

The International workshop on Prospects of Particle Physics: Neutrino Physics and Astrophysics

Valdai, Russia, January 27 - February 1, 2014.

Preliminary Program

Moscow, 2014

Monday, January 27

11:00 Registration

Morning session

12:00 Opening

12:15 C. Giunti (INFN) Neutrino oscillations and sterile neutrino

13:15 H. Ray (Florida U.) MiniBooNE and the hunt for the low mass sterile neutrino

14:30 – 15:30 Lunch time

Evening session

16:00 A. Kozlov (Kavli IPMU) Current status of the KamLAND physics program

17:00 Coffee break

17:30 V. Gavrin (INR RAS) Current status of SAGE new project with ^{51}Cr neutrino source

18:00 V. Egorov (JINR) DANSS searching for sterile neutrino

Tuesday, January 28

Morning Session

10:00 P. Belli (INFN) Final Results of DAMA/LIBRA — phase-1 and perspectives of phase2

11:00 Coffee break

11:30 I. Stekl (Czech technical university in Prague) Low background techniques for underground experiments

12:30 Eu. Yakushev (JINR) Search for Dark Matter with Ultra-sensitive Ge Detectors at the Underground Laboratory of Modane

13:30-15:00 Lunch time

Evening session

17:00 V. Kazalov (INR RAS) First results of the experimental search for the 2K-capture of ^{124}Xe with the copper proportional counter

17:30 A. Gangapshev (INR RAS) First results of the experimental search for the 9.4 keV solar axions reactions with ^{83}Kr in the copper proportional counter

18:00 V. Kuzminov (INR RAS) Sources of the systematic errors of ^{214}Po half-life measurements.

Wednesday, January 29

Morning

Excursion

13:30-15:00 Lunch time

Free time

Thursday, January 30

Morning session

- 10:00 O. Smirnov (JINR) Solar neutrino with Borexino: results and perspectives
- 10:45 L. Ludhova (Milan U. & INFN) Geoneutrino at Borexino
- 11:30 Coffee break
- 12:00 L. Bezrukov (INR RAS) Geoneutrinos and Hydridic Earth model
- 12:30 V. Sinev (INR RAS) Potassium-40 and antineutrino contribution to Borexino data
- 13:30 – 15:00 Lunch time

Evening session

- 15:20 B. Lubsandorjiev (INR RAS) The Tunka Experiment: Cosmic Ray and Multi-TeV Gamma-Ray astronomy Arrays in the Tunka Valley
- 16:20 M. Kochkarov (INR RAS) Search for low-energy neutrino from the gamma-ray bursts on the Baksan Underground Scintillation Telescope
- 16:45 V.B. Petkov (INR RAS) The search for high energy muon neutrinos from Southern Hemisphere Gamma-Ray Bursts with BUST.
- 17:00 Coffee break
- 17:30 J. Djilkibaev (INR RAS) Status of Baikal-GVD project
- 18:00 S. Demidov (INR RAS) Indirect searches for dark matter at Baksan and Baikal

Friday, January 31

Morning session

10:00 A. Smolnikov (MPIK, Heidelberg & JINR) Present status and future of Double Beta Decay experiments

11:00 Coffee break

11:30 D. Sinclair (Carleton U.) The EXO-200 Double Beta Decay experiment and plans for the future

12:30 O. Samoylov (JINR) NOvA experiment

13:00 D. Naumov (JINR) Project JUNO

13:30 – 15:00 Lunch time

Evening session

15:30 D. Gorbunov (INR RAS) Testing sterile neutrinos with new fixed target experiment at CERN SPS

16:15 Coffee break

16:45 V. Rubakov (INR RAS) What was the Universe before the hot Big Bang

17:30 O. Verkhodanov (SAO RAS) Anomalies of low multipoles of WMAP and Planck missions: what are they ?

Evening: Workshop dinner

Saturday, February 1

Morning Session.

10:00 A. Studenikin (MSU & JINR) Electromagnetic properties of neutrino: a review

11:00 Coffee break

11:30 D. Medvedev (JINR) Gemma, experimental searches for neutrino magnetic moment

12:15 V. Petkov (INR RAS) Experimental search for evaporating primordial black holes

13:00 Closing