

Prof. J.B.Singh

Professor of Physics &
Director CIL/RSIC/SAIF/UCIM
Panjab University, Chandigarh

Educational Background

- Ph.D., Panjab University (1980)

Postion at Panjab University

- Lecturer/Sr. Lecturer, Panjab University (1980-94)
- Reader, Panjab University (1994-2002)
- Professor, Panjab University(2002-)
- Director CIL/SAIF/RSIC/UCIM (2008 -)

Position at International Institutes

- Scientist (CERN Fellow), European Organization in Nuclear Research(CERN),Switzerland(1984-85)
- CERN Associate,CERN, Geneva (1985-90)
- Scientist, Femi National Accelerator Laboratory (FNAL), USA(1992-93)

Visits at International Institute

- Visiting Scientist-Short Term, KEK(High Energy Accelerator Organization),Japan(1999,2001,'02,'03..'10)
- Visiting Scientist-Short Term, University of Genova, INFN, Italy(1986,1994)
- Visiting Scientist Boston University, Tufts University (USA), 1988
- Visiting Scientist-Short Term, CERN,Switzerland (1987,1996, ... 2011)

Important awards and Academic Achievements

- Discovery of Top Quark at Fermi National Accelerator LAB.(USA), 1995 (Felicitated by Panjab Univ. Senate)
- Discovery of CP-Violation in B-meson System at KEK, Japan(2001, 2003) (Felicitated by Panjab University Senate)
- Discovery of New Particles 2005, '07,'08,'09
- Bharat Jyoti Award, 2006

- Principal Investigator, DST-SERC Research Project “Study of CP-Violation...” 2001-05
- Principal Investigator, DST-SERC Research Project "Study of CP-Violation ...” 2006-10
- Principal Investigator, Indo-Japan Research Project "Study of CP-Violation ... ” 2005-7
- Principal Investigator, DST-DAE Research Project "Search for New Particles...” 2011-onwards
- Principal Investigator, DST-DAE Research Project "RPC detectors for India Based Neutrino Observatory...” 2010-onwards
- Principal Investigator, DST-DAE Research Project "CMS Project- Search for New particles...” 2009-2012

- Member, International Management Board HCAL for CMS (1996-2006)
- Member, Planning Committee for DST-SERC School in Experimental High Energy Physics (2000-2008)
- Member, 25 Years Road-map Committee for Research in Nuclear and High Energy physics, appointed by Govt. of India.
- Member, Task Force Monitor Committee for International Research Programme of DAE-DST, Govt. of India
- Member, Task Force Human Resource Development DAE-DST, Govt. of India
- Project Management Committee member, Rs.1000 Crores India Based Neutrino Observatory project.

- Member, National Organization Committee of DAE High Energy Physics Symposium, 1994,1996,1998, 2006,2008
- Member, International Conf. on Linear Accelerator, IISc, Bangalore, 1996
- Member, International Conf. Lepton-photon 2011, Mumbai, India

Main area of Research Work & outcome

- **Experimental high-energy physics, Instrumentation**
- Number of Research Publications in International Journals = 684
- Invited Talks, Lectures, Seminars delivered at National & International Universities and Institutes
- # of Ph.D./M.Phil Students Supervised = (6+~15)

Discovery Publications

1. Evidence for $B^0 \rightarrow \chi(c1) \pi^0$ at Belle. R.Kumar, J.B.Singh, et.al., Phys.Rev.D78,091104,2008
2. Observation of $B^{+-} \rightarrow \psi(2S) \pi^{+-}$ and search for direct CP-violation. V.Bhardwaj, J.B.Singh, et.al, Phys.Rev.D78,051104,2008
3. Observation of $B^{+-} \rightarrow \chi(c1) \pi^{+-}$ and Search for Direct CP Violation, R.Kumar, J.B.Singh, et.al, Phys.Rev.D74,051103,2006
4. Observation of $\chi(c2)$ production in B meson decay. Belle Collaboration (K. Abe *et al.*; J.B.Singh and S. Kumar) Phys.Rev.Lett.89:011803,2002.
5. Discovery of Top Quark, Phys.Rev.Lett.74:2632-2637,1995 & Phys.Rev.D52:4877-4919,1995.

Citation Summary

# of Citations Collaborative Research Papers	= 23902
H-Index	= 77
# of Citations Self Research Papers(1+5+6+7+14+1764+155)	= 1952