

11th IAEA Technical Meeting
“Energetic Particles in Magnetic Confinement
Systems”
(20th Anniversary Meeting)

21 to 23 September 2009
Kyiv, Ukraine



INTRODUCTION

The 11th IAEA Technical Meeting on Energetic Particles in Magnetic Confinement Systems will take place in Kyiv, Ukraine. This will be an anniversary meeting, 20 years after the first meeting in this series held in Kyiv (1989). Like the first meeting, this meeting will be hosted by the Institute for Nuclear Research, National Academy of Sciences of Ukraine. The first meeting and several subsequent meetings [Aspenas (1991), Trieste (1993), Princeton (1995), and JET/Abingdon (1997)] were entitled “Alpha Particles in Fusion Research”. During the JET/Abingdon meeting in 1997 it was decided to extend the topic by including other suprathermal particles, in particular, accelerated electrons, and rename the meetings accordingly. The subsequent meetings with the current name “Energetic Particles in Magnetic Confinement Systems” were held in Naka (1999), Gothenburg (2001), San Diego (2003), Takayama (2005) and Kloster Seeon (2007).

Following recommendation from the International Fusion Research Council, the IAEA will continue to organize the series of Technical Meetings (TM’s) on the subject of Energetic Particles in 2009.

OBJECTIVES

The purpose of the meeting is to discuss the status of experimental and theoretical works on suprathermal electrons and ions in a wide variety of magnetic confinement geometries. The meeting will cover the formation and transport of energetic particles, the collective instabilities they drive, their effects on the plasma, and energetic particle diagnostics. The meeting will aim to identify important physics issues associated with the energetic ions to be studied in future, in particular, for ITER and fusion power plants.

TOPICS

- (A) Alpha particles physics,
- (B) Transport of energetic particles,
- (C) Effects of energetic particles in magnetic confinement fusion devices,
- (D) Collective phenomena: Alfvén eigenmodes, energetic particle modes and others,
- (E) Runaway electrons and disruptions,
- (F) Diagnostics for energetic particles.

MEETING FORMAT

The meeting will consist of invited and contributed oral presentations, poster session, and a summary session. It is expected that invited talks will be 35 minutes plus 5 minutes discussion and session talks will be 20 minutes with 5 minutes for discussion. Poster sessions shall be used for longer discussions. An overhead projector for transparencies and an electronic projector with a computer capable of reading CD's and memory sticks will be available (Power Point or pdf recommended).

The official language of the meeting is English (no interpretation will be provided). It is expected that the meeting will start at **09:00 on 21 September 2009 and end by 17:00 on 23 September 2009**. A short summary of the meeting, including recommendations, will be presented and approved during the Summary session (last session). A summary manuscript will be prepared for submission to Nuclear Fusion journal.

PARTICIPATION

About 60 persons from IAEA Member States or international organizations are expected to attend. Participants should be persons actively involved in the topics of the meeting.

In order to participate in the meeting, these major steps must be completed:

(1) IAEA PARTICIPATION (Form A submission)

A participant will be accepted only if the Participation **Form A** is transmitted to the IAEA through the appropriate Governmental representative authority (Ministry of Foreign Affairs, National Atomic Energy Authority) **by 12 June 2009**. In the case the participant intends to give a contribution the abstract should be attached.

(2) ABSTRACT SUBMISSION

A one page abstract must be submitted **by 12 June 2009**. The abstract may be text only or contain figures and graphics, but must be only one page. The abstract must contain the authors' names, affiliation and email address. Acceptable file formats are Microsoft Word (preferred) or PDF. The filename should be in the following format: "lastname.i.n.i.t.i.a.i.s.-topic.filetype", for example, Spitzer.I.N.-D.doc or Spitzer.I.N.-D.pdf.

Please submit the abstract electronically by email to:

Physics@iaea.org

Cc: lutsenko@kinr.kiev.ua

Subject: 11th IAEA TM on Energetic Particles

Contributors of material to be included in Agency publications are required to assign all copyrights or rights to publish to the Agency. Please complete and sign **Form B** and send it to the IAEA Scientific Secretary (please see address at the end of this announcement) **by 12 June 2009**. The authors must make sure that the files do not include copyrighted fonts or other impediments for reproduction. The abstracts will be selected and classified by the International Advisory Committee.

Authors will be informed the acceptance of their contributions by email, by **15 July 2009**.

The abstract shall be prepared according to the following instructions:

1) Page size: A4 (297mm by 210 mm) – vertical orientation

2) Margins 25mm all around

3) Layout:

Title: single-spaced, 14-point size, Times New Roman Font, **bold**

Authors: single-spaced, 12-point size, Times New Roman Font

Affiliation: single-spaced, 12-point size, Times New Roman Font, *italic*

Text: 1.5 spaced, 12-point size, Times New Roman Font

Length: one page

A Book of Abstracts will be compiled for free distribution at the meeting to every participant.

(3) EXPENDITURES AND FINANCIAL SUPPORT

No registration fee will be charged by the IAEA for participants to participate in the meeting.

As a general rule, the IAEA does not pay the costs for attendance to the meeting (i.e. travel and living expenses) of participants. However, limited funds are available to help meet the cost of attendance and participation of a few selected specialists mainly from developing countries with low economic resources. Generally, not more than one grant will be awarded to any one developing country. The grants awarded will be in the form of lump sums usually covering part of the cost of attendance.

If governments wish to apply for a grant on behalf of one of their specialists, they should address specific requests to the IAEA Scientific Secretary at the International Atomic Energy Agency to this effect. Governments should ensure that applications for grants:

- a) are received by the IAEA before **12 June 2009**
- b) are accompanied by a duly completed and signed Grant **Form C** and an estimate of a valid travel agent of the flight costs from/to the duty city in their country and Kyiv.
- c) are accompanied by a duly completed and signed Grant **Form B** and abstract.

Applications that do not comply with the conditions mentioned above cannot be considered.

Awards will be announced by **August 2009**.

(4) VISA

At present, no visa is required for participants from the European Union, Japan, Republic of Korea, Norway, Russia, Switzerland, USA, and some others. Nevertheless, it is recommended to have a letter of invitation from the Local Organizing Committee when crossing the border. Designated participants who require a visa to enter Ukraine should submit the necessary application to the nearest diplomatic or consular representative of Ukraine as soon as possible.

For the invitation letters, you can refer to

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SUBMISSION OF PROCEEDING PAPERS

Electronic versions of papers will be collected at the meeting. A manuscript of about 12 pages for invited, 9 pages for contributed oral and 7 pages for contributed poster shall be prepared for inclusion on the meeting proceedings published by IAEA in CD-ROM (it will be available on the web and will include presentations of the submitted manuscripts). Authors should pass the manuscript at the registration desk on the first day of the meeting (**21 September 2009**). The possibility of publishing a selection of Invited papers in a refereed Journal will be announced at a later stage.

SUMMARY OF TM

A summary report of the meeting will be prepared for submission to the "Nuclear Fusion" journal.

FURTHER INFORMATION

Website containing this announcement and updates of the Meeting
<http://www.kinr.kiev.ua/TCM/index.html>

IMPORTANT DEADLINES

12 June 2009 – Submission of Forms A and B to the IAEA through official channels.

12 June 2009 – Submission of abstracts by email according to the instructions above for paper selection.

12 June 2009 – Request to the IAEA for financial support.

15 July 2009 – Participants will be informed about the acceptance of their papers.

August 2009 – Grant awards.

21 September 2009 – Meeting begins; please bring an electronic WORD or *pdf* file of your paper to be collected at the registration desk.

International Advisory Committee

<i>L.-G. Eriksson</i>	<i>EC</i>
<i>S. Günter</i>	<i>Germany</i>
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