

# **51st meeting of the PAC for Condensed Matter Physics**

## **Report of Contributions**

Contribution ID: 0

Type: **not specified**

## 1. Opening of the meeting

*Monday, 20 January 2020 10:00 (10 minutes)*

**Presenter:** NAGY, D. L.

Contribution ID: 1

Type: **not specified**

## **2. Implementation of the recommendations of the previous PAC meeting**

*Monday, 20 January 2020 10:10 (20 minutes)*

**Presenter:** NAGY, D. L.

Contribution ID: 2

Type: **not specified**

### **3. Information on the Resolution of the 126th session of the JINR Scientific Council (September 2019) and on the decisions of the JINR Committee of Plenipotentiaries (November 2019)**

*Monday, 20 January 2020 10:30 (20 minutes)*

**Presenter:** SHARKOV, B.

Contribution ID: 3

Type: **not specified**

## **4. Progress report on developing a concept for a new neutron source at FLNP**

*Monday, 20 January 2020 10:50 (25 minutes)*

**Presenter:** SHVETSOV, V.

Contribution ID: 4

Type: **not specified**

## **5. Main results of the instrumentation development and scientific research in the field of condensed matter physics at the IBR-2 reactor in 2019**

*Monday, 20 January 2020 11:15 (25 minutes)*

**Presenter:** KOZLENKO, D.

Contribution ID: 5

Type: **not specified**

## **6. Information about the FLNP User Programme**

*Monday, 20 January 2020 12:00 (20 minutes)*

**Presenter:** CHUDOBA, D.

Contribution ID: 7

Type: **not specified**

## **7. New inelastic neutron scattering spectrometer at the IBR-2 reactor: the status and the prospects of the project**

*Monday, 20 January 2020 12:20 (25 minutes)*

### **Summary**

**Presenters:** ZAJĄC, W.; CHUDOBA, D.



Contribution ID: 8

Type: **not specified**

## **8. Development of the neutron radiography and tomography instrument at the WWR-K reactor (INP, Almaty, Kazakhstan)**

*Monday, 20 January 2020 14:30 (25 minutes)*

**Presenter:** NAZAROV, K.

Contribution ID: 9

Type: **not specified**

**9. Report on the completed project "Development of an open information and educational environment to support research priorities in materials science and structure of matter" and proposal for opening a new project: "Open information and educational environment for supporting fundamental and applied multidisciplinary research at JINR"**

*Monday, 20 January 2020 14:55 (25 minutes)*

Referees: L. Avramov, O. Culicov, Yu. Kryukov 10'

**Presenter:** PANEBRATTSEV, Yu.

Contribution ID: **10**

Type: **not specified**

## **10. Scientific reports:**

*Monday, 20 January 2020 15:50 (1h 15m)*

Contribution ID: 11

Type: **not specified**

## **10.1. "Microscopic mechanism of the spontaneous polarization in strontium hexaferrites"**

*Monday, 20 January 2020 15:50 (15 minutes)*

**Presenter:** TURCHENKO, V.

Contribution ID: 12

Type: **not specified**

## **10.2. "Ultrasensitive detection of analyte molecules at attomolar concentration by Raman spectroscopy"**

*Monday, 20 January 2020 16:05 (15 minutes)*

**Presenter:** ARZUMANYAN, G.

Contribution ID: 13

Type: **not specified**

## **10.3. "Superconductor spintronics based on Josephson nanostructures"**

*Monday, 20 January 2020 16:20 (15 minutes)*

**Presenter:** SHUKRINOV, Yu.

Contribution ID: 14

Type: **not specified**

## **10.4. "TEM examination of the ceramics irradiated with heavy ions of fission fragment energies"**

*Monday, 20 January 2020 16:35 (15 minutes)*

**Presenter:** SKURATOV, V.

Contribution ID: 15

Type: **not specified**

## **10.5. "Structural modification of carbon materials by swift heavy ions"**

*Monday, 20 January 2020 16:50 (15 minutes)*

**Presenter:** OLEJNICZAK, A.



Contribution ID: 17

Type: **not specified**

## **11. Information about the International Conference "Radiobiological Basis of Radiation Therapy" (17–18 October 2019, Dubna)**

*Monday, 20 January 2020 17:05 (15 minutes)*

**Presenter:** KOSHLAN, I.

Contribution ID: **18**

Type: **not specified**

## **12. Meeting of the PAC members with the JINR Directorate (closed discussion)**

*Tuesday, 21 January 2020 10:00 (1 hour)*

Contribution ID: **19**

Type: **not specified**

## **13. Poster presentations by young scientists**

*Tuesday, 21 January 2020 11:00 (50 minutes)*

Contribution ID: 20

Type: **not specified**

## **14. Selection of the best poster presentations**

*Tuesday, 21 January 2020 11:50 (10 minutes)*

Contribution ID: 21

Type: **not specified**

## **15. Awarding the authors of the best poster presentations made at the previous PAC meeting**

*Tuesday, 21 January 2020 12:00 (5 minutes)*

Contribution ID: 22

Type: **not specified**

## 16. General discussion

*Tuesday, 21 January 2020 12:05 (20 minutes)*

Contribution ID: 24

Type: **not specified**

## **18. Adoption of the PAC recommendations**

*Tuesday, 21 January 2020 12:50 (30 minutes)*

Contribution ID: 25

Type: **not specified**

## **19. Closing of the meeting**

*Tuesday, 21 January 2020 13:20 (10 minutes)*



Contribution ID: 28

Type: **not specified**

## **17. Proposals for the agenda of the next PAC meeting**

*Tuesday, 21 January 2020 12:30 (20 minutes)*