

Programme Advisory Committee for Particle Physics

32nd meeting, 14–15 January 2010

Recommendations

III. Recommendations on the progress towards realization of the Nuclotron-M project

The PAC takes note of the report on the status of the Nuclotron-M project, presented by JINR Deputy Chief Engineer G. Trubnikov, and appreciates the significant progress in upgrading the VBLHEP accelerator complex and the rigorous implementation of the work schedule. The PAC is pleased to note that during the autumn run the obligations concerning the research programme were fulfilled and stable operation of the accelerator complex at high intensity was demonstrated.

IV. Recommendation concerning the report from the Chairman of the Nuclotron-M/NICA Machine Advisory Committee

The PAC takes note of the report by the Chairman of the Machine Advisory Committee (MAC) for the Nuclotron-M/NICA accelerator complex, Professor B. Sharkov and recognizes the significant progress in the realization of the Nuclotron-M project. The PAC expresses its gratitude to the MAC Chairman, members and experts for fulfilling an extremely important role in the project realization. The PAC especially notes that the expertise performed by the MAC has confirmed the feasibility of the NICA project. The PAC recommends preparing a project on realization of the next stage of the NICA complex construction and presenting it at a future PAC meeting.

V. Recommendations on the progress towards the NICA Technical Design Report

The PAC takes note of the report on the preparation of the NICA Technical Design Report, presented by JINR Deputy Chief Engineer G. Trubnikov, and notes the substantial progress in this work.

VI. Recommendations on the progress towards the MPD Conceptual Design Report

The PAC takes note of the report on the preparation of the MPD Conceptual Design Report, presented by VBLHEP Director V. Kekelidze.

The PAC notes with interest the progress of work on the MPD conceptual design and supports the basic ideology of the construction of the detector which will be unique in acceptance and efficiency for the registration of charged hadrons in the energy field under the study. The PAC supports the strategy of stage-by-stage construction of this detector

and notes the substantial progress in scrutinizing all basic elements. The PAC recommends preparing a project of the first-stage realization of the multipurpose set-up MPD — the starting stage — and presenting at its next meeting. The PAC recommends coordinating the work on the machine, the detector, and the physics goals and consolidating the collaboration also through external experts and advice.

VII. Recommendations on the progress towards the NICA White Paper

The PAC takes note of the report by BLTP Deputy Director A. Sorin on the ongoing preparation of the white paper for the NICA programme on the mixed phase and spin physics. The PAC notes the progress achieved in this direction and recommends continuation of the work to elaborate a competitive research programme in view of its complementarity with studies planned at CERN, RHIC, and FAIR.

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Chairperson of the PAC