

Nonequilibrium phenomena in superfluid systems

Location: CZIITT Bldg., 5th floor, room no. 5.02

Date: 2 - 4.03

Agenda:

Monday (2.03):

1.30pm - 4pm

Charge-dependent Energy Density Functionals (W. Satuła)

Many-body tunneling and instanton method (J. Skalski)

Neutron star glitches - introduction (B. Haskell)

Tuesday (3.03):

9am - 11am

Time crystals (K. Sacha),

Floquet engineering in optical lattices (E. Anisimovas),

Solitons (K. Sacha, P. Magierski, G. Wlazłowski)

11am - 1pm

Nuclear fission and pairing (A. Bulgac, K. Pomorski)

Nuclear collisions and pairing (P. Magierski, M. Barton)

2pm - 4pm

Neutron stars: filament model vs microscopic description

(B. Haskell, M. Antonelli, D. Pęczak, G. Wlazłowski)

Wednesday (4.03):

9am - 11am

Quantum vortices & Quantum turbulence (G. Wlazłowski, M.

Tylutki, K. Kobuszewski, P. Magierski)

11am - 1pm

Exotic superfluidity:

FFLO phase at lower dimensionality (T. Sowiński, D. Pęczak),

Shiba states and Majorana mutations (T. Domański),

Ferron - LO droplet (B. Tuzemen, P. Magierski)

2pm - 4pm

Beyond mean-field description of superfluid dynamics (A. Bulgac)

Organizers:

P. Magierski and G. Wlazłowski

Faculty of Physics (WUT)