

Physics–Uspekhi

Advances in Physical Sciences



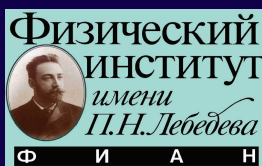
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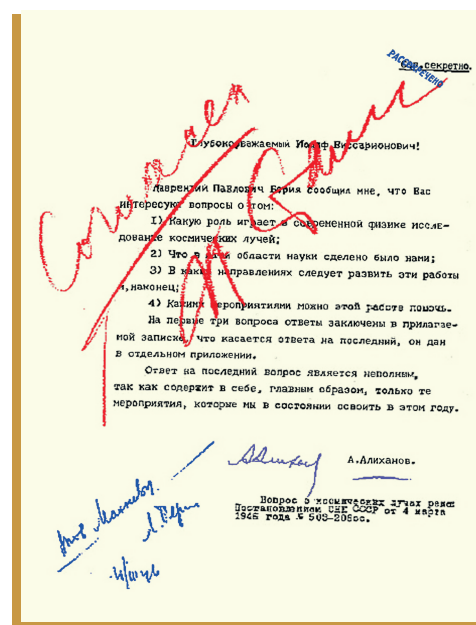
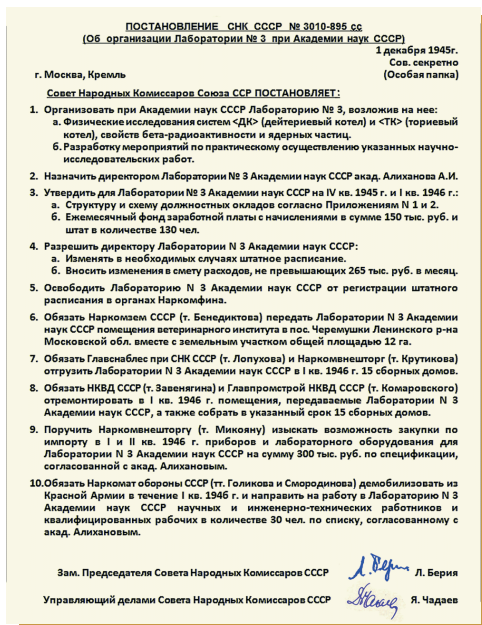
70th ANNIVERSARY OF THE A I ALIKHANOV INSTITUTE FOR THEORETICAL AND EXPERIMENTAL PHYSICS (ITEP)



The Institute for Theoretical and Experimental Physics (ITEP) turned 70 in December 2015. It was set up as Laboratory No. 3 of the USSR Academy of Sciences (USSR AS) by Decree No. 3010-89ss of the Council of People's Commissars of the USSR of December 1, 1945. Later, the laboratory received the name TTL (Thermal Technology Laboratory) of the USSR AS. The present name was given to the institute by Resolution No. 730 of the Presidium of the USSR AS of November 21, 1958. The inspiring and creative atmosphere at the institute, which was fostered by ITEP founder academician A I Alikhanov, has attracted many outstanding scientists, including L D Landau and his pupil I Ya Pomeranchuk, who took over the Theoretical Department of ITEP from his teacher in 1946.

The USSR's (and Europe's) first heavy-water research reactor was commissioned in 1949 at ITEP. Beginning in 1952, A I Alikhanov and V V Vladimirkii would promote the idea of constructing high-energy accelerators in the USSR. A I Alikhanov pioneered work to design and construct a 7-GeV proton accelerator at ITEP and the 70-GeV Serpukhov accelerator. V V Vladimirkii supervised the work on the projects of the then largest proton synchrotrons with alternating-gradient focusing.

A meeting of the Scientific Council of the institute dedicated to the celebration of the 70th anniversary of ITEP was held on March 4, 2016. In his opening address, ITEP Director V Yu Egorychev briefly enumerated the main milestones in the history of the institute and its main scientific achievements. Heard next were reports from leading scientists at the institute. Greetings from the Institute for High Energy Physics (IHEP) were read out by its director, S V Ivanov, who spoke about different periods of the interaction and cooperation of the two institutes — ITEP and IHEP. Representatives of the administration of the National Research Center Kurchatov Institute who attended the meeting warmly greeted the ITEP team. In publishing in this issue (see p. 869–911) reviews of the results of several investigations carried out at ITEP, the Editorial Board of the journal *Uspekhi Fizicheskikh Nauk (Physics–Uspekhi)* cordially wishes all ITEP staff members all the best on this jubilee and hopes that they find new outstanding success in their work.



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