhD from Kansas State University, May 2007**)
11. **Fakhar Inam** (Abdus Salam ICTP, Italy, 2001-2002 1 year Diploma Scholarship, **successfully completed**)
12. **Sobia Shafiq** (Cambridge UK 2001 - 3 year **PhD scholarship**)
13. **Jameela Bashir Butt** (Univ of Syracuse, USA, 2001- (**Ph D completed May 2006**)
14. **S. Hussnain Ali** (Thailand 2001- Masters in Remote sensing) **not availed**
15. **Azam Saeed** (UK 2001, Wales Masters in Material Sciences, **successfully completed**; currently teaching at a UK university)
16. **Mahsana Ahsan** (**successfully completed PhD from Kansas State University, May 2007**)
17. **Babar Ahmed Qureshi** (**Ph D completed 2007, University of Syracuse**)
18. **Shabana Nisar** (**Ph D completed 2007, University of Syracuse**)
19. **Nasira Sultana** (Abdus Salam ICTP, Italy, 2002-2003, 1 year Diploma Scholarship, **successfully completed**)
20. **Adil Mehmood** Pfaffenwaldring, Stuttgart University, Germany (**Ph D scholarship 2004 – present**)
21. **Yasmeen Kausar** University of Aveiro Portugal, **PhD** (currently writing thesis)
22. **Iram Munawar** (2 offers) University of Newfoundland, Canada (**PhD**), University of Aviero, Portugal (**PhD**) (currently at University of Newfoundland, Canada (**PhD**), Fall 2002)

23. **Hina Malik** University of Aviero, Portugal (PhD) Fall 2002
24. **Muhamamd Nadeem** University of Wales, UK competed Masters, currently working in UK
25. **Salman Qureshi**, Univ of Stuttgart, Germany
26. **Mudassar Iqbal** (Abdus Salam ICTP (2002-2004, 2 year M.Sc. in Computer Simulation and Modeling; successfully completed)
27. **Sobia Shafiq** Delaware Univ, USA 2003 - 6 year PhD scholarship
28. **Neelam Khan** 2 offers (Kansas State University, Delaware Univ, USA 2003 - 6 year PhD scholarship, currently at KSU)
29. **Nasira Sultana** Syracuse University, USA – 6 year Ph.D scholarship 2003
30. **Fatima Anis** Kansas State University USA, 2003, 6 year **PhD scholarship** (currently at KSU)
31. **Teeba Rashid** Kansas State University USA, 2003, 6 year **PhD scholarship (not availed)**;
32. **Hafsa Khurshid** Delaware Univ, USA 2003 - 6 year **PhD scholarship**, currently at Delaware
33. **Fakhar Inam**, University of Ohio, 6 year **PhD scholarship** (Fall 2003 onwards), currently at Ohio University
34. **Fauzia Jabeen**, (Abdus Salam ICTP, Italy, 2003-2004, 1 year Diploma Scholarship, **successfully completed**)
35. **Amna Saman Saeed** (Kansas Sate University, beginning Fall 2004, **6 year PhD scholarship**- passport with US embassy since April 2004, on her request her passport was returned in 2006; scholarship **unavailed**)
36. **M. Shahbaz** (Kansas Sate University, beginning Fall 2004, **6 year Ph D scholarship** - passport with US embassy since April 2004 and returned with a direction for a new I 20in 2006; scholarship could **not be availed**)
37. **Nosheen Iqbal** (Kansas Sate University, beginning Fall 2004, 6 year **PhD scholarship** – visa refused – hence could not be availed)
38. **Fauzia Jabeen PhD scholarship** University of Trieste, Italy starting 2004
39. **Ramoonah Shehzadi** (Bonn University, Germany, Sep 2005 onwards **PhD scholarship**)
40. **M. Shafeeq** (University of Ottawa, Canada 2007-onwards **PhD scholarship**)
41. **Muhammad Imran** (ITC, Enschede Netherlands September 2007-onwards **PhD scholarship**)
42. **Tayyaba Zafar** (Neils Bohr Institute, University of Copenhagen, Denmark January 12 2008-onwards **PhD scholarship**)

43. **Saima Farooq** (Kansas State University, summer 2008 onwards, 6 year **PhD** scholarship)
44. **Yusra Yousaf** Manchester University, 2009 onwards, 3 year **PhD** scholarship)

INSTITUTIONS ATTENDED:

Edinburgh University, Scotland (1975-79) as a **Ph.D** student; Topic of thesis "The Dual Absorptive Model and Elastic Hadronic Scattering at High Energies and Small Momentum Transfers"; Supervisor: Dr. L.L.J. Vick

Punjab University, Lahore, Pakistan (1969-71) as an **M.Sc** student with special courses in *Theoretical Particle Physics*

Gordon College, Rawalpindi, merit scholarship in **F.Sc** (1967) and **B.Sc** degree (1969) with courses in Mathematics and Physics winning a merit scholarship

C.B. Sir Syed School, Rawalpindi, Pakistan (1955-65) standing first in the school in the matric (i.e. 10th class) examinations winning a merit scholarship

PARTICIPATION IN INTERNATIONAL CONFERENCES / WORKSHOPS etc:

(numbering in reverse order to facilitate recent additions at the top)

38. Participant Conference on "The Future of Intra-societal Conflict and Violence Research" at University of Bielefeld, **Germany** from November 19-21, 2012
37. Participant Cultural cum Study tour of **Turkey** from October 2 to October 8, 2012.
36. Participant Regional Conference "Governance and Financing of Higher Education" held at Phuket, **Thailand** from October 18-20, 2010.
35. Participant Fifth International MIT LINC 2010 Conference, held at Cambridge, Massachusetts, **USA** from May 23-26, 2010
34. Participant workshop "Professional Development Training" organized by Leadership Foundation for Higher Education UK, held at Manchester, **UK** from 07-17 December, 2009.
33. Participant workshop "Achieving Excellence in Higher Education" held at Ifrane, **Morocco**, from 02-04 November, 2009.
32. Participant workshop "Pathway to Peace Project" Led by Quest for Economic Development (QED), held at Manchester **UK** from 22-28 June, 2009.
31. Participant "Higher Education Summit for Global Development" held at Washington D.C., **USA** from 29-30 April, 2008.

30. Participant XXXth Nathiagali International Summer College (organized by the PAEC) 27 June – 2 July, 2005
29. Visiting Scientist Kansas State University, **USA**, Summer 2002, 2003
28. Participant Symposium on Frontiers in Physics held at Government College, Lahore by the Pakistan Physical Society from Dec 20-22, 2000.
27. Participant 2nd Workshop on Particle Physics organized by the National Center for Physics in collaboration with CERN at the Quaid e Azam University, Islamabad from 13-18 November 2000.
26. Participant 25th Nathia Gali International Summer College on Physics And Contemporary Needs held at PC Bhurban (May 24-31, 2000). These Colleges are organized by the PAEC.
25. Participant 1st Workshop on Particle Physics organized by the National Center for Physics in collaboration with CERN at Quaid e Azam University, Islamabad, September 1999
24. Participant 24th Nathia Gali International Summer College on Physics And Contemporary Needs held at PC Bhurban (June 1999)
23. Participant and member Organizing Committee 1996 BCSPIN Kathmandu Summer School on High Energy Physics and Cosmology, **Kathmandu, Nepal** June 1996 (BCSPIN SCHOOLS are organized by the International Center for Theoretical Physics, Trieste, Italy; BCSPIN is an acronym for Bangla Desh, China, Sri Lanka, Pakistan, India and Nepal)
22. Participant and member Organizing Committee 1994 BCSPIN Kathmandu Summer School on High Energy Physics and Cosmology, Kathmandu, Nepal May 22 - June 8, 1994
21. Visiting Scientist Instt du Phys. Nucleaire, Orsay, **France** (June 1992)
20. Participant Summer Workshop on High Energy Physics and Cosmology as well as visiting Senior Associate, ICTP, Trieste, **Italy** (July 1992)
19. Participant "Regional Conference on Mathematical Physics" (Dec 1991) Edirne, **Turkey**
18. Participant "Symposium on Lepton Photon Physics and High Energy Physics conference LP - HEP 91 (July 25 - August 1, 1991), at CERN (European Organisation for Nuclear Research), Geneva, **Switzerland**
17. Visiting Senior Associate and participant Summer Workshop on High Energy Physics and Cosmology (June 19 - July 24, 1991), ICTP, Trieste, **Italy**
16. Participant "Cargese 90 Workshop on Z Physics" (August 1990) Cargese, **France**
15. Visiting Associate and participant "Summer Workshop on High Energy Physics and Cosmology" (summer 1990) ICTP, Trieste, **Italy**

14. Participant "3rd Blois Conference on Elastic and Diffractive Scattering at the Interface of Soft and Hard Scattering" (May 2-6, 1990) Evanston University, Illinois, **USA**
13. Participant "2nd Blois Workshop on Elastic and Diffractive Scattering" (October 15 - 18, 1987) at Rockefeller University, New York, **USA**
12. Invited Speaker at "Regional Conference on Mathematical Physics" (September 21 - 27, 1987) at Cukurova University, Adana, **Turkey**
11. Participant "Cargese 87 Workshop on Particle Physics" (August 3 - 21, 1987) at Cargese Institute, **France**
10. Participant "HEP 87 - High Energy Physics Conference of the European Physical Society" (June 24 - July 1, 1987) at Uppsala, **Sweden**
9. Visiting Associate and Participant "Summer Workshop on High Energy Physics and Cosmology" (July - August, 1987) at ICTP, Trieste, **Italy**
8. Participant "XXIIIrd International Conference on High Energy Physics" (16 - 23 July, 1986) at University of California, Berkeley, **USA**
7. Invited Speaker at "Regional Conference on Mathematical Physics" (January 8 - 10, 1986) at Chittagong University, **Bangla Desh**
6. Visiting Associate and participant "Summer workshop on High Energy Physics and Cosmology" (August 12 - 30 September, 1986) at ICTP, Trieste, **Italy**
5. Participant "Workshop on Elastic and Diffractive Scattering" (June 3 - 6, 1985) held at Chateau de Blois, Blois, **France**
4. Visiting Associate and participant "Summer Workshop on High Energy Physics" (July - August 1985) at ICTP, Trieste, **Italy**
3. Participant "Workshop on Non Perturbative QCD" (summer 1982) at ICTP, Trieste, **Italy**
2. Participant "Nathiagali International Summer College" (summer 1982) at Nathiagali Pakistan
1. Participant "1976 Summer School for Young High Energy Physicists" (summer 1976) at Southampton University, **England**

COUNTRIES VISITED

UK, Italy, France, USA, Sweden, Germany, Bangladesh, Nepal, Turkey, Saudi Arabia, Morocco, Thailand

MISCELLANEOUS:

Member Selection Committee **King Faisal International Prize** for Physics (2000); several recipients of this highly acclaimed prize went on to become Nobel laureates subsequently

Chief Editor, *Journal of Scientific Research*, University of the Punjab (March 2005- present)

Member National Advisory Scientific Program Committee NCP (National Center for Physics, QAU, Islamabad; NCP is controlled by SPD)

Member Punjab University Selection Board

Member Punjab University Senate

Founder President " Association of Ex Students of Physics Department at P.U." (AESOP) since 1998

Local Coordinator for World Laboratory Project for Pakistan 1992-97;(Present Project Director Prof. J. Ellis; previous Project Director Prof. A. Salam). This project is sponsored by the ICSC - International Centre for Scientific Culture with Headquarters at Laussane, Moscow and Beijing with Prof. A. Zichichi as its President)

Principal Investigator of the research project "*Aspects of Hadronic Scattering*" funded by the UGC – project completed

Principal Investigator of the research project "*The Deep Structure of the Nucleon*" funded by the Punjab University – project completed

Principal Investigator of the research project "*The Chou Yang Model and Hadron - Hadron, Hadron - Nucleus and Nucleus - Nucleus Scattering*" 1987 - 89; project funded by the Pakistan Atomic Energy Commission

Expert for evaluation of project proposals submitted to the **UGC** and the **Pakistan Science Foundation**

Convener Board of Studies in Physics –n 1995-2001, Jan 2007 – present (the responsibilities of the Board include revision of curricula and syllabi) of the University of the Punjab

Elected **member Punjab University Syndicate** (1981-82)

Member **Advanced Studies and Research Board** as nominee of the Syndicate (1996-98). The Board is responsible for all matters related to Ph.D. theses.

Life Member Pakistan Institute of Physics

Elected **Secretary** of the **Punjab University Academic Staff Association** 1983-84, 82-83, 73-74 and 72-73

Member **Punjab University Hockey team** (1969-71) and **Captain** of the team (1970-71)

Member **Gordon College Hockey team** and College color holder 1967-69

Awarded **Diploma of Merit** for active participation in the **House of Commons Debating Club**,
Gordon College (1965-69)

RESEARCH PUBLICATIONS

PAPERS PUBLISHED IN STANDARD FOREIGN JOURNALS / PRESENTED AT INTERNATIONAL CONFERENCES ABROAD

(Numbering in reverse order to facilitate recent additions at the top)

61. **M. Kamran** and M. Saleem: "Atmospheric Neutrino Physics" **5th International Symposium on Nuclear & Related Techniques**, NURT 2006, April 3-7 2006, Havana, Cuba
60. **M. Kamran**: "A Remark on Neutrino Oscillations" NANP – 03 Conference at Dubna, **Russia** June 22-28, (2003)
59. **M. Kamran**:
"A determination of nucleon form factor ratios using perturbative QCD" *Comm. Th. Phys.* 23 (1995) 379 (China)
58. **M. Kamran**:
"Probing the favour asymmetric nucleon sea with weak currents" *Comm. Th. Phys.* 21(1994) 125 (China)
57. **M. Kamran**:
"Constraints on form factor ratios and bounds on $\nu(\nu)$ N scattering in the standard model" *Comm. Th. Phys.* 18 (1992) 483 (China)
56. **M. Kamran**:
"A bound on $\nu(\nu)$ N scattering in the standard model" presented at Regional Conference on Mathematical Physics, December 1991, Edirne (Turkey)
55. **M. Kamran**:
"A simple connection between $\nu(\nu)$ N scattering and F_1^n/F_1^p " *Phys. Lett.* B258 (1991) 441 (Netherlands)
54. **M. Kamran**:
"New results in Quark Parton Model and recent data" *Phys. Lett.* B253 (1991) 499 (Netherlands)
53. **M. Kamran**:
"A sum rule involving the neutral current structure functions $F_2^{\nu(\nu)N}$ " *Had.J.* 14(1991) 203 (USA)
52. **M. Kamran**:
"Some relations involving neutral and charged current structure functions" *Int. J. Mod. Phys.* A5 (1990) 433 (Singapore)

51. **M. Kamran:**
 "Simple connections between elastic and inelastic scattering in the Quark Parton Model" Nucl. Phys. (Proc. Suppl) 12(1990) 324 (Netherlands)
50. **M. Kamran:**
 "Quark Parton Model and nucleon form factors" Had.J. 12(1989) 301 (USA)
49. **M. Kamran:**
 "Asymptotic behaviour of the Dipole Pomeron Model" Had.J. 12(1989) 301 (USA)
48. **M. Kamran** and I.E. Qureshi:
 " $\rho\alpha$ elastic scattering revisited" Had.J. 12(1989) 173 (USA)
47. **M. Kamran** and I.E. Qureshi:
 "Chou - Yang / Glauber - Velasco model and Kp elastic scattering" Had.J. 12(1989)43 (USA)
46. **M. Kamran** and I.E. Qureshi:
 "Pion Proton elastic scattering at high energies" Had.J. 12(1989) 43 (USA)
45. **M. Kamran** and N.A. Malik:
 "Donnachie - Landshoff model and diffraction dissociation at the Spps collider" Had.J.12 (1989) 25 (USA)
44. **M. Kamran** and I.E. Qureshi:
 "Chou - Yang model and $\alpha\alpha$ scattering at 126 GeV" Phys. Lett. B188 (1987) 122 (Netherlands)
43. **M. Kamran** and I.E. Qureshi:
 "Chou - Yang model and πp elastic scattering at high energies" Int. J. Mod. Phys. A2 (1987) 1871 (Singapore)
42. **M. Kamran** and I.E. Qureshi:
 "Chou - Yang model and $\Xi p \rightarrow \Xi p$ scattering" Int.J. Mod. Phys. A2 (1987) 277 (Singapore)
41. **M. Kamran** and I.E. Qureshi:
 "Eikonal phenomenology and meson - proton scattering" Proc. of 2nd Blois Conference on Elastic and Diffractive Scattering Oct. 15 - 18, 1987, Rockefeller University, New York, USA; Ed. K. Guolianos
40. **M. Kamran:**
 " α form factor and $\alpha\alpha$ scattering at CERN - ISR" presented at the EPS 87 Conference, Uppsala University, Sweden
39. **M. Kamran** and I.E. Qureshi:

"The Chou - Yang model and $\pi\alpha$ scattering at CERN - ISR" presented (by MK) at EPS 87 Conference, Uppsala University, Sweden

38. **M. Kamran** and I.E. Qureshi:

"The Chou - Yang model and πp and $\alpha\alpha$ elastic scattering" presented (by MK) at the EPS 87 Conference, Uppsala University, Sweden

37. **M. Kamran**:

"Recent developments in the phenomenology of elastic scattering" invited talk at Regional Conference on Mathematical Physics, September 21 - 27, 1987, Cukurova University, Adana, Turkey

36. **M. Kamran**:

"The Donnachie - Landshoff model and $\pi\alpha$ and $p\alpha$ elastic scattering" J. Phys. G.12 (1986) L113 (UK)

35. **M. Kamran** and I.E. Qureshi:

"The Chou - Yang model and πp elastic scattering at 200 GeV" Phys. Lett. B173 (1986) 205 (Netherlands)

34. **M. Kamran**:

"The Donnachie - Landshoff model and Σp elastic scattering" Chin. Phys. Lett. 3(1986) 409 (China)

33. **M. Kamran**:

"The Chou - Yang / Glauber - Velasco model and 630 GeV collider data" Had. J.9 (1986) 193 (USA)

32. **M. Kamran** and I.E. Qureshi:

"The Chou - Yang model and $p\alpha$ elastic scattering from 45 - 383 GeV" AIP Conf. Proc. 150(1986) 729 (USA)

31. **M. Kamran**:

"Evolution of the Chou - Yang model - a survey" Proc. Int. Conf. On Mathematical Physics, Jan 8 - 10, 1986, Chittagong University, Bangla Desh; Ed. J.N. Islam

30. **M. Kamran**:

"Analysis of Ξp elastic scattering at high energies" contributed paper XXIIIrd International Conference on High Energy Physics July 16-23, 1986, University of California, Berkeley, USA

29. **M. Kamran** and I. E. Qureshi:

"Aspects of Glauber - Velasco model" contributed paper XXIIIrd International Conference on High Energy Physics, University of California, Berkeley, USA

28. **M. Kamran**:

"The collider data and theoretical models of diffraction scattering" Had. J.5(1985)245 (USA)

27. **M. Kamran:**
"The Donnachie - Landshoff pomeron with a non linear trajectory and the collider data" Comm.Th. Phys. 4(1985) 277 (China)
26. **M. Kamran:**
"The dipole pomeron and 540 GeV collider data" J. Phys.G10 (1984) L31 (UK)
25. **M. Kamran:**
"Dipole pomeron and elastic scattering at collider energies" Prog.Th.Phys. 71(1984) 862L (Japan)
24. **M. Kamran:**
"A nonlinear pomeron trajectory and p(p)p slope parameter data at high energies" Prog.Th.Phys. 72(1984) 175 (Japan)
23. **M. Kamran:**
"A review of elastic hadronic scattering at high energies and small momentum transfers" Phys.Rep. 108C(1984) 275 (Netherlands)
22. **M. Kamran:**
"The Dual Absorptive model and πp elastic scattering revisited" Comm.Th.Phys. 3(1984) 189 (China)
21. **M. Kamran:**
"The Van der Waals model - an assessment in the light of collider data" Comm.Th.Phys. 3(1984) 385 (China)
20. **M. Kamran:**
"The pp slope parameter and diffraction dissociation at $\sqrt{s} = 540$ GeV" J.Phys.G 9(1983) L257 (UK)
19. **M. Kamran:**
"A phenomenological investigation of the pp slope parameter at $\sqrt{s} = 540$ GeV" J.Phys.G 9(1983) 861 (UK)
18. **M. Kamran:**
"A phenomenological investigation of Kp elastic scattering at high energies and small momentum transfers" Had.J. 6(1983) 1011 (USA)
17. **M. Kamran:**
"A study of the reaction $K^- p \rightarrow \phi \Lambda$ at 4.2 GeV/c" Comm.Th. Phys. 3(1983) 1121 (China)
16. **M. Kamran:**
"The dipole pomeron and $K^+ p$ elastic scattering upto 310 GeV/c" Comm.Th.Phys. 2(1983)
15. **M. Kamran:**
"pp polarisation at 200 GeV/c and pomeron flip" Had.J. 6(1983) 1029 (USA)

14. **M. Kamran** and M.A. Butt:
"pp elastic polarisation and pomeron flip revisited" J.Phys.G 8(1982)33 (UK)
13. **M. Kamran**:
"An analysis of $K^0p \rightarrow \Lambda\pi^+$ upto 8 GeV/c" Had.J.5 (1981)185 (USA)
12. **M. Kamran**:
"The Regge pole model and forward elastic data at high energies - an analysis" Austr. J.Phys. 34(1981) 611 (Australia)
11. **M. Kamran**:
"An analysis of πp elastic scattering at high energies and small momentum transfers" Had.J. 4(1981) 2144 (USA)
10. **M. Kamran** and M.A. Butt:
"The dipole pomeron and ϕp elastic scattering upto 310 GeV/c" Had. J. 4(1981) 2144 (USA)
9. **M. Kamran**:
"Polarisation in pp elastic scattering at 150 GeV/c - pomeron flip versus odderon flip" Had. J. 4(1981) 1838 (USA)
8. **M. Kamran**:
"Proton proton total cross sections and the neglect of masses in data fitting in the Regge region" Austr. J. Phys. 34(1981) 121 (Australia)
7. **M. Kamran**:
"An analysis of Kp elastic scattering" Proc. 17th International Conference on Cosmic Ray Physics" - July 1981 (France)
6. **M. Kamran**, M. Saleem and M. Ali:
"An analysis of the reactions $\pi^\pm p \rightarrow K^\pm \Sigma^{+\pm}$ " Acta.Phys.Pol. B12 (1981) 481 (Poland)
5. **M. Kamran**:
"Structure in pp elastic polarisation and pomeron flip" Had. J.3 (1980) 1181 (USA)
4. M. Saleem, F. Aleem and **M. Kamran**:
"Dipole pomeron and proton proton scattering at high energies" Austr. J. Phys.33 (1980) 481 (Australia)
3. **M. Kamran**:
"Dual Absorptive Model and πp elastic scattering upto 280 GeV/c" Il Nuov. Cim. 51A(1979) 43 (Italy)
2. **M. Kamran** and M. Saleem:

"Energy dependence of dip in pp elastic scattering and the pomeron periphery" Austr. J. Phys. 30(1977) 355 (Australia)

1. M. Saleem, S.H. Tirmazi and **M. Kamran**:

"O(3,1) symmetry model and Compton scattering of protons" Prog.Th.Phys. 49(1973) 2071 (Japan)

POPULAR ARTICLES, ETC ON SCIENCE AND INTERNATIONAL RELATIONS

(numbering in reverse to facilitate recent additions on top)

85. **M. Kamran**: Is the United States a Police State Now? 13th May 2015 www.mujahidkamran.com

84. **M.Kamran**

"How and Why was WW I Prolonged" 12th April, 2015, www.mujahidkamran.com

83. **M.Kamran**

"The Lusitania Affair" 25th March, 2015, www.mujahidkamran.com

82. **M.Kamran**

"Homelessness, Poverty, Wars, Dictatorship and the New World Order in America" 15th March, 2014, www.mujahidkamran.com

81. **M.Kamran**

"The Assassination of JFK and the New World Order" 10th November, 2013, www.mujahidkamran.com

80. **M.Kamran**

"The Collapse of WTC 7 and the Mysterious Death of Barry Jennings" 29th October, 2013, www.mujahidkamran.com

79. **M. Kamran**:

"Abdus Salam ABDUS SALAM the Physicist and the Man" 23rd February, 2013, www.mujahidkamran.com

78. **M. Kamran**:

"The Truth About Pearl Harbor", 3rd December, 2012, www.mujahidkamran.com

77. **M. Kamran**:

"9/11 An Analysis" 24th September, 2012, www.mujahidkamran.com

76. **M. Kamran**:

"The collapse of America and WWII" 30th August, 2012, www.mujahidkamran.com

75. **M. Kamran**:

"American Designs and Pakistan" Daily The Nation, 17th July, 2012

74. **M. Kamran:**
"The NWO and the American Dream" Daily The Nation, 15th June, 2012
73. **M. Kamran:**
"Human rights violation in the US" Daily The Nation, 29th May, 2012
72. **M. Kamran:**
"US prepares for civil war and WW III" Daily The Nation, 25th May, 2012
71. **M. Kamran:**
"Wars, deceptions and lies" Daily The Nation, 18th May, 2012
70. **M. Kamran:**
"International Bankers and WWII" Daily The Nation, 29th April, 2012
69. **M. Kamran:**
"International bankers and WWI" Daily The Nation, 17th April, 2012
68. **M. Kamran:**
"The Murder of General Patton" Daily The Nation, 12th April, 2012
67. **M. Kamran:**
"Dictatorship at home and war abroad" Daily The Nation, 20th March, 2012
66. **M. Kamran:**
"Will the US-Israel alliance attack Iran?" Daily The Nation, 28th February, 2012
65. **M. Kamran:**
"Why has the US become a Police State" Daily The Nation, 11th January, 2012
64. **M. Kamran:**
"Is the US becoming a police state?" Daily The Nation, 11th January, 2012
63. **M. Kamran:**
"How far is World War III" Daily The Nation, 21st December, 2011
62. **M. Kamran:**
"Who really controls the World" Daily The Nation, 14th December, 2011
61. **M. Kamran:**
"9/11 Revisited" Daily The Nation, 12th October, 2011
60. **M. Kamran:**
"The Elite, the 'Great Game', & World War III" Daily The Nation, 10th June, 2011
59. **M. Kamran:**

"Poverty and homelessness in USA" Daily The Nation, 19th January, 2011

58. **M. Kamran:**

"Poverty and homelessness in USA" Daily The Nation, 19th January, 2011

57. **M. Kamran:**

"US use of DU: A war crime" Daily The Nation, 14th January, 2011

56. **M. Kamran:**

"Domestic spying in USA" Daily The Nation, 28th December, 2010

55. **M. Kamran:**

"A Shadow Government in the US" Daily The Nation, 22nd December, 2010

54. **M. Kamran:**

"Who controls the Federal Reserve" Daily The Nation, 16th December, 2010

53. **M. Kamran:**

"The Federal Reserve Conspiracy, 9th December, 2010

52. **M. Kamran:**

"Who Killed John F Kennedy, 30th November, 2010

51. **M. Kamran:**

"Ruling Cabals of USA, 26th November, 2010

50. **M. Kamran:**

"Abdus SALam at Cambridge", 21st November, 2010

49. **M. Kamran:**

"The Dangerous Great Game", 10th November, 2010

48. **M. Kamran:**

"Canadian Sovereignty", 2nd November, 2010

47. **M. Kamran:**

"Drugs, US Corporations and CIA", 19th October, 2010

46. **M. Kamran:**

"End of the US as a Democracy" Daily The Nation, 12th October, 2010

45. **M. Kamran:**

"The Decay of US Courts" Daily The Nation, 28th September, 2010

44. **M. Kamran:**

"A troubled relationship" Daily The Nation, 18th July, 2010

43. **M. Kamran:**

"Urdu Literature: Towering physicists" Daily The Nation, 14th February, 2010

42. **M. Kamran:**

"Politics: Money and politics" Daily The Nation, 2st June, 2009

41. **M. Kamran:**

"Bush Marches Towards Dictatorship " Daily The Nation, ² November 18, 2007

40. **M. Kamran:**

"The Darfur Problem " Daily The Nation, ³ October 31, 2007

39. **M. Kamran:**

"Higher Education - An Appraisal " Daily The Nation, July 17, 2007

38. **M. Kamran:**

"ALBERT EINSTEIN" Daily The Nation, April 22, 2007

37. **M. Kamran:**

"The Future of Mankind" Daily The Nation Nov 26, 2006 - based on a talk "Science and the Future of Mankind" delivered at Islamabad on Nov 20, 2006 in connection with the World Day for Science for Peace and Development organized by the Pakistan Science Foundation and UNESCO

36. **M. Kamran:**

"The Truth About Pearl Harbor" Daily The Nation Jan 9, 2005

35. **M. Kamran:**

"The Promise and the Peril" an article on the necessity of improving relations between India and Pakistan - written on the occasion of the visit of Indian PM Mr. Vajpayee – Daily The Nation, December 30, 2003

34: **M. Kamran:**

"The Role of Science in Nation Building And The Future of Pakistan" – (A tribute to Dr. A. Q. Khan). Talk given at Fatima Jinnah Women University, Rawalpindi, 22 May 1999; this was published in all leading newspapers of the country (The Nation, The News, Nawa-i-Waqt, Pakistan, etc.) on May 27, 1999.

33: **M. Kamran:**

"Abdus Salam - the Human Side" Daily News November 26, 1996 (written on Prof. Abdus Salam's death)

32: **M. Kamran:**

" Max Planck - the Reluctant Revolutionary" Daily News May 10, 1995 issue

² Web address www.nation.com.pk

³ Web address www.nation.com.pk

31. **M. Kamran:**

"Imran Khan in Politics" *Daily Pakistan Observer*, Islamabad, January 21, 1995 issue

30. **M. Kamran:**

"Science aur aala taleem ka masala" ("The Problem of Science and Higher Education") in Urdu language, in the book "Qaumi Taleemi Policy 1992-2002 - Ek Jaiza" - (i.e. National Education Policy 1992-2002 - A Survey) Editor Salim Mansoor Khalid; Publisher Institute of Policy Studies, Islamabad, 1994

29. **M. Kamran:**

"The Story of Stephen Hawking" Magazine section of the *Daily Nation* (published from Islamabad and Lahore) May 13, 1994

28. **M. Kamran**

"Question of Human Destiny and AlMashriqi" Magazine section of the *Daily Nation*, April 15, 1994

27. **M. Kamran:**

"Einstein and the fair sex" Magazine section of the *Daily Nation*, September 17, 1993

26. **M. Kamran:**

"What's Wrong With Our Universities?" *Daily Pakistan Times* (appearing simultaneously from Lahore and Islamabad) August 19, 1993; also appeared in the daily Muslim (Islamabad) in two installments on August 20 and 21, 1993; written under pen name 'Ibn ul Haitham'

25. **M. Kamran:**

"Rejecting the only alternative? An appraisal of Pakistan's peaceful nuclear programme" *Daily Frontier Post* (appearing simultaneously from Lahore and Peshawar) September 6, 1991

24. **M. Kamran:**

"Soldier of Science" - an article on Abdus Salam's book 'Science, Technology and Science Education in the Development of the South - *Gulf Weekly*, UAE, September 15- 22, 1991 issue

23. **M. Kamran:**

"Abdus Salam the Man" Magazine section of the *Daily Pakistan Times*, February 15, 1991 issue (one of a series of articles written in connection with Professor Salam's 65th birthday)

22. **M. Kamran:**

"The Genius from Jhang" in the book 'Abdus Salam As We Know Him' published from ICTP in connection with Prof. Salam's 65th birthday - Ed. Wasim Ahmad; a part of the same article appeared under the same title in the February 15, 1991 issue of the *Daily Pakistan Times*. An extended version of the same article incorporating and augmenting "Abdus Salam the Man" appeared in monthly Concept, Islamabad, April 1994 issue, under the title "Abdus Salam - Soldier of Science"

21. **M. Kamran:**

"A Dream World in the Mediterranean" an article about Corsica written after participating the famous Cargese Summer School - *Daily Pakistan Times*, February 2, 1990 issue (Magazine section)

20. M. Kamran:

"Andre Sakharov - 1921 - 1990" In the February/ March issue of the *Monthly Concept* (published from Islamabad); also appeared in the *Monthly Azure* (published from Lahore) and *Quarterly Pakistan Outlook* published from Karachi

19. M. Kamran:

"Islam and Science with some comments on the state of science in Pakistan" the *Monthly Concept*, January 1990 issue; also appeared in the Magazine section of the *Daily Pakistan Times*, December 22, 1989 issue (title in the PT issue "Why we lag behind in sciences?") as well as in the *Quarterly Pakistan Outlook* (Karachi)

18. M. Kamran:

"Dirac - the taciturn genius" ICTP preprint IC/89/265; an abridged version of the same article appeared under the same title in the Magazine section of the *Daily Pakistan Times*, October 20, 1989 issue

17. M. Kamran:

"Einstein and Germany" the *Monthly Concept*, April 1989 issue; also appeared in the Magazine section of the *Daily Pakistan Times*, April 8, 1989 issue

16. M. Kamran:

"Albert Einstein 1879 - 1955" weekly *Scan* March 10, 1988 issue, p 20-22 (Published from Islamabad - *now ceased publication*)

15. M. Kamran:

"Where do we stand? Development of scientific talent" *Weekly Scan*, Vol 25, 6-8 December, 1987 issue, p 6-7 (Published from Islamabad - *now ceased publication*)

14. M. Kamran:

"High Temperature Superconductivity" *Weekly Scan* Vol. 23, Nov. 26 - Dec. 2, 1987 issue, p 32 (Published from Islamabad - *now ceased publication*)

13. M. Kamran:

"To the Heart of Matter-the Superconducting Super Collider" *Weekly Scan* Vol. 22, November 19 - 25, 1987 issue, p 15-17 (Published from Islamabad - *now ceased publication*)

12. M. Kamran:

"Italy - the land of Beauty, Glamour and Intellect" Magazine section, *Daily Nation*, October 9, 1987 issue (the article was written after visiting ICTP, Trieste during the summers of 1986 and 1987)

11. M. Kamran:

"Among the Swedes" Magazine section, *Daily Pakistan Times*, July 24, 1987 issue (the article was written after attending the EPS 87 Conference at Uppsala, Sweden)

10. **M. Kamran:**

"Fermi - the Genius Behind the First A-Bomb" - Magazine section, *Daily Nation*, December 12, 1985 issue

9. **M. Kamran:**

"Rutherford - the Father of Nuclear Physics" in *three* installments in the Magazine sections of the *Daily Pakistan Times*, October 18, 25 and November 1, 1985 issues

8. **M. Kamran:**

"Landau - the Nobel Laureate who Died Twice" in *two* installments in the *Daily Pakistan Times*, Magazine section, October 19 and 26, 1984 issues

7. **M. Kamran:**

"The Nobel Laureate Who refused To Work on the Russian H - Bomb" an article on the life and work of Peter Kapitza; Magazine section of the *Daily Pakistan Times*, May 11, 1984 issue

6. **M. Kamran:**

"Science - Our Major Need" Magazine Section of the *Daily Pakistan Times*, March 23, 1984 issue (published under pseudonym M.K. Ansari)

5. **M. Kamran:**

"The Malady of Punjab University" Magazine section of the *Daily Pakistan Times*, March 5, 1982 issue

4. **M. Kamran:**

"Einstein's Journey to fame - revolution in Space - Time Concepts" *Monthly Concept*, July 1982 issue, p14-18; also appeared in the Magazine section of the *Daily Pakistan Times*

3. **M. Kamran:**

"The Plight of Science and Higher Education in Pakistan" *Monthly Concept*, January 1982 issue, p 66-71

2. **M. Kamran:**

"Our Universities - How to Make Them Effective" *Monthly Concept*, December 1980 issue, p 37 - 39

1. **M. Kamran:**

"Mao tse Tung - The People's Emperor" - a critical review article on Dick Wilson's book of the same title; appeared in the *Monthly Concept*, Islamabad, December 1980 issue