

**Programme Advisory Committee for Condensed Matter Physics
56th meeting, 17–18 January 2023**

DRAFT PROGRAMME

<http://indico.jinr.ru>

Tuesday, 17 January 2023

10:00 MSK	1. Opening of the meeting	D. L. Nagy (10 min.)
	2. Implementation of the recommendations of the 55th PAC meeting	D. L. Nagy (15 min.)
	3. Information on the Resolution of the 132nd session of the JINR Scientific Council (September 2022) and on the decisions of the Committee of Plenipotentiaries of the Governments of the JINR Member States (November 2022)	L. Kostov (30 min.)
	4. Status of the IBR-2 reactor in the framework of the new Seven-Year Plan for the Development of JINR	V. Shvetsov (30+5 min.)
	5. Tasks and prospects for the operation of the IBR-2 reactor	A. Dolgikh (20+5 min.)
	<i>Coffee break (15 min.)</i>	
	6. Reports on the themes to be included in the Topical Plan for JINR Research and International Cooperation for 2024	
	6.1. Theme “Investigations of Functional Materials and Nanosystems Using Neutron Scattering”: main activities and projects in the framework of the Seven-Year Plan for the Development of JINR for 2024–2030	D. Kozlenko (20+5 min.)
	6.2. Theme “Scientific and Methodological Research and Developments for Condensed Matter Investigations with IBR-2 Neutron Beams”	V. Bodnarchuk (20+5 min.)
	6.3. Theme “Optical Methods in Condensed Matter Studies”: current activities and the concept of further development	G. Arzumanyan (20+5 min.)
	<i>Lunch break</i>	
15:00	6.4. Theme “The New Neutron Source at FLNP JINR”: current status and plans for 2024–2030	M. Bulavin (20+5 min.)
	6.5. Status and prospects of the MLIT scientific programme	O. Derenovskaya (20+5 min.)

6.6. Theme "Theory of Complex Systems and Advanced Materials" E. Anitas (20+5 min.)

Coffee break (15 min.)

6.7. Status and prospects of the DLNP scientific programme V. Glagolev (20+5 min.)

6.8. Theme "Research on the Biological Effects of Ionizing Radiation with Different Physical Characteristics" A. Bugay (20+5min.)

6.9. Theme "Radiation Materials Science, Nanotechnological and Biomedical Investigations Using Beams of Accelerated Heavy Ions" P. Apel (20+5min.)

7. General discussion (1 h.)

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MSK

8. Meeting of the PAC members with the JINR Directorate (1 h.)

9. Scientific Report "Diagnostics of socially significant diseases using affine track membranes modified with DNA aptamers" E. Zavyalova (20+5 min.)

10. Poster presentations by young scientists (1 h. 30 min.)

11. Voting for and selection of the best poster presentations (15 min.)

Coffee break (20 min.)

Closed session

13:30 12. Preparation of the PAC recommendations including proposals for the next PAC meeting (30 min.)

13. Closing of the meeting