

Nimai Charan Paty. 4-9-18

Prakash K. Pattanayak

Prof. K. P.

Bidyadhar Nayak +3 11th year science BS16-086

Anil Kumar Behera +3 11 year BS17-010

Aliva Sasmal +3 1st year BS18090

Subhasree Khillax +3 1st yr science BS18031

Snigdhaani Moharana BS18-079 +3 1st yr science.

Somali CK 4-9-18
H.O.D.
Dept. of Physics
Simulia College
Markona, Cuttack

Department of Physics
Seminar
4/9/18

Year: 2018

Name of Seminar: Superfluidity

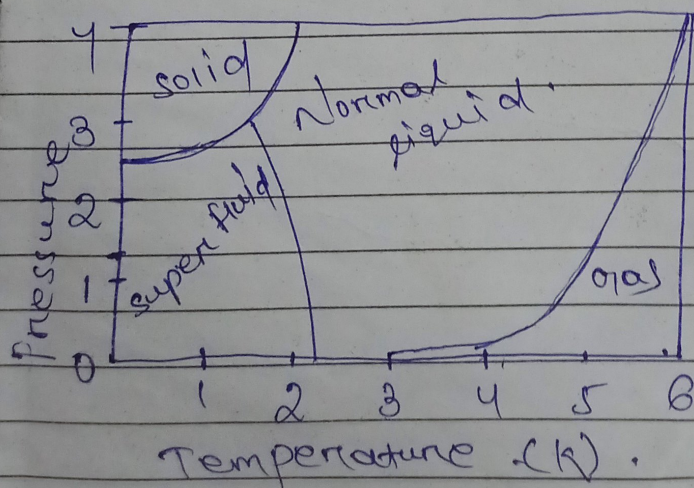
No. of Participant: 47

Date: 4.09.2018

Activity report: under the chairmanship of Prof. Shukla Malick, the Dept. Seminar was conducted. Three students and staff members of the department kept their opinion on the topic. Also, Nimai Charan Pati, Reader in Physics of Chandbali College, joined as resource person.

Abstract of the Seminar:

Superfluidity occurs only in certain substance under special condition. As a first case, liquid helium is discussed. Under standard pressure and temperature, helium is a gas. It liquifies at temperature $\sim 4\text{K}$. cooling further down, it enters the superfluid phase at temperature $\sim 2\text{K}$, depending on pressure. The phase diagram of natural helium at low temperature is shown in Figure-2. Natural helium consists essentially of isotope ^4He .



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Shubham Adhar	+3, 1st year Science, BS18031
Aranya Behera	BS18-018 +3, 1st Math (H)
Aranya Behera	BS18-021, +3, 1st Math (H)
Aranya Panda	BS18-034, +3, 1st year Science
Aranya Panda	BS18043, +3, 1st year Science
	+3, 1st year Science
Aranya Panda	BS17-012, +3, 2nd year Science
Aranya Panda	BS17-024, +3, 2nd year Science
Aranya Panda	BS17-025, +3, 2nd year Science
Aranya Panda	BS17-032, +3, 2nd year Science
Aranya Panda	BS17-035, +3, 2nd year Science
Aranya Panda	BS17-044, +3, 2nd year Science
Aranya Panda	BS17-049, +3, 2nd year Science
Aranya Panda	BS17-060, +3, 2nd year Science
Aranya Panda	BS17-006, +3, 2nd year Science
Aranya Panda	BS17-075, +3, 2nd year Science

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 Dept of Physics
 Simulia College
 Markana, Balasore

Department of Physics
Seminar

2

Year - 2018-2019

Name of topic of seminar: Superfluidity

Date: 4.9.18

Staff Present:-

- (1) 1 Shukadeva Mallik
- (2) Prakash Kumar Pathengada
- (3) Praveen Kumar Pathengada
- (4) Nimai Charana Pati
- (5) Banamal Das
- (6) Prabelli Das

Student Present:-

(7) Pravat Kumar Nayak

- 8 Bidyashankar Nayak, +3, 3rd year Science, BS16086
- 9 Bijay Kumar Panda, +3, 3rd year Science, BS16008
- 10 Debasis Sahoo, +3, 3rd year Science, BS16084
- 11 Md Sir Javed, +3, 3rd year Science, BS16077
- 12 Padma Lochan Mahapatra, +3, 3rd year Science, BS16013
- 13 Sanjita Prasad Das, +3, 3rd year Science, BS16053
- 14 Sashimadhuri Dhal, +3, 3rd yr, science, BS16019
- 15 Soumyarajan Lenka, +3, 3rd year Science, BS16050
- 16 Sukanti Panda, +3, 3rd year Science BS16081
- 17 Tusharkanta Sahoo, +3, 3rd year Science, BS16081
- 18 Anil Ku Behera, +3, 2nd year Science, BS17010
- 19 Anushree Das, +3, 2nd year Science, BS17095
- 20 Dhanu Kumar Mandal, +3, 2nd year Science BS17090
- 21 Chandan Kumar Sahu, +3, 2nd year, BS17079
- 22 Deepak Kumar Malapatra, +3, 2nd year Science, BS17071
- 23 Manali Kumar Rout, +3, 2nd year Science, BS17041
- 24 Sanat Kumar Jena, +3, 2nd year Science, BS17042
- 25 Satyabrata Nayak, +3, 2nd year Science, BS17094
- 26 Jyotiranan Das, +3, 1st year Science, BS18009
- 27 Padma Bala, +3, 1st year Science, BS18081
- 28 Shitashanka Giti, +3, 1st year Science, BS18002
- 29 Shubhanayan Mallik, +3, 1st year Science, BS18007
- 30 Snigdha Mohanty, +3, 1st year Science, BS18079
- 31 Ariva Sasmal, +3, 1st year Science, BS18090



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Dept. of Physics
Simulia College
Markona, Baleshore



Office of the Principal

SIMULIA COLLEGE

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Letter No. SEM/PHY/2018

Date: 31.08.18

To

Nimai Charan Pati
Reader in Physics,
Chandabali College, Bhadrak

Sub: Request to attend the Physics Dept. seminar as Resource Person.

Sir,

I am to inform you that the Department of Physics is going to organize a seminar on the topic "Super Fluidity" on 04-09-2018 at 02:00 P.M so you are requested to attend the seminar as Resource Person.

This is for your kind information and necessary action.

Yours faithfully,

Principal
Simulia College
Markona, Balasore

Principal
Simulia College
Markona, Balasore

Copy forwarded to the Principal, Chandabali College, Bhadrak for information and request to him to allow Nimai Charan Pati to attend the program.

Office of the principal
Simulia college, Markona
Notice No: - 107

Date: - 31-08-2018

The Departmental Seminar of Physics Will be held on 04-09-2018 at 02:00 P.M in the smart class room on the topic "Super fluidity". Hence all the students of the department are here by instructed to participate in the seminar and the other staff members of different faculties are also requested to remain present to make the seminar a grand success.

Further all the +3 class of Physics & chemistry department shall remain suspended for the said purpose. From 01:00 P.M.

Copy to Office/ TCR/BCR/GCR/Notice Board

Principal
Simulia College
Markona, Balasore

Resolution-01
31-08-18

Page No.
Date: 31 / 08 / 18

On 31.8.18 a departmental meeting was held under the chairmanship of the HOD S.J. Shukadeva Mallick. The following discussions were held.

1. S.J. Shukadeva Mallick proposed to organise a Seminar. It was unanimously accepted by all.
2. For an effective academic success our honorable HOD viewed a topic named "SUPERFLUIDITY" It was welcomed by all students and faculties of our department.
3. It was discussed to invite Nimai Charan Pati of Chandabali College, Chandabali as the resource person to Seminar on 4-9-18.

The meeting was over with thanks to the H.O.D. of the department.

S. Prakash Kumar Pattnayak

S. Mallick
31.8.18
H.O.D.
Dept. of Physics
Simulia College
Markona, Balasore

α Bidyadhar Nayak +3rd year BS16-086

α Bijay Kumar Panda +3rd year BS16-008

α Debasis Sahoo +3rd year BS16-084