



### THIRD CIRCULAR – STARS2017 / SMFNS2017

Havana, 12 January, 2017

Dear Colleague

#### This message refers to the meetings:

- 4th Caribbean Symposium on Cosmology, Gravitation, Nuclear and Astroparticle Physics – STARS 2017 which will be held on Havana, Cuba, from 7 to 9 of May 2017, and
- 5th International Symposium on Strong Electromagnetic Fields and Neutron Stars – SMFNS 2017, which will be held in Varadero, Cuba from 10 to 13 of May.

#### Topics of the meetings:

- **STARS2017** – New phenomena and new states of matter in the Universe, general relativity, classical gravitation, quantum gravity, cosmology, heavy ion collisions and the formation of the quark-gluon plasma, white dwarfs, neutron stars and pulsars, black holes (theory and observations/experiments), boson stars, gamma-ray emission in the Universe, high energy cosmic rays, gravitational waves, gravitational lensing, dark energy and large scale structure, dark matter, strange matter and strange stars, antimatter in the Universe, and topics related to these.
- **SMFNS2017** – Strong magnetic fields in the Universe, strong magnetic fields in compact stars and in galaxies, ultra-strong magnetic fields in neutron star mergers, neutron stars, quark stars and magnetars, strong magnetic fields and the cosmic microwave background, gamma ray bursts, and topics related to these.

**Scientific Program.** The Scientific Program of STARS 2017 and SMFNS 2017 will contemplate:

- invited lectures, contributed talks and poster sessions.
- the WALTER GREINER PRIZE which will be offered to the best three students' posters.
- Special sessions: going beyond the scientific program conventionally adopted in our meetings, we intend also to organize special sessions devoted to:
  - the laboratories, observatories, telescopes and other experimental and observational facilities, present and future, 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<sup>1</sup>.

<sup>1</sup> Namely - **EXPERIMENTS:** BaBar Experiment; DUNE - Deep Underground Neutrino Experiment. **GRAVITATIONAL WAVE OBSERVATORIES AND DETECTORS:** GEO600 - GEO600 Gravitational Wave Detector; LIGO - The Laser Interferometer Gravitational-Wave Observatory; LISA - Gravitational-Wave Observatory; NA61/SHINE/CERN Detector; VIRGO - Virgo Detector for Gravitational Waves. **LABORATORIES:** FERMILAB – Fermi National Accelerator Laboratory. **PARTICLE ACCELERATORS:** FAIR - Facility for Antiproton and Ion



- o to the discovery of the Higgs boson, and to the recent discoveries of gravitational waves and of the source of PeV accelerators (PeVatrons) of cosmic rays in the center of the Galaxy.

Researchers that need an invitation letter for the participation in the events are kindly asked to require it when filling the registration form which will be soon available to the participants. In view of our limited financial resources, we strongly recommend that participants request financial support from their research institutions or any other agency for promotion of research.

Soon we hope to have information regarding the publication of the proceedings of the meetings. Once we have this information we will inform the participants.

We would be much honored to have your participation in the events STARS 2017 and SMFNS 2017. For more information about the events (Overview, Conference Venues, Timetable, Registration, Participant List, Travel Information, Accommodation, Latest News), please visit our website: <https://indico.cern.ch/event/542644/>

Best Regards  
The Organizing Committee  
STARS 2017 / SMFNS 2017

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Research; LHC – The Large Hadron Collider; NICA - Nuclotron-Ion Collider Accelerator. **OBSERVATORIES, EXPLORERS AND TELESCOPES:** 4MOST - 4-metre Multi-Object Spectroscopic Telescope; Atacama Large Millimeter/Submillimeter Array; CHANDRA X-Ray Observatory; CTA - Cherenkov Telescope Array; E-ELT – ESO - European Extremely Large Telescope/European Southern Observatory; VLT – ESO – Very Large Telescope/European Southern Observatory; Fermi Gamma Ray Space Telescope; Giant Magellan Telescope; Gran Telescope Canarias; HESS - High Energy Stereoscopic System; Hubble Space Telescope; James Webb Space Telescope; Kepler Mission; Large Binocular Telescope Observatory; MAGIC - Major Atmospheric Gamma Imaging Cherenkov; NICER - Neutron Star Interior Composition Explorer; Pierre Auger Observatory; SKA – The Square Kilometer Array; Spitzer Space Telescope; Thirty Meter Telescope; VERITAS - Very Energetic Radiation Imaging Telescope Array System; WM Keck Observatory. **SCIENTIFIC ORGANIZATIONS:** CERN - European Organization for Nuclear Research; DESY - Deutsches Elektronen-Synchrotron; FIAS - Frankfurt Institute for Advanced Studies; GSI - Helmholtz Centre for Heavy Ion Research; ICRANet – International Center for Relativistic Astrophysics Network; ISA - Italian Spatial Agency; JINR - Joint Institute for Nuclear Research; JINA-CEE - Joint Institute for Nuclear Astrophysics - Center for the Evolution of the Elements; NASA - National Aeronautics and Space Administration; NAVI - Nuclear Astrophysics Virtual Institute; RIKEN Research Institution; IceCube Neutrino Observatory; HAWK, XMM-Newton. 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.