TWIST Collaboration Meeting Agenda

Friday, 26 January 2001

Note: This is not a design meeting. Please do not bring design issues to this meeting. In addition, we should not spend significant time on status reports. For this reason the agenda has been rewritten to focus on pending decisions and the NSERC review.

9:00 Introduction and status report - Nate
9:40 - Target module (design for April) – Robert
9:55 – Beam scintillator and veto (signals and logic) – Jean-Michel
10:10 - Magnet commissioning / alignment / mapping plans – John

10:30 – coffee

11:00 - Analogue units and delay cables – John Schaapman
11:30 - WC Commissioning - operating point - HV, Threshold, gas - Sun-Chong

12:00 - lunch (on your own)

13:00 - Beam tests - overview - Glen
13:15 - Optics - Jaap
13:45 - Background - Robert MacDonald
14:15 – Pattern Recognition - Art
14:45 – DAQ - Renee

15:00 – Coffee

15:30 – Computing needs – Renee

NSERC Review; Initial discussion. Speakers should introduce the discussion and should prepare a detailed written response. A draft version should be posted by Tuesday, January 30, 2001.

16:00 – What are the risks in using DME? What would be the loss in performance in using a CO2 based gas? - Openshaw

16:30 – Can TRIUMF provide a smaller 1AT1 target and are any other target modifications needed? What are the benefits to tailoring the shape of the target? Can we do that? – Marshall

17:30 or so – Adjourn and dinner

Saturday - 27 January

Discussion of questions posed by NSERC
(See http://www.phys.ualberta.ca/~e614/Projects/E614MEETINGS/00068/)

8:30 – How do we approach the question about systematic errors related to energy loss in material in different directions? - Carl
8:50 – Compare TWIST precision with and without hardware upgrades.
- TEC (reference study in TN-23) – Nate or Dave?
  - What is the TEC schedule?
- Beamline modifications - Glen

9:20 - What is the expected competition from other experiments? – Hans-Christian
9:30 Energy calibration distributions
Sensitivity of parameters to energy calibration - Farhana
Estimates of energy calibration accuracy – Andrei
10:00 Final state interactions – Nate
10:10 Systematic uncertainty as a function of efficiency as a function of angle and momentum – Maher /Sun-Chong/Nate

10:30 Coffee

11:00 Alignment - Don
11:30 How much running time do we expect per year?
2001/02
2002/03
2003/04

12:00 Lunch (served at TRIUMF)

13:00 Tracking - Maher
Chamber commissioning: Resolution
D vs. t studies (start with idealized contours)

13:30 Priorities for the Commissioning run

- Determination of internal stack alignments
  - D vs. t studies vs. temp, pressure
- Determination of energy calibrations
- Determination of WC efficiencies for Michel positrons
  - as a function of wire, energy, and angle
- test of the accuracy of the t_o determinations
- a study of muon range and target stopping distributions
- the above to be done with He/Iso

The above should result in a draft run plan

15:00 Collaboration policies

publication board

publication plans

graduate student seniority and projects

Jim Musser	ρ to 10^{-3}
Farhana Sobratee	δ to 10^{-3}
Andrei Gaponenko	η to better than 10^{-2}
Robert MacDonald	δ to 10^{-4} ?
Blair Jamieson	
George Price	