

QUASIMODO

4-6 June, 2026 | Vilnius, Lithuania

Senate Hall, Old Campus of Vilnius University, Universiteto street 3, Vilnius



PROGRAM

DAY 1 | Thursday, 4 June

08:30 – 08:45 REGISTRATION

08:50 – 09:00 OPENING REMARKS

09:00 – 10:30 **SESSION 1**
Chair: **Gediminas Juzeliūnas (Vilnius University)**

09:00 – 09:30 [The Rayleigh-Taylor instability in a binary quantum fluid](#)
Ian B. Spielman
University of Maryland and NIST



09:30 – 10:00 [Parity anomaly in a synthetic quantum Hall system of ultracold dysprosium atoms](#)
Sylvain Nascimbene
Laboratoire Kastler Brossel - ENS Paris



10:00 – 10:30 **Ultracold Bosons in frustrated optical lattices**
Ulrich Schneider
University of Cambridge



10:30 – 11:00 **COFFEE BREAK**

11:00 – 12:30 **SESSION 2**
Chair: **Egidijus Anisimovas (Vilnius University)**

11:00 – 11:30 [Photonic time crystals in Bose-Einstein condensates](#)
Krzysztof Sacha
Jagiellonian University



11:30 – 12:00 [Multicomponent Ultracold Atoms and Spin Squeezing](#)
Emilia Witkowska
Institute of Physics, Polish Academy of Sciences



12:00 – 12:30 [Unconventional topological phases in some lattices](#)

Hrvoje Buljan
University of Zagreb



12:30 – 14:00 **LUNCH**

14:00 – 15:30 **SESSION 3**

Chair: **Jakub Zakrzewski (Jagiellonian University)**

14:00 – 14:30 [Exotic quantum statistics](#) in strongly interacting 1D
Bose Gases

Hanns-Christoph Nägerl
University of Innsbruck



14:30 – 15:00 [Quantized soliton pumping](#) through topological edge
state instabilities

Oded Zilberberg
University of Konstanz



15:00 – 15:30 [Bose-Fermi droplets at nonzero temperature](#)

Mariusz Gajda
Institute of Physics, Polish Academy of Sciences



15:30 – 17:15 **COFFEE BREAK & [POSTER SESSION](#)**

18:05 **Departure for CONFERENCE DINNER
at Belmontas**

DAY 2 | Friday, 5 June

08:55 – 09:00 CONFERENCE INFORMATION

09:00 – 10:30 **SESSION 4**

Chair: **Mažena Mackoit-Sinkevičienė (Vilnius University)**

09:00 – 09:30 [Beyond Topological Insulators in Dipolar t-J Models](#)



Luca Barbiero
Politecnico di Torino



09:30 – 10:00 [From supersolids to anyons in bosonic mixtures](#) with
Raman couplings

Alessio Celi
Autonomous University of Barcelona







10:00 – 10:30 [Lee-Huang-Yang physics without a Lee-Huang-Yang term](#)
Piotr Deuar
Institute of Physics, Polish Academy of Sciences  

10:30 – 11:00 COFFEE BREAK

11:00 – 12:30 SESSION 5
Chair: **Oded Zilberberg (University of Konstanz)**



11:00 – 11:30 [Bridging analog simulation and digital computation in dynamic optical lattices](#)
Konrad Viebahn
ETH Zürich  

11:30 – 12:00 [Exploring supersolid dynamics with spin-orbit-coupled quantum gases](#)
Sarah Hirthe
ICFO The Institute of Photonic Sciences  

12:00 – 12:30 [Multicomponent Ultracold Atoms in Non-Abelian Gauge Fields](#)
David Wilkowski
Nanyang Technological University, CNRS  

12:30 – 14:00 LUNCH

14:00 – 15:00 SESSION 6
Chair: **Sarah Hirthe (ICFO)**

14:00 – 14:30 [Spinor bosons in an optical cavity](#)
Jakub Zakrzewski
Jagiellonian University  

14:30 – 15:00 [Chiral dynamics of interacting bosons in flux-frustrated lattices](#)
Marco Di Liberto
University of Padua

15:00 – 15:30 COFFEE BREAK

15:30 – 16:50

SESSION 7

Chair: **Emilia Witkowska (IF PAN)**

15:30 – 16:00

Simulating cavity QED with spin-orbit coupled Bose-Einstein condensates revisited

Karol Gietka

University of Innsbruck



16:00 – 16:30

Correlated impurities in ultracold gases: non-equilibrium dynamics and applications to thermometry

Thomás Fogarty

Okinawa Institute of Science and Technology OIST



16:30 – 16:50

Final remarks, discussions

17:00

Excursion to the Bell Tower of Church of St. Johns



DAY 3 | Saturday, 6 June

11:20

BUS DEPARTURE from the Car Parking of the Old Campus of Vilnius University

12:30 – 15:00

Boat trip “Noah’s Ark” with lunch in Trakai Lake



15:00 - 16:30

Sightseeing in Trakai

16:30

DEPARTURE to Vilnius

17:30

ARRIVAL at Vilnius



**Faculty of
Physics**



**Vilnius
University**

