

Scientific Objectives of International Conference on Gravitation and Cosmology the fourth Galileo-Xu Guangqi meeting

This International Conference on Gravitational and Cosmology the fourth Galileo-Xu Guangqi meeting will be held in the Kavli Institute for Theoretical Physics China at the Chinese Academy of Sciences (KITPC), Beijing on May 4-8, 2015 for celebrating the 100th anniversary of the Einstein Equations, the International Year of Light 2015 and the Golden Jubilee of relativistic astrophysics. It represents a CAS-TWAS-ICRA-ICRANet's collaboration with University of Roma "Sapienza", University of Nice "Sophia Antipolis", Stockholm University, Free University of Berlin, University of Bremen, ICRA, ENEA, INFN, ICTP, Observatoire de la Cote d'Azur, CBPF, the National Astronomical Observatories, the Purple Mountain Observatory, the Shanghai Astrophysical Observatory, the Yunnan Observatories, the Institutes of High Energy Physics, the Institute of Theoretical Physics, the University of Science and Technology of China (the Chinese Academy of Sciences), the Tartu Observatory, the Vatican Observatory, the Tsinghua University, the Peking University, the Beijing Normal University, the Leung Center for Cosmology and Particle Astrophysics, the Kavli Institute for Theoretical Physics at the Chinese Academy of Sciences, the Kavli Institute for Astronomy and Astrophysics at Peking University, the Chinese Physics and Astronomical Societies, the China Center of Advanced Science and Technology, TWAS. The meeting is particularly dedicated to recall the roots of the modern scientific research in the East and the West and review the recent progress in one of the most advanced fields of scientific research: the one of relativistic astrophysics. We will review current progress in Relativistic Astrophysics made possible by astronomical observations of the Sun, of the Stars and of the Universe, and the current developments of theoretical studies of gravitation and cosmology as well as other fundamental physics. These results have been achieved thanks to the theories of Albert Einstein and to the unprecedented numbers of observational techniques: in X-ray, Gamma-ray, optical wave-lengths from space based observatories, in radio telescopes wavelengths from telescopes on the ground as well as in particle physics from underground observatories.

The International Conference on Gravitational and Cosmology the fourth Galileo-Xu Guangqi meeting follows the 1st, 2nd and the 3rd meeting of this series held on October 2009 in Shanghai - China (<http://www.icranet.org/galileo-xuguangqi>), on July 2010 in Ventimiglia - Italy and Nice - France (http://www.icranet.org/2nd_galileo-xuguangqi) and on October 2011 in Beijing - China (<http://www.icranet.org/3gx>). The goal is to create a forum for strategic exchanges between eastern and western science at the highest level dealing with relativistic astrophysics and related fundamental theoretical, experimental and observational fields. The aim is to enlarge the audience from the one strictly Chinese and Italian to one embracing European and western scientific interests and the eastern ones. Therefore a broader participation from Korea and Taiwan is encouraged, as well as a participation of scientists from Europe and the Americas.

The name of Xu Guangqi (Xu Guangqi - Wikipedia, the free encyclopedia), the collaborator of Matteo Ricci (Ri Ma Dou) (Matteo Ricci - Wikipedia, the free encyclopedia), celebrates his most extraordinary activities in bringing to China the works of Euclid and Galileo and his strong commitment to the process of modernization and scientific development of China. We are looking for an international meeting of 274 participants, 137 from Asia and 137 from the rest of the Planet. The meeting is organized by an international organizing committee and a local organizing committee.