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Interdepartmental Council on the Problem of 'Solid State Physics'

International Conference

# Diffuse Scattering on the Synchrotron Radiation Beams

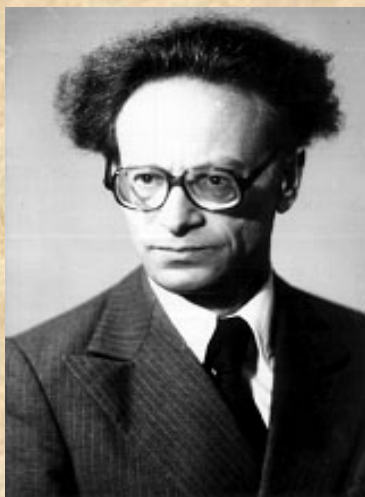
First announcement

September 1–5, 2009

Alushta, Crimea, Ukraine

## GENERAL INFORMATION

G. V. Kurdyumov Institute for Metal Physics, V. Ye. Lashkaryov Institute of Semiconductor Physics, National Science Center 'Kharkiv Institute of Physics and Technology' of the National Academy of Sciences of Ukraine, Taras Shevchenko Kyiv National University, Vasyl Stefanyk Prykarpattia National University, Yuriy Fedkovych Chernivtsi National University of the Ministry of Education and Science of Ukraine, and also Interdepartmental Council on the Problems of 'Solid State Physics' of M.E.S. and N.A.S. of Ukraine hold an International Conference concerning the analysis of state-of-the-art and trends of development of the methods of diffuse scattering on the synchrotron radiation beams. The Conference is dedicated to 80-year anniversary of outstanding physicist-theorist, creator of diffuse-scattering theory — theoretical basis of the contemporary materials diagnostics, corresponding member of N.A.S. of Ukraine Mikhail Aleksandrovich Krivoglaz (1929–1988), 20-year anniversary of the interdepartmental laboratory of magnetic films physics of Vasyl Stefanyk Prykarpattia National University and G. V. Kurdyumov Institute for Metal Physics of N.A.S. of Ukraine, and 60-year anniversary of solid state physics department of Yuriy Fedkovych Chernivtsi National University. The Conference will be held in Alushta (Crimea, Ukraine) at the sanatorium 'Alushta' from 1 to 5 of September 2009.



## TOPICS

The following research fields will be presented:

1. diffuse scattering of synchrotron radiation in nanosystems diagnostics; 2. x-ray methods in medical diagnostics; 3. x-ray diffractometry of multilayer nanosystems; 4. interferometric methods and sliding rays methods in the crystal diagnostics; 5. x-ray methods of the orientational dependences of secondary processes; 6. new generation of synchrotron radiation and neutron sources. Other actual directions of theoretical and experimental investigations in the field of diagnostics and physics of nanomaterials will be also presented.

## LANGUAGE

Ukrainian, Russian or English are acceptable for both oral and poster presentations as well as for manuscript submission.

## CONTRIBUTIONS

Three types of the contributions are planned:

- invited review lectures (40 min);
- oral presentations containing original results (20 min);
- poster presentations topically incorporated in separate sessions.

The lecture hall will be equipped with a PowerPoint system. The area for presentation of each poster is 100×150 cm<sup>2</sup>. Organizers will provide with auxiliary materials for the mount of the posters.

## PROCEEDINGS

The contributions will be published in the international research journal '*Metallofizika i Noveishie Tekhnologii*' (Metal Physics and Advanced Technologies), a special issue of the review research journal '*Uspehi Fiziki Metallov*' (Progress in Physics of Metals), and collected articles '*Nanosystemy, nanomaterialy, nanotekhnologii*' (Nanosystems, nanomaterials, nanotechnologies).

The manuscripts are limited to 8 pages (DIN A4, 1½ spacing) plus up to 16 figures for invited and keynote papers, and 4 pages (DIN A4, 1½ spacing) plus up to 8 figures for other papers. For author instructions (and manuscript template), see link [www.imp.kiev.ua/?a=publishing](http://www.imp.kiev.ua/?a=publishing) or contact with the Conference Secretariat by e-mail [dssrb@imp.kiev.ua](mailto:dssrb@imp.kiev.ua).

Electronic and hard copies (in duplicate) of the manuscripts should be submitted at the registration desk on the first day of the Conference (**September 1, 2009**).

## REGISTRATION AND ACCOMMODATION

The filled registration form should be sent before **July 10, 2009** on the address:

Institute for Metal Physics, N.A.S.U.  
Dept. of Solid State Theory  
(‘Diffuse Scattering on the Synchrotron Radiation Beams’)  
36 Acad. Vernadsky Blvd.  
UA-03680 Kyiv-142, Ukraine

or e-mail (preferably): [dssrb@imp.kiev.ua](mailto:dssrb@imp.kiev.ua)

Notifications of acceptance will be sent to the presenting authors by **01.08.2009**.

The Organizing Committee has a possibility to reserve the accommodation at the sanatorium 'Alushta'. The participants interested in such reservation should specify the wishes in the registration form. The cost of accommodation (including breakfast) is about 40 USD per night.

## CONFERENCE WEBSITE

[http://www.imp.kiev.ua/?a=conference&chapter=dssrb\\_2009](http://www.imp.kiev.ua/?a=conference&chapter=dssrb_2009)