

CURRICULUM VITAE

PERSONAL

Name:

Shaukat Ali

Father's Name:

Taj Din

Date of Birth:

4th February, 1954

Nationality:

Pakistani

Marital Status:

Married

Address:

Department of Physics, University of the Punjab,
Quaid-e-Azam Campus, Lahore-54590, PAKISTAN.

Tel:042-9239227(D), 9231243 & 9230428 (Ext. 803)

Fax:92-42-5856892

E-mail: shaukatpu@yahoo.com

FIELD OF SPECIALIZATION: High Energy Physics

EDUCATIONAL:

1993:

Ph.D. (High Energy Physics)

Centre for High Energy Physics

University of the Punjab

Lahore, Pakistan.

1980:

M.Sc. (Physics)

Department of Physics

University of the Punjab

Lahore, Pakistan.

SERVICE RECORD

03.01.2008 to date Chairman

Department of Physics, University of the Punjab, Lahore,
Pakistan

25.07.2004 to date	Professor Department of Physics, University of the Punjab, Lahore, Pakistan
1999 to 24.07.2004	Associate Professor Centre For High Energy Physics, University of the Punjab, Lahore, Pakistan
1996-1999	Assistant Professor, Centre for High Energy Physics, University of the Punjab, Lahore, Pakistan
1989-96	Lecturer in Physics Centre for High Energy Physics, University of the Punjab, Lahore, Pakistan.
1987-89	Research Officer Centre For High Energy Physics, University of the Punjab, Lahore, Pakistan.
1983-87	Research Officer PSF-Research Project P-PU / Physics (11/2) Centre for High Energy Physics, University of the Punjab, Lahore, Pakistan.

SEMINARS, SUMMER SCHOOLS, CONFERENCES:

International

1. "Pakistan Institute of Physics International Conference-2006, March 13-16, 2006, Lahore, Pakistan.
2. 30th International Nathiagali Summer College on Physics and Contemporary Needs: 27 June - 02 July , 2005, Nathiagali, Pakistan.

3. 27th International Nathiagali Summer College on Physics and Contemporary Needs: 24 June - 06 July , 2002, Nathiagali, Pakistan.
4. 25th International Nathiagali Summer College on Physics and Contemporary Needs: 26 June - 15 July , 2000, Nathiagali, Pakistan.
5. 24th International Nathiagali Summer College on Physics and Contemporary Needs: 28 June - 10 July , 1999, Nathiagali, Pakistan.
6. "Summer School in High Energy Physics and Cosmology" Miramare (ICTP) - Trieste, ITALY 2 June - 4 July 1997
7. II International Workshop & Conference on Quark Matter and The Heavy Ion Collisions, Gomal University, Dera Ismail Khan, Pakistan 06-13 January, 1996.
8. "Summer School in High Energy Physics and Cosmology" Miramare (ICTP) - Trieste, ITALY 13 June - 29 July 1994.
9. "Kathmandu Summer School, BCSPIN on Selected Topics in Field Theory , High Energy and Astroparticle Physics" Kathmandu, Nepal 22 May - 7 June 1994
10. "Autumn College on Techniques in Many-Body Problems" University of the Punjab, Lahore, PAKISTAN 31 Oct. - 17 Nov. 1987.

National

- 1 The Pakistan Institute of Physics, PIP Three Day Conference on " ", UET, Lahore, on 28th to 30th March 2011.
- 2 10th National Symposium on Frontier in Physics 11-14 January 2005 Lahore.
- 3 The Pakistan Institute of Physics, "Conference On Physics "October 21- 23, 2003 Lahore.
- 4 The Pakistan Institute of Physics, PIP One Day Conference on "Information Technology and Physics "at ICET, Punjab University Lahore, on 2nd February 2002.
- 5 The Pakistan Institute of Physics Conference 1995, Islamia University, Bahawalpure, Pakistan 3-6 April.

- 6 "The Pakistan Institute of Physics, Conference 1993" University of the Punjab, Lahore, PAKISTAN 2-5 April.
- 7 "The Pakistan Institute of Physics, Conference 1991" University of the Punjab, Lahore, PAKISTAN 2-5 March.

Organized

1. Organized, as member executive council of The Pakistan Institute of Physics, PIP three Day Conference UET, Lahore, on 28th to 30th March 2011.
2. *Organized* Pre-International Nathiagali Summer College (INSC) Preparatory Workshop held in the Department of Physics, University of the Punjab, Lahore on Monday 10th March 2008.
3. Organized a seminar on "Environmental Radioactivity and National Surveillance Program" Speaker: Dr. Iqbal Hussain Qureshi, Formal Member Technical (PAEC) Chairman (Advisory Committee on Research & Development), Pakistan Nuclear Regulatory Authority (PNRA) Islamabad, held at the Department of Physics on 03.03.2008.
4. Organized, as member executive council of The Pakistan Institute of Physics, "Conference on Physics "October 21- 23, 2003 Lahore.
5. Organized a Seminar on "Improvement of Quality and Standards of Education in the Universities" in the Centre for High Energy Physics, University of the Punjab, Lahore on 5th June 2003.
6. Organized, as member executive council of The Pakistan Institute of Physics, PIP One Day Conference on "Information Technology and Physics " at ICET, Punjab University Lahore, on 2nd February 2002.
7. Organized (conducted), as Secretary of The Pakistan Institute of Physics a lecture of Professor Dr. Inam-Ur-Rehman, Scientist Emeritus and former Director General, Centre for Nuclear Studies, Pakistan Atomic Energy Commission on " History of Atomic Explosions with Special Reference to

- Pakistan " at the Centre for High Energy Physics on 10th May, 2000.
8. Organized (conducted), as Secretary of The Pakistan Institute of Physics a lecture of Dr. Arshad Saleem Bhatti, Assistant Professor, Department of Physics University of the Punjab, Lahore on " Artificial Atoms: Road to Nano-technology " at the Centre for High Energy Physics on 26th April, 2000.
 9. Organized (conducted), as Secretary of The Pakistan Institute of Physics a lecture of Professor Dr. Mohammad Saleem, former Dean, Faculty of Science University of the Punjab, Lahore on " Solar Neutrino Puzzle " at the Centre for High Energy Physics on 30th March, 2000.
 10. Organized (conducted), as Secretary of The Pakistan Institute of Physics a lecture of Professor Dr. Mohammad Saleem, former Dean, Faculty of Science University of the Punjab, Lahore on " Solar Neutrino Puzzle " at the Centre for High Energy Physics on 17th February, 2000.
 11. Conducted, session- VII of the "PIP Conference 1995" 3-6 April 1995, Islamia University Bahawalpur.

Number of Theses Supervised

M. Phil	12 Completed
B.Sc. (Honors)	2 Completed

Memberships

Secretary (1998-99, 2000-01), Treasurer (2002-2003), Joint Secretary (2004-2005) & 2005 to date Life Member, Pakistan Institute of Physics

Member Board of Faculty of Science, University of the Punjab, Lahore, Pakistan

Member/Convenor Board of Study, Department of Physics, University of the Punjab, Lahore,

Member Board of Selection Committee (Employees University of the Punjab, Lahore).

Member/Chairman, Transport wing Workshop University of the Punjab, Lahore.

Member Board of Selection Committee employees (B.I.S.E, Lahore)

Member/Chairman, Board of Medical Advisory Committee University of the Punjab, Lahore.

Member Senate/Syndicate University of the Punjab, Lahore.

List of Research Publications

1. **First principles study of half-metallic ferromagnetism in Cr-doped CdTe**
Journal of Physics and Chemistry of Solids, Volume 72, Issue 6, June 2011, Pages 836-841
N.A. Noor, S. Ali, A. Shaukat
2. **First-principles calculations of structural, electronic and optical properties of Cd_xZn_{1-x}S alloys**, *Journal of Alloys and Compounds, Volume 507, Issue 2, 8 October 2010, Pages 356-363* N.A. Noor, N. Ikram, S. Ali, S. Nazir, S.M. Alay-e-Abbas, A. Shaukat
3. **First principles study of structural, electronic and magnetic properties of Mg_{1-x}Mn_xTe alloys**, *Journal of Alloys and Compounds, Volume 509, Issue 32, 11 August 2011, Pages 8137-8143* N.A. Noor, S. Ali, W. Tahir, A. Shaukat, A.H. Reshak
4. Current status for proton-proton and proton-antiproton elastic scattering at high-energies: **Journal of Scientific Research**, (Pakistan) **38** 1 (2008) (With Muhammad Rizwan Sami)
5. New Basis for the Standard Model for Electroweak Interactions: **Hadronic Journal** (USA) **29** 545 (2006).
6. Present Status of Photoproduction of Vector Mesons: **Journal of Scientific Research**, (Pakistan) **35** 25 (2006) (With Muhammad Saleem and Muhammad Ali).
7. Regge Theory for High Energy Proton – Deuteron Elastic Scattering: **Journal of Research (Science)**, (Pakistan) **16** 51(2005) (With Muhammad Ali)
8. High Energy Alpha - Proton Elastic Scattering: **Journal of Research (Science)**, (Pakistan) **15** 199 (2004) (With Muhammad Ali)
9. Regge Theory for High Energy Proton - Deuteron Elastic Scattering: **Journal of Research (Science)**, (Pakistan) **16** 51 (June, 2005) (with Muhammad Ali)
10. High Energy Alpha - Alpha Scattering: **Journal of Research (Science)**, (Pakistan) **15** 199 (June, 2004) (with Muhammad Ali)
11. Regge Model for $\gamma p \rightarrow \omega n$ at Low Energies and Large Momentum Transfers: **Science International**, (Pakistan) **16** 85 (April-June, 2004)
12. Regge Theory and Photoproduction of Vector Mesons: **J. Pure and Applied Sciences**, (Pakistan) **22** 109 (June, 2003) (with Haris Rashid et. al.)

13. Equalization of Response Functions of Chlorine and Gallium Detectors: **J. Natural Sciences & Maths.**, (Pakistan) **42** 133 (October, 2002) (with Faisal Akram et. al.)
14. Antiproton-proton Elastic Scattering at Very High Energies: **Hadronic Journal** (U.S.A.) **25** 273 (2002) (with Mohammad Saleem et. al.)
15. An Application of Recently Measured Proton Form Factor: Contributed to "Quark Confinement and the Hadron Spectrum", Gargnano, Garda Lake, Italy 10-14 September 2002. (with Mohammad Saleem et. al.)
16. Recent Measurements of Proton Electric Form Factor and Antiproton-Proton Elastic Scattering: Contributed to "Diffraction 2002", Dubna, Crimea, Ukraine, August 31 to 5 September, 2002. (with Mohammad Saleem et. al.)
17. Recent Results on Photoproduction of Vector Mesons and Mass Dependent Pomeron Trajectory: Contributed to "XXII Physcs in Collision Conference, June 20-22, 2002 Stanford, California, USA" (with M. Al).
18. Rise in Proton Structure Function: **Hadronic J. Supplement**, (U.S.A.) **15**, 57 (2000) (with F. Aleem and H. Rashid).
19. Mass-Dependent Pomeron Trajectory and Photoproduction of Vector Mesons: "Diffraction 2000" International Workshop on Diffraction in High-Energy Physics, Universita della Calabria, Cosenza, Italy, September 2-7, 2000 (with Mohammad Saleem and Haris Rashid).
20. A Bound on $\nu(\nu)N$ Cross-Section Ratios in the Standard Model: **J. Natural Sciences & Maths.**, (Pakistan) **40**, 71 (April & October, 2000) (with Mujahid Kamran).
21. Isotopic spin Dependence and $\gamma p \rightarrow \nu p$ Reactions: **J. Scientific Research**, (Pakistan) **29**, 73 (April, 2000) (with Haris Rashid)
22. Analysis of Photoproduction of Vector Particles by Using Mass-Dependent Pomeron Trajectory: **J. Scientific Research**, (Pakistan) **29**, 131 (April, 2000) (with Haris Rashid).
23. Phenomenological Relations Involving Moments of Spin Dependent Partons

Distributions: *J. Natural Sciences & Maths.*, (Pakistan) **39**, 57 (April, 1999)
(with Mujahid Kamran).

24. Regge Model and New Results for $\gamma p \rightarrow \phi p$ and $\gamma p \rightarrow \psi p$ Reactions: Contributed to " 25th Int. Cosmic Ray Conference", Durban, South Africa (1997) (with Haris Rashid)
25. Theoretical Aspects of Superconductivity in $M_x Si_{1-x}$ with $M=Au$ and Nb : *Science International* **7**, 337 (1995) (with F.Aleem et.al.)
26. Nucleus-(Hadron)Nucleus Elastic Scattering and Geometrical Picture: *Hadronic J. (USA)* **18**, 353 (August, 1995) (with F.Aleem and M. Saleem).
27. Is the Odderon a Reality?: *ASICTP Preprint No. IC/95/247 "Proceedings of the IRB Workshops"*, Monteroduni, Italy, 6-13 August 1995, (with F.Aleem).
28. Deuteron-Deuteron Elastic Scattering at High Energies: *Hadronic J. (USA)* **14**, 173 (1991) (with F. Aleem).
29. Chou-Yang Model and Hadronic Form Factor of the Deuteron : Contributed to " **IV International Conference on Nucleus-Nucleus Collisions** ", Khanazawa, JAPAN, June 1991, (with F. Aleem and M. Saleem).
30. Geometrical Picture and α Form Factor: Contributed to " **IV Int.Conference on Nucleus-Nucleus Collisions**" Khanazawa, JAPAN, June 1991, (with F. Aleem and M. Saleem)
31. Generalized Chou-Yang Model and Analysis of $p\alpha$ and $\alpha\alpha$ Elastic Scattering at High Energies: *Hadronic J. (USA)* **13**, 461 (1990) (with F.Aleem et al).