

# International Workshop on Bose-Einstein Condensation and Related Phenomena (IWBECRP)

[ On 26<sup>th</sup>-28<sup>th</sup> March, 2018 at Silver Jubilee Hall, S. N. Bose National Centre for Basic Sciences, Kolkata ]

## Day 1, 26<sup>th</sup> March, 2018 (Monday)

**09:00 to 09:45**     **Registration** (In front of Silver Jubilee Hall)

**09:45 to 11:00**     **Session I**

09:45 to 10:00	<i>Inauguration</i> (Silver Jubilee Hall)
10:00 to 11:00	<i>Wolfgang Ketterle, MIT (USA)</i> (23rd S N BOSE MEMORIAL LECTURE: New forms of matter with ultracold atoms: supersolid, superradiance, and polar molecules)

**11:00 to 11:45**     **High Tea**

**11:45 to 12:45**     **Session II**

11:45 to 12:45	<i>Rajdeep Sensarma, TIFR (India)</i> (Superfluidity from Doublon Condensation)
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**12:45 to 14:30**     **Lunch** (Venue: IHB TQC building)

**14:30 to 16:30**     **Session III**

14:30 to 15:30	<i>Sadhan Adhikari, IFT, UNESP (Brazil)</i> (Lecture 1: Bose-Einstein condensation I. A brief introduction)
15:30 to 16:30	<i>Edouard Sonin, Racah Institute of Physics (Israel)</i> (Spin and mass superfluidity in spin-1 BEC of cold atoms)

**16:30 to 18:30**     **Poster Session and Tea** (Venue: IHB TQC building)

**19:30 Onwards :** **Workshop Special Dinner** (Venue: Bhagirathi Guest House Canteen)

## Day 2, 27<sup>th</sup> March 2018 (Tuesday)

**10:00 to 11:00**     **Session I**

10:00 to 11:00	<i>Mukunda P. Das, ANU College of Science (Australia)</i> (Lecture 1: Ideal and Imperfect Bose Fluids without and with Confinements)
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**11:00 to 11:30**     **Tea time**

**11:30 to 13:30**     **Session II**

11:30 to 12:30	<i>B. V. Costa, UFMG (Brazil)</i> (Lecture 1: Bose-Einstein condensation)
12:30 to 13:30	<i>Ramesh V. Pai, Goa University (India)</i> (Bose Hubbard Model: Phases and Excitations)

**13:30 to 15:00**     **Lunch** (Venue: IHB TQC building)

**16:00 to 17:00 Public Lecture by Wolfgang Ketterle (MIT, USA)**

Venue: Science City

Title: Cooling close to absolute zero temperature: a recipe for discoveries

**19:30 Onwards : Workshop Dinner (Venue: Bhagirathi Guest House Canteen)**

**Day 3, 28<sup>th</sup> March 2018 (Wednesday)**

**10:00 to 11:00 Session I**

10:00 to 11:00	<i>Yoji Ohashi, Keio University (Japan)</i> (Strong-coupling properties of an ultracold Fermi gas in the BCS-BEC crossover region and application to neutron-star equation of state)
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**11:00 to 11:30 Tea time**

**11:30 to 13:30 Session II**

11:30 to 12:30	<i>Bimalendu Deb, IACS (India)</i> (Creating Atom-Atom Bound State in Continuum by Interference of Magneto-Optical Feshbach Resonances)
12:30 to 13:30	<i>B. V. Costa, UFMG (Brazil)</i> (Lecture 2. Properties of the XY model)

**13:30 to 14:30 Lunch (Venue: IHB TQC building)**

**14:30 to 15:30 Session III**

14:30 to 15:30	<i>Sadhan Adhikari, IFT, UNESP (Brazil)</i> (Lecture 2: Bose-Einstein condensation II. Some exotic states)
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**15:30 to 16:00 Tea time**

**16:00 to 19:00 Session IV**

16:00 to 17:00	<i>Sonjoy Majumder, IIT-Kharagpur (India)</i> (Transfer of orbital angular momentum from vortex light to Bose-Einstein Condensate)
17:00 to 18:00	<i>Utpal Roy, IIT Patna (India)</i> (Spatial Interference in Bose-Einstein Condensate under Toroidal Trap)
18:00 to 19:00	<i>Mukunda P. Das, ANU College of Science (Australia)</i> (Lecture 2: Ideal and Imperfect Bose Fluids without and with Confinements)

**End of the workshop**

**19:30 Onwards : Workshop Dinner (Venue: Bhagirathi Guest House Canteen)**