**PROGRAMME**

**Ist PhD Student and Young Scientist Conference**

17April 2014

Registration and Poster Set-Up **12-00 pm** (Physics Faculty, Hall of 1st floor)

Welcome by the Organizers **12-30 pm** (Physics Faculty, Hall of 1st floor)

Poster Session **12-45 pm – 2-00 pm** (Physics Faculty, Hall of 1st floor)

**A-01. Anton Tomilov -** Investigation of Low Threshold Field Emission from Nano-Structured Carbon Materials. (*Supervisor*: **Prof.** **Adil M.Yafyasov, PhD.** *Department of Solid State Electronics)*.

**A-02.** **Daria Timofeeva -** Scattering in a 3- Particle System with the Coloumb Pair Potential. Applying an Iterative Algorithm. (*Supervisor*: **Prof. Sergey L. Yakovlev, PhD.** *Department of IT and  Computational Physics).*

**A-03. Daniil Oparin -** Collision-Induced Spectra of CO2-Ar Gas Mixtures. (*Supervisor*: **Prof. Nikolai N. Filippov, PhD.** *Department of Molecular Spectroscopy*).

**A-04. Tatiana Bondareva** – THEMIS Data- Based Analysis of Aurora Borealis Dynamics. (*Supervisor:* **Ass. Prof. Andrey L. Kotikov, PhD.** *Department of Earth’s Physics*).

**A-05. Konstantin Romanenko** - Dynamical Diffraction of Light from 1D Photonic Crystals with a Sinusoidal Profile of Permittivity. (*Supervisor*: **Prof. Aleksandr V. Selkin, PhD.** *Department of Solid State Physics).*

**A-06. Kseniya Martyshenko** – Retrieval of Ozone Altitude Profile from O 2 (b 1 Σg, v=0,1) Emission Intensity in the Middle Atmosphere. (Supervisor: **Ass. Prof. Valentin A. Yankovskiy, PhD.** *Department of Atmospheric Physics*).

**A-07.** **Ivan Strelnikov** - Spectra Registration Process in Nonlinear Comb-Spectroscopy. (*Supervisor*: **Prof. Sergey A. Pulkin, PhD.** *Department of General Physics 1*).

**A-08. Kyrill** **Rogushkin -** Investigation of "Semiconductor- Liquid Crystal" System Parameters in Electrolyte. (*Supervisor*: **Prof. Adil M.Yafyasov, PhD.** *Department of Solid State Electronics*).

Oral Session

**PhD student Maxim Maximov**, *Department of IT and Computational Physics*, Chair

Part I **2-00 pm – 3-30 pm** (Room B 02, 1st floor)

1. **Timur Zalialiutdinov –** Two-Photon Decay Widths and Three-Photon Transitions in Hydrogen and Highly-Charged Ions. (*Supervisor*: **Prof. Leonti N. Labzowsky, PhD.** *Department of Quantum Mechanics*).
2. **Victor Vorobyov –** Radiation of Charged Particle Bunches in Wire Metamaterial. (*Supervisor*: **Prof. Andrey V. Tyukhtin, PhD.** *Department of Radio Physics*).
3. **Ivan Strelnikov -** Creating an Electronic Registration System of Spectra in Nonlinear Comb-Spectroscopy. (*Supervisor*: **Prof. Sergey A. Pulkin, PhD.** *Department of General Physics 1*).
4. **Konstantin Romanenko** - Dynamical Diffraction of Light in Opal-like Photonic Crystals: 1D Spatially Periodic Structure Approximation. (*Supervisor*: **Prof. Aleksandr V. Selkin, PhD.** *Department of Solid State Physics).*

Coffee break and Poster Viewing **3-20 pm – 4-00 pm** (Hall of 1st floor)

Oral Session

Part II **4-00 pm - 5-00 pm** (Room B 02, 1st floor)

**PhD student Evgeny Khramtsoff,** *Department of IT and Computational Physics*, Chair

1. **Anton Tomilov -** Investigation of Low Threshold Field Emission from Nano-Structured Carbon Materials. (*Supervisor*: **Prof. Adil M.Yafyasov, PhD.**  *Department of Solid State Electronics*).
2. **Elizaveta Svishchova** – Influence of Anharmonic Interactions of Vibrations on the Spectral Transition Intensities in H-Bonded complex of Acetone with Hydrogen Fluoride. (*Supervisor:* **Prof. Konstantin G. Tokhadze, PhD.** *Department of Molecular Spectroscopy*).
3. **Ivan Ryzhov** – Optical Spin Noise Spectroscopy of the Semiconductor Microcavity. (*Supervisor*: **Dr. Valery S. Zapasskiy,** **PhD***. Department of Photonics*).

Closing **5-00 pm** (Room B 02, 1st floor)