



FOREWORD

This regular issue of the journal contains the publication of reports of the 14-th International Gamow Conference-School: “Astronomy and beyond: Astrophysics, Cosmology, Cosmophysics, Astroparticle Physics, Radioastronomy, and Astrobiology”.

The Conference-School was devoted to 110-th anniversary of George Gamow, a prominent physicist and astrophysicist of XX century. George Gamow was born in Odessa, where he studied at high school and University, and where he became interested in physics and astronomy.

The theory of alpha and beta decay and nuclear reactions as the basis of stellar energy, the hot Universe model with the prediction of the CMB and the expansion of the Universe, deciphering the genetic code, all this showed the breadth and universality of his method of research.

The Gamow's annual conference-schools have become an attractive meeting place for scientists of different ages and scientific fields. The topics of the conference reflects modern advances in cosmology, astrophysics, gravitation, high energy and astroparticle physics, and in the study of the Sun and the solar system.

Among the undoubted achievements of the George Gamow jubilee year is the first in the history of mankind landing of the probe Philae on the nucleus of the comet Churyumov-Gerasimenko, which contains the primary matter of the solar system.

M.I.Ryabov, A.I.Zhuk