*Dear Friends and Colleagues,*

*It is our great pleasure to invite you to attend the 3d Conference of TSU Physics Students organized by the team of the Project* “*Foreign Language Competence Development of TSU Students”. You will have an opportunity to share your research results and experiences in studying physics, test your communication skills and meet people who share the same passion for physics. Our life and work are getting more and more dependent on physics and its discoveries. Let us appreciate this blissful moment when we can come together, talk, discuss, share, doubt, believe and find out more about physics from each other.*

*The conference is structured into two main sections: Plenary and Poster, each of these sections involving 1st year and 2nd year students. The participants can present their work in the form of posters or as presentations. The programme of the event promises to blend academic, social and cultural topics and offers the participants a great experience.*

*The expert team from the Faculty of Physics and the Faculty of Foreign Languages are going to evaluate the participants’ presentations by taking into consideration their scientific relevance, originality and knowledge level of the subject matter of the participants. Awards for the best plenary and poster papers will be given.*

*Welcome to our Third Student Conference held at the Faculty of Physics!*

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|  | *On behalf of the organizing committee*    Sergey N. Filimonov  Dean of the Faculty of Physics, Associate Professor      Irina S. Savitskaya  Project Co-Manager, Senior Lecturer,  Faculty of Foreign Languages |

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| 14:00-14:25 | Conference Registration and Poster Display |
| 14:30-15:00 | Opening Ceremony |
| 15:00-16:00 | Presentations |
| 16:00-16.40 | Poster Session |
| 17.00-17:30 | **Сlosing Ceremony** |

Venue:

***Main Building***

***Conference Hall***

Tomsk State University

36 Lenin Ave.

Tomsk

**Chair of the Organising Committee**

*Victor V. Dyomin*, Vice-Rector for Academic Affairs, Associate Professor

**Organising Committee**

*Sergey N. Filimonov*, Dean of the Faculty of Physics

*Irina Savitskaya*, Project Co-Manager, Faculty of Foreign Languages

*Dmitry A. Bezrodnyy*, Deputy Dean of the Faculty of Physics

*Olga Nagel*, Associate Professor, Faculty of Foreign Languages

*Aleksandra Nabiullina*, Senior Lecturer, Faculty of Foreign Languages

*Ekaterina Galperina*, Senior Lecturer, Faculty of Foreign Languages

*Irina Temnikova*, Associate Professor, Faculty of Foreign Languages

*Olga Zubkova*, Senior Lecturer, Faculty of Foreign Languages

*Zoya Levashkina*,Senior Lecturer, Faculty of Foreign Languages

*Yan Chemezov*,Lecturer, Faculty of Foreign Languages

**Chair** Vladislav Ryakin *05632*

**14:30-15:00 Opening ceremony**

**Welcoming speech**

Prof. Artyom Yu. Rykun, TSU Vice-Rector for International Affairs

**Keynote speakers**

*Sergey N. Filimonov*, Associate Professor, Dean of the Faculty of Physics

***Be international: academic career in the global world***

*Olga A.Obdalova*, Professor,Deputy Dean for Research at the Faculty of Foreign Languages

***Between a Rock and a Hard Place: Some tips on improving academic writing***

**15:00-16:00 Session 1. Presentations**

*Venue: Conference Hall*

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| 1. Vladislav Ryakin | *05632* | *The One-electron Universe* |
| 1. Mokhamed Buizem | *05641* | *Quantum Interaction and Teleportation* |
| 1. Petr Korolev | *05621* | *Quantum Cryptography* |
| 1. Anna Lapshina,   Kristina Sharybkina | 05742 | *Moire Effect* |
| 1. Sergey Sinyukov | *05632* | *Thunderstorm as an Electrical Phenomenon* |
| 1. Lenara Valiulina, Anastasia Oseeva | *05632* | *Davisson-Germer Experiment* |
| 1. Boris Elfimov | *05632* | *Zero-point Energy Problem* |
| 1. AkimTretyakov | *05622* | *Optical Effects in Space* |

**16:00-16:40 Session 2. Posters**

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| 1. Ekaterina Matyskina, Vladislav Kuznetsov | *05742* | *Hollywood Physics* |
| 1. Aygerim Baktybekova, Sophia Bozhenkova | *05742* | *How Can We See?* |
| 1. ArtyomDuduka, Ekaterina Zueva, Vladimir Ponomarev | *05732* | *What Wind Speed Will Lift You off the Ground?* |
| 1. Roman Gontarev, Nikita Konradi | *05732* | *Physics in Swimming* |
| 1. Ilya Fatkullin, Nikita Karchebny | *05732* | *Physics Behind Sport Shoes* |
| 1. Yana Mikhailova,Arina Shishelova | *05731* | *Dark Matter* |
| 1. BegimayTaalaibekova, SalamatTurganbaeva, Valeria Sin-Shou | *05731* | *Laws of Physics in Dance Movements* |
| 1. Sergey Balandov, Dmitriy Silkin, Artyom Danilov | *05731* | *Suffering for Science* |
| 1. Alexei Nekhoroshev | *05722* | *J.J. Thomson: Identification of the Electron* |
| 1. Konstantin Mazin | *05722* | *The Theory of Quantum Physics by Max Planck* |

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| 1. Alice Samarinova | *05722* | *James Chadwick: Discovery of the Neutron* |
| 1. Vladimir Khan | *05722* | *Niels Bohr:Contributions to Quantum Theory, Nuclear Reactions and Nuclear Fission* |
| 1. Alexei Pak | *05722* | *Galileo Galilei: Providing a Mathematical Analysis of the Relationship Between Astronomy and Physics* |
| 1. Igor Shalygin | *05722* | *James Clerk Maxwell: Theory of Electromagnetism and the Kinetic Theory of Gases* |
| 1. Maria Popova | *05722* | *Marie Curie: The discovery of Polonium and Radium* |
| 1. Yaroslav Andreev | *05722* | *Nikola Tesla: Alternating Current* |
| 1. Konstantin Kim | *05722* | *Stephen William Hawking: the Basic Theorems on the Laws Governing Black Holes* |
| 1. Alexander Olekhnovich | *05722* | *Werner Heisenberg: Work on Quantum Mechanics and the Uncertainty Principle* | |
| 1. Marzhan Mamyrova, Alexandra Golubovskaya, Andrey Goryunov | *05622* | *String Theory* | |
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| 1. NursultanYegimbaev | *05622* | *Protheses and their Production* | |

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| 1. Maria Zherdeva, Pavel Savelyev | *05622* | *European Extremely Large Telescope* |
| 1. Dmitry Zubar | *05741* | *Implants for Human Heart* |
| 1. Anna Babarykina, 2. Tatiana Nazarova | *05741* | *Saturn’s Moon Titan* |
| 1. Zhanna Fedorovich, Alexander Shkurenko | *05741* | *Acoustic System* |
| 1. Nikita Gorev, Evgenii Oleynik | *05631* | *The Basic Theses of Quantum Field Theory* |
| 1. Yulia Rusina, Anastasiya Dreval, Alexandra Protasova | *05631* | *Perpetuum Mobile* |
| 1. Danil Dorokhin | *05631* | *Metals: Shape Memory Effect* |
| 1. Anna Manisheva | *05641* | *Physics in Medicine* |
| 1. Roman Elfimov | *05641* | *Astrophysics of Wormholes* |
| 1. Vyacheslav Karakin | *05731* | *What colour is a mirror?* |

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| **17.00-17:30** | **Сlosing Ceremony** |