

**Program of the Workshop  
“Problems of theoretical physics”,  
held in memory of  
Academician of NAS of Ukraine A.I. Akhiezer (1911-2000)  
November 04, 2021**

**Conference hall of NSC KIPT, Akademicheskaya St. 1, Pyatikhatki, Kharkiv**

Chairman: Academician of NASU Yury Slyusarenko

10:00-10:20 Welcoming addresses

— Anatoly Zagorodny, NASU President

— Vadym Loktev, Academician-secretary of the Department of Physics and Astronomy

10:20-10:40 «A.I.Akhiezer scientific biography»

speaker Acad. NASU Mykola Shulga

10:40-11:00 «From the scientific heritage of academician A.I.Akhiezer: “Plasma Electrodynamics”»

speaker Acad. NASU Anatoly Zagorodny

11:00-11:20 «H-crisis in cosmology»

speaker DSci Yury Bolotin (NSC KIPT)

11:20-11:40 «New intriguing results of LHC in 2021»

speaker Corr. member of NASU DSci Alexander Korchin (NSC KIPT)

11:40-12:00 Break

Chairman: DSci Yury Bolotin

12:00-12:20 «Perspective fast reactor in the slow nuclear burning wave mode»

speaker PhD Sergey Fomin (NSC KIPT)

12:20-12:40 «The role of boundary conditions for magnetized quantum matter in bounded spaces»

speaker Corr. member of NASU Prof. Yury Sitenko (Bogolyubov ITP)

12:40-13:00 «Lectures by AI in general physics. Reminiscence of the eyewitness student who has not missed any»

speaker acad. NASU Yury Slyusarenko (NSC KIPT)

13:00-13:20 «Development of theory of fast charged particle Coulomb scattering in matter»

speaker DSci Mykola Bondarenko (NSC KIPT).

13:20-13:40 «Quantum systems of many particles and spin-wave approaches»

speaker DSci Andrey Sotnikov (NSC KIPT)