

Арнайы саны

«Cryocrystals and Quantum Crystals» атты
10-шы Халықаралық ғылыми конференцияның тезистері
Алматы, Қазақстан, 31 тамыз – 7 қыркүйек

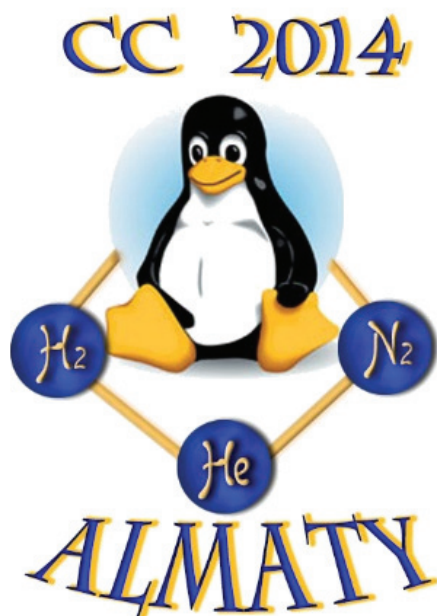
Специальный выпуск

Тезисы 10-ой Международной научной конференции
«Cryocrystals and Quantum Crystals»
Алматы, Казахстан, 31 августа – 7 сентября

Special Issue

Abstracts of the 10th International
Conference on Cryocrystals and Quantum Crystals
Almaty, Kazakhstan, August 31-September 7

10th International Conference on Cryocrystals and Quantum Crystals



August 31-September 7



Almaty 2014



The organizers of the Conference would like to acknowledge the financial support of:



National Academy of Science of the Republic of Kazakhstan.

The Republic of Kazakhstan. Almaty, st. Kunaeva 142,
NAS Presidium of the Republic of Kazakhstan.



Al-Farabi Kazakh National University.

The Republic of Kazakhstan, Almaty, ave. al-Farabi 71,
www.kaznu.kz



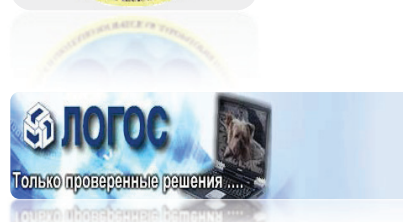
Scientific Research Institute of Experimental and Theoretical Physics.

The Republic of Kazakhstan, Almaty, ave. al-Farabi, 71.
e-mail: science@physics.kz



National nanotechnological laboratory open type.

The Republic of Kazakhstan. Almaty, Ave. al-Farabi, 71,
e-mail: nnlot@mail.ru



Logos +

The Republic of Kazakhstan. Almaty, Mynbayeva 46
office 409, e-mail: logos@monitor.kz

Prof centre – ПРОФЦентр.

The Republic of Kazakhstan. Almaty, Burundayskaya st. 187.

10th International Conference on Cryocrystals and Quantum Crystals *August 31-September 7, Almaty, Kazakhstan*

The 10th International Conference on Cryocrystals and Quantum Crystals(CC2014) is organized in Almaty (Kazakhstan) by Ministry of Science and Education of the Republic of Kazakhstan, National Academy of Science of the Republic of Kazakhstan, al-Farabi Kazakh National University, and Scientific Research Institute of Experimental and Theoretical Physics.

The Conference on Cryocrystals and Quantum Crystals (CC) dates back to 1979, when the first national USSR meeting dealing with cryocrystals and quantum crystals was organized in Viljandi, Estonia by V.G. Manzhelii (Verkin Institute for Low Temperature Physics and Engineering NASU) and A.F. Prikhot'ko (Institute of Physics NASU). The subsequent biannual meetings were held in Kharkov (Ukraine), Almaty (Kazakhstan), Donetsk (Ukraine) and Odessa (Ukraine).

The Almaty meeting of 1995 was organized by Kazakhstan National University as an international event. Since then the CC Conference had acquired international status becoming an important international forum for presenting new results on physics and chemistry of atomic and molecular solids. The great merit in achieving of this goal belongs to Prof. Vadim Manzhelii and Prof. Horst Meyer, the co-chairs of the first International CC-1995.

The next two CC conferences were held in Poland, in Polanica Zdrój (September 1997) and in Szklarska Poręba (August 2000). The venues of the next CC conferences were Freising (Germany) in 2002, Wrocław (Poland) in 2004, Kharkov (Ukraine) in 2006, Wrocław (Poland) in 2008, Chernogolovka (Russia) in 2010. The ninth CC2012 conference was held in Odessa (Ukraine).

The scope of CC is wide, including, but not limited to,

- thermodynamic and mechanical properties of cryocrystals and quantum crystals;
- order-disorder phenomena
- optical and neutron spectroscopy of cryocrystals
- high-pressure studies of cryocrystals and quantum crystals
- charged species in cryocrystals and quantum crystals
- phenomena at the surface of quantum fluids and solids
- impurity-helium condensates
- matrix isolation in cryocrystals
- ultrafast dynamics in crystals
- crystalline and amorphous films, nanoscale systems
- supersolid state
- new emerging materials
- technological applications and instrumentation

CC-2014 will be a forum where ideas on various aspects of the physical, chemical and technological properties of solidified gases and other relevant materials can be exchanged and where top experts in the field can meet.

A few Public Lectures are planned to be presented at CC2014. It is expected that majority of the attendees will arrive from outside the host country. In this regard, the Organize Committee is planning to announce a competition among young scientists up to 28 years for conference participation grants (to be announced later).

Please check the Almaty-CC2014.kz home page regularly for updates on pertaining information.

During the preparatory stages of CC-2014, former and would-be CC participants voiced a suggestion to hold the CC-2014 conference as an event in commemoration of Prof. Vadim Manzhelii, who was the main force in the organization of all Cryocrystals meetings.

10th International Conference on Cryocrystals and Quantum Crystals
August 31-September 7, Almaty, Kazakhstan

Organizers

Ministry of Science and Education of the Republic of Kazakhstan
National Academy of Science of the Republic of Kazakhstan
Al-Farabi Kazakh National University
Scientific Research Institute of Experimental and Theoretical Physics

Organizer Committee

Murat Zhurinov Co-Chair, Galimkair MUTANOV, Co-Chair,
Almaty, Kazakhstan

Tolegen KOZHAMKULOV, deputy	Almaty, Kazakhstan
Tlekkabyl RAMAZANOV, deputy	Almaty, Kazakhstan
Andrey DROBYSHEV	Almaty, Kazakhstan
Oleg LAVRISHCHEV	Almaty, Kazakhstan
Maratbek GABDULLIN	Almaty, Kazakhstan
Olga LEVCHENKO	Chernogolovka, Russia
Lydia YAKUB	Odessa, Ukraine

Program Committee

Mikhail STRZHEMECHNY, Chair, Kharkov, Ukraine

Vladimir BONDYBEY	Garching, Germany
Roberto BINI	Firenze, Italy
Stanimir BONEV	Halifax, Canada
Andrey DROBYSHEV	Almaty, Kazakhstan
Yuri FREIMAN	Kharkov, Ukraine
Eugene GORDON	Chernogolovka, Russia
Russell J. HEMLEY	Washington, USA
Andrzej JEZOWSKI	Wroclaw, Poland
Reyer JOCHEMSEN	Leiden, Netherlands
Kimitoshi KONO	Hiroshima, Japan
Paul LEIDERER	Konstanz, Germany
Alexander LEVCHENKO	Chernogolovka, Russia
Leonid MEZHOV-DEGLIN	Chernogolovka, Russia
Yuichi OKUDA	Tokyo, Japan
Miguel RAMOS	Madrid, Spain
Leonid KHRIACHTCHEV	Helsinki, Finland
Eduard RUDAVSKII	Kharkov, Ukraine
Elena SAVCHENKO	Kharkov, Ukraine
Valery SHIKIN	Chernogolovka, Russia
Jan P. TOENNIES	Göttingen, Germany
Erio TOSATTI	Trieste, Italy
Eugene YAKUB	Odessa, Ukraine

Local Committee

Andrey DROBYSHEV, Chair, Almaty, Kazakhstan

Abdurakhman ALDIYAROV, deputy	Almaty, Kazakhstan
Ainura SHINBAYEVA, secretary	Almaty, Kazakhstan
Nikolay DROBYSHEV	Almaty, Kazakhstan
Elena GALITSKAYA	Almaty, Kazakhstan
Akmaral IMANBAYEVA	Almaty, Kazakhstan
Karakoz KATPAYEVA	Almaty, Kazakhstan
Vasiliy KURNOSOV	Almaty, Kazakhstan
Evgeniy KORSHIKOV	Almaty, Kazakhstan
Dmitry SOKOLOV	Almaty, Kazakhstan