

**The program of international conference  
A.B. Migdal Memorial Conference "Advances in Theoretical Physics"**

**June 25, 2011**

10:00-10:05 <b>Welcome words</b>		
<b>Воспоминания об А.Б. Мигдале (Chair A. Dyugaev)</b>		
10:05-10:30	I.M. Khalatnikov (Landau Institute)	Воспоминания об А.Б. Мигдале
10:30-10:55	S.T. Belyaev (Kurchatov Institute)	My teacher A.B. Migdal
<b>Topology and quantum liquids</b>		
10:55-11:20	G. Volovik (Helsinki University of Technology && Landau Institute)	Universe in a helium droplet
11:20-11:40 <b>Coffee Break</b>		
<b>Quasi-particles in Fermi systems (Chair Yu.N.Ovchinnikov )</b>		
11:40-12:05	V.G. Vaks (Kurchatov Institute)	Stochastic statistical theory of precipitation in metastable alloys with application to Fe-Cu and Fe-Cu-Mn alloy systems.
12:05-12:30	E. Saperstein (Kurchatov Institute)	On microscopic theory of nuclear pairing
12:30-12:55	L.A. Falkovsky (Landau Institute)	Electron-phonon interaction
13:00-14:00 <b>Lunch</b>		
<b>Quantum field theory (Chair Ya.G. Sinai )</b>		
14:05-14:30	A.A. Migdal (Princeton University USA)	Mass Spectrum in Large N QCD
14:30-14:55	Ya. Pugai (Landau Institute)	Form factors and correlation functions in perturbed parafermionic CFT
14:55-15:20	A. Zamolodchikov (Rutgers University USA)	(TBA) Inelastic scattering and elastic amplitude in Ising field theory
15:20-15:40 <b>Coffee Break</b>		
<b>Mathematical physics (Chair Ya. Pugai)</b>		
15:40-16:05	S.P. Novikov, P.G.Grinevich, A.E. Mironov (Univ. of Maryland, USA && Landau Institute)	2D Pauli Operator in magnetic field
16:05-16:30	Ya.G. Sinai (Princeton University, USA)	Bifurcation in the solution of Navier-Stoks equation
16:30-16:55	V. Fateev (University of Montpellier, France)	(TBA) N=2 supersymmetric Yang-Mills theory and conformal blocks in CFT
17:00-19:00 <b>Banquet</b>		

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<b>Theory of quantum liquids (Chair G. Volovik)</b>		
10:05-10:30	A. Dyugaev (Landau Institute)	Negative ions in liquid helium
10:30-10:55	S. Burmistrov (Kurchatov Institute)	Macroscopic quantum nucleation in the solutions of liquid helium
10:55-11:20	P. Grigoriev (Landau Institute)	New type of excitations at the surface of liquid helium
11:20-11:40 <b>Coffee Break</b>		
<b>Superconductivity (Chair V. Khodel)</b>		
11:40-12:05	Yu.N.Ovchinnikov (Landau Institute)	Superconductivity in low-dimensional electron systems
12:05-12:30	V. Geshkenbein (ITP, Zürich)	I-V characteristics in the regime of strong pinning
12:30-12:55	V. Khodel (Kurchatov Institute)	The adaptation of the Landau-Migdal quasiparticle pattern to strongly correlated Fermi systems
13:00-14:00 <b>Lunch</b>		
<b>Nuclear and atomic Physics (Chair E. Saperstein)</b>		
14:05-14:30	N. Agasian (ITEP, Moscow)	Quark-hadron phase transition in a magnetic field
14:30-14:55	N.Nikolaev (Landau Institute)	Unitarity in Hard Nuclear QCD
14:55-15:20	V. Krainov (Moscow Inst. of Physics and Technology)	Atom ionization in strong laser field
15:20-15:40 <b>Coffee Break</b>		
<b>Воспоминания об А.Б. Мигдале</b>		
15:40-16:05	V. Belyakov (Landau Institute)	A.B. in the beginning of 60s
16:05-16:15 <b>Closing of the Conference.</b>		
16:15 -16:45 <b>Film about A.B. Migdal</b>		
<b>Departure</b>		