

UKRAPRO WORKSHOP



WEDNESDAY

1 JUNE
2022

IFW DRESDEN | 01.00 PM
Helmholtzstraße 20, 01069 Dresden

REGISTRATION by MAY 27:

ukrapro-workshop@ifw-dresden.de

ORGANIZERS: Y. Grin (MPI-CPfS), D. Makarov (HZDR),
B. Büchner (IFW Dresden), J. van den Brink (IFW Dresden)

PROGRAM

SESSION 1 : INTRODUCTION OF PROGRAMS AND UKRAINIAN SCIENTISTS IN DRESDEN

Presentation of UKRAPRO Program *J. van den Brink, IFW Dresden*

Presentation of Max Planck Programs for Ukrainian Scientists *Y. Grin, MPI-CPfS*

Directions of research activity of the V. Bakul Institute for Superhard Materials of the National Academy of Sciences of Ukraine
T. Prikhna, V. Bakul Institute for Superhard Materials (Kyiv) and IFW Dresden

About the G. V. Kurdyumov Institute for Metal Physics of the National Academy of Sciences of Ukraine *I. Galstian, G. V. Kurdyumov Institute for Metal Physics (Kyiv) and IFW Dresden*

B. Verkin Institute for Low Temperature Physics and Engineering of the National Academy of Sciences of Ukraine *O. Kvitnitskaya, B. Verkin Institute for Low Temperature Physics & Engineering (Kyiv) and IFW Dresden*

National Technical University „Kharkiv Polytechnic Institute“ *V. Shtefan, Kharkiv Polytechnic Institute (Kharkiv) and IFW Dresden*

Welcome to the Institute for Scintillation Materials of the National Academy of Sciences of Ukraine *K. Hubenko, Institute for Scintillation Materials (Kharkiv) and IFW Dresden*

SESSION 2: CONDENSED MATTER PHYSICS AND MATERIALS SCIENCE ASSISTED BY MACHINE LEARNING: POTENTIAL, RESULTS AND CHALLENGES

Metal additive manufacturing meets machine learning *K. Kosiba, IFW Dresden*

Topological solitons in curvilinear nanomagnets *K. Yershov, IFW Dresden*

Reinforcement Learning for Quantum Control *M. Bukov, MPI-PKS*

Transmission electron microscopy on magnetic textures *A. Lubk, IFW Dresden*

Domain walls in Cr₂O₃ *O. Pylypovskyi, HZDR*

Recognition of electronic band structure and underlying physics in ARPES spectra *S. Borisenko, IFW Dresden / A. Kordyuk, G. V. Kurdyumov Institute for Metal Physics (Kyiv) and IFW Dresden*

Spin models of undoped cuprates: can machine learning replace tedious calculations? *O. Janson, IFW Dresden*

SESSION 3: POSTER SESSION WITH SNACKS



MAX PLANCK INSTITUTE
FOR CHEMICAL PHYSICS OF SOLIDS

