Session Program

18–22 Oct 2026

30th International Scientific Conference of Young Scientists and Specialists (AYSS-2026)

Condensed Matter Physics

Monday 19 October

11:15

Condensed Matter Physics

Session | **Location:** Conference hall 3

11:15–11:30 **Study of the Effect of Electron Irradiation on Si and Si:Te**

Speaker
Sarvar Egamov

11:30–11:45
X-ray Diffraction Analysis of Structural Properties of GaAs(O):Cr under Gamma Irradiation up to 500 kGy

Speaker
Abror Abdaminov

11:45–12:00 **Effect of Electron Irradiation on Raman Phonon Modes in GaAs(O):Cr**

Speaker
Khabibulla Djangabaev

12:00–12:15 **Microstructural Characteristics of Electron-Irradiated GaAs**

Speaker
Daniyar Madiyarov

12:15–12:30
Effect of 2 MeV Electron Irradiation on Optical Properties and Raman Spectra Of ZnSe Crystals

Speaker
Bakhtiyar Madaminov

12:30–12:45
Tuning band Gap and Enhancing Visible-Light Absorption of Graphene Modified Rhombohedral BaTiO3

Speaker
Symbat Naurzova

12:45–13:00 **Computational Challenges in First-Principles Modeling of Molecular Crystals**

Speaker
Polina Kobchikova

13:00

14:30

Condensed Matter Physics

Session | **Location:** Conference hall 3

14:30–14:45 **Mechanical Properties of Magnesium Composite Reinforced with Diamane Nanoribbon**

Speaker
Timur Ermolovich

14:45–15:00
FTIR Analysis of Electron-Induced Modifications in Si3N4 Nanopowder at a Fluence of 5×1015 E/Cm2 with an Average Electron Energy of 2 MeV

Speaker
Maksud Buriev

15:00–15:15 **Molecular Dynamics of NSAIDs by Neutron Spectroscopy and Complementary Methods**

Speaker
Polina Gergelezhiu

15:15–15:30 **Analysis of Vesicular Medicines Structure by Small-Angle X-Ray Scattering**

Speaker
Varvara Chausova

15:30–15:45 **Nuclear-Physical Methods for Monitoring Bridge Deterioration with Neutron Generators**

Speaker
Natalya Belosludceva

15:45