

PROGRAM**May 21, Tuesday**

8:45	Workshop opening	
9:00-10:30	Session 1: Iron based superconductors I	<i>Chair: A. Kordyuk</i>
9:00	Mikhail Sadovskii Electronic structure of iron based superconductors: pnictides versus chalcogenides and similar new systems	
9:30	Igor Mazin Novel FeSe-based superconductors: where we are and what is to be expected	
10:00	Gennadiy Grechnev Electronic structure and magnetic properties of LaFeAsO- and FeSe-based superconductors	
10:30	Coffee break	
11:00-12:30	Session 2: Extreme ARPES I	<i>Chair: M. Golden</i>
11:00	Charles Fadley Hard X-ray photoemission with angular resolution and standing-wave excitation	
11:30	Dawei Shen Probing electronic structure in novel engineered quantum states of matter — in-situ ARPES studies of epitaxial 4d and 5d-electron oxides thin films	
12:00	Volodymyr Zabolotnyy Ultra-low temperature ARPES on strontium ruthenates	
12:30	Lunch	
14:00-15:30	Session 3: Iron based superconductors II	<i>Chair: M. Sadovskii</i>
14:00	Karina Lamonova Electronic structure and peculiarities of the single-ion magnetic anisotropy of rare-earth ions in the iron oxypnictides RFeAsO (R = Ce, Pr, Nd, Sm, Gd)	
14:30	Maxim Korshunov Spin-orbit coupling in Fe-based superconductors	
15:00	Yuriy Pogorelov Impurity effects in ferropnictide superconductors: localization vs banding	
15:30	Coffee break	
16:00-17:30	Session 4: Good evening mix	<i>Chair: I. Mazin</i>
16:00	Yuri Kucherenko The dual nature of 4f electrons in rare-earth intermetallics: ARPES view	
16:30	Roman Kuzian Mechanism of temperature dependence of RIXS spectra in charge transfer insulators	
17:00	Alexander Gabovich Stationary Josephson effect as a tool to reveal charge-density-wave gapping in cuprates	
17:30	Supper	

18:30-20:00 Poster session

- P01 **Igor Nekrasov**
LDA'+DMFT scheme: A way to treat the double counting problem
- P02 **Anastasiya Lyogenkaya**
Electronic structure and magnetic properties of FeGe₂
- P03 **Janek Maletz**
Unusual band renormalization in the simplest iron based superconductor
- P04 **Eugene Kushnirenko**
ARPES spectrum asymmetry as a hallmark of low energy renormalization in superconducting cuprates
- P05 **Michael Prokopovych**
Observation of birth of "ageing" effect in Bi₂Se₃ photoemission spectra
- P05 **Bohdan Ilkiv**
Electronic structure of hollow graphitic nanoparticles
- P07 **Oleg Khyzhun**
X-ray spectroscopy study of the electronic structure peculiarities of silicon nitride nanofibers
- P08 **Oleg Khyzhun**
Electronic structure of ZrTiO₄, HfTiO₄, FeTiO₃ and MgTiO₃ titanates: Theoretical calculations and x-ray spectroscopy studies
- P09 **Andrei Baranovskiy**
Electronic structure and exchange interaction in GdB₄ compound
- P10 **Oleg Feya**
First principles calculations of atomic structure and physical properties of calcium apatites
- P11 **Lev Bekenov**
X-ray magnetic dichroism in the (Zn,Co)O diluted magnetic semiconductors from *ab initio* calculations
- P12 **Inna Plyushchay**
First-principles calculations of dislocation-oxygen impurity magnetic interaction in silicon
- P13 **Nataly Kurgan**
Isomorphic substitutions in the tetrahedral position of apatites and their influence on physicochemical properties
- P14 **Svetlana Smolyak**
Electronic structure peculiarities of disordered diphosphates of Mn and Co
- P15 **Volodymyr Vishniak**
Monatomic thickness Ag nanostructures on Si (111) surface
- P16 **Taras Radchenko**
Influence of correlation of impurities on conductivity in graphene
- P17 **Mykola Fedorchenko**
Gd and O depositions on Si(113)
- P18 **Sebastian Döring**
Resonant tunneling in novel type Josephson heterostructures superconductor-doped semiconductor-superconductor

May 22, Wednesday**9:00-10:30 Session 5: ARPES of topological insulators** *Chair: E. Krasovskii*

- 9:00 **Mark Golden**
ARPES investigations of bulk-insulating topological insulators
- 9:30 **Tonica Valla**
Probing the Dirac electrons in condensed matter: Graphene and topological insulators
- 10:00 **Matti Lindroos**
Dichromatic signal excited by circular polarized light surface state

10:30 Coffee break

11:00-12:30 Session 6: Surface/spin sensitive ARPES *Chair: K. Rossnagel*

- 11:00 **Marco Bianchi**
Tailoring the electronic texture of a topological insulator via its surface orientation
- 11:30 **Akio Kimura**
Probing spin textures of topological insulators by spin- and angle-resolved photoemission
- 12:00 **Eugene Krasovskii**
Spin structure of non-magnetic surfaces by angle resolved photoemission

12:30 Lunch

14:00-15:30 Session 7: Extreme ARPES II *Chair: C. Fadley*

- 14:00 **Enrique Ortega**
Tailoring surface and thin film electronic states with curved surfaces
- 14:30 **Vladimir Strocov**
 k -resolved electronic structure by soft-X-ray ARPES: From three-dimensional systems to buried hetero-structures
- 15:00 **Sergey Nikolaev**
The electronic structure within the norm-conserving cluster perturbation theory

15:30 Coffee break

16:00-17:30 Session 8: Electronic structure of novel compounds I *Chair: M. Lindroos*

- 16:00 **Sergey Ovchinnikov**
Temperature and magnetic field dependent LDA+GTB band structure of LaCoO_3
- 16:30 **Alexander Yaresko**
Unusual magnetic properties of layered MCrS_2 compounds
- 17:00 **Igor Nekrasov**
LDA'+DMFT scheme: A way to treat the double counting problem

17:30 Supper

18:30-20:00 Round table

- 18:30 **Alexander Kordyuk**
Complex electronic structure of iron-based superconductors as a key to high temperature superconductivity

May 23, Thursday**9:00-10:30 Session 9: ARPES on layered compounds** *Chair: V. Strocov*

9:00 **Kai Rossnagel**
ARPES on layered compounds: From millielectron volts to femtoseconds

9:30 **Claude Monney**
Charge density wave phase in TiSe_2 : ARPES and excitonic insulator phase model

10:00 **Daniil Evtushinsky**
ARPES on iron-based superconductors: leading role of $3d_{xz, yz}$ orbitals

10:30 Coffee break

11:00-12:30 Session 10: Electronic structure of novel compounds II *Chair: S. Ovchinnikov*

11:00 **Oleg Khyzhun**
Electronic structure of the orthorhombic and tetragonal phases of Tl_3PbBr_5

11:30 **Sergey Sichkar**
Phonon spectra and electron-phonon interaction in HfB_2

12:00 **Closing remarks**

12:30 Lunch and Excursion

18:30 Conference dinner