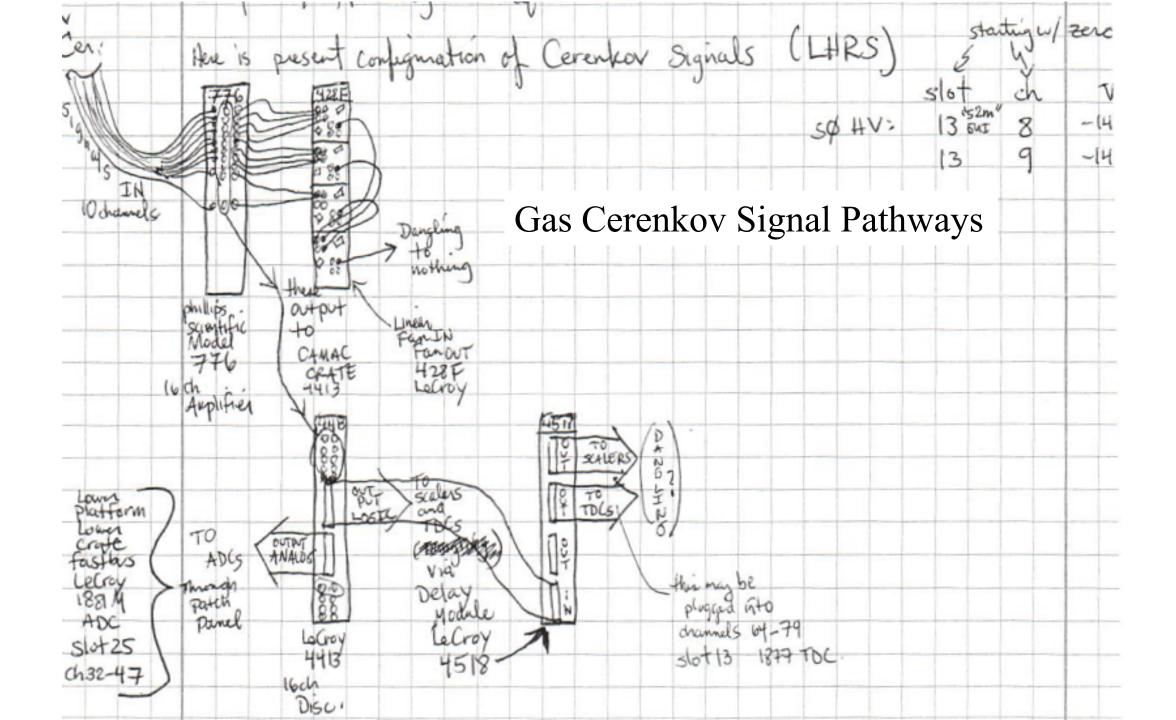
HRS Counting DAQs for PREX-II/CREX: Slides to start a discussion

Dustin McNulty

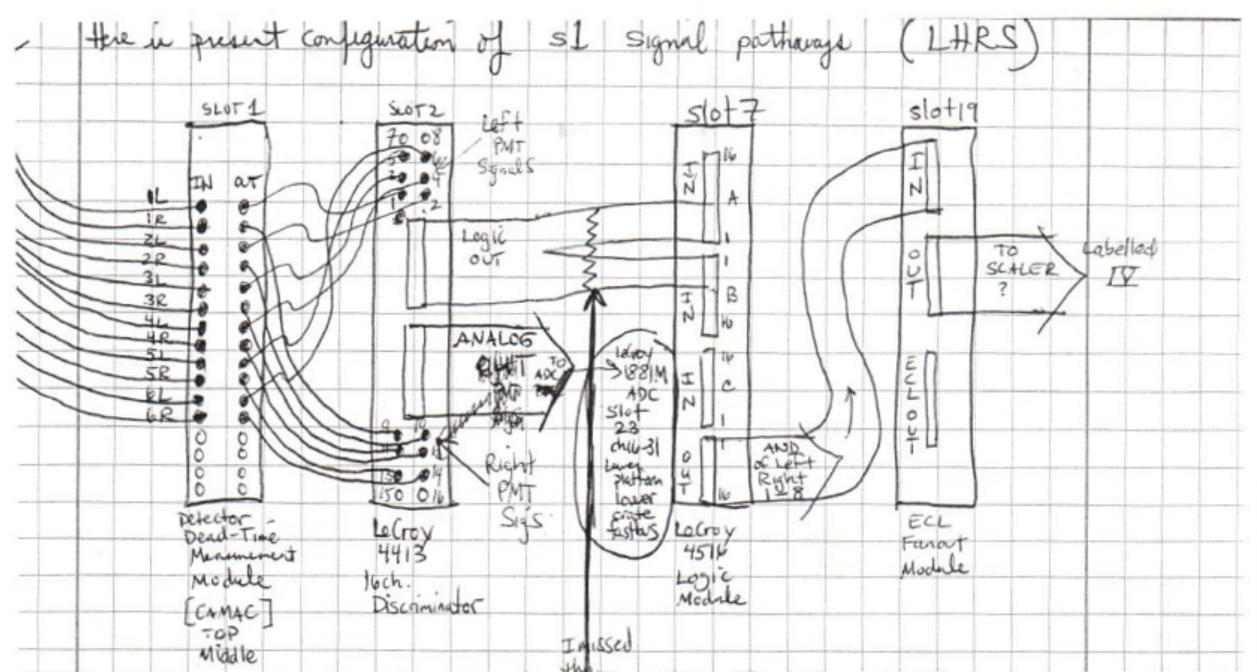
PREX DAQ Meeting: 8/31/2018

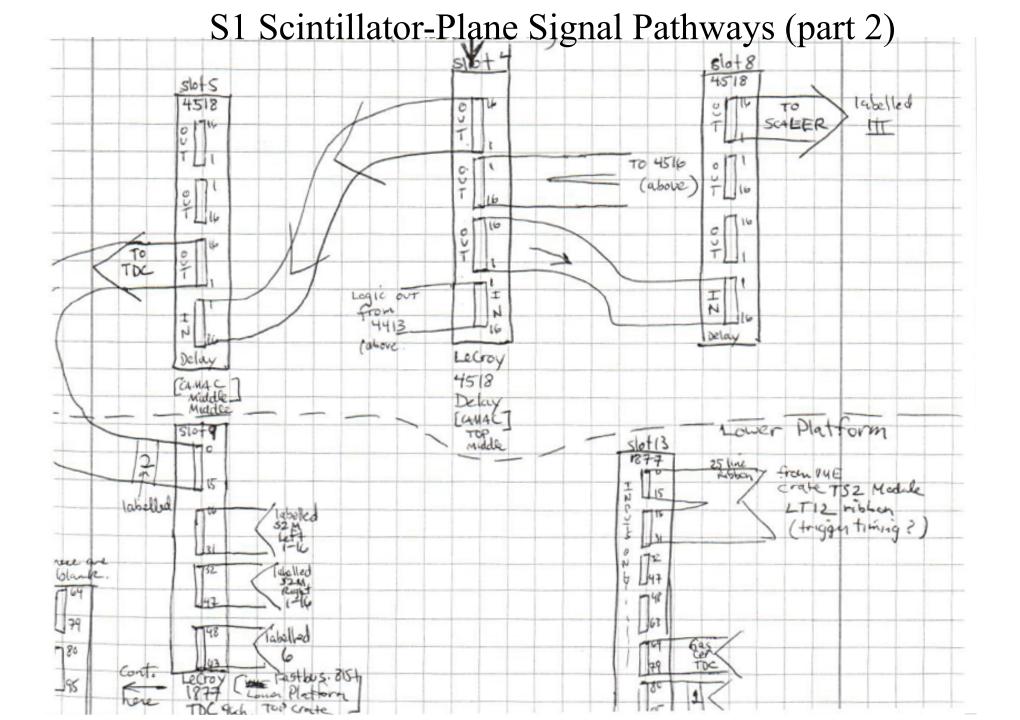
What we did during PREX-I: Scanned logbook pages...

| Defimi | tions: | | | try to make | | |
|--------|---------------------------------------|--|-----------|--------------|-----------|-------|
| T1: | SØ (Bogdan's SQ | scint.) [s\$ | -0R- A | scintillator | like 53 b | elow |
| +2: | Prex Det Upstean | [PD4] | | | | |
| | Prex Det Downstree | Real Control of Contro | | | | |
| | | | | | | |
| T5: | Prex A_T Det s 3 (Bagdans Saint) | LS3 | | | | |
| T6: | Cosmic Trigger, pulser (2KHZ?) | (hard cosmic | s with Le | ad between | scints): | : 114 |
| T7: | pulser (2KHZ?) | - Randon Isi | trec? | |) | |
| | Clock | | | | | |
| | | | | | | |
| | use gas cerenkov wthways; per Bogd | | | | | |



S1 Scintillator-Plane Signal Pathways (part 1)





DAQ needs not presently available in HRS:

- GEM/Quartz DAQ: (note that we will need CODA 2.6.2)
 - Two VME 64x crates with Linux ROCs (one for each arm) and at least 4 available slots in each crate to accommodate a TI, 2 MPDs, and QDC
 - ISU and SBU each have a CAEN V965 16ch QDC that we can bring to JLab
 - SBU has 2 and ISU has 4 MPDs that we can bring to Jlab
 - Readout APV cards, backplanes and cables will be provided by ISU and SBU
- Can we use existing signal pathways/modules for our trigger setups? Do we need any additional modules?
- What about UVA/SBS GEM DAQ? I estimate they will need 5 6 MPDs per arm; Will they use same crate as small GEMs?