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\* 18th European Cosmic Ray Symposium \*

\* July 8-12, 2002 \*

\* Moscow, Russia \*

\* Russian Academy of science \*

\* Lomonosov Moscow State University \*

WWW page <http://dbserv.sinp.msu.ru/~18sym>

E-mail [18sym@dec1.sinp.msu.ru](mailto:18sym@dec1.sinp.msu.ru)

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SECOND CIRCULAR

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The 18th European Cosmic Ray Symposium will be held during July 8 - 12, 2002 in Moscow, Russia. The Symposium is being organized by the "Cosmic ray" Scientific Council of the Russian Science Academy.

**I. Modified format of the Symposium.**

After prolonged discussions among the members of International Program Committee we decided to change the format of 18 European Cosmic Ray symposium in order to avoid the resemblance of the ICRC conference traditional format and to focus attention on CR investigation by European groups, and particularly on large scale experiments.

A major part of the Symposium time will be dedicated to discussing the status of those experimental projects for cosmic ray studies ('Experimental projects'), which are of major importance for the European scientific community. We propose 7 major topics, which are listed below (together with the names of main experiments). For each of these 7 topics we propose 2-6 reporters who will present 30-45 min review presentations (the names of the invited speakers will be displayed on the Symposium web-site as soon as they confirm their consent). Each 'Experimental project' session will include several 10-12 min presentations selected from contributed papers by the LOC and 3-5 min short reports for discussion.

The other contributed papers will be presented at parallel sessions, organized in traditional conference format (SH, HE and OG) 'Traditional topics' which are planned after 14.00 every day.

Besides some of the contributed papers will be presented as posters.

Each Symposium working day will begin with a 60-min lecture, dedicated to the most interesting problems of modern astrophysics and elementary particles.

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**"Experimental projects"**

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**1. CR PHYSICS AROUND THE KNEE (6 hours):**

- a) ground-based arrays  
(e.g. KASKADE, K-GRANDE, ARGO, TIEN-SHAN, TUNKA, ANI, EAS-TOP, Inka, BAKSAN (ANDYRCHI)...) )

b) balloon and satellite experiments  
(e.g. ATIC, RUNJOB, INCA, KLEM, TRACER ..)

c) high-energy interactions  
(e.g. PAMIR, ADRON, Chacaltaya ..)

**2. MUONS AND NEUTRINO (4 hours):**

a) High energy neutrino astrophysics:  
(e.g. NT-200, AMANDA, NESTOR, ANTARES, NEMO ..)

b) Underground experiments:  
(e.g. BAKSAN (BST, SAGE), GNO, LVD, ALEPH, ATLAS, L3, OPERA, Borexino, Icarus, MONOLIT, MACRO, NEVOD, BARS ..)

**3. HIGH ENERGY GAMMA-RAY ASTRONOMY (2 hours):**

(e.g. HEGRA, GRAAL, MAGIC, HESS, SELESTA, SHALON, KRAO, CAT...)

**4. ULTRA HIGH ENERGY CR (4 hours):**

a) ground-based arrays  
(e.g. Yakutsk, AUGER, EAS-100 ..)

b) balloon and satellite experiments  
(e.g. EUSO, TUS, SPHERE, KLEPVE ..)

**5. CR LOW ENERGY COMPOSITION AND SEARCH FOR ANTIMATTER (2 hours):**

(e.g. PAMELA, AMS, CAPRICE ..)

**6. CLIMATE AND ATMOSPHERIC PHENOMENA: (2 hours)**

**7. THE SUN AND THE HELIOSPHERE (4 hours):**

a) Energetic particles generated on the Sun and in the Heliosphere (ground-based, balloons, and satellite experiments).  
(e.g. SOHO, STEREO, CORONAS, Interheliozond ..; the network of neutron monitors, monitoring with balloons)

b) CR modulation in Heliosphere

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**Preliminary timetable of the working day:**

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9 - 10 Invited lecture  
10 - 10.30 coffee  
10.30 - 12.30 Session "Experimental projects"  
12.30 - 14. lunch  
14 - 16 Session "Experimental projects"  
Parallel session "Traditional topics"  
16 - 17 coffee, poster section  
17 - 19 Session "Experimental projects"  
Parallel Session "Traditional topics"

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## II. Pre-registration

We kindly request participants to register themselves on the conference web-site <http://www.dbserv.sinp.msu.ru/~18sym> before 1.02.2002, so that we can start mailing the official invitations and planning the Symposium schedule.

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## III. Submission of Abstracts

Conference participants who wish to present a report are requested to submit their abstracts before March 31, 2002. The abstracts will be published as a separate volume and distributed to all the participants. Details concerning abstracts submission can be found on the official 18ECRS Web site <http://www.dbserv.sinp.msu.ru/~18sym>

Abstract should be prepared as a Word or Latex file sited on the one page (The Latex style file will be available from the Symposium web-site later. On the second page we need information on the contact person (in free format).

Please e-mail your abstracts: [18sym@decl.sinp.msu.ru](mailto:18sym@decl.sinp.msu.ru)

*First page:*

**Main FORMAT** (A4 page):

Margins

left 2.5  
right 2.0  
top 2.5  
bottum 2.0

TITLE (16pt, capital, bold, centered)

2 blank lines

Author1(1), author2(1), author3(2)... (12 pt) (centered)

1 blank line

(1) Institutel, address (12 pt, italic)(centered)

(2) Institute2, address (12 pt, italic) (centered)

2 blank lines

Text (12 pt) (flush left)

Text should not exceed 1 page (but preferably, not too short)

*Second page:*

Contact person:

Name

Tel.

Fax

E-mail

Session in accordance with SH-HE-OG division:

Section in accordance with "Experimental projects" 1-7 division:

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**IV Expenses**

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The registration fee for foreign participants is 250 EUR. It can be paid either by a bank-transfer in favor of the Organizing Committee, or in cash during the participant registration .

The necessary requisites for bank-transfer payments are given below:

**EUR/DEM**

**INTERMEDIARY BANK(53): SWIFT: COBA DE FF  
COMMERZBANK AG,  
FRANKFURT AM MAIN, GERMANY**

**BENEFICIARY BANK(57) : SWIFT: CMIB RU MM  
MI-BANK, MOSCOW, RUSSIA  
Acc. 400886976000EUR**

**BENEFICIARY(59) : Acc. 4050397850000000001  
INSTITUTE OF NUCLEAR PHYSICS MSU**

**DETAILS OF PAYMENT: REGISTRATION FEE 18 ECRS  
For .. NAME of participant.**

The registration fee for Russian participants consists of two parts: 1000 rubles, which the participant pays at registration, and contributing payments of the Russian Institutes, which are Symposium Organizers.

The registration fee covers: coffee-breaks, welcome party, shuttle bus service, Symposium program, book of abstracts.

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**V Hotel accommodation**

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We can recommend several hotels with various price levels:

**1. The "Orlenok" hotel** -10 min walking distance from RAS Presidium.

Single room with 2 beds

(can be used as double) ~ 90\$/night for foreign participants

~ 72\$/night for Russian participants

with WC, shower, TV, telephone (breakfast not included)

**2. The "Soyuz" hotel** on Universitetskiy prospect :

single rooms

~ 32\$/night for foreign participants

~ 25\$/night for Russian participants

TV, refrigerator, breakfast included, (telephone on request for additional fee)

**3. MSU main building -**

within 45 min walk or 20 min bus trip from the RAS Presidium

**rooms in the MSU students hostel:**

1 room apartments (8m<sup>2</sup>)

with TV, fridge, phone,

~8\$/night

shared WC and shower

1 room apartments (8m<sup>2</sup>)  
with shared WC, shower

~4\$/night

**Best Regards,**

**18ECRS European Cosmic ray Symposium  
Local Organizing Committee**