

Agenda for the LCTPC CB-meeting 1.7.2014

- 1) Opening of meeting
- 2) Approval of agenda
- 3) Presentation of updated MOA (Ron Settles)
- 4) Election/re-election of CB-chair (proposal in MOA)
- 5) Election/re-election of regional coordinators (proposal in MOA)
- 6) Election/re-election of members of the speakers bureau and chair (proposal in MOA)
- 7) Discussion on procedure for sending in proceedings and releasing reports. Specify the tasks of the editorial board (+other boards) in the MOA?
- 8) Request from Hubei University, China to join the collaboration
- 9) Approval of MOA
- 10) Revision of 'The most urgent problems to be addressed by the LCTPC collaboration' (from CB 2013)
- 11) Follow-up of the review
- 12) Discussion on criteria for technology choice (CB 2013)
- 13) Possible decision concerning:
 - a) silicon tracker
 - b) measurements with other sub-detectors
 - c) usage of a high field magnet
 - d) measurements at a hadron beam
 - e) issues which came up during the CM
- 12) Review of the financial status for the various subprojects (reports from the groups)
- 13) AOB
- 14) Closure of meeting

App. 9)

The most urgent problems to be addressed by the LCTPC-collaboration

- 1) Develop a simulation program that can reproduce the field distortions seen from the measurements.
- 2) Further development of Marlin TPC and better understanding of the data already taken.
- 3) Use this simulation program to design a field shaping system to minimize the distortions.
- 4) Design and test a grid system with high enough transparency for electrons.
- 5) Perform simulation of physics events to understand requirements on two track/two hit resolutions and develop codes to analyse events from detailed simulations and LP-data.
- 6) Investigate the possibilities to get access to a 4-5T magnet.
- 7) Address the problem of power pulsing.
- 8) Define what criteria should be used to make a technology choice.
- 9) Find an external position detector with sufficient resolution, get it working and install it. Alternatively give Alain green light to go ahead with an application to build a 10x10 cm² Si detector (has to happen before mid July).

App 11)

Criteria for technology choice:

- 1) Reliability in performance
- 2) Momentum resolution
- 3) Point resolution in bending plane and z-direction
- 4) dE/dx resolution
- 5) Two track resolution in bending plane and z-direction (definition has to be specified)