

# OIST Mini-Symposium

## Small and Medium Sized Cold Atom Systems

### Tuesday 18<sup>th</sup> July 2017

08:45 - 09:00 Opening

09:00 - 10:00 **Doerte Blume (Washington State)**

*Building systems one atom at a time: A theoretical perspective*

10:00 - 11:00 **Selim Jochim (Heidelberg)**

*Observing strong correlations in few-body systems*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Anna Sanpera (UA Barcelona)**

*Understanding frustrated systems in small atomic system*

12:30 - 14:00 Discussion and Lunch

14:00 - 15:00 **Takashi Mukaiyama (UEC Tokyo)**

*Collisional properties in an ultracold atom-ion hybrid system*

15:00 - 15:15 Tea Break

15:15 - 16:15 **Klaus Sengstock (Hamburg)**

*TBA*

16:15 - 16:30 Tea Break

16:30 - 17:30 **Albert Benseny (OIST)**

*Transport and particle separation in interacting quantum systems*

19:00 - Working Dinner

### Wednesday 19<sup>th</sup> July 2017

09:00 - 10:00 **Hanns-Christoph Nägerl (Innsbruck)**

*TBA*

10:00 - 11:00 **Nikolaj Zinner (Aarhus)**

*Dynamics of strongly interacting few-body systems in 1D*

11:00 - 11:30 Coffee Break

11:30 - 12:30 **Toshiya Kinoshita (Kyoto)**

*Bose gases in 2D Anti-dot Optical lattices*

## **Wednesday 19<sup>th</sup> July 2017**

12:30 - 14:30 Discussion and Lunch

**14:30 - 15:30 Marcos Rigol (Penn State)**

*Multiband effects and the Bose-Hubbard model in one-dimensional lattices*

15:30 - 16:00 Tea Break

16:00 - 18:00 Lab Visits @ OIST

19:00 - Working Dinner

## **Thursday 20<sup>th</sup> July 2017**

**09:00 - 10:00 Jakob Bengtsson (Lund)**

*Quantum heat engines with interacting particles*

**10:00 - 11:00 Thomas Fogarty (OIST)**

*Correlated non-equilibrium systems*

11:00 - 11:30 Coffee Break

11:30 - 12:30 Discussion Time: Future of the area/meeting

12:30 - 14:30 Discussion and Lunch

14:30 - Short Excursion

19:00 - Working Dinner