

CURRICULUM VITAE.

NAME:

Sayantan Ghosh.

FATHER'S NAME:

Syamal Ghosh.

DATE OF BIRTH:

25th August, 1986.

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EDUCATIONAL QUALIFICATION:

Degree	Institution	Board/University	Year	Marks (percent)
X	Kendriya Vidyalaya, Rajkot	CBSE	2002	85.6
XII	Kendriya Vidyalaya, Rajkot	CBSE	2004	74.4
FYB.Sc.	St. Xavier's College, Ahmedabad	Gujarat University	2005	51.9
SYB.Sc.	St. Xavier's College, Ahmedabad	Gujarat University	2006	50.9

Advanced B.Sc. awarded by the Gujarat Science Academy and
Vikram A. Sarabhai Community Science Center, Ahmedabad.

Degree	Institution	Board/University/Guide	Month	Year
Sem I	VASCSC, Ahmedabad	GSA	October	2004
Sem II	VASCSC, Ahmedabad	GSA	February	2005
Project	Institute for Plasma Research, Gandhinagar	—	June	2005
Sem III	VASCSC, Ahmedabad	GSA	October	2005
Sem IV	VASCSC, Ahmedabad	GSA	February	2006
Project	Physical Research Laboratory, Ahmedabad	—	April	2006
Sem V	VASCSC, Ahmedabad	GSA	December	2006

Semester VI is ongoing.

PROJECTS

PROJECTS COMPLETED.

1. OVERVIEW OF ADITYA CHARGE EXCHANGE DIAGNOSTICS(ACXD)
GUIDE: Mr. Kumar Ajay Mishra, Institute of Plasma Research, Bhat, Gandhinagar.

In this project I have studied the Charge Exchange Diagnostics for calculating various plasma parameters and worked on the ACXD for determining various plasma parameters like temperature and plasma current. I also reported the shortcomings of the system being used at that time at IPR.

2. BEHAVIOR OF AN ELECTRON IN A SQUARE WELL POTENTIAL
GUIDE: Dr. Mahesh C. Patel, St. Xavier's College, Ahmedabad.

I studied the quantum mechanical implications of an electron in a square well potential and verified the standard results using C programming.

3. GUIDE: Dr. Prasanta K. Panigrahi, Physical Research Laboratory, Ahmedabad.

I am analyzing solar flux using Wavelet Transforms to understand various aspects of stellar differential rotation. (Paper in progress.)

PROJECTS ON HAND.

1. GUIDE: Dr. Tushar C. Pandya, St. Xavier's College, Ahmedabad.

I have developed a method for obtaining various parameters concerning a heterogeneous molecule using a single input parameter. Comparative study of various heterogeneous molecules using this method is in progress.

2. GUIDE: Dr. Tushar C. Pandya, St. Xavier's College, Ahmedabad.

I am studying Morse potential and its effects in molecular spectroscopy.

- GUIDE: Dr. Raghavan Rangarajan, Physical Research Laboratory, Ahmedabad.

I had started a reading project on the physics of early universe but could not complete it due to other academic commitments (College exams).

CONFERENCES AND SEMINARS ATTENDED:

1. The 2nd NATIONAL LEVEL SCIENCE SYMPOSIUM-2006 ON RECENT DEVELOPMENTS IN SCIENCE organized by the CHRIST COLLEGE, Rajkot, Gujarat and made an oral presentation entitled SUPERNOVA AND THE EXPANSION OF THE UNIVERSE.
2. INTERNATIONAL SYMPOSIUM ON QUANTUM OPTICS-2006 at the PRL, Ahmedabad.
3. A CENTURY OF PHYSICS SINCE 1905 EINSTEIN'S MIRACULOUS YEAR organized by the INDIAN ASSOCIATION OF PHYSICS TEACHERS (IAPT) at the PRL, Ahmedabad.
4. A lecture series on Einstein's Anus Mirabilis (in celebration of the International Year of Physics) organized by the PRL, Ahmedabad.

WORKSHOP ATTENDED:

- Physics Learning Camp for Undergraduate Students at the Sardar Patel University, Vallabh Vidya Nagar from September 4th to 9th, 2006 and won the Outstanding Performance Award (one among the four students to win the award).
I presented a poster entitled INTERFERENCE, A NATURE'S TREAT. in this workshop.

COMPUTER KNOWLEDGE:

- OPERATING SYSTEMS:
Windows, Linux(started learning).
- SOFTWARES AND PROGRAMMING LANGUAGES:
Microsoft Office, MATLAB, Mathematica(working knowledge), \LaTeX 2 ϵ , C language, GNU plot, Wavelet Toolbox (MATLAB).