



Dear colleagues,

This is the **second** Circular of the 4-th International Conference on **Current Problems in Nuclear Physics and Atomic Energy (NPAE-Kyiv2012)**, which will be held from September 3 to September 7, 2012 in Kyiv, Ukraine. This Conference is the continuation of the Conferences held in Kyiv in 2006, 2008 and 2010.

The NPAE-Kyiv2012 Conference will cover the following topics:

- Collective processes in atomic nuclei
- Nuclear reactions
- Nuclear structure and decay processes
- Rare nuclear processes
- Neutron and reactor physics, nuclear data
- Problems of atomic energy
- Applied nuclear physics, experimental facilities and detection techniques
- High-energy physics

The Conference will consist of plenary, parallel and poster sessions. Plenary sessions are composed of invited talks, and parallel sessions consist of invited talks and oral presentations selected from the contributions.

The working language of the Conference is English.

The NPAE-Kyiv2012 Conference is organized by the National Academy of Sciences of Ukraine (*NASU*, <http://www.nas.gov.ua>) the Institute for Nuclear Research of NASU, Kyiv (*KINR*, <http://www.kinr.kiev.ua>) in collaboration with the Taras Shevchenko National University of Kyiv (*NTSU*, <http://www.univ.kiev.ua>).

Conference site

The Conference will take place at the Institute of Postgraduate Education (IPE) of Taras Shevchenko National University of Kyiv, located about 5 km south of downtown (Vasylkivska str., 36, Kyiv). The Conference site is close to the metro station "Vasylkivska". The distance between the Conference site and the subway is 300 meters.

Call for Abstracts

Authors are invited to submit one page abstract (300-500 words) by June, 1, 2012. The book of abstracts will be issued before the Conference. Abstracts should be submitted during registration and uploading the abstract file(s) on the Conference site or sent as attached files to the official Conference e-mail address npae-kyiv2012@kinr.kiev.ua together with Short Registration Form (please, find this form at the end of this Circular). Samples and instructions for preparation of the abstracts can be found at the end of this Circular too or on the Conference website. Abstracts should be written in English.

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V.V. Uleshchenko (KINR, Kyiv)

Conference proceedings

Proceedings of the Conference will be issued by the Publishing Department of KINR and will be available on the Conference site after Conference. Proceedings of the previous Conferences (NPAE-Kyiv2006, NPAE-Kyiv2008, NPAE-Kyiv2010) can be found on the sites http://www.kinr.kiev.ua/NPAE_Kyiv2006/, http://www.kinr.kiev.ua/NPAE_Kyiv2008/ and <http://www.kinr.kiev.ua/NPAE-Kyiv2010/>.

Selected papers will be also published in the scientific journal "Nuclear Physics and Atomic Energy" (<http://www.kinr.kiev.ua/data/digest/digest.html>). The papers selected for publication in the mentioned journal will be reviewed by referees.

Reports and posters (as .DOC file) will be collected during the Conference registration upon arrival. Samples and instructions for preparation of the article can be found at the end of this Circular or on the Conference website. Papers for Conference Proceeding should be written in English.

All registered participants will receive a copy of the Proceedings.

Accommodation

Conference participants can lodge in the hotel complex of the IPE in the single- and double rooms of European standards for the price in the range of 25--50 Euros per night. The Conference sessions will be held at the same building. Meals (breakfast or lunch) will be organized at the IPE upon request (charged extra). The participants can also get accommodation in the 3 star hotel "MIR" (<http://www.hotelmir.kiev.ua>) as well as in other hotels of Kyiv. A number of luxury hotels will also be available with assistance of the Organizing Committee upon request.

WWW addresses of hotels located in downtown:

<http://www.hotelkiev.com.ua> (4 star)

<http://www.dniprohotel.com.ua> (4 star)

<http://www.khreschatik.kiev.ua> (3 star)

<http://www.ukraine-hotel.kiev.ua> (3 star)

<http://www.kozatskiy.kiev.ua> (3 star)

Reservation of accommodation has to be done till August 1, 2012.

Conference fee and registration

Registration fee for participants	250 Euro.
Registration fee for participants from Ukraine and the CIS countries	70 Euro.
Registration fee for accompanying persons	70 Euro.

Registration fee includes book of abstracts, coffee breaks, welcome party, Conference dinner, social events, book of proceedings (books of abstracts and proceedings only for the participants).

Limited number of financial supports will be available for students and young scientists.

Registration of the Conference participants will be held on **September 2-3, 2012** at the Conference site (Vasylkivska str., 36, Kyiv).

General information

Welcome party for the Conference participants and accompanying persons is planned on Monday evening on September 3, 2012. Conference banquet will be organized on Thursday evening on September 6, 2012.

During the Conference (at leisure hours) a sightseeing tour to the historical places of Kyiv will be organized for the participants and accompanying persons.

Travel and visa

International airport “Boryspil” of Kyiv has good connections with the majority countries in the world. The airport is located in 30 – 45 min travel by car to downtown and the Conference site. Kyiv is well connected by railway transport with some European countries. Practical details will be given in the final Circular.

Visa formalities to Ukraine are waived for nationals of many countries (without official invitations). If you know that you need visa, and learn about application process, you can visit the site <http://www.mfa.gov.ua/mfa/en/publication/content/1865.htm> or apply to the local Embassy or Consulate of Ukraine.

If necessary, we will provide you with an official invitation letter upon request.

Key Dates

First Circular	25 September, 2011
Second Circular	15 February, 2012
Call for papers	1 March, 2012
Deadline for abstract submission	1 June, 2012
Author notification	End of June 2012
Preliminary registration	1 August, 2012
Third Circular	15 August, 2012
Deadline for papers	3 September, 2012
Conference	3-7 September, 2012

Correspondence

All correspondence concerning scientific program, publication and other issues should be sent to:

Dr. Vitali Yu. Denisov
Institute for Nuclear Research,
Prospekt Nauky, 47
Kyiv, 03680
Ukraine
E-mail: npae-kyiv2012@kinr.kiev.ua
Fax: +38 044 525 44 63

Information concerning the Conference can be found at the website:

<http://www.kinr.kiev.ua/NPAE-Kyiv2012>

We are looking forward to seeing you at Kyiv in 2012.

On behalf of NPAE-Kyiv2012 organizers

Chairman and Scientific Secretary.

Please, send before JUNE 1, 2012 together with the abstract.

(Short Registration Forms as dot-file and pdf-file are also available on Conference website)

SHORT REGISTRATION FORM
4th International Conference
Current Problems in Nuclear Physics and Atomic Energy
(NPAE-Kyiv2012)
September 3 - 7, 2012, Kyiv, Ukraine

Name of participant	Family:	
	First Name:	
Title: <i>(Prof., Dr., Mr., Ms.)</i>		
Institution :		
Address:		
Title of presentation		
Authors		
Reporter:		
What form of the report presentation you prefer	oral	
	poster	
Conference topic		
E-mail :		

Please,

- fill the Short Registration Form on the Conference site or

- e-mail completed Registration Form to Conference address npae-kyiv2012@kinr.kiev.ua
before June 1, 2012

Please, send before **AUGUST 1, 2012**

(Registration Forms as dot-file and pdf-file are also available on Conference website)

REGISTRATION FORM
4th International Conference
Current Problems in Nuclear Physics and Atomic Energy
(NPAE-Kyiv2012)
September 3 - 7, 2012, Kyiv, Ukraine

Name of participant	Family:	
	First Name:	
Title: <i>(Prof., Dr., Mr., Ms.)</i>		
Institution :		
Address: <i>(The address should be complete enough to receive the correspondence)</i>		
City:		
Postal Code:		
Country:		
Phone (office):		
Fax :		
E-mail :		
I am sending abstract : <i>(the title of the abstract, if any)</i>		
Arrival date:		
Departure date:		
I would like to live during the Conference:	Hotel, located in the premises of the Conference site	
	3 star Hotel	
	4 star Hotel	
Additional requirements to the hotel accommodation:		
Accommodation during the Conference will provide by myself		
Accompanied by some persons		
Name of the accompanying persons(s)		

Please,

- fill the Registration Form on the Conference site or

- e-mail completed Registration Form to Conference address npae-kyiv2012@kinr.kiev.ua

before AUGUST 1, 2012

INSTRUCTIONS FOR AUTHORS (ABSTRACT TITLE)

1 line ®

N. N. Author¹ and N. N. Co-author(s)²

1 line ®

¹Affiliation

²Affiliation (if different from Authors affiliation)

1 line ®

The abstract should be 300-500 words. The abstract, not exceeding 1 page, including figures and tables (if needed), should contain general information about the achievements, and objectives of the paper, experimental technique, methods applied, significant results and conclusions.

The abstract should be written in English.

The text should be printed on the paper 21 x 29.7 cm (A4 format), with margins of 2.5 cm.

The text should be typed as follows:

- title: Times New Roman, 12 pt, ALL CAPS, bold, 1,5 spacing, centered.
- authors: name, initials and family names; Times New Roman, 12 pt, bold, 1,5 spacing, centered.
- affiliation(s): Times New Roman, 12 pt, bold italic, 1,5 spacing, centered;
- body text: Times New Roman, 12 pt, 1,5 spacing, justified; paragraphs in sections (except the first one) should be indented right (tabulated).

INSTRUCTIONS FOR AUTHORS (TITLE OF CONTRIBUTION FOR PROCEEDINGS)

1 line ®

N. N. Author¹ and N. N. Co-author(s)²

1 line ®

¹ *Affiliation*

² *Affiliation* (if different from Authors affiliation)

1 line ®

Abstract: Each paper must begin with an abstract. The abstract should be typed in the same manner as the body text (see below). Please note that these Instructions are typed just like the manuscripts should be. The abstract must have of 150 - 200 words, supplying general information about the achievements, and objectives of the paper, experimental technique, methods applied, significant results and conclusions. The text should be printed on the paper 21 x 29,7 cm (A4 format), with margins of: Top – 2, Bottom – 2,5, Left – 3, Right – 1 cm.

1 line ®

1. Introduction

1 line ®

This paper contains instructions for preparing manuscripts for the International Conference NPAE-Kyiv2012. The text, not exceeding 8 pages for regular papers and 14 pages for invited papers, should be prepared in .DOC format (using MS Word) and send at e-mail address: npae-kyiv2012@kinr.kiev.ua before **September 3, 2012**

The paper should be written in English.

1 line ®

2. Instructions

1 line ®

The text should be typed as follows:

- title: Times New Roman, 12 pt, ALL CAPS, bold, 1,5 spacing, centered;
- authors: name, initials and family names; Times New Roman, 12 pt, bold, 1,5 spacing, centered;
- affiliation(s): Times New Roman, 11 pt, italic, 1,5 spacing, centered;
- abstract: Times New Roman, 11 pt, 1,5 spacing, justified;
- body text: Times New Roman, 12 pt, 1,5 spacing, justified; paragraphs in sections should be indented right (tabulated) for 1,25 cm;
- section titles: Times New Roman, 12 pt, bold, 1,5 spacing, centered, numerated in Arabic numbers (except ACKNOWLEDGMENTS and REFERENCES), one line should be left blank above and below section title;

- subsection titles: Times New Roman, 11 pt, bold, 1,5 spacing, centered, numerated in heading numbering style in accordance to the section (e.g. 2.1., see below), one line should be left blank above and below subsection title;
- figure captions: width of the figure should be 85 or 170 mm, figures should be numbered (Fig. 1) and titled below figures using sentence format, Times New Roman, 11 pt, 1,5 spacing, centered (if one line) or justified (if more than one line);
- one line should be left blank below figure captions;
- table captions: width of the table should be 85 or 170 mm, tables should be numbered (*Table 1.*) and titled above tables using sentence format, Times New Roman, 11 pt, 1,5 spacing, centered (if one line) or justified (if more than one line), tables should be formatted with a single-line box around the outside border and single ruling lines between rows and columns;
- one line should be left blank below tables;
- equations: place equations centered, numbered in Arabic (1), flush right, equations should be specially prepared in MathType;
- one line should be left blank below and above equation.

1 line ®

2.1. Additional instructions

1 line ®

Numerated figures and tables should be embedded in your text and placed after they are cited. Only black and white drawings and sharp photographs are acceptable. Letters in the figures should be 3 mm high.

1 line ®

REFERENCES

1 line ®

References should be numbered in the order of referring in the text, e.g. [1], [2 – 5], etc. Do not superscript your reference numbers. Cite references as in journal format. The full references should be listed in numerical order of citation in the text at the end of the paper (justified).

References should be given in the following form:

Journals

1. *Holzwarth G., Eckart G.* Fluid-dynamical approximation for finite Fermi systems // Nucl. Phys. – 1979. – Vol. A325. – P. 1 – 30.

Books

2. *Bertsch G. F., Broglia R. A.* Oscillations in finite quantum systems. Ch. 6. – Cambridge: Cambridge University, 1994. – 150 p.

Chapters

3. *Van der Woude A.* The electric giant resonances // Electric and magnetic giant resonances in nuclei / Ed. by J. Speth. – Singapore: World Scientific P.C., 1991. – P. 99 – 232.

Conference or symposium proceedings

4. *Smolanzuk R., Skalski J., Sobiczewski A.* Masses and half-life of superheavy elements // Proc. of the International Workshop 24 on Gross Properties of Nuclei and Nuclear Excitations / Ed. by H. Feldmeier et al. - GSI, Darmstadt, 1996. - P. 35 - 42.

Special Notes

1. Use International System of Units (SI system).
2. It is undesirable to use acronyms in the titles. Please define the acronym on its first use in the paper.
3. Refer to isotopes as ^{14}C , ^3H , ^{60}Co , etc.