

FIRST CIRCULAR

International Conference "**Cosmology and Relativistic Astrophysics (Zeldovich - 100)**"

Moscow, 16-20 June, 2014

WWW: <http://hea.iki.rssi.ru/zeldovich-100/>

E-MAIL: zeldovich100 at cosmos.ru

Organizer: Space Research Institute of the Russian Academy of Sciences (IKI)

RATIONALE

The 2014 year marks the 100th anniversary of Yakov Zeldovich, one of great physicists of the 20th century. The conference will commemorate his contribution to astronomy by concentrating on recent progress in cosmology and high energy astrophysics, the areas where his ideas laid the basis for revolutionary advances. The scientific topics will include the theory of large scale structure formation, observations of baryonic acoustic oscillations, spectral distortions, angular fluctuations and polarization of the cosmic microwave background, reionization and sources of CMB foregrounds, theory of disk accretion onto black holes and neutron stars, physics and observations of clusters of galaxies -- topics which were among the main interests of Yakov Zeldovich during the last 25 years of his life. There will be a broad discussion of plans for the Spectrum-RG X-ray sky survey and its synergy with cluster and AGN surveys in microwave (SPT, ACT, CARMA etc) and other wavelength bands.

VENUE AND DATES

The conference will take place at the Space Research Institute (IKI) in Moscow, Russia, on June 16-20, 2014. Moscow is the city where Yakov Zeldovich spent more than a half of his life in science, of which more than 12 years working at IKI.

NUMBER OF PARTICIPANTS

Given the capacity of the conference hall at IKI, participation will be limited to 250 people. Since more than 250 people have already pre-registered for the conference and registration is going on, all submitted presentations will have to go through a strict selection process, based on the relevance to the scientific program. We expect participants of the conference to be professionals in astrophysics and cosmology. Graduate students who are willing to participate but have not yet a proven record of scientific activity in these fields should arrange for a short recommendation from their supervisor to the SOC (zeldovich100 at cosmos.ru).

SCHEDULE

The scientific sessions will begin on the morning of Monday, June 16th, and will last until the evening of Friday, June 20th. There will be an opening ceremony/welcome cocktail on Monday, June 16th and a conference dinner on Wednesday, June 18th.

There will be plenary sessions held in the main conference hall and a number of parallel sessions held in different halls at IKI. There will also be poster sessions.

INVITED SPEAKERS

Steve Balbus (University of Oxford, UK)

Roger Blandford (Stanford University, US)

John Carlstrom (University of Chicago, US)
Bill Forman (CfA, Cambridge, US)
Semyon Gershteyn (IHEP, Protvino, Russia)
Eiichiro Komatsu (MPA, Garching, Germany)
Shri Kulkarni (Caltech, Pasadena, US)
Avi Loeb (Harvard University, US)
Malcolm Longair (Cambridge University, UK, TBC)
Piero Madau (UC Santa Cruz, US)
Chris McKee (UC Berkeley, US)
Slava Mukhanov (LMU, Munich, Germany)
Lyman Page (Princeton University, US)
Jean-Loup Puget (IAS, Université Paris Sud, Orsay, France)
Martin Rees (Institute of Astronomy, Cambridge, UK)
Joe Silk (University of Oxford, UK)
Alexey Starobinskiy (Landau Institute, Chernogolovka, Russia)
James Stone (Princeton University, US)
Alex Szalay (Johns Hopkins University, Baltimore, US)
Scott Tremaine (Institute for Advanced Study, Princeton, US)
Dmitriy Varshalovich (Ioffe Institute, Saint Petersburg, Russia)

REGISTRATION, ABSTRACT SUBMISSION AND FEE

Pre-registration for the conference has been open since mid-2013. Both pre-registered and new participants are now encouraged to submit abstracts of their proposed presentations at the conference site.

The registration fee is 15,000 rubles. It has to be paid in cash during the conference. The fee includes the costs of the coffee/tee and refreshments during breaks, welcome cocktail, conference dinner and one excursion during the conference. There is a fee of 7,000 rubles for accompanying persons, which covers the welcome cocktail, conference dinner and one excursion during the conference.

VISA SUPPORT

Citizens from many countries need a visa to enter the Russian Federation. The LOC will provide invitation letters. Further details on visa support will be provided at the conference site.

IMPORTANT DATES

- * January 15th, 2014: Call for abstracts
- * February 15th, 2014: Deadline for abstract submission
- * March 15th, 2014: Release of preliminary scientific program
- * March 15th, 2014: Deadline for submission of information for visa support
- * June 16-20, 2014: Conference

TRAVEL AND ACCOMMODATION

Moscow is well connected with major cities across the world via its three airports: Domodedovo, Sheremetyevo and Vnukovo. All three airports are located outside of Moscow and connected with the city center via express trains. IKI is located several underground (Metro) stations from downtown. Further information on travel and accommodation possibilities will be posted at the conference site.