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Preface

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PREFACE

The meeting dedicated to the memory of Academician Ya. B. Zeldovich was held from November 5 to November 7, 1992 at the Astronomical Institute of the Moscow University joining more than 150 participants from the Commonwealth of Independent States and far abroad.

Director of the Astronomical Institute Professor A. M. Cherepashchuk, President of the International Astronomical Union Academician A. A. Boyarchuk, Vice-President of the European Astronomical Society Academician R. A. Sunyaev, co-chairman of the Astronomical Society of the former USSR Professor N. G. Bochkarev and Professor E. E. Salpeter opened the meeting. Many good words of Ya. B. Zeldovich, well-known cosmologist and physicist, were said. It was mentioned that for promotion of the nomination of Ya. B. Zeldovich for the Nobel Prize by R. Mössbauer, the question is discussed whether he should be better nominated as a physicist or as a chemist. S. Hawking compared Ya. B. Z. with BURBAKY since he contributed so much in different fields of science from physics of burning to elementary particle physics. The subjects of the talks were: cosmology, physics of elementary particles, compact objects, magnetohydrodynamics, nuclear astrophysics, large-scale structure of the Universe.

A review of the scientific activities of Ya. B. Zeldovich was presented by S. S. Gershtein. On behalf of the team from IKI, R. A. Sunyaev talked about new results from the orbital X-ray observatories “Granat” and “Kvant”. Their data, being pioneering ones, refer to the sources of the annihilation line near the Galactic centre, Nova Muscae, etc. I. D. Novikov talked about his recent results related to supercomputer simulations of the destruction of different types of stars near a massive ($M > 10^6 M_\odot$) black hole.

I. F. Mirabel (France) talked about the observations in radio-range of a “microquasar” in the Galactic Center. During the first day of the meeting, all the reports were related mainly to compact objects (V. G. Kurt, N. I. Shakura, V. M. Lipunov, A. I. Tsygan, G. S. Bisnovatyi-Kogan and A. M. Cherepashchuk). The second day was devoted to cosmology and it began with a review of A. A. Starobinsky about the inflationary Universe and the Harrison–Zeldovich spectrum of fluctuations. All branches of cosmology from the early Universe (K. Ghoroku (Japan) and L. P. Grishchuk) to the evaporation of primordial black holes (B. Carr (England) and A. Polnarev) were discussed at the meeting. I. A. Strukov noted that the results of COBE on the detection of the fluctuations of the relic radiation at scales $\sim 7^\circ$ should be analyzed more carefully than it had been done by some cosmologists. The results of the COBE experiment have systematic errors but after the subtraction of them there is a good correlation with earlier results of Relict-1 in the 8 mm-channel. Of course, both results need a confirmation. E. E. Salpeter and M. Yu. Khlopov discussed the dark matter in the Universe. Large scale structures in the Universe were discussed by F. Bouchet (France), B. V. Komberg, Yu. V. Baryshev.

The third day was opened by a review talk of M. I. Vysotsky about the modern status of elementary particle physics. A. A. Ansel'm, Yu. N. Gnedin and V. P. Vorob'ev devoted their reports to the Higgs and Goldstone bosons. V. B. Braginsky spoke about gravitational experiments in the Moscow University and at the other institutions. The evening session of the third day was dedicated to magneto-hydrodynamics (N. A. Inogamov, V. M. Chechetkin) and some other problems of astrophysics. A remarkable report of R. West (Germany) about the achievements of optical astronomy at the Southern European Observatory in Chile was presented on November 7. With a CCD camera, small planets in the Solar system, Galactic Center, etc. have been resolved. Every speaker at the meeting whose papers were connected with ideas of Ya. B. Zeldovich or with their consequences mentioned his name. Poster sessions offered a wide possibility to present new results to all interested participants. A review of the posters was done by S. M. Kopeikin.

A selection of the main papers of Yakov Borisovich Zeldovich was presented in the hall of the Astronomical Institute. On November 8 many participants came to the Novodevichje cemetery to the monument of Ya. B. Zeldovich.

We hope that similar meetings dedicated to the memory of great Russian scientists will be held in future.

V. V. Burdyuzha
Chairman, Local Organizing Committee



Academician Ya. B. Zeldovich