

Fermilab Accelerator Advisory Committee
December 12-14, 2001 Meeting

Charge (Rev. 15-Nov-01)

The December 2001 meeting of the Fermilab Accelerator Advisory Committee (AAC) will focus on the status of the Tevatron Collider Run II startup and the planning for Collider Run IIB. The AAC is asked to review the status of preparations and plans, to comment on their appropriateness, and to recommend the next steps, if any, in the following areas:

- **Run II Startup.** The committee is asked to review and comment on the commissioning/startup activities related to Tevatron Collider Run II. In particular we would like an assessment of the potential for achievement of a luminosity of approximately $5 \times 10^{31} \text{ cm}^{-2}\text{sec}^{-1}$ in the Tevatron over the next six months, identification of potential impediments, and any suggestions the committee might have on overcoming such impediments.
- **Run IIB Planning and Preparations.** The committee is asked to review and comment on planning and preparations for Run IIB as described in the Run IIB Technical Design Report and in the presentations at the committee meeting. We are requesting specific comments from the committee on: 1)the adequacy of the plan in supporting Run IIB performance goals ($\sim 15 \text{ fb}^{-1}$ delivered to each collider detector by the end of 2007); 2)areas of technical risk or uncertainty and their potential impact on performance goals; 3)accelerator or theoretical studies that could be undertaken to further characterize areas of uncertainty/risk; 4)alternative implementations that could minimize uncertainty/risk; and 5)the adequacy of the assigned resources to accomplish this task.

The AAC will also be presented with a short status report on R&D relating to our efforts on muons, VLHC, and linear colliders. This presentation is intended to be primarily informative and as such no specific comments are solicited at this time. However, any comments the committee might wish to make are welcome.

It is requested that a concise report responsive to this charge be forwarded to the Fermilab Director by January 15, 2002

AAC Agenda

December 12-14
Revision 15-November-2001

Wednesday, December 12

- 8:30 Executive Session (Willeke)
- 8:45 Welcome and Presentation of Charge (Holmes)

Run II Startup and Commissioning

- 9:00 Summary of Run IIA Commissioning and Schedule for the Next Year (Church)
- 9:25 Antiproton Source Performance and Plans (McGinnis)
- 9:50 Main Injector Performance and Plans (Kourbanis)
- 10:15 Break
- 10:30 Tevatron Performance and Plans (Martens)
- 11:00 Recycler Performance and Plans (Mishra)
- 11:30 Discussion
- 12:00 Lunch

Run IIB Planning and Preparations

- 1:00 Run IIB Overview (McGinnis)
- 1:30 Slip Stacking (Steimel)
- 2:00 Antiproton Collection (Lebedev)
- 2:30 Break
- 2:45 Lithium Lens Upgrade (Morgan)
- 3:15 AP2 & Debuncher Aperture (Gollwitzer)
- 3:45 Break
- 4:00 Accumulator Stochastic Cooling (Derwent)
- 4:30 Recycler Electron Cooling (Nagaitsev)
- 5:00 Executive Session
Requests for supplementary or breakout presentations on Thursday
- 7:00 Dinner

Thursday, December 13

Run IIB (continued)

- 8:30 Antiproton Transfers (Lebedev)
- 9:00 Tevatron Electron Lens (Shiltsev)
- 9:30 Run IIB Schedule and Cost (Montgomery)
- 10:00 Discussion
- 10:30 Break

Future Accelerator R&D

- 10:45 Overview of Future Accelerator R&D Activities (Holmes)
- 11:30 Discussion
- 12:00 Lunch

- 1:00 Supplementary presentations and/or breakout discussions as requested by the committee.
Committee Executive Session

Friday, December 14

- 8:30 Committee Executive Session
- 12:00 Working Lunch
- 1:00 Closeout