



STARS2015

Third Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics

10 - 13 May 2015, Havana, Cuba

SMFNS2015

Fourth International Symposium on Strong Electromagnetic Fields and Neutron Stars

13 - 16 May 2015, Varadero, Cuba

SECOND CIRCULAR

Havana, 17 November 2014

Dear Colleague

The Third Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics (3rd STARS2015) will be held from the 10th to the 13th of May 2015, in the [Hotel Capri](#), Havana, Cuba, followed by the Fourth International Symposium on Strong Electromagnetic Fields and Neutron Stars (4th SMFNS2015), to take place from the 13th to the 16th of May 2015 in the [Hotel Meliá Marina Varadero](#), Cuba. The events are the third and the fourth in a series of meetings gathering scientists working on astrophysics, astroparticle physics, cosmology, gravitation, nuclear physics, and related fields. As in previous years, the meeting sessions will consist of invited and contributed talks and will cover recent developments in the following topics: **STARS2015** – new phenomena and new states of matter in the Universe, general relativity, gravitation, cosmology, heavy ion collisions and the formation of the plasma of quarks and gluons, white dwarfs, neutron stars and pulsars, black holes, gamma-ray emission in the Universe, high energy cosmic rays, gravitational waves, dark energy and dark matter, strange matter and strange stars, antimatter in the Universe, and topics related to these. **SMFNS2015** – strong magnetic fields in the Universe, strong magnetic fields in compact stars and in galaxies, ultra-strong magnetic fields in neutron star mergers, quark stars and magnetars, strong magnetic fields and the cosmic microwave background, and topics related to these.

We report that the proceedings of the meetings STARS2013 and SMFNS2013 were published in ASTRONOMISCHE NACHRICHTEN (AN) (<http://onlinelibrary.wiley.com/doi/10.1002/asna.v335.6/7/issuetoc>) the oldest publication in the field of astronomy still active. Albert Einstein has published in AN some of his seminal articles.

FEES. Please notice that a registration fee is required for all participants. The registration fee, to be charged as a single fee for both events, in the reception counter of the conferences, in cash, is **320 Euros**. Registration fee will cover local transportation, lunches and coffee breaks during the meeting sessions for the participants. The payment of fees will additionally entitle each participant to receive the book of abstracts and other promotional materials.

INVITATION LETTER. Participants that need an invitation letter for the participation in the events are kindly asked to require it when filling the registration form which is available in the website <http://indico.cern.ch/event/stars2015>. In view of our funding limitations, we strongly recommend that participants request financial support from their research institutions or any other agency for promotion of research. For hotel reservation: please contact Mr. Liuver Ramírez Laurencio, Departamento Turismo Especializado, Agencia de Viajes Gaviota Tours S.A. Phone: (53)(7) 207-9483, 207-9466. Fax: (53)(7) 204-4111. E mail: comercial4.te@gaviotatours.cu.

PROCEEDINGS AND BOOK OF ABSTRACTS. Details about the proceedings will be announced soon on our website. We ask participants to send, as soon as possible, the abstracts of their contributions in order to be included in the conferences abstract book. **The deadline for receipt of the abstracts is: 15/03/2015.**

SCIENTIFIC PROGRAM. Going beyond the scientific program conventionally adopted in our meetings (invited lectures, contributed talks, poster sessions), we intend:

1. To celebrate the 100th anniversary of Albert Einstein's full formulation of the theory of general relativity. We wish to organize a special session in honor of Albert Einstein and celebrate his theory as well as his visit to Cuba. This session will consist of reviews of current research frontiers in physics, astrophysics, astronomy and cosmology that are impacted by general relativity and an historical examination of the development of the theory and its integration into mainstream physics. Further details will be announced soon. If you have



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any proposal in this regard please let us know. Dr. **ROBERTO A. SUSSMAN** (sussman@nucleares.unam.mx) is in charge of this part of the scientific programming.

2. To organize special sessions devoted to the laboratories, observatories, telescopes and other experimental and observational facilities that will define the future directions of astrophysics, astronomy, cosmology, nuclear and astroparticle physics as well as the future of physics at the energy frontiers, namely: LHC , GSI, FAIR , Pierre Auger Observatory, GEO600, LIGO, VIRGO, LISA, NASA, CHANDRA X-Ray Observatory, WM Keck Observatory, Hubble Space Telescope, Spitzer Space Telescope, Large Binocular Telescope Observatory, Fermi Gamma Ray Space Telescope, Gran Telescopio Canarias, Kepler Mission, Atacama Large Millimeter/Submillimeter Array, The James Webb Space Telescope, Giant Magellan Telescope, Thirty Meter Telescope, HESS, IceCube Neutrino Observatory, HAWK, XMM-Newton, RIKEN, JINR , FIAS, JINA-CEE, NAVI. If you have any suggestion about this part of the scientific program or any addition of a scientific facility to this list, please let us know. Dr. **CAROLA DOBRIGKEIT CHINELLATO** (carola@ifi.unicamp.br) is in charge of this part of the scientific programming.

Attached please find a preliminary version of the poster of the events. Additional information about the conference venues, timetable, registration, list of participants, local transportation (airport/hotel/airport and Havana/Varadero/Havana), call for abstracts, contribution list, travel, accommodation, VISA, can be found in the website of the events: <http://indico.cern.ch/event/stars2015>.

We cordially invite you to attend and contribute to the meetings. Best regards and please do not hesitate to contact us via the official e-mail stars2015smfns@gmail.com.

Aurora Pérez Martínez (Co-Chair)

Hugo Pérez Rojas (Co-Chair)

Ricardo González Felipe (Co-Chair)

Cesar Zen Vasconcellos (Chair)

On behalf of the STARS2015/SMFNS2015 Organizing Committee