

# **IV RUSSIAN-SPANISH CONGRESS: Particle, Nuclear, Astroparticle Physics and Cosmology**



**Monday, 4 September 2017 - Friday, 8 September 2017**

## **Scientific Programme**

The following topics will be within the scope of the Workshop:

**- Strong interactions of hadrons at high energies accessible on Large Hadron Collider.**

**- Relativistic Heavy Ion Physics on LHC and RHIC and predictions of new phases in hot and dense nuclear matter.**

**- Low and intermediate energy hadron physics: effective Lagrangians and realizations of CP breaking.**

**- AdS/CFT and AdS/QCD correspondence in Quantum Field and String Theory and Holographic models of Strong Interactions.**

**- Search for Physics beyond the Standard Model at ultra-high energies both on colliders and on space located installations.**

**- Modern Cosmology, Dark Energy and theoretical implications on Extra Space dimensions and deviations from Newtonian dynamics.**

**- Dark Matter in the Universe and Axion manifestation.**

**- Integrability in Quantum Mechanics and Quantum Field Theory.**

**- Nuclear physics of neutron rich nuclei.**