E614 Collaboration Meeting
April 24-25, 1998
TRIUMF Auditorium.

Friday April 24, 1998

8:30	Welcome	(Dave G.)
	CHAMBERS.	[Vladimir S./Pierre A.]
	Meeting Prime GOAL: Finalize design and schedule.	
	A. Results of Monte Carlo analysis	[Dennis W.]
8:45	DME buffer zones - impacts chamber design	(Dennis W.)
9:00	Field wires/no field wires: impacts chamber design	(Dennis W.)
	1. Monte carlo results	(Dennis W.)
	2. Comments	(Vladimir S.)
	3. Discussion *(decision after test results presented)	
9:20	He gap sizes - impacts assembly design & total wire count.	
	1. The 464 proposal; Impacts number of chambers.	(Dennis W.)
	2. Resolution in non-uniform B field.	(Dennis W.)
	3. Discussion	
9:50	Muon tracking - impacts assembly design	
	1. Summary of past results	(Dennis W.)
	2. Muon ID (SiLi or not)	(Anuj P.)
	3. Muon spin optimization	(Anuj P.)
	4. Discussion	
10:10	**COFFEE Break**	
10:25	A trigger scheme - impacts assembly design	(Jean-Michel P.)
	1. Scintillator vs SiLi	
	2. Trigger logic	
	3. Discussion	
	B. Results from chamber test	[Maher Q.]
10:45	Data Analysis	(Maher Q.)
	1. Calibrations - Garfield vs data	
	2. Tracking - Wire mapping (plane 4 misalignment?)	
	3. Efficiencies - Impact on number of chambers required.	
	4. *Field wires/no field wires.	
11:45	Comments on test stack noise problems.	(Grant S.)
11:55	Comments on cross talk.	(Vladimir S.)
12:00	**Discussion of Test Analysis**	
	Field wires/no field wires decision REQUIRED	
12:30	**LUNCH Break**	
	Lunchtime Seminar; Target & ion source concept for KEK E-arena	
	Hiroari Miyatake	

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C. Design considerations [Pierre A.]

13:30	Mechanical - impacts chamber design	
	1. New G10 pieces	(Pierre A.)
	· Motherboard support (preamps), DME containment,	
	· He gas containment and HV foil support.	
	· Impact on assembly procedure	(Vladimir S.)
	2. Mechanical constraints	(Jan S.)
	3. Lamel manufacture - multiple pieces.	(Pierre A.)
	4. Signal extraction to preamps and to TDC/ADC's	(Pierre A.)
	5. Discussion - decision(s) REQUIRED	
15:40	**COFFEE Break**	
16:00	Gas System; - impacts chamber design	(Robert O.)
	1. Required flow rates for DME and He.	
	2. Monitoring of Temperature and Pressure.	
	3. Recycling possibilities.	
	4. Discussion	
16:40	Electronics; - impacts chamber design	
	1. VTX & KIAE = 1st choice.	(John S.)
	2. HV distribution and test pulse schemes	(Pierre A.)
	3. Wire count & multiplexing (VTX availability).	(Vladimir S.)
	4. Discussion - decision(s) REQUIRED	
17:45	Review of the days decisions	(Dave G.)
19:00	Dinner at Poutissou's - Please bring significant others.	

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8:30	Review of yesterdays decisions ***Anyone have second thoughts?***	(Dave G.)

D. Schedules, milestones and future plans

9:00	Chambers.	[Vladimir S.]
	1. Construction program.	(Vladimir S.)
	2. Testing schedule	(Pierre A.)
	· Foil tension, gas diffusion, gas separation,	
	· Sources, cosmics and beam exposure.	
	3. Discussion	
9:45	PC's - impacts assembly design	
	1. Central PCs	(Vladimir S.)
	· Needed or not? Impact on target changing.	
10:00	**COFFEE Break**	
10:15	PC's(continued) - impacts assembly design	
	2. Outer PC's	(Vladimir S.)
	· Number of wires/plane & multiplexing.	
	· Time zero for positrons?	
	3. Discussion	
10:45	Spectrometer.	[John M.]
	1. Magnet shield;	(John M.)
	· Cylinder vs box - advantages/disadvantages.	
	· Chamber access - cantilevered vs tracks	(Jan S.)
	2. Magnet purchase status.	
	3. Alignment/Mounts	(Peter K.)
	· Magnet in Shield	
	· Spectrometer to beam.	
	· Chambers in magnet	
	4. Discussion - team building.	
12:00	**LUNCH Break**	

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13:00	Software issues.	[Renee P.]
	1. Data Acq. & Slow Controls	(Renee P.)
	2. Future plans for Analysis Software	(Maher Q.)
	3. Monte Carlo Code Status (digitization etc.)	(Dennis W.)
	4. Software management	(Renee P.)
	5. Setup on LIN01	(Renee P.)
	6. Discussion - team building.	
14:00	The muon beam.	[Nate R.]
	1. Mu beam Monte Carlo status (Tune/Rate/Purity).	(Nate R.)
	· pion(muon) production	(Dennis W.)
	2. Plan for beam tests	(Dave G.)
	· May - M11 surface muons (Rate/Purity).	
	· July - M11 surface muons & their polarization.	
	3. Discussion - team building.	
15:00	**COFFEE Break**	
15:15	Physics.	[Dave G.]
	1. First experiment?	
	· Depolarization in helium - an experiment	(Dennis W.)
	2. Systematic studies required	(Dave G.)
	3. Discussion - team building.	
15:45	Collaboration Business.	(Dave G.)
	Making decisions between collaboration meetings.	
	1. Hardware - (coordinator's responsibility)	
	2. New collaborators & students	
	· (Spokesmen/Institutional coordinators.)	
	· Commitments (Acceptable %'s)	
	3. Publications - conference papers.	
	4. Budgets.	
	5. Discussion - team building.	

Date of next collaboration meeting.