

Draft Recommendations of the 55th Meeting of the PRC at DESY (7-8.5.2003)

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HERA

The PRC congratulates the HERA team for the progress in the operation of the machine and for the high level of longitudinal polarization achieved with the three pairs of spin-rotators and the experimental magnets switched on. The PRC acknowledges the efforts to understand the background and congratulates the HERA team, the experiments, the Background Committee and the Engineering Review Committee for the professionalism shown in planning the shutdown operations. The PRC understands that in spite of all these efforts there is still a certain degree of uncertainty in predicting the background level that will be achieved at start-up. The PRC agrees with the proposed start-up strategy that foresees a long period of optimization of the machine before starting data taking. The PRC understands that the experiments will adapt as much as possible to the background conditions in order to take data at high luminosity.

POL2000

The PRC congratulates the polarisation team for the installation of the cavity and for the results shown on the polarisation measurement at HERAII. The PRC takes note that the steering group of POL2000 will take actions in order to find the required level of support from the experiments for the smooth running of the polarimeters and the analysis of ist data.

H1

The PRC acknowledges the physics results presented and congratulates the Collaboration for the many contributions submitted to the DIS2003. The PRC takes note that the VFPS is installed, the CIP has been repaired and all 5 layers are operational, that part of BST electronics has been replaced with rad-hard components and that the hardware of for the fast track trigger is in place. The PRC also takes note of the comments by H1 that even under optimistic assumptions it appears difficult to complete the approved HERAII physics program by the end of 2006

ZEUS

The PRC acknowledges the physics results presented and congratulates the Collaboration for the many contributions submitted to the DIS2003. The PRC takes note of the good functioning of the MVD, of the successful repair of the SST in schedule and of the actions taken to repair the 6-m tagger. The PRC acknowledges the efforts done by the Collaborations to find new running conditions of the CTD that can stand higher backgrounds.

HERMES

The PRC acknowledges the physics results presented and congratulates the Collaboration for the overall good status of the experiment. The PRC takes note of the progress on many components of the Recoil Detectors and notices that the silicon tracker and especially the SciFi tracker have accumulated some delays. The PRC asks the Collaboration to explore corrective actions that could reduce this delay and to present a new schedule and an updated set of milestones. The PRC takes note of the comment by the Collaboration that it appears difficult to complete the approved physics program by the end of 2006.

HERAIII

The PRC congratulates the proponents for the studies presented in the EOIs, describing measurements that would provide a significant step in the understanding of the strong hadronic interactions. The PRC acknowledges the interest of high precision measurement of F_L , the investigation of the QCD radiation patterns over an extended range of η , the improved understanding of the parton distribution functions and agrees that many of the proposed measurements cannot be done at other existing or foreseen facilities. The PRC takes note that the present level of the theoretical understanding of QCD does not allow predictions of the proposed measurements at the level of the precision achievable by the experiments. The PRC rates the HERAIII program at lower priority compared to the Linear Collider program.

HERA-B

The PRC congratulates the Collaboration for the data taking with improved efficiency on the J/Psi trigger and for the preliminary results presented on the new data set. The PRC takes note of the decision of the Collaboration to not continue the data taking on the approved program after the shutdown and considers that the data taking of HERA-B is finished. New data taking with the spectrometer requires a new approved program. The PRC proposes that the detector stays on the beam line until the next shutdown of HERA provided that the Collaboration assures the support needed for the monitoring of the vacuum and for interventions on the detector that may be needed for HERA operations.

DEPFET

The PRC is impressed by the proposal to develop a pixel detector using the DEPFET principle for a precision vertex detector for the LC and recommends the R&D program for approval. Given the high potential of this technology, the PRC finds it important that it be developed in parallel to the alternatives using CCDs and MAPS. The PRC asks the Collaboration to provide a schedule for beam tests and studies of radiation tolerance and looks forward to a status report in Spring 2005.

CCD

The PRC takes note of the delay in the start of funding and concludes that - accounting for this delay - the achieved progress is significant in both vertex detector and performance studies and CCD R&D. The PRC recommends the continuation of the program and looks forward to a status report in Spring 2005.

MAPS

The PRC congratulates the Collaboration for the broad and rigorous R&D approach with important progress. The PRC recommends the continuation of the program and looks forward to a status report in Spring 2005.

SILC

The PRC takes note of the new proposal of a broad program of R&D on silicon detectors for LC. The PRC recommends for approval the one year long warm-up phase proposed by the Collaboration and invites the Collaboration to present for the next PRC a document with the distribution of responsibilities and specific planning. The PRC looks forward to studies of the performance with the proposed silicon layers that integrate also tracking with VXD and ECAL.

TPC

The PRC congratulates the Collaboration for the progress achieved in many areas of the project and looks forward to tests of large area prototypes of the three readout technologies in high magnetic field. The PRC recommends the continuation of the program and looks forward to a status report in Autumn 2004.