Curriculum Vitae

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| Dr. Sajjad Husain Bhatti |

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| Permanent address: House no. B-28, QAUResidential colony, Islamabad, PakistanContact: +92 300 9192696email: shbhatti@qau.edu.pk­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

PERSONAL:

Father’s Name Allah Bakhsh Bhatti

N.I.C Number 61101-8070120-5

Date of Birth 15th July, 1962

Material Status Married

Nationality Pakistani

Religion Islam

EDUCATION AND RESERCH:

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| Education |

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| Exam | Year of passing | Board/University | Division |
| Post Doc | 2008-2009 | Chinese Academy of sciences, Hefei, China |  |
| Ph. D | 1993-1997 | Seoul National University, Seoul, South Korea |  |
| M. Sc | 1984-1986 | B.Z.U. Multan, Pakistan | 1st |
| B. Sc | 1981-1983 | B.Z.U. Multan, Pakistan | 1st |
| F. Sc | 1978-1980 | BISE Multan, Pakistan | 1st |
| Matric | 1976-1978 | BISE Multan, Pakistan | 1st |
| Computer Language | 1986-1987 | Center for Nuclear studies (PIEAS), Islamabad, Pakistan |  |

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| Research |  |
| Post doc. | Thomson scattering system was developed for the diagnostic of plasma produce in EAST tokamakDevelopment of Thomson Scattering Diagnostic on the EAST Tokamak, Qing Zang, Junyu Zhao, Tao Zhang, Yangqing Jia, **S. H. Bhatti**, Xiaoqi Xi, Li Yang, Qingsheg Hu, Xiang Gao Plasma Science and technology, Vol. 12, Apr. 2010 |
| Ph. D Dissertation | High Spin spectroscopy of odd-odd 156Ho |
| Ph. D research | * The main experiment was done at Tandem accelerator at Tsukuba University, Japan.
* Along with this a beam line was extracted from 50 MeV cyclotron at cancer hospital in Korea for Physics experiments.
* Experimental work was done for the measurement of astrophysics reactions on Van de Graaff accelerator.
 |
| Conferences | * 37th International Nathiagali Summer College on Physics and Contemporary Needs. Organized by PAEC and NCP. (2012).
* National Symposium on Frontiers in Physics, February (2011) at GCU, Lahore, Pakistan,
 |
| Research At QAU | No. Students produced:1. M. Phil = 6

At present:M. Phil student = 2 (working on earthquake precursors)Ph. D student = 2 ( working on 5 MeV Pelletron, resonace reactions, PIGE, Stopping range ) |
| Publications | 1. Development of Thomson Scattering Diagnostic on the EAST Tokamak, Qing Zang, Junyu Zhao, Tao Zhang, Yangqing Jia, **S. H. Bhatti**, Xiaoqi Xi, Li Yang, Qingsheg Hu, Xiang Gao Plasma Science and technology, Vol. 12, Apr. 2010
2. Runaway electrons dynamics during impurity gas puffing on HT-7 tokamak, S.Sajjad, X. Gao, B. ling, **S. H. Bhatti**, T. Ang. Physics of Plasmas, 17, 042504 (2010)
3. Effect of gas puffing on current ramp-down ohmic discharge in HT-7 tokamak, S.Sajjad, X. Gao, B. ling, **S. H. Bhatti**, T. Ang. Physics Letter A (2009)
4. Generation of titanium K-radiation in a 1 kj plasma focus, M. Shafiq, A. A.Khan, S. Hussain, R. Ahmad, M. Zakaullah, **S.H. Bhatti**, A. Waheed, M. Zakaullah. Plasma devices and Operations(2004) pp1-8
5. X-ray enhancement from a plasma focus by inserting lead at the anode tip, S. Hussain, M. Zakaullah, S. Ali, **S.H. Bhatti**, A. Waheed. Phys. Letter A, Vol. 319, Oct. 2003 pp 181-187
6. Measurements of the Time Characteristics of the 35-MeV Pulsed α-beam Produced by the Korea Cancer Center Hospital Cyclotron, C.S. Lee, Y.S.Kim, J.Y. Hum, Y.J. Moon, J.H. Lee, J.C.Kim, J. Ha, **S.H. Bhatti**, J.H. Park, I.C. Kim, S.H. Park, J.S. Chai, Y.S. Kim, Journal of the Korean Physical society, Volume 31, No. 2, August 1997, pp. 426 ~ 431
7. Measurements of the Branching Ratio of (d, α) to (d, p) with a 9Be target at sub-Coulomb Energies, Y.J. Moon , C.S. Lee, , J.Y. Hum, J.K Yu, K.W. Song, Y.S. Kim, J.H. Choi, J.C. Kim, H.T. Chung, S.J. Chae, J. Ha, **S.H. Bhatti,** J.H. Park, S.H. Park , I.C. Kim, I.C. Kim. C.B. Moon, J.U. Kwon, and Y.K. Kim, Journal of the Korean Physical society, Volume 29, No. 4, August 1996, pp. 426 ~ 431
8. Light output response of BaF2 scintillator to light charged particles of medium energy, J.S. Chai, J. Ha, C.S. Lee, J.C. Kim, H.T. Chung, S.J. Chae, .J. Y. Moon, J.Y. Y.S. Kim, J.Y. Hum, J.K. Yu, G.W Song, **S.H. Bhatti**, J.H. Park, S.H. Park, I.C. Kim, Y.K. Kim, Y.S. Kim J.S. Hwang, Y.H. Nam, and M. Cho, Nuclear Instruments and methods in Physics research A 376 (1996) 208-212
9. Measurements of the Cross Section for the 9Be(d,p)10Be Reaction below the coulomb Barrier, Jin, Ho Choi, J.C. Kim, H.T. Chung, S.J. Chae, J. Ha, **S.H. Bhatti,** W.K. Lee, I.C. Kim, J.H. Park, S.H. Park et. al, I.C. Kim, Sae mully (The Korean Physical society) Volume 35, Number 5, October 1995, 604~612
10. High-Spin states of odd-odd 156Ho, **S.H. Bhatti**, J.C. Kim, H.T. Chung, S.J. Chae, J. Ha, Y.J. Moon ,C.S. Lee, C.B. Moon, T. Komatsubara, J. Lu, M. Matsuda,, T. Hayakawa, T. Watanbe and K. Furuno, Z. Phys. A 353, 119-120 (1995)
11. Level structure of 114Te, C.B. Moon, J.U. Kwon, S.J. Chae, J.C. Kim, **S.H. Bhatti,** C.S. Lee, T. Komatsubara, J. Mukai, T. Hayakawa, H. Kimura, J. Lu, M. Matsuda, T. Hayakawa, T. Watanbe and K. Furuno, Physical Review C, vol. 51, 2222(1995)
 |
| Teaching | 1. Punjab Education Department, (Lecturer, Asst. Prof.) from Oct. 1987 to Dec. 2001.

Courses taught:1. **Undergraduate**
* Basic Physics
* Classical Mechanics
* Modern Physics
1. **Graduate**

 Nuclear Physics1. Quaid-I-Azam, University, Islamabad. From Dec. 2001-now
* **Graduate level**; Mechanics and waves, EMT, waves & optics and thermodynamics
* **M. Sc level**: MMP 1, MMP 2, Circuit and Devices, LAB, I, II, IV, Nuclear Physics,
* **M. Phil, Ph. D**; MMP, Advanced nuclear Physics, Accelerator techniques in material science, Experimental techniques in Physics, Experimental techniques in Plasma Physics.
 |
| References | 1. Prof. Dr. Arshad Majeed Mirza

Professor, Physics department QAU, Islamabad, PakistanContact: 0092-51-90642120Email: a\_m\_mirza@yahoo.com1. Dr. Muhammad Shafiq

Associate Professor, department of Physics, QAU, Islamabad, Pakistan.Contact: 0092-51-90642150, 0092-331-5060341Email: shafiq\_qau\_pk@yahoo.com |