

DETAILS OF RESEARCH SCHOLAR

Anindita Patra

Research Scholar

Dept of Ocean Engineering and Naval Architecture
Indian Institute of Technology Kharagpur
India

Ph: +91-7602779249

Email: aninditapatra699@gmail.com



EDUCATIONAL DETAILS

Examination Passed/ Qualified	Discipline	Institution	Year of Passing
M.Sc	Physics	IIT Kharagpur	2013
B.Sc	Physics	Midnapur College (Vidyasagar University, W.B.)	2011
Higher Secondary		Nayabasan J.K. Balika Vidyalaya, Gopiballavpur	2008
S.S.C		Nayabasan J.K. Vidyapith	2006

RESEARCH INTEREST

- Climate science
- Hydrodynamics
- Ocean sciences
- Mathematical Methods

M.Sc PROJECT

Title: “*Character table of symmetric groups*”

Abstract: This work is aimed to find methods by which how easily one can construct character table. There are various methods to find character, calculations involved in many methods becomes lengthy for larger groups. In my project at first I have constructed character table of symmetry groups S_3 , S_4 , S_5 , and S_6 by Young tableaux method. I have tried to construct Character table of S_n by observing whether there is some pattern in the characters of the different S_n . I have also tried to construct the columns of character table of S_n by doing different rotation of orthogonal basis vectors and then to find a relation of the rotation angle with n . I have calculated the character of D_4 group explicitly by doing the symmetry operation of the group on different modes.

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EXPERIENCE

Worked on a project at Solid State Laser lab, Department of Physics, IIT Kharagpur

PROFESSIONAL SKILLS

- Certificate course in ADITA.
- Acquainted with C, MATLAB and Wolfram Mathematica, Origin.

LANGUAGES KNOWN

Bengali, English and Hindi

PERSONAL DETAILS

Address	D/o- Motilal Patra, Vill. – Tikayetpur, P.O. - Chhatinasole, Dist. – Paschim Medinipur, West Bengal – 721506, India
Email Address	aninditapatra699@gmail.com
Mobile No.	+917602779249
Date of Birth	25.04.1991
Nationality	India