



# India-JINR workshop on elementary particle and nuclear physics, and condensed matter research

## Monday, 16 October 2023

### Section 4: Condensed matter physics / materials science (14:30 - 16:10)

-Conveners: Yuri Kopatch

time	[id] title	presenter
14:30	[79] Spin Reorientation and Rare-earth ordering in Rare-earth Orthoferrites and Orthochromites	MALIK, Vivek K.
14:50	[107] Performing Molecular Dynamics Studies of Nanosized Systems Combined with Neutron Scattering Experiments	KHOLMURODOV, Kholmirzo
15:10	[32] Small-angle scattering investigations of ferrofluids with anisometric nanoparticles	BALASOIU, M
15:30	[40] A proposal to realizing Majorana Fermions in strongly correlated nanowire without magnetic fields	KESHARPU, Kaushal Kumar
15:50	[16] Microstructure modification of the Prussian White cathode material and its effect on the electrochemical performance of sodium-ion batteries	DONETS, Marina

## Tuesday, 17 October 2023

### Section 4: Condensed matter physics / materials science (14:30 - 16:20)

-Conveners: Wael Badawy

time	[id] title	presenter
14:30	[19] Atmospheric Deposition of Trace Elements and Radionuclides in Europe, Asia and the Pacific Region Based on Moss Analysis	FRONTASYEVA, Marina
15:00	[20] Determination of Elemental Profile of Tobacco Plant and Soil using Neutron Activation Analysis	KHAWLHRING, Lalrammawia
15:20	[10] Assessment of the elemental composition of areca nut and soil samples collected in Northeast India	ZINICOVSCAIA, Inga
15:40	[7] Natural and anthropogenic radionuclides concentration with heavy metals analysis of the sediments collected around Novaya Zemlya	JAKHU, Rajan
16:00	[114] JINR-India collaborative investigations of Josephson nanostructures	KULIKOV, Kirill

# Wednesday, 18 October 2023

## Section 4: Condensed matter physics / materials science (14:30 - 16:20)

-Conveners: Mikhail Avdeev

time	[id] title	presenter
14:30	[27] Characterization of Tobacco stalk Ash	R BOSE, Muthukumaran
14:50	[31] Complex molecular interactions involved in binding of fragmented nucleic acid molecules on magnetic nanoparticles for next generation sequencing applications	BHATI, Aniruddha
15:10	[108] Morphological reorganization of lipid membranes induced by amyloid-beta peptides	KURAKIN, Sergei
15:30	[4] Unravelling self-assembly of hemoglobin in a lipid environment	GHOSH MOULICK, Ranjita
15:50	[35] Study Of Uranium Toxicity In Humans Due To Protracted Ingestion Of Groundwater In Bathinda District Of Punjab, India	., Abhishek