Subhasish Mandal

CONTACT INFORMATION

Department of Physics
Michigan Technological University
Houghton, Michigan 49931

Phone: 906-370-9505
Fax: 906-487-2933
E-mail: smandal@mtu.edu

RESEARCH INTEREST

- Quantum Transport in Molecular Devices.
- Quantum Confinement in Nano wire.
- *Ab-initio* Relativistic Many Body Studies using Couple Cluster Theory
- Calculation of dipole and quadrapole transition and life time calculation for low-laying states.
- Electric Dipole Moment (EDM) of atom arising from EDM of electron.

PROJECT EXPERIENCE

- "Ab-initio Relativistic Many-Body Studies On The Electronics Structure of Ti IV "
  Advisor- Dr. Sonjoy Majumder, Dept. Of Physics, IIT Madras, Chennai,India
- "Electric Dipolemoment (EDM) of Atom arising from the EDM of Electron (Relativistic and Non relativistic cases)"
  Advisor- Prof. Bhanu Pratap Das, Indian Institute Of Astrophysics, Bangalore, India

EDUCATION

Currently pursing PhD in Department of Physics
Michigan Technological University, Houghton
Michigan 49931, USA

- Dissertation Topic: "Quantum Transport in Molecular Devices"
- Advisor: Dr. Ranjit Pati

M.Sc in Physics ,2005- 2007,
Indian Institute of Technology Madras, India.

- Dissertation Topic: "*Ab-initio* Relativistic Many-Body Studies On The Electronics Structure of Ti IV"
- Advisor : Dr. Sonjoy Majumder

B.Sc in Physics,2002- 2005,
Scottish Church College, University Of Calcutta, India

PUBLICATIONS

Subhasish Mandal, Gopal Dixit, B. K. Sahoo, R. K. Chaudhuri, Sonjoy Majumder: Theoretical spectroscopic studies of the atomic transitions and lifetimes of low-lying states in Ti IV,
J. Phys. B: At. Mol. Opt. Phys. **41**, *No 5, 055701 (2008)*

AWARDS & PARTICIPATION

- 2007: Graduate Teaching Assistant, Dept. Of Physics, Michigan Technological University, Michigan, USA
- 2006: Attended in 7th Asian International Seminar on Atomic and Molecular Physics (December 4-7, 2006), IIT Madras, India

- Ranked 630 out of 4904 candidates in GATE 2006 in Physics for PhD programme at IIT and IISc,India
- Ranked 144(in Physics) in Joint Admission Test to M.Sc (JAM) conducted by IIT s, India

- 2004: Attended UGC Sponsored Workshop in Statistical Physics and
  "National Seminar on current tends in research at the cross road of Physics, Chemistry & Biology", India

- Recipient of National Scholarship Award (at 8 std.) for talented children & Science talent Scholarship in 7 & 8 std

COMPUTER SKILLS

- Languages: FORTRAN 77, C(Elementary)
- Applications:LaTeX, html, MOLDEN, common Windows database, spreadsheet and presentation software.
- Mathematical Package:Matlab
- Ab-inition package:VASP
- Operating Systems: Unix/Linux, Windows.