

RESOLUTION
of the International Conference
“CERN-Ukraine Cooperation: Current State and Prospects”

The International Conference **“CERN-Ukraine Cooperation: Current State and Prospects”** (Kharkiv, 15-17 May, 2018) was organized by the National Academy of Sciences of Ukraine and the Ministry of Education and Science of Ukraine, following the decision of the Ukrainian Coordination Committee on the CERN-Ukraine cooperation. The main goal was to review the state-of-the-art of the High Energy Physics in Ukraine, to advance CERN-Ukraine cooperation in science and technology, and to address future challenges in particle physics at the frontiers of research.

The conference has attracted 70 participants from more than 10 research institutes and universities of Ukraine and 9 representatives of the CERN management and CMS, LHCb, ALICE, SHIP and CLIC collaborations. The following organizations are among the active participants of the CERN experiments: NSC “Kharkiv Institute for Physics and Technology, Bogolyubov Institute for Theoretical Physics, Institute for Scintillation Materials (ISMA), Institute of Applied Physics, Kiev Institute for Nuclear Research, Taras Shevchenko National University of Kyiv, V.N.Karazin Kharkiv National University, Oles Honchar Dnipro National University, Odessa I.I.Mechnikov National University.

The participants of the conference would like to express their sincere gratitude to the Institute for Scintillation Materials and Kharkiv Institute of Physics and Technology for their warm hospitality and excellent level organization of the event. The content of the conference was well-balanced, with a very good and diverse set of speakers, and addressed many topics of interest for the HEP community.

The participants of the Conference adopt the following resolution:

1. Fundamental science has a vital role to play in today’s competitive world and lays the long-term foundation for innovation and prosperity. Taking into account scientific importance and fundamental character of the research work at CERN, the international cooperation with CERN is among the top-level scientific priorities for Ukraine. The status of the Associate Membership of Ukraine at CERN has a potential to further advance collaborative projects in science and technology with CERN.
2. The conference has demonstrated high level of research carried out by the Ukrainian HEP community, despite of the current difficulties with funding. The existing staff potential and still high research level in

selected branches of this field ensures a possibility that Ukraine-CERN cooperation can be mutually fruitful and beneficial.

3. Education of young scientists is among the top priorities at CERN. The professional skills of young researchers in Ukrainian universities could be further developed through the international component of the education process (students' and lecturers' trainings at CERN, participation in CERN educational programs etc.), and requires sufficient financial resources to be allocated for the education of the next generation of scientists.
4. The French-Ukrainian LIA covers R&D and optimization of innovative technologies for the experiments at the particle accelerators and development of accelerator techniques. Joint contribution to the CERN experiments is pursued within the LIA projects and provides additional opportunity for integration of Ukrainian research community into CERN experiments.
5. The available financial support of the research in high-energy physics is obviously insufficient. Taking into account the needs of the institutions and universities, the required amount of money is about 30 million UAH.
6. There is no doubt that the cooperation with CERN should be further enhanced. It will favor the progress both in fundamental science and in the technological fields, especially microelectronic instrument making, medical applications of radiation technologies etc.
7. Taking into account enormous interest of the community in the conference on CERN-Ukraine cooperation, the proposal is to hold such conferences on a regular basis (e.g. once per two-three years).