



WORKSHOP

Dynamics and Thermodynamics of High-Pressure and Disordered Matter (TB60)

Lviv, 29 August 2023

(On-line and ICMP conference hall r. 307)

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|--------------------------------|--|
| 11:30-11:35
10:30-10:35 CET | Opening |
| 11:35-11:55
10:35-10:55 CET | A. Belonoshko (KTH, Stockholm, Sweden and Nanjing University, China)
Experimental evidence of the body-centered cubic iron phase stability under extreme conditions of pressure and temperature |
| 11:55-12:15
10:55-11:15 CET | C. Pierleoni (University of l'Aquila, Italy)
Bands gaps for crystalline molecular hydrogen in Phase I from Quantum Monte Carlo |
| 12:15-12:35
11:15-11:35 CET | A.P. Seitsonen (Ecole Normale Superieure, Paris, France)
Vibrational spectroscopies in liquid water: on temperature and coordination effects in Raman and Infra-Red spectroscopies |
| 12:35-12:55
11:35-11:55 CET | L.E. Gonzalez, D. J. Gonzalez (University of Valladolid, Spain)
Machine learning potentials for liquid metals: liquid La and Li4Pb |
| 12:55-13:15
11:55-12:15 CET | N. Jakse (University Grenoble Alps, Grenoble, France)
Dynamic heterogeneities and their link to structural properties in undercooled metallic melts |
| 13:15-13:35
12:15-12:35 CET | V. Pergamenschik (Institute of Theoretical Physics, Warsaw, Poland & Institute of Physics, Kyiv, Ukraine)
Incorporation of the intensive and extensive entropy contributions in the disk intersection theory of a hard disk system |
| 13:35-14:00
12:35-13:00 CET | Coffee break |

- 14:00-14:20
13:00-13:20 CET
- O. Bakai** (O. Akhiezer Institute for Theoretical Physics, NSC KIPT, Kharkiv, Ukraine)
Про інтерференцію перетворень газ – рідина та метал – не метал у ртуті
(On the interference of liquid-gas and metal-nonmetal transitions in mercury)
- 14:20-14:40
13:20-13:40 CET
- I. Myrglod** (Institute for Condensed Matter Physics, Lviv, Ukraine)
Ще раз про колективну поведінку в густих флюїдах і рідинах
(Once again about collective behavior in dense fluids and liquids)
- 14:40-15:00
13:40-14:00 CET
- O. Krivchikov** (B. Verkin Institute for Low Temperature Physics and Engineering, Kharkiv, Ukraine)
Hump universality and singularity in low-temperature heat capacity of crystalline and amorphous solids: Boson peak or van Hove signature
- 14:40-15:00
13:40-14:00 CET
- A. Trokhymchuk** (Institute for Condensed Matter Physics, Lviv, Ukraine)
Стосовно розуміння фазових перетворень у системах частинок із твердою серцевиною
(Towards understanding phase transitions in systems of hard-core particles)
- 15:00-16:00
14:00-15:00 CET
- Closing, Coffee break**
- 16:00
15:00 CET
- Informal discussion**