

Biographical Sketch - Vipin Bhatnagar

VIPIN BHATNAGAR
Professor
Department of Physics
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ACADEMIC BACKGROUND

Ph.D in Physics Panjab University, Chandigarh

Thesis Title: *Search for Top Quark in the electron-muon channel using the D0 detector at Fermilab Tevatron*

M.Sc. (Honors) Physics Panjab University, Chandigarh
(with Electronics specialization)

B.Sc. (Honors) Physics Panjab University, Chandigarh

PROFESSIONAL BACKGROUND

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|------------------------|--------------------------|-------------------|
| ● Professor | Panjab University, India | 10/2015 - Present |
| ● Assistant Professor | Panjab University, India | 8/2004 – 10/2015 |
| ● CERN Associate | CERN, Switzerland | 11/2004 – 10/2006 |
| ● Post Doctoral Fellow | LAL, Orsay, France | 6/2000 – 8/2001 |
| ● Programmer | Panjab University, India | 12/1998 – 7/2004 |
| ● Research Associate | Panjab University, India | 11/1997 – 11/1998 |
| ● Sr. Research Fellow | Panjab University, India | 11/1995 – 10/1996 |
| ● Guest Scientist | DZERO, Fermilab, USA | 7/1992 – 10/1995 |
| ● Jr. Research Fellow | Panjab University, India | 10/1991 – 6/1992 |

SERVICES

- Registration Authority (RA) for Panjab University for WLCG – ASGC, Taiwan
- In-charge High Performance Computing Center, Panjab University
- Referee for APS (Physical Review journals and Reviews of Modern Physics)
- In-charge Post-Graduate Computer Laboratory, Dept. of Physics
- Member Departmental Administrative Committee
- In-charge Experimental HEP Group

VISITING POSITIONS & COLLABORATIONS

- Brown University, Providence, USA -- Visiting Scientist (2009, 2010)
- Fermilab, USA -- D0 Experiment (1992 –Sep. 2011)
- CERN, Switzerland -- CMS Experiment (2001 – Present)
- Fermilab, USA – Collaborator on Neutrino Experiments (2010 – Present): LBNF-DUNE, NOvA

OTHER COLLABORATIONS

- India-based Neutrino Observatory (INO): 2003 onwards

CURRENT POSITION

Working as Professor of physics. Teaching under graduate and graduate students (both theory and laboratory). Guiding research students for MSc project and Ph.D. work. Member of the Experimental High Energy Physics group in the department. Principal Investigator and Co-Investigator in various DST(Govt. of India) funded research projects.

PUBLICATIONS

Co-author of more than 850 collaborative research papers in International Journals.

RESEARCH INTERESTS

- Heavy Flavor Physics
- Neutrino Physics
- Particle Detectors (Simulation & Development)
- Computational Physics
- High Performance Computing (Clusters, Parallel Computing, GPGPU)