

**Joint Meeting of Plasma Physics Collaboration at FAIR and
8th International Workshop on Plasma Physics with Intense Laser and Heavy Ion Beams
December 9, 2016**

Joint Institute for High Temperatures of RAS, Krasnokazarmennaya 17a, Moscow, Russia

10:00 - 12:20

1. **D. Hoffmann.** Status and perspectives of the new High Energy Density science collaboration at FAIR (15 min)
2. **B. Sharkov (A. Golubev).** FAIR-project news and perspectives (25 min)
3. **S. Neff.** FAIR-project news and results of evaluation of the Plasma Physics Program by FAIR-council on 15-16.11.2016 (20 min)
4. **O. Rosmej.** Presentation of the proposed HED-collaboration structure and bylaws (20 min)
5. **Discussion** of the Phase-0 experiments at HHT in Q4 2018: experimental projects (HIHEX and proton radiography) and an upgrade of the HHT-area (60 min)
 - a. Simulations of the first HIHEX-Experiments with SIS18 U-beam(**A. Ostriak, I. Lomonosov**)
 - b. Discussion of the first steps on the upgrade of the HHT-area: diagnostics, manpower, financial support (**D. Nikolaev, A. Kantzyrev, A. Golubev, O. Rosmej**)
 - c. Discussion of an opportunity to carry out two experiments on HIHEX and PRad at the HHT experimental area
 - d. explosive chamber discussion: what shall be done (**V. Mintsev, D. Nikolaev, D. Hoffmann, O. Rosmej**)

Coffee break: 12:20-12:50

6. Discussion of the realization of the TDRs on Wobbler and a Target Chamber (**A. Golubev, N. Shilkin, S. Neff, O. Rosmej**): 40 min
 - a. Klystron (Toshiba?); infrastructure; financial support?
 - b. Target chamber discussion: construction (new TDR by A. Tauschwitz), realization; financial support
7. HED physics with intense laser and heavy ion beams (**O. Rosmej**):
 - a. **I. Krasiuk, K. Khishchenko.** Short laser pulse driven shock experiments (10+5min)
 - b. **A. Mikhailiuk.** Line-imaging velocimeter in Laser-Driven EOS Experiments (10+5 min)
 - c. **A. Sasvel'ev, K. Ivanov, I. Tsymbalov, S. Shulapov.** Optimized gamma flash Source from relativistic laser plasma interaction (10+5min)
 - d. **L. Pugachev, N. Andreev.** Generation of highly energetic electrons with short pulse laser for diagnostic purposes (10+5 min)
 - e. **A. Shutov.** Numerical study of the compression of hydrogen and water in the LAPLAS target when violations of symmetry (10+5 min)
 - f. **B. B. Zelener.** Simulation of antiprotons energy relaxation in electron and positron gas by molecular dynamics method (10+5 min)

Coffee break: 15:00 - 15:30

8. **Discussion and Summary (A. Golubev, O. Rosmej)**

Proposals of the Russian part of the PP&FAIR collaboration to:

- a. the new collaboration structure and candidates for election
- b. the first steps on scientific and technical preparation of the PHASE 0 at SIS 18
- c. the financial support for realization of TDR's and experimental activities