

RUSSIAN ACADEMY OF SCIENCES
FAIR-RUSSIA RESEARCH CENTRE

MIPT educational Center "Physics of high energy density matter"
ITEP educational Center "Study of high energy density matter under ionic beams"

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Seminar for young scientists

Physics of High Energy Density in Matter

3 - 4 December 2010, FAIR-Russia Research Centre, Moscow

Friday, December 3

10:00–10:30 **Alexander Fertman** (FAIR) /Opening talk/
FAIR Project. State of the art.

10:30 – 10:45 Coffee break

10.45-11.30 **David Blaschke** (University of Wroclaw, Poland; JINR, Dubna, Russia)
Bound states and Mott effect in strongly correlated plasmas
(*invited lecture*)

11.30-12.15 **Sergey Popov** (Sternberg Astronomical Institute, Russia)
Isolated neutrons stars: superstrong magnetic fields and atmospheres
(*invited lecture*)

12.15-13.00 **Gergely Barnafoldi** (KFKI, Hungary)
Tsallis Distributions in heavy ion collisions
(*invited lecture*)

13:00–14:00 Lanch break

14:00–14:45 **Kirill Bugaev** (ITP, Kiiiv, Ukraine)
Finite width and asymptotic Regge trajectories of quark-gluon bags
(*invited lecture*)

14:45–15:30 **Igor Lomonosov** (IPCP RAS, Russia)
Equations of State of matter under extreme conditions
(*invited lecture*)

15:30–15:45 Coffee break

15:45–16:30 **Oleg Petrov** (JIHT RAS, Russia)
Dusty Plasma as a Strongly Coupled Coulomb System: Structures, Interactions and
Transport (*invited lecture*)

16:30–18:00

1st Poster session (*wine & cheese*)

Saturday, December 4

10.00–10.45 **Serban Udrea** (TU and GSI, Darmstadt, Germany)

Experimental study of high energy density matter physics in heavy ion beams in GSI
(*invited lecture*)

10.45–11.30 **Edward Son** (JIHT RAS, MIPT)

Hydrodynamics of macro- meso- and nano-systems
(*invited lecture*)

11.30–11.45 Coffee-break

11.45–12.30 **Victor Gryaznov** (IPCP RAS, Russia)

Theoretical approach to the thermodynamics of shock-compressed plasma in Mbar pressures (*invited lecture*)

12.30–13.30 Lanch break

13.30–14.15 **Nikolai Andreev** (JIHT RAS, Russia)

Theory of matter under intensive femtosecond laser heating
(*invited lecture*)

14.15–15.00 **Igor Iosilevskiy** (JIHT RAS, MIPT, Russia)

Plasma polarization in high-gravity astrophysical objects
(*invited lecture*)

15.00–15.30 Coffee-break

15.30–17.30

Poster competition termination. Awards

Workshop Closure
