

SYMPHYS 08 PROGRAM

Thursday, March 27

D.I. Blokhintsev Hall, 4th floor, Bogoliubov Laboratory of Theoretical Physics

11.00	Opening
Chairperson: G. Pogosyan	
11.10–11.50	P. Winternitz (Canada) <i>Superintegrability with and without separation of variables</i>
11.50–12.30	A. Filippov (Russia) <i>Static states, cosmologies and waves in gravitation models</i>

12.30 — 15.00 Lunch Break

Chairperson: P. Winternitz	
15.00–15.30	N. Atakishiyev (Mexico) <i>On Fourier transforms of q-Hermite polynomials of Rogers</i>
15.30–16.00	G. Pron'ko (Russia) <i>Quantum superintegrable system for arbitrary spin</i>
16.00–16.30	N. Gromov (Russia) <i>Sigma models with contracted gauge groups</i>

16.30 — 17.00 Coffee Break

Chairperson: S. Vinitzky	
17.00–17.20	A. Suzko (Russia) <i>Supersymmetry for Schrodinger equation with a position-dependent mass</i>
17.20–17.40	A. Khvedelidze (Russia) <i>On spin precession of two entangled spin-1/2 particles in a strong laser field</i>
17.40–18.00	V. Melezhik (Russia) <i>Quantum two-body problem in external field without center-of-mass separation</i>

18.30 Banquet

Friday, March 28

D.I. Blokhintsev Hall, 4th floor, Bogoliubov Laboratory of Theoretical Physics

Chairperson: E. Kalnins	
10.00–10.40	F. Calogero (Italy) <i>Isochronous systems are not rare</i>
10.40–11.20	Yu. Demkov (Russia) <i>Channeling, focusing and nuclear reactions</i>

11.20 — 11.50 Coffee Break

Chairperson: F. Calogero	
11.50–12.20	E. Kalnins (New Zealand) <i>Models of quadratic quantum algebras and their relation to classical superintegrable systems</i>
12.20–12.50	P. Tempesta (Spain) <i>From symmetries to number theory via finite operator theory</i>

12.50 — 15.00 Lunch Break

Chairperson: P. Tempesta	
15.00–15.30	Yu. Rybakov (Russia) <i>Structure of closed chiral vortices in Skyrme - Einstein model</i>
15.30–16.00	E. Solov'ev (Russia) <i>The time and canonical transformations in quantum physics</i>
16.00–16.30	E. Kapuscik (Poland) <i>A little generalization of special theory of relativity</i>

16.30 — 17.00 Coffee Break

Chairperson: N. Atakishiev	
17.00–17.30	V. Kassandrov (Russia) <i>Complex sphere in Ya.A. Smorodinsky' works and in algebrodynamics</i>
17.30–18.00	A. Kotikov (Russia) <i>4-loop anomalous dimensions of Wilson operators in the N=4 SUSY</i>

Saturday, March 29

D.I. Blokhintsev Hall, 4th floor, Bogoliubov Laboratory of Theoretical Physics

Chairperson: E. Kapuscik	
10.00–10.30	V. Pervushin (Russia) <i>Is it possible to estimate the Higgs mass from the CMB power spectrum?</i>
10.30–11.00	B. Zakhariev (Russia) <i>How Ya.A. Smorodinsky stimulated our investigation: one- and multi-channel direct and inverse quantum problems</i>
11.00–11.20	N. Tretyakov (Russia) <i>Scale symmetry and the scale approach to clustering matter</i>
11.20–11.40	D. Kulyabov (Russia) <i>Towards application of two-spinors calculus to relativity</i>

11.40 — 12.00 Break

Chairperson: N. Gromov	
12.00–12.20	I. Bogolubsky (Russia) <i>Models of cosmic strings: topological defects vs solitons.</i>
12.20–12.40	V. Pupyshv (Russia) <i>Asymptotics of Raynal-Revai coefficients at large hypermomentum</i>
12.40–13.00	M.Y. Kovalevsky (Ukraine) <i>Quasiaverages and classification of equilibrium states of condensed matter with spontaneously broken symmetry</i>

13.00 Coffee and Closing