

MONDAY, 2 JUNE

8:00-10:00

REGISTRATION

10:00-10:15

OPENING OF THE CONFERENCE
Director of the B.Verkin ILTPE NASU
Academician of the National Academy of Sciences of Ukraine
Sergey Gnatchenko

*Conference
hall*

Plenary lectures of invited speakers

10:15-10:55

Anniversary ceremony: Conference for Young Scientist “Low Temperature Physics” from 1964 to 2014

10:55-11:35

A.A. Zvyagin

**NEW MANIFESTATIONS OF MAJORANA EDGE FERMIONS IN
QUANTUM CHAINS**

B.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine

11:35-11:50



Coffee Break

11:50-13:05

Electronic properties of conducting and superconducting systems

*Conference
hall*

13:05-14:00

Lunch

14:00-15:00

LAB TOUR

15:00-16:30

Electronic properties of conducting and superconducting systems (continue)

*Conference
hall*

16:30-17:30

POSTER SESSION – I

- **Electronic properties of conducting and superconducting systems**
 - **Low Temperature Magnetism, Spintronics**
 - **Low Temperature Materials Science**

TUESDAY, 3 JUNE

*Conference
hall*

Plenary lectures of invited speakers

10:00-10:40 S.V. Zherlitsyn
SPIN-LATTICE EFFECTS IN SELECTED MAGNETIC MATERIALS
*Dresden High Magnetic Field Laboratory (HLD), Helmholtz-Zentrum Dresden-Rossendorf,
Dresden D-01314, Germany*

10:40-11:20 S.I. Bondarenko
**THE 50TH ANNIVERSARY OF THE JOSEPHSON RADIATION
DETECTION**
B.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine

11:20-11:35



Coffee Break

11:35-13:05

Low Temperature Magnetism, Spintronics

*Conference
hall*

13:05-14:00

Lunch

*Conference
hall*

Plenary lectures of invited speakers

*Conference
hall*

14:00-14:40 I.V. Krive
**QUANTUM PHENOMENA IN CARBON NANOTUBES AND CARBON
PEAPODS**
B.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine

14:40-15:20 T. V. Chagovets^{1,2}
**VISUALIZATION OF HE II CO-FLOW AND COUNTERFLOW
AROUND CYLINDER**
¹*Institute of Physics ASCR, v. v. i., Na Slovance 1999/2, 182 21 Praha 8, Czech Republic*
²*National High Magnetic Field Laboratory, 1800 E. Paul Dirac Drive, Tallahassee, FL 32310-
3706*

15:20-16:50

Quantum Liquids and Quantum Crystal, Cryocrystals

*Conference
hall*

POSTER SECTION – II

16:50-18:00

- Quantum Liquids and Quantum Crystal, Cryocrystals
- Physics of Nanostructures and Low Dimensional Systems
- Optics and Spectroscopy, Photonics Optical Investigations at Low Temperatures
- Low Temperature Physics of Macromolecules, Biophysics.

WEDNESDAY, 4 JUNE

*Conference
hall*

Plenary lectures of invited speakers

10:00-10:40 Miguel A Ramos¹, T. Pérez-Castañeda¹, R. J. Jiménez-Riobóo², C. Rodríguez-Tinoco³, J. Rodríguez-Viejo³

LOW-TEMPERATURE SPECIFIC HEAT OF EXTREMELY STABILIZED GLASSES: DO TUNNELING STATES PERSIST OR DISAPPEAR?

¹ *Laboratorio de Bajas Temperaturas, Departamento de Física de la Materia Condensada, Condensed Matter Physics Center (IFIMAC) and Instituto Nicolás Cabrera, Universidad Autónoma de Madrid, E-28049 Madrid, Spain*

² *Instituto de Ciencia de Materiales de Madrid, Consejo Superior de Investigaciones Científicas (ICMM-CSIC), E-28049 Madrid, Spain*

³ *Nanomaterials and Microsystems Group, Physics Department, and MATGAS Research Centre, Universitat Autònoma de Barcelona, E-08193 Bellaterra, Barcelona, Spain*

10:40-11:20 Alexander I. Krivchikov

HEAT TRANSFER IN SIMPLE MOLECULAR SOLIDS WITH DIFFERENT TYPES OF DISORDER

B. Verkin Institute for Low Temperature Physics and Engineering of NAS of Ukraine, Kharkiv, Ukraine

11:20-11:35



Coffee Break

11:35-12:35

Physics of Nanostructures and Low Dimensional Systems

*Conference
hall*

12:35-13:35

Lunch

13:35-15:00

LAB TOUR

15:00-16:30


Physics of Nanostructures and Low Dimensional Systems (continue)

*Conference
hall*

17:30-20:00

WELCOME PARTY

THURSDAY, 5 JUNE

<i>Conference hall</i>	Plenary lectures of invited speakers	
10:00-10:40	S.V. Malykhin ¹ , V.A. Makhraj ² THE EVOLUTION OF THE STRESS STATE AND TUNGSTEN STRUCTURE IN A THERMONUCLEAR REACTOR ¹ National Technical University «Kharkiv Polytechnic Institute», Kharkiv, Ukraine ² National Science Center, “Kharkiv Institute of Physics and Technology” (NSC KIPT), Kharkiv, Ukraine	
10:40-11:20	Elena. Tabachnikova CHANGES OF THE STRUCTURE AND THE MECHANICAL PROPERTIES OF TITANIUM IN THE TRANSITION TO NANOSTRUCTURED STATE BY DIFFERENT METHODS OF SEVERE PLASTIC DEFORMATION ¹ B.Verkin Institute for Low Temperature Physics and Engineering of NAS of Ukraine, Kharkov, Ukraine	
11:20-11:35	 Coffee Break	
11:35-12:35	Low Temperature Materials Science	<i>Conference hall</i>
12:35-13:35	Lunch	
13:35-15:00	LAB TOUR	
15:00-16:00	Low Temperature Materials Science (continue)	<i>Conference hall</i>
16:00-17:00	Young Scientists Workshop in Round table format	<i>Helium hall</i>
Chair	<i>Mariia Pashchenko</i>	
16:00-16:15	Mariia Pashchenko INTRODUCTION: OSA & SPIE PRESENTATION <i>B.Verkin Institute for Low Temperature Physics and Engineering, Kharkov, Ukraine</i>	
16:15-16:30	Tymofiy Chagovets RESEARCH EXPERIENCES IN HIGH MAGNETIC FIELD LABORATORY <i>Institute of Physics, Prague, Czech Republic</i>	
16:30-16:45	Dmytro Kamenskyi “BIG FACILITIES” PROGRAMME AT RADBOUD UNIVERSITY (NIJMEGEN): NARROW-BAND THZ FREE-ELECTRON LASER (FELIX) COMBINED WITH HIGH FIELD MAGNET LABORATORY (HFML) <i>Radboud University, Nijmegen, Netherlands</i>	


FRIDAY, 6 JUNE

*Conference
hall*

Plenary lectures of invited speakers

10:00-10:40 Svetlana Yefimova
**LAMBDA-RATIOMETRIC FLUORESCENCE DETECTION AS AN
EFFECTIVE TOOL TO STUDY NANOCARRIERS INTERACTIONS
WITH LIVING CELLS IN DYNAMICS**
Institute for Scintillation Materials NAS of Ukraine, Kharkov, Ukraine

10:40-11:00

 **Coffee Break**

11:00-12:30

**Optics and Spectroscopy, Photonics
Optical Investigations at Low Temperatures**

*Conference
hall*

11:00-13:00

Low Temperature Physics of Macromolecules, Biophysics. (Parallel session)

*Helium
hall*

13:30-14:00

Closing

14:00-15:00

Lunch

15:00

Concert of Classical Music