



Achintya Low

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I am pursuing Ph.D. in experimental physics in Department of Condensed Matter Physics and Material Sciences of S. N. Bose National Centre for Basic Sciences, Kolkata. I am highly interested in single crystal growth and their properties. I am also interested in instrumentation and related things.

Currently I am working on magnetic frustrated system and in search of Quantum Spin Liquid.

EDUCATION

S. N. Bose National Centre for Basic Sciences

August 2016 to present

Integrated Ph.D. in Physical Science

In Integrated Ph.D. course we have two years of M.Sc. course and five years of Ph.D. My scores in M. Sc. is 72.1%.

Burdwan University

2013 to 2016

B.Sc (Hons.) in Physics

College : Burdwan Raj College

Marks Obtained 66.5 %

Suri Benimadhab Institution

2011 to 2013

Higher Secondary education under WBCHSE

Marks Obtained 84.2 %

Suri Benimadhab Institution

2010 to 2011

Secondary Education under WBBSE

Marks Obtained 85.62 %

EXPERIENCE

Summer Research Project

June 2017-July 2017

Visibility algorithm on Time Series and their properties

Time series is a series of some measurable data taken in interval of times. The plot of time series in x-y format gives us some patterns e.g. periodic, fractals, random etc. By implementing of Visibility algorithm I got a network (graph) and I have analysed the probability distribution of the link between nodes of the network. This result gives very interesting phenomenon between varies time series which can be used in many natural scenarios. For doing this I used Fortran 77 compiler and Xmgrace plot.

Masters Project 1

Indirect Percolation

Percolation is a phenomenon when a system undergoes from a local behavior to global behavior. In this project I did analysed on various system of percolation e.g. Cube lattice, random network, scale-free network, periodic network etc. To do so I used Hoshen Kopelman algorithm and burning algorithm and Monte Carlo simulation on Fortran 77 compiler.

Masters Project 2

Parrondo's Parradox

This paradox says that when two game both being loosing, are played in some special sequences can give the whole game as winning one. This is a part of Game-Theory. I did Monte Carlo simulation on this game and I also did the analytical part of it.

Research Project

Solid State Lithium Ion Battery

The way a solid state battery is different from ordinary Li ion battery is it has no liquid or amorphous electrolyte rather its electrolyte is also a solid. This solid state battery is very safe from the liquid one as there are no dendrite problem. I have made some solid electrolyte material using solid state synthesis.

SCHOLASTIC ACHIEVEMENTS

Joint Admission test for M. Sc. (JAM 2016)

March 2016

Indian Institute of Science & Indian Institute of Technology

JAM is national level exam conducted jointly by IISc and IIT for admission in M. Sc. physics program in India. My all India rank (AIR) in JAM-2016 was 223.

Joint Entrance Screening Test (JEST 2016)

March 2016

- JEST is also a national level exam for admission in integrated PhD and PhD programs in various institutes recognized by Department of science and Technology, and Department of Atomic energy, Government of India.
- I secured 47 All India Rank (AIR) in JEST 2016.

SKILLS

I have some knowledge in the following applications

- Fortran-77 programming language
- gnuplot
- LaTeX
- Origin Pro
- FullProf
- LabVIEW

PERMANENT RESIDENCE

S/O Akshoy Kumar Low

Ranjanbazar

Dubrajpur

Pin- 731123

District- Birbhum

West Bengal

DECLARATION

I, Achintya Low, hereby declare that all the above informations are correct to best of my knowledge.

Dated: 30/08/2018

(Achintya Low)