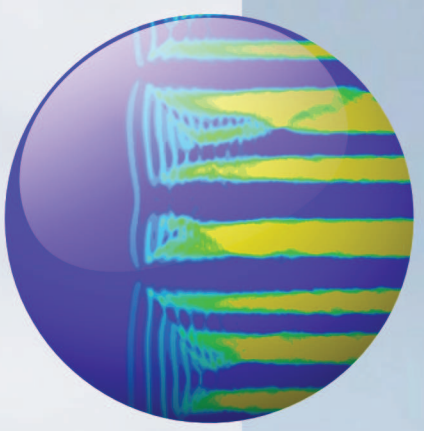
Finite-Temperature Non-Equilibruim Superfluid Systems

Sopot, Poland,
September 14th-18th 2015

FINESS-2015

SPEAKERS:

Brian Anderson* (University of Arizona)
Vanderlei Bagnato (Universidade de São Paulo)
Natalia Berloff (University of Cambridge / Skoltech)
Blair Blakie (University of Otago)
Ashton Bradley* (University of Otago)
Iacopo Carusotto (Università di Trento)
Cheng Chin (University of Chicago)
Andrew Daley (University of Strachclyde)
Bogdan Damski (Jagiellonian University)
Jacek Dziarmaga (Jagiellonian University)
Matthew Davis (University of Queensland)
Peter Drummond (Swinburne University of Technology)
Gabriele Ferrari (University of Trento)
Michael Fleischhauer* (Kaiserslautern University of Technology)
Simon Fölling (Max-Planck-Institut für Quantenoptik)
Simon Gardiner (University of Durham)
Thomas Gasenzer* (Heidelberg University)
Walter Hofstetter (Goethe University Frankfurt)
Corinna Kollath (Universität Bonn)
Michał Matuszewski (IFPAN, Polish Academy of Sciences)
Nikolaos Proukakis (University of Newcastle)
Luis Santos* (University of Hannover, Germany)
Ulrich Schneider* (Ludwig-Maximilians-Universität München)
Alice Sinatra (ENS)
David Snoke (University of Pittsburgh)
Marzena Szymańska (University College London)
Emilia Witkowska (IFPAN, Polish Academy of Sciences)
Wojciech Żurek* (Los Alamos National Laboratory)

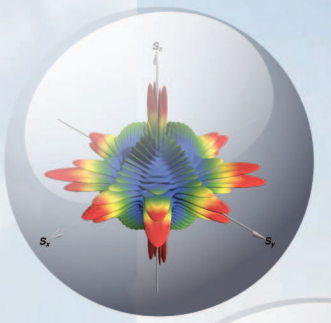


Scientific Advisory Committee

Andrew Daley (University of Strathclyde, Glasgow)
Nick Proukakis (University of Newcastle)
Immanuel Bloch (Max-Planck-Institut für Quantenoptik)
Simon Gardiner (University of Durham)
Marzena Szymanska (Universty College London)
Thomas Gasenzer (Heidelberg University)
Kazimierz Rzążewski (CFT PAN, Polish Academy of Sciences)
Ashton Bradley (University of Otago)
Mariusz Gajda (IF PAN)
Michael Fleischhauer (Kaiserslautern University of Technology)
Luis Santos (University of Hannover)

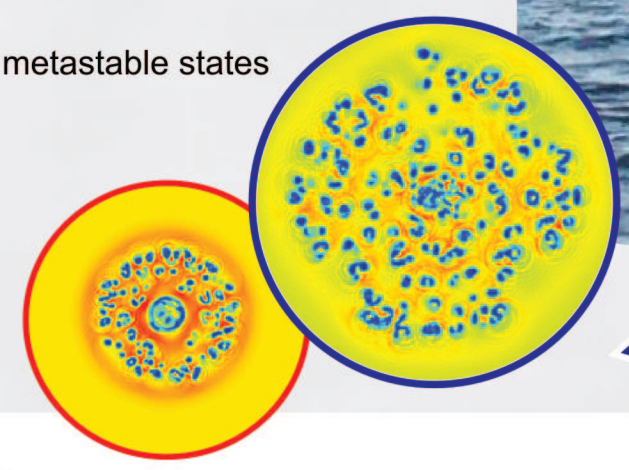
Local Organizer and Chair

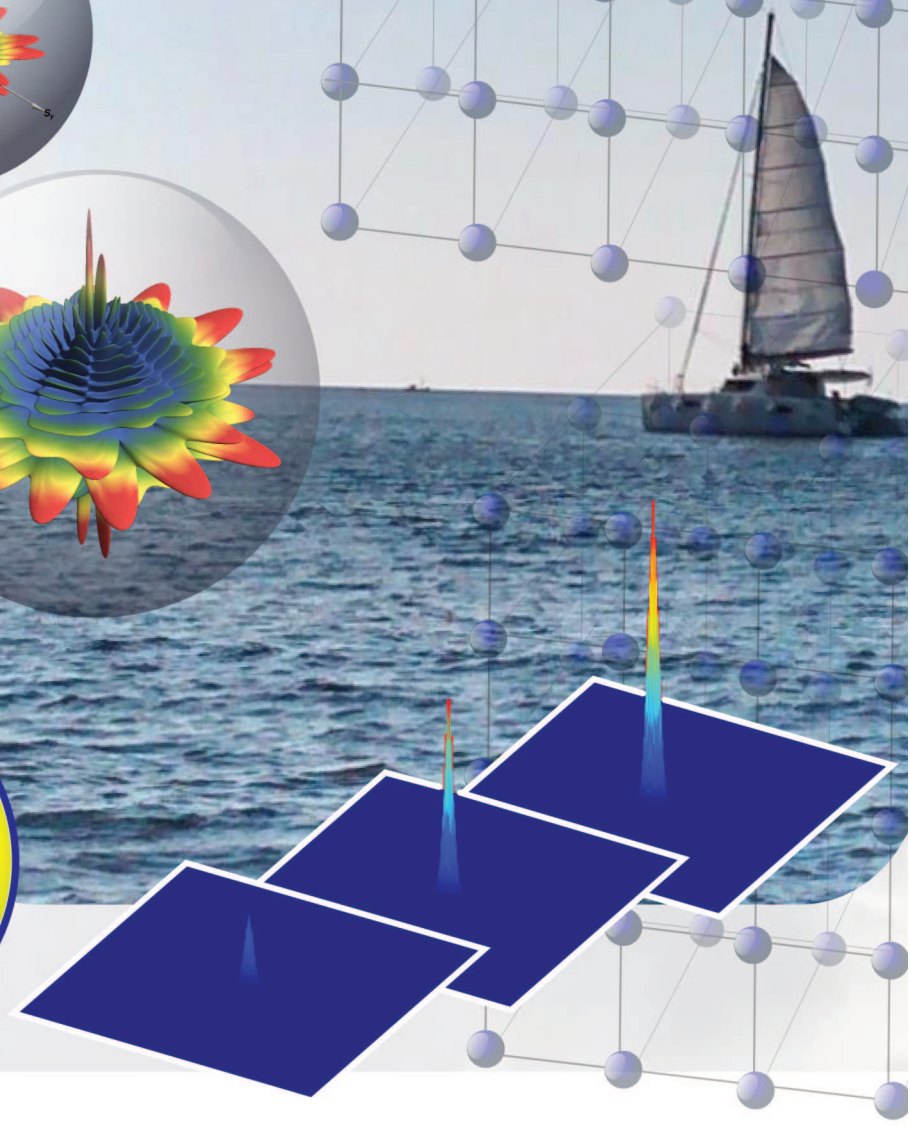
Piotr Deuar (IF PAN)



TOPICS:

Ultracold quantum gases
Polariton condensates
Methods for simulating the quantum dynamics of many-body systems
Defect formation, dynamics, Kibble-Zurek mechanism
Vortices, solitons, solitonic vortices
Thermalisation and prethermalisation
Non-thermal fixed points and highly excited metastable states
Quantum turbulence
Quantum quenches and phase transitions
Quantum transport and hydrodynamics
Dynamics of open quantum systems





http://finess.ifpan.edu.pl/
e-mail: finess@ifpan.edu.pl