*Programme*

**10th October 2019, Thursday**

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| 10:00 – 14:00 | Registration  |  |
| 14:00 – 14:30 | Welcome guests in Skoltech. Moscow |  |
| 14:30 – 16:00 | **E. Nikolaev**,Principles of FTICR mass-spectrometry | Lecture |
| 16:00 – 16:45 | **Y. Kostyukevich**, Dynamically Harmonized FT-ICR Cell – principles and cell properties | Lecture |
| 16:45 – 17:00 | *\*\*Coffee break\*\** |  |
| 17:00 – 17:30 | **A. Lioznov**, Approaches to simulations of ion cloud motion in FT ICR cell: supercomputer simulations | Lecture |
| 17:30 – 18:00 | **G. Vladimirov**, Dynamic range of FT ICR cell, detectable number of ions and peak coalescence | Lecture |
| 18:00 –  | Welcome reception |  |

**11th October 2019, Friday**

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| 08:40 – 09:00 | Opening session |  |
| 09:00 – 10:30 | **O. Kharybin & A. Zherebker***, Familiarization with the instrument and data acquisition* | *Lab* |
| 10:30 – 11:00 | **M. Zavyalova & A. Zherebker***, Samples pre-treatment*  | *Lab* |
| 11:00 – 11:30 | *\*\*Coffee break\*\** |  |
| 11:30 – 12:30 | **M. Zavyalova & A. Zherebker,** *analysis of individual compounds and complex mixture* | *Lab* |
| 12:30 – 14:00 | *\*\*Lunch\*\** |  |
| 14:00 – 15:30 | **E. Nikolaev,** *Advanced electronics for FT-ICR : preamplifiers and data acquisition platform based on ARM + FPGA architecture* | Lecture |
| 15:30 – 16:30  | **O. Kharybin,** *Ultra-high resolution and fine isotopic pattern* | *Lab* |
| 16:30 – 17:00 | *\*\*Coffee break\*\** |  |
| 17:00 – 18:00 | **A. Zherebker & M. Zavyalova,** *FTICR MS data treatment* | *Computer Lab* |
| 19:00 – 21:00  | *\*\*Dinner\*\** |  |

**12th October 2019, Saturday**

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| 09:00 – 9:30 | **G. Vladimirov,** *Introduction to Pic code* | *Lecture* |
| 9:30 – 11:00  | **P. Borisovets & G. Vladimirov,** *application of PIC-code for evaluation of ion cloud interaction effects​* | *Computer Lab* |
| 11:00 – 11:30  | *\*\*Coffee break\*\** |  |
| 11:30 – 13:00 | **E. Nikolaev,** *Perspectives of other FTMS methods. Miniaturization.* | *Lecture* |
| 13:00 – 14:00  | \*\*Lunch\*\* |  |