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IN MEMORY OF GENNADY MYKHAILOVYCH ZINOVJEV (18.04.1941–19.10.2021)



On October 19, 2021, the famous theoretical physicist, the Head of the Department of High-Density Energy Physics of the Bogolyubov Institute for Theoretical Physics, the Corresponding Member of the National Academy of Sciences of Ukraine, Dr.Sci. in physics and mathematics, Professor Gennady Mykhailovych Zinovjev passed away at the age of 80.

G.M. Zinovjev graduated from the Faculty of Physics of the Dnipropetrovsk (now Dnipro) State University and post graduated from the Joint Institute for Nuclear Research (JINR) in Dubna. After defending his Ph.D. dissertation at the Laboratory of Theoretical Physics of the JINR in 1967, he began to work at the Institute for Theoretical Physics of the National Academy of Sciences of Ukraine. In 1985, G.M. Zinovjev became the Head of the Department of High-Density Energy Physics, the creation of which initiated a new direction in physics in Ukraine. Since then, the scientists of the department are working in cooperation with international centers for studying the collisions of relativistic hadrons and heavy ions.

During more than 50 years of his scientific activity, G.M. Zinovjev made important contributions to various branches of high-energy physics, from analytic and perturbative quantum chromodynamics to phenomenology. In the recent decades, he together with his disciples and colleagues focused attention on such challenging problems as statistical meth-

ods for describing the multiparticle systems, relativistic nuclear-nuclear collisions, exact solutions of the deconfinement model, the phase transition in the hadronic and quark-gluon matter, and quantum chromodynamics on a lattice. His last works concerned the synchrotron radiation that arises, when quarks interact with the collective confinement field at collisions of relativistic heavy ions. The model solutions were compared with experimental data, and the conclusion was drawn that such radiation can be registered experimentally.

G.M. Zinovjev had good managerial abilities. In the mid-1990s, he made significant efforts to establish cooperation with the European Organization for Nuclear Research (CERN). In 2011–2013, G.M. Zinovjev was the Deputy Chairman of the ALICE Collaboration Council at CERN and played a key role in that Ukraine became an associate member of CERN in October 2013. With his participation, the main components of the Inner Tracking Systems ITS-1 and ITS-2 for the ALICE experiment were created. For many years, he was a member of the JINR Academic Council, as well as one of those who proposed the project of the nucleotron collider NICA at the JINR. G.M. Zinovjiev initiated the creation of a grid infrastructure in Ukraine for researches in physics, chemistry, biology, and medicine.

His role as a lecturer and mentor was also significant. His disciples, who passed through his rigorous school, now work in research laboratories of various countries. He gained the great respect and unconditional authority among his colleagues around the world. We will keep a good memory of this bright man and a wonderful scientist in our hearts.

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