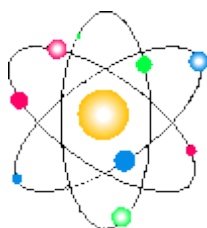


Session Program

27 August 2023 to 3 September 2023



The XV-th International School-Conference "The Actual Problems of Microworld Physics"

Applied physics

Minsk, Sanatorium "Westa"
The sanatorium is located 30 km from Minsk along the E30 highway.

Tuesday 29 August

14:00

Applied physics: Applied research at NICA

Session | **Location:** Minsk, Sanatorium "Westa", The sanatorium is located 30 km from Minsk along the E30 highway. | **Convener:** Nikolai Russakovich

14:00–14:45

ARIADNA research programme at NICA: new gates for cooperation in materials sciences, life sciences and nuclear physics technologies

Speaker

Oleg Belov

14:45–15:15

Ленты ВТСП для миниускорителей частиц: увеличение силы пининга и сверхпроводящих критических параметров облучением протонами

Speaker

Alexander K. Fedotov

15:15–15:30

Critical parametrs of YBCO superconductive tapes irradiated with high-energy particles

Speaker

Ivan Svito

15:30–15:45

Интенсивность и профиль пучка экспериментов MSTI ARIADNA

Speaker

Nelli Pukhaeva

15:45–16:00

Investigation of the perspectives of accelerator driven subcritical reactors with ion beams

Speaker

Mihaela Paraipan

16:00

16:30

Applied physics: Materials science for HEP

Session | **Location:** Minsk, Sanatorium "Westa", The sanatorium is located 30 km from Minsk along the E30 highway.

16:30–17:00

Terahertz optics of graphene structures: absorption, lasing, influence of distributed feedback

Speaker

Konstantin Batrakov

17:00–17:30

Relativistic quantum-mechanical description and new properties of a graphene electron in external fields and free (2+1)-space

Speaker

Alexander Silenko

17:30–17:45

Effect of Gamma rays on the TiN nanocrystals

Speaker

Afsun Abiyev

17:45–18:00

The effects of high pressure on the crystal structure and vibration spectra of layered perovskite-like Nd₂Ti₂O₇

18:00

Speaker
Asif Asadov