



**Bogolyubov Institute for Theoretical
Physics of the National Academy
of Sciences of Ukraine**



**Conference of Young Scientists
Problems of theoretical physics
December 24 – 27, 2013**

ORGANIZING COMMITTEE

Head – Academician of NAS of Ukraine, Prof Dr. Anatoly Zagorodny;

Ph.D. Volodymyr Kravchuk; Ph.D. Sergiy Perepelytsya; Yuliya Bezvershenko; Ph.D. Anastasiya Rebesh; Ph.D. Alexandr Viznyuk; Ph.D. Alexandr Gamayun; Oleksiy Ivanytsky; Ph.D. Yuri Karpenko; Ph.D. Denis Malyshev; Dmytro Piatnytskyi; Denys Savchenko; Ph.D. Artur Slobodeniuk; Ivan Starodub; Oleksandr Chernyak; Volodymyr Shapoval; Ph.D. Dmytro Iakubovskiy; Andriy Kozak; Oleg Moroz;

TOPICS OF THE CONFERENCE

High energy physics, astroparticle physics, quantum cosmology, theory of nuclear systems, quantum field theory, theory of symmetries, theory of nonlinear processes in macromolecular structures, nanosystems and plasmas, dynamics of open strongly nonequilibrium physical, biological, economic and information systems.

REVIEW LECTIIONS

Sections	Lecturers
1. Astrophysics and Cosmology	Prof., Dr. Yuri V. Shtanov , /BITP of NAS of Ukraine/ Denis I. Malyshev , PhD / BITP of NAS of Ukraine; INTEGRAL Science Data Center, Switzerland/.
2. Mathematical Physics	Dr. Emil T. Akhmedov , /Alikhanov Institute for Theoretical and Experimental Physics, Russian Federation/ Pavlo G. Gavrilenko /Faculty of Physics of Taras Shevchenko National University of Kyiv; Faculty of mathematics of National Research University "Higher school of economics", Russian Federation /.
3. Statistical Theory of Many-body Systems	Prof., Dr. Yurij V. Holovatch / Institute for Condensed Matter Physics of NAS of Ukraine/ Aleksandr V. Gamayun , PhD / BITP of NAS of Ukraine; Department of physics of Lancaster University, United Kingdom/.
4. Physics of Biological Macromolecules	Prof., Dr. Anna V. Shestopalova / O.Ya. Usikov Institute for Radiophysics and Electronics of NAS of Ukraine/ Prof., Dr. Peter I. Belobrov / Institute of Biophysics of the Siberian Branch of RAS, Siberian Federal University, Krasnoyarsk, Russia
5. Condensed Matter Physics	Prof., Dr. Helen V. Gomony / National Technical University of Ukraine "KPI"/. Artur O. Slobodeniuk , PhD / BITP of NAS of Ukraine; Department of Theoretical Physics, University of Geneva, Switzerland /.
6. Physics of Nuclei and Elementary Particles	Prof., Dr. Valery P. Gusynin , corresponding member of NAS of Ukraine/ BITP of NAS of Ukraine /. Prof., Dr. Yurii O. Sitenko , / BITP of NAS of Ukraine /.

We invite the undergraduate and postgraduate students and the young scientists aged to 35 to take part in the Conference. **Working languages of the Conference are:** Ukrainian/ Russian/ English. There are oral and poster talks. We provide **20 min** for an oral talk.

The special issue of Ukrainian Journal of Physics will be prepared according the conference results.

The conference participants will have the opportunity to attend lectures of leading scientists in frames of **XX anniversary Davydov lecturing**, which will take place on December 26th in BITP of NAS of Ukraine.

Registration fee – 60 UAH (for undergraduate students it is reduced to **20 UAH**) includes Conference Program and Book of Abstracts, and Coffee-breaks. Organizing Committee assists the accommodation for participants from other towns.

To participate in the Conference you need to fill the Registration Form, prepare **English** Abstract of your talk according to the example and send them to the Organizing Committee *via* e-mail confyoung@bitp.kiev.ua. For additional information, please contact: <http://confyoung.bitp.kiev.ua>

November 25 is the deadline for Abstract and Registration Form submission