

# Supersymmetry in Integrable Systems – SIS'23

20-22 February 2023, Dubna

**VENUE** – sessions will be held on the 4th floor in the Blokhintsev Hall

February 20, Monday

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| <b>09:40 – Opening!</b>       |   |
| 10:00-10:30                   | <b>Radoslav Rashkov:</b> <i>On some issues of AdS/CFT correspondence: Sasaki-Einstein backgrounds</i> |
| 10:30-11:00                   | <b>Hristo Dimov:</b> <i>Semiclassical pulsating strings in AdS/CFT correspondence</i>                 |
| 11:00-11:30                   | <b>Coffee break</b>   |
| 11:30-12:00                   | <b>Andrei Mironov:</b> <i>Superintegrability: a new trend in matrix models</i>                        |
| 12:00-12:30                   | <b>Gor Sarkissian:</b> <i>Some topics on N=1 super Liouville field theory</i>                         |
| 12:30-13:00                   | <b>Hasmik Poghosyan:</b> <i>RG flow between W<sub>3</sub> minimal models</i>                          |
| 13:00-14:30                   | <b>Lunch</b>  |
| 14:30-15:00                   | <b>Anastasia Golubtsova:</b> <i>Holographic RG flows in 3d N=2 supergravity</i>                       |
| 15:00-15:30                   | <b>Boris Merzlikin:</b> <i>Two-loop divergences in 6D, N=(1,1) SYM theory</i>                         |
| 15:30-16:00                   | <b>30 minutes break</b>   |
| 16:00-16:30                   | <b>Nikita Zaigraev:</b> <i>N=2 higher spins in harmonic superspace</i>                                |
| 16:30-17:00                   | <b>Lev Astrakhantsev:</b> <i>Non-abelian fermionic T-duality of DFT</i>                               |
| 17:00-17:30                   | <b>Kirill Gubarev:</b> <i>Bianchi identities in exceptional field theory</i>                          |
| <b>18:00 – Welcome party!</b> |   |

February 21, Tuesday

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| 10:00-10:30 | <b>Nerses Ananikian:</b> <i>Entanglement and Super Stable Cycles</i>               |
| 10:30-11:00 | <b>Artur Ishkhanyan:</b> <i>Applications of the Heun functions in physics</i>      |
| 11:00-11:30 | <b>Coffee break</b>  |
| 11:30-12:00 | <b>Zhyrair Gevorkian:</b> <i>Extended symmetries in geometrical optics</i>         |
| 12:00-12:30 | <b>Mahmut Elbistan:</b> <i>Eisenhart-Duval lift and plane waves</i>                |
| 12:30-13:00 | <b>Dmitry Kaparulin:</b> <i>Thermodynamics of continuous helicity particle gas</i> |
| 13:00-14:30 | <b>Lunch</b>   |
| 14:30-15:00 | <b>Sergey Fedoruk:</b> <i>Supersymmetric 3-particle elliptic Calogero system</i>   |
| 15:00-15:30 | <b>Dmitri Bykov:</b> <i>Monopole harmonics on <math>CP^{(n-1)}</math></i>          |
| 15:30-16:00 | <b>Coffee break</b>  |
| 16:00-16:30 | <b>Stepan Sidorov:</b> <i>Non-linear spin multiplet (3,4,1)</i>                    |
| 16:30-17:00 | <b>Nikolay Kozyrev:</b> <i>Schwarzians with extended supersymmetry</i>             |
| 17:00-17:30 | <b>Erik Khastyan:</b> <i>Kahler supermanifolds as phase spaces</i>                 |

February 22, Wednesday

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|-------------------------|--|
| 10:00-10:30             | <b>Christopher Brav:</b> <i>The geometry of moduli of topological D-branes</i>   |
| 10:30-11:00             | <b>Victor Mishnyakov:</b> <i>Matrix models and (q-)Painlevé equations</i>  |
| 11:00-11:30             | <b>Coffee break</b>  |
| 11:30-12:30             | <b>Dmitri Orlov:</b> <i>Mirror symmetry, D-branes and noncommutative geometry</i>  |
| 12:30-13:00             | <b>Mikhail Podoinitsyn:</b> <i>The Bargmann-Wigner construction for CS fields</i>  |
| 13:00-14:30             | <b>Lunch</b>   |
| 14:30-15:00             | <b>Georgy Sharygin:</b> <i>The QR-decomposition and chopping in Toda system</i>  |
| 15:00-15:30             | <b>Alexander Provorov:</b> <i>Split Casimir operator for simple Lie algebras in <math>Ad^3</math> and Vogel parameters</i> |
| 15:30-16:00             | <b>Coffee break</b>  |
| 16:00-16:30             | <b>Vahagn Abgaryan:</b> <i>On a Fisher metric on the space of quantum states</i>   |
| 16:30-17:00             | <b>Alexander Gusev:</b> <i>Metastable states in tunnelling of clusters</i>   |
| <b>17:00 – Closing!</b> |  |