
UKRAINIAN CONFERENCE ON PLASMA PHYSICS AND CONTROLLED FUSION – 2007

These two special issues of the Ukrainian Journal of Physics (No.4 and No.5) contain a cluster of full-length peer-reviewed papers from the Ukrainian Conference on Plasma Physics and Controlled Fusion – 2007.

The mentioned conference took place in Kyiv at the end of September 2007. It was organized by the Institute for Nuclear Research (KINR) and the M.M. Bogolyubov Institute for Theoretical Physics (BITP) of the National Academy of Sciences of Ukraine (NASU) and supported by the NASU and the Fundamental Researchers State Fund (FRSF).

Previous conferences in this series were held in Kyiv by the Institute for Nuclear Research (1992, 1994, 1997, 1999) and by the National Scientific Center “Kharkiv Institute of Physics and Technology” (KIPT) in Kharkiv (1993, 1995) and Alushta (1998, 2000). This conference actually renewed a series of the national conferences on plasma physics and controlled fusion.

Leading scientists from the Institute of Gas of the NASU, Institute of Space Research of the NASU and the National Space Agency of Ukraine, M.M. Bogolyubov Institute of Theoretical Physics of the NASU, Institute of Physics of the NASU, Institute for Nuclear Research of the NASU, T.G. Shevchenko Kyiv National University (KNU), V.N. Karazin Kharkiv National University (KhNU), and the National Scientific Center KIPT took part in the conference.

The Program Committee of the conference included the following members:

Ya.I. Kolesnychenko – Chairman (KINR)
M.O. Azarenkov (KhNU)

I.O. Anisimov (KNU)
I.M. Vyshnevskiy (KINR)
A.G. Zagorodny (BITP)
O.M. Egorov (KIPT)
G.S. Kyrychenko (KINR)
B.R. Kyyak (FRSF)
V.V. Lutsenko – Scientific Secretary (KINR)
V.I. Miroshnychenko (Institute of Applied Physics)
I.M. Onyshchenko (KIPT)
I.O. Soloshenko (IP)
K.M. Stepanov (KIPT)
V.I. Tereshin (KIPT)
V.T. Tolok (KhNU)
Yu.V. Yakovenko (KINR)

A wide spectrum of the results of theoretical and experimental studies carried out by Ukrainian plasma physicists was presented at the conference. The major research directions and topics covered by the conference program were as follows: physics of plasmas in helical magnetic traps – stellarators and torsatrons, as well as in axisymmetric systems – tokamaks and spherical tori; problems of fusion reactors; various plasma technologies; plasma electronics; new methods of the particle acceleration; general issues of high-temperature and low-temperature plasmas; and physics of space plasmas.

This conference will promote the further progress in researches on plasma physics and controlled fusion in Ukraine.

Organizing Committee

