Group Meeting

Updates

Manpower

Polarized Target	Wire Chambers	Hodo.	Prop. tubes	Beam Cerenkov	Slow Control	Offline Software	NIM Trigger	FPGA Trigger	L3 Trigger	DAQ	Online Software
D. Keller (UVA)	**C.-M. Jen (LANL)**	**F. Hossain (NMSU)**	**C.-M. Jen (LANL)**	**R. Tesarek (FNAL)**	**M. Yurov (LANL)**	H. Yu (NMSU)	**F. Hossain (NMSU)**	M. Kim (UMich)	New PD (MSU)	**Y.-C. Chen (UIUC)**	K. Nakano (TokyoTech)
C. Ramirez (UVA)	**C. Brown (FNAL)**	D. Isenhower (ACU)	X. Li (LANL)					N. Wuerfel (UMich)	L. El Fassi (MSU)	**P. Reimer (ANL)**	
J. Hoskins (UVA)	K. Nakano (TokyoTech)		**K. Liu (LANL)**							H. Leung (UIUC)	
Z. Akbar (UVA)	L. El Fassi (MSU)										
D. Ruth (UNH)	Y. Goto (RIKEN)										
G. Nukazuka (Yamagata)	Y. Miyachi (Yamagata)										
F. Hossain (NMSU)											
New GS (UVA)											

- Names in red are expected to be onsite
- Names in **bold red** are currently onsite

- We currently have 8 people onsite, need more local people (Please notify Rick, me and Jessica@fnal.gov about your travel plan, for training, scheduling, office space, etc.).
- In particular we need manpower on DAQ group (scaler DAQ and beam DAQ), and online/offline software group (production management).

Next 2 collaboration meetings

- Summer meeting: 7/15 (Everyone has a talk)
- Fall meeting: 10/15 (Everyone has a talk)

Collab Work talks organized by Work Coordinator
Collab Analysis talks organized by Analysis Coordinator

A few reminders

- Please register in the ECL system – shift scheduling and elog

- For conference talks please contact talk coordinator
  - E1039 conference wiki https://spinquest.physics.lsa.umich.edu/twiki/bin/view/E1039/WebHome
  - Need someone to update the FNAL Target page

- Software tutorial session tomorrow at 10AM

- Biweekly analysis meeting

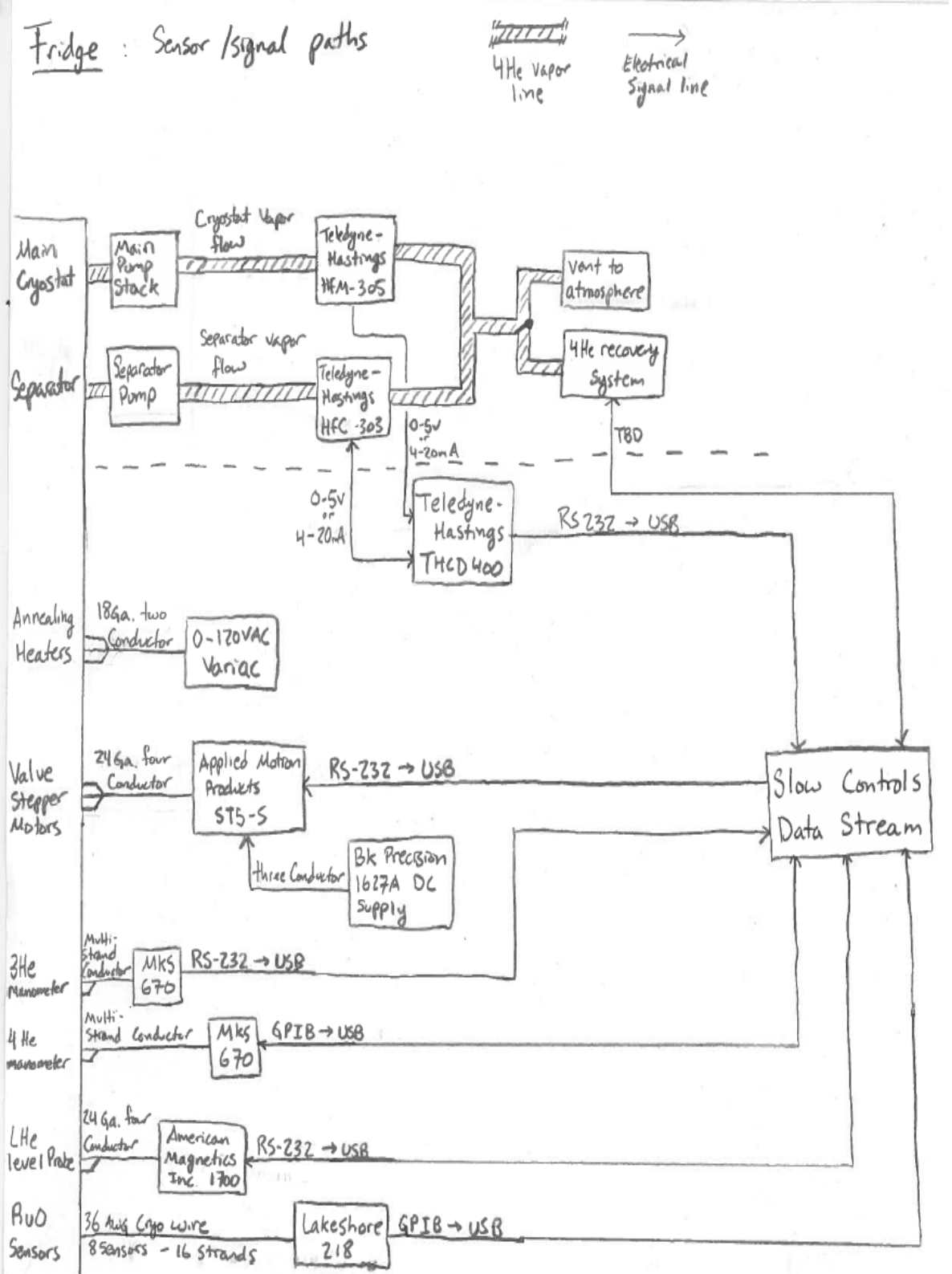
Our Schedule

- All Systems Packed up by the end of the month
- Kun hired LANL contractor to deliver (Here May 31)
- Systems to go
  - Magnet
  - Fridge Rack
  - Leak check Tube
  - Insert Rack
  - Magnet Rack
  - EIO PS (UVA and CPI)
  - EIO tube (UVA and CPI)

Cabling

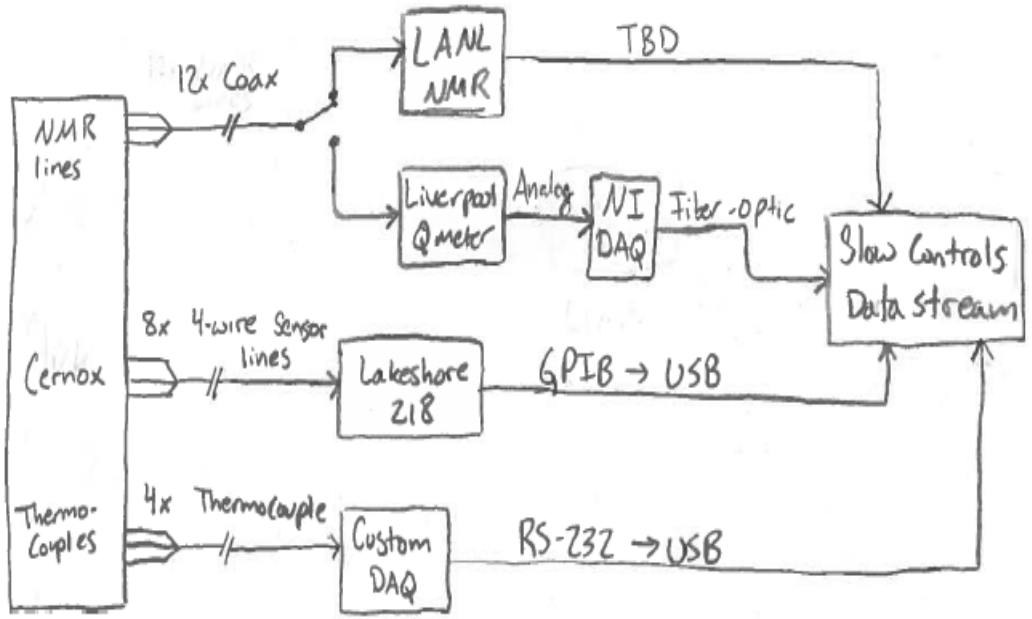
Magnet

System	Connected Device	Cable	Length (meter)	Status
Magnet	Magnet to Power Supply	Power supply cable	21	Available
	Power Supply to PC	Parallel to Serial port comm	17	Available, will be tested
	Shim PS to PC	Relay	17	Will be produced soon
	Temp. sensor to ITM 10			
	Magnet to SHIM PS	SHIM PS Cable	~21	Available
	Magnet to ITM 10/Temp. sensor	Signal/voltage cable	22	Available
Outer Vacuum	Turbo to DCU 600	Pfeiffer PS cable	40	Purchase
		Pfeiffer RS 485	40	Purchase
	Pressure sensor MPT 200AR to DPG 202	Pfeiffer PM 061 283-T	40	Purchase



Instrument	Plan	Tentative Location
TH THCD-400	Buy RS-232 and RS-232->USB	Counting house
TH HFM-305	Already bought	Cryo-platform to counting house
TH HFC-303	Already bought	Cryo-platform to counting house
Annealing Heaters	Make	Front penetration to counting house
Valve Stepper Motors	-Make multi conductor -Buy RS-232 and RS-232->USB -Make PS to Controller multi conductor	Front penetration to counting house
3He Manometer	-Make multi conductor -Buy RS-232 and RS-232->USB	Front penetration to counting house
4He Manometer	-Make multi conductor -Assemble GPIB, buy GPIB->USB or borrow from B28	Front penetration to counting house
LHe Level Probe	-Make multi conductor -Buy RS-232 and RS-232->USB	Front penetration to counting house
RuO Sensors	-Make multi conductor -Assemble GPIB, buy GPIB->USB or borrow from B28	Front penetration to counting house

Target Stick : Sensor/signal paths



Instrument	Plan	Tentative Location
NMR Coax	Make	Side penetration to cryo-platform
Cernox -> Lakeshore 218	- Make multi conductor - Assemble GPIB, buy GPIB->USB	Front penetration to counting house
Thermocouples -> Lakeshore 218	- Make multi conductor - Same lakeshore as Cernox.	Front penetration to counting house

Approximate Cable Lengths

- **Side penetration of target cave to rack(s) on cryo-platform:** 32ft. / 10m
- **Side penetration of target cave to counting house:** 75ft. / 23m

- **Front penetration of target cave to rack(s) on cryo-platform:** 72ft. / 22m
- **Front penetration of target cave to counting house :** 117ft. / 35.5m

RF Units

Device	Cable	Location	Length	Acquisition
µ-wave motor powers supply	3-conductor 18 awg	Counting House (FP)	44 m	Purchase wire; custom build.
µ-wave motor controls	Multi-conductor shielded	Counting House (SP)	28 m	Purchase wire; custom build; RS232/USB
Interlock switches	Multi-conductor	Counting House (FP)	44 m	Purchase wire; custom build.
EIP Signal Cable	4YR01R01 197.0 µ-wave cable	Cryo-platform (SP)	12.5 m	Purchase.
EIP Communications	GPIB-USB	Cryo-platform (SP)	12.5 m	Purchase.
NI Module (NMR->CPU) Communications	NI Fiber optic Xpress X4 cable	Cryo-platform (SP)	12.5 m	Purchase.
λ/2 Cable	---	---	---	LANL will acquisition.

The µ-wave controls cable will carry both the TX/RX serial communications and the read-back from all position, home, monitoring switches. The signal cable will either go directly into the controls computer as RS232/USB or into a breakout panel that have reset switches then into the controls computer.

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