Open session of High Energy Physics Division
Petersburg Nuclear Physics Institute
December 25-28, 2000

ON THE EVE OF THE XXI CENTURY

Monday, December 25

10^{00}–10^{30} A.Vorobyov - HEPD on the Eve of the New Century.
10^{30}–11^{20} V.Khoze - LEP and Standard Model.

11^{20}–11^{40} Coffee break

11^{40}–13^{10} L3 experiment at CERN

V.Schegelsky - Review of PNPI activities in L3.
O.Fedin - Vector meson production in $\gamma\gamma$ collisions in L3.
A.Zalite - τ physics in L3.
I.Vodopianov - Search for gluonium states in L3.
M.Levchenko - Low mass resonance production in L3.

13^{10}–14^{30} Lunch

14^{30} – 16^{10} HERMES experiment at DESY

S.Belostotski - Status and future of HERMES.
O.Grebenyuk - Polarization in leptoproduction of Λ hyperons.
Yu.Naryshkin - Fragmentation function and Pt-distribution of Λ hyperon in electroproduction in HERMES.
A.Jgoun - Nuclear effects in semi-inclusive deep inelastic scattering at HERMES.

16^{10}–16^{30} Coffee break

16^{30}–18^{00} Proton-nucleus interactions at medium energies

O.Miklukho - Study of nuclear matter effects on pA interaction in $(p,2p)$ reactions at 1 GeV. Experiments at PNPI.
G.Korolev - Small angle scattering of neutron-rich nuclei ^{6,8}He, ^{9,11}Li on protons. Experiments at GSI.
O.Kiselev - Scattering of neutron- rich nuclei ^{6,8}He on protons at medium transfer momenta. Experiments at GSI.
V.Koptev - Study of the sub-threshold kaon production at COSY.

Tuesday, December 26

10^{00}–11^{30} πN and NN interactions

S.Kruglov - Experiments of Crystal Ball Collaboration at meson beams of the AGS accelerator at BNL.

I.Lopatin - Study of $\pi^- p$ charge exchange scattering in the region of P_{11}, S_{11} and D_{13} resonances. Experiments at PNPI.

V.Sumachev - Measurement of the spin rotation parameters in πp elastic scattering. Experiments at ITEP.

A.Prokofiev - Exclusive study of the $p(\alpha,\alpha')X$ reaction in the region of the Roper resonance. Experiments at Saclay.

11^{30}–11^{50} Coffee break

11^{50}–13^{20} Muon catalyzed fusion and μ-capture

A.Vorobyov - Study of muon catalyzed *dd* fusion.

G.Semenchuk - Study of muon catalyzed *dt* fusion.

E.Maev - Resonance mechanism in muon transfer reactions.

N.Voropaev - Study of muon capture on ^{3}He and proton.

13^{20}–14^{40} Lunch

14^{40}--16^{00} Production and study of nuclei off the stability line

Yu.Novikov - Isochronous mass measurement of short-lived nuclei at GSI.

L.Batist - Determination of the Gamov-Teller strength function for neutron-deficient isotopes near A=100.

V.Panteleev - High temperature targets and selective ion sources at IRIS facility.

D.Seliverstov - Study of proton-rich nuclei near A=80. Experiments at Juvaskyla and CERN (ISOLDE).

A.Barzakh - Charge radius of the neutron-deficient rare-earth isotopes in the region of the nuclear shell N=82 measured with the laser ion source spectroscopy technique.

16^{00}–16^{20} Coffee break

16^{20}–18^{00} Experiments at low and intermediate energies

V.Gordeev - Study of muon rare decays. Project FAMILON.

A.Getalov - Study of manganites by μSR method at PNPI and PSI.

O.Fedorov - Measurement of the polarization transfer parameter K_{nn} at small angels. Experiment at PNPI.
G.Solyakin - Momentum-energy transfer in disintegrations of heavy nuclei induced by relativistic particles.
F.Lepekhin - Inelastic interaction of nuclei with multiple production of fragments as a tool for examination of nuclear matter.

Wednesday, December 27

10^{00}–11^{00} ALICE and PHENIX experiments

V.Samsonov - PNPI in ALICE experiment.
V.Ryabov - PHENIX experiment and first results.

11^{00}–11^{40} D0 experiment

V.Kim - Physics expected from D0 project.
P.Neustroev - Readout system for D0 muon drift chamber.

11^{40}–12^{00} Coffee break

12^{00}–13^{20} *CP* violation and LHCb experiment

Ya.Azimov - *CP* violation in particle physics.
A.Vorobyov - Status of LHCb project.

13^{20}–14^{40} Lunch

14^{40}–16^{10} CMS project

Yu.Ivanov - Status of CMS project.
V.Golovtsov - Track-Finding Processor for the Level-1 Trigger of the CMS Endcap Muon System.
V.Bondar - Anode electronics for CMS Cathode Strip Chambers.
D.Seliverstov - CMS electromagnetic Calorimeter.

16^{10}–16^{30} Coffee break

16^{30}-18^{00} ATLAS project

V.Shegelsky - Physics program in the ATLAS experiment.
O.Fedin - Inner Tracker in ATLAS.
A.Krivshich - Status of TRT project at PNPI.
Yu.Ryabov - Data Acquisition, Slow Control and Data Bases in ATLAS.

Thursday, December 28

View to XXI Century Physics

10^{00}-10^{40}	M.Zhalov	-	Relativistic Heavy Ion Collisions: Status and expectations.
10^{40}–11^{20}	A.Kaidalov	-	High density QCD: from small-*x* DIS to heavy-ion collisions.
11^{20}–11^{40}	**Coffee break**		
11^{40}–12^{10}	A.Vorobyov	-	Diffraction scattering at high energies.
12^{10}–12^{40}	L.Lipatov	-	Pomeron before and during QCD era.
12^{40}–13^{20}	M.Ryskin	-	Physics expectations from LHC.
13^{20}–14^{40}	**Lunch**		
14^{40}–15^{20}	M.Khlopov	-	Particle physics and cosmology.
15^{20}–16^{20}			Round Table discussion: "Particle physics in the next Century."
16^{20}			New Year Glintwine Party.