

C. K. MAJUMDAR MEMORIAL SUMMER WORKSHOP IN PHYSICS 2019

Organised jointly by
Indian Association of Physics Teachers (Regional Council 15) [IAPT RC 15]
and
S. N. Bose National Centre for Basic Sciences [SNBNCBS], Kolkata

May 28 to June 07, 2019

P R O G R A M M E

Tuesday, May 28, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:00 a.m.	R E G I S T R A T I O N <i>(for participants only)</i>		
10:00 a.m. to 11:00 a.m. (Inaugural Session)	Prof. Samit Kumar Ray	Director, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	Inaugural Address
	Dr. Achintya Pal	Secretary, IAPT RC 15	A few words about IAPT and the Workshop
11:00 a.m. to 11:30 a.m.	T E A B R E A K		
11:30 a.m. to 12:30 p.m.	Prof. Amitava Raychaudhuri	Department of Physics, University of Calcutta, Kolkata	The Many Novelties of Neutrinos
12:30 p.m. to 01:30 p.m.	Prof. Jayanta Kumar Bhattacharjee	Indian Association for the Cultivation of Science, Jadavpur, Kolkata	Renormalization Group I
01:30 p.m. to 02:30 p.m.	L U N C H B R E A K		
02:30 p.m. to 03:30 p.m.	Screening of a Documentary Film on Prof. Satyendra Nath Bose		
03:30 p.m. to 03:45 p.m.	T E A B R E A K		
03:45 p.m. to 05:00 p.m.	Orientation Session		

Wednesday, May 29, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Prof. Jayanta Kumar Bhattacharjee	Indian Association for the Cultivation of Science, Jadavpur, Kolkata	Renormalization Group II
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Dr. Ananda Dasgupta	Department of Physical Sciences, Indian Institute of Science, Education and Research Kolkata, Mohanpur	Exploring Quantum Mysteries I
12:15 p.m. to 01:30 p.m.	Dr. Ananda Dasgupta	Department of Physical Sciences, Indian Institute of Science, Education and Research Kolkata, Mohanpur	Exploring Quantum Mysteries II
01:30 p.m. to 02:30 p.m.	<i>L U N C H B R E A K</i>		
02:30 p.m. to 05:30 p.m.	L a b o r a t o r y S e s s i o n		

Thursday, May 30, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Prof. Priya Mahadevan	Department of Condensed Matter Physics and Material Sciences, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	Why do solids behave the way they do ?
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Dr. Kanik Palodhi,	Department of Applied Optics and Photonics, University of Calcutta, Salt Lake	Optical Nanometrology

Saturday, June 01, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Prof. Ansuman Lahiri	Department of Biophysics, Molecular Biology & Bioinformatics, University of Calcutta, Kolkata	Decoding the molecular codes of life
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Dr. Santanu K. Maiti	Physics and Applied Mathematics Unit, Indian Statistical Institute, Kolkata	Persistent current for beginners: Aharonov-Bohm effect and related issues
12:15 p.m. to 01:30 p.m.	Prof. Kalyan Mandal	Department of Condensed Matter Physics and Material Sciences, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	Magnetism: Bulk to Nano
01:30 p.m. to 02:30 p.m.	<i>L U N C H B R E A K</i>		
02:30 p.m. to 05:30 p.m.	Dr. Goutam Bhattacharya	Department of Physics, Ramakrishna Mission Vidyamandira, Belur Math, Howrah	Introduction to ARDUINO.UNO by Simple Experiments

Sunday, June 02, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Dr. Syed Minhaz Hossain	Department of Physics, Indian Institute of Engineering, Science and Technology, Shibpur, Howrah	Surface states: theory and applications
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		

11:00 a.m. to 12:15 p.m.	Dr. Ananda Dasgupta	Department of Physical Sciences, Indian Institute of Science, Education and Research Kolkata, Mohanpur	Exploring Quantum Mysteries III
12:15 p.m. to 01:30 p.m.	Dr. Ananda Dasgupta	Department of Physical Sciences, Indian Institute of Science, Education and Research Kolkata, Mohanpur	Exploring Quantum Mysteries IV
01:30 p.m. to 02:30 p.m.	<i>L U N C H B R E A K</i>		

Monday, June 03, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Prof. Deb Shankar Ray	Indian Association for the Cultivation of Science, Jadavpur, Kolkata	Kinetics of escape over a barrier "
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Dr. Achintya Pal	Exploration Geophysicist, Oil and Natural Gas Corporation Limited	Geo-magnetism: facts and a few questions.
12:15 p.m. to 01:30 p.m.	Prof. Amit Ghosh	Scientific Information & Resources Division, Saha Institute of Nuclear Physics, Salt Lake, Kolkata	An introduction to Black hole Physics
01:30 p.m. to 02:30 p.m.	<i>L U N C H B R E A K</i>		
02:30 p.m. to 05:30 p.m.	L a b o r a t o r y S e s s i o n		

Tuesday, June 04, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Prof. Amit Ghosh	Scientific Information & Resources Division, Saha Institute of Nuclear Physics, Salt Lake, Kolkata	An introduction to Cosmology
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Prof. Anjan Barman	Department of Condensed Matter Physics and Material Sciences, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	Introduction to Laser and its applications
12:15 p.m. to 01:30 p.m.	Dr. Soumen Mondal	Department of Astrophysics and Cosmology, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	High Angular Resolution Astronomy: Black hole Imaging
01:30 p.m. to 02:30 p.m.	<i>L U N C H B R E A K</i>		
02:30 p.m. to 03:30 p.m.	Dr. Ramkrishna Das	Department of Astrophysics and Cosmology, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	The Universe and Us
03:30 p.m. to 05:30 p.m.	Dr. Ramkrishna Das	Department of Astrophysics and Cosmology, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	Demonstration on Telescope

Wednesday, June 05, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Dr. Atindra Nath Pal	Department of Condensed Matter Physics and Material Sciences, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata	How does current flow through a single atom?
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Students' Session		
12:15 p.m. to 01:30 p.m.	Prof. Amitabha Lahiri	Department of Theoretical Science S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata,	Elementary particles
01:30 p.m. to 02:30 p.m.	<i>L U N C H B R E A K</i>		
02:30 p.m. to 05:30 p.m.	Students' Session		

Thursday, June 06, 2019

Time	Name of the Speaker	Affiliation	Title of the talk / Event
09:30 a.m. to 10:45 a.m.	Prof. Samit Kumar Ray	Director, S N Bose National Centre for Basic Sciences, Salt Lake, Kolkata,	Physics of Surfaces & Heterostructures
10:45 a.m. to 11:00 a.m.	<i>T E A B R E A K</i>		
11:00 a.m. to 12:15 p.m.	Students' Session		
12:15 p.m. to 01:30 p.m.	Prof. Gour P Das	Department of Metallurgical and Materials Engineering Indian Institute of Technology, Kharagpur	Graphene: the simplest Dirac material

01:30 p.m. to 02:30 p.m.	<i>L U N C H</i>	<i>B R E A K</i>
02:30 p.m. to 05:30 p.m.	<i>L a b o r a t o r y</i>	<i>S e s s i o n</i>

Friday, June 07, 2019

Time	E v e n t	
09:30 a.m. to 10:45 a.m.	<i>S t u d e n t s ' </i>	<i>S e s s i o n</i>
10:45 a.m. to 11:00 a.m.	<i>T E A</i>	<i>B R E A K</i>
11:00 a.m. to 01:30 p.m.	<i>V A L E D I C T O R Y S E S S I O N</i>	
01:30 p.m. to 02:30 p.m.	<i>L U N C H</i>	