
Coordinate Detector Update

Peter Monaghan

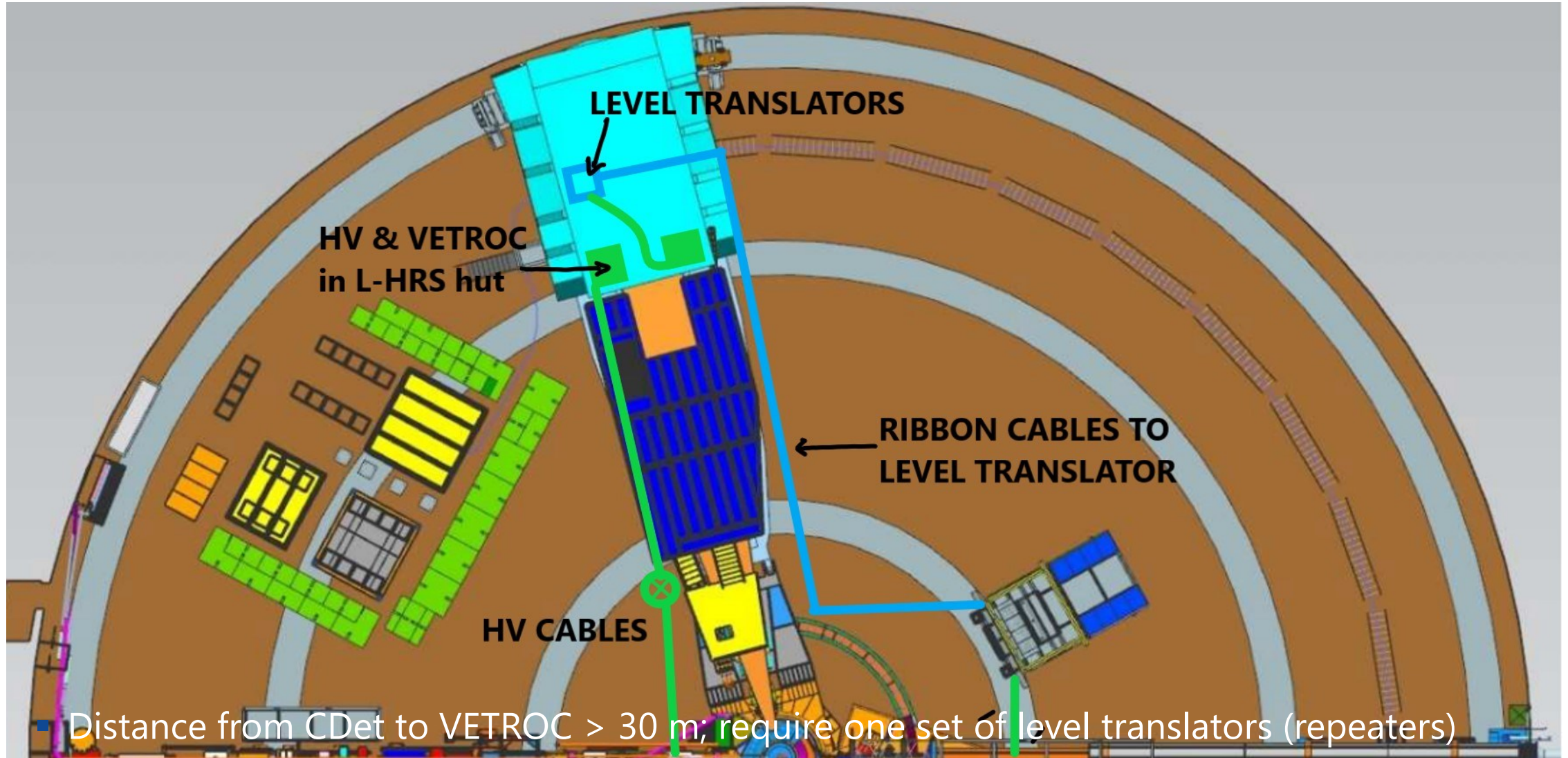
Christopher Newport University

SBS Weekly Meeting, 24th January 2024

Detector Status

- Welcome Dr. Ralph Marinaro!
- new CNU postdoc; stationed at JLab
- Primary focus will be SBS and responsible for the Coordinate Detector
- Angelo Rosso (grad), Michael Lowry (UG) continuing to contribute
 - Both will graduate before summer
- Hopefully, two new undergrads by summer.
- Starting to commission and test the final half module in test lab.
- Other modules to be retrofitted for light-tightness, magnetic shield and NINO power connector.
- Engineering group finalizing frame for each plane of 3 modules.
- All work in test lab and the hall requires ePAS paperwork.

Equipment Layout in the Hall

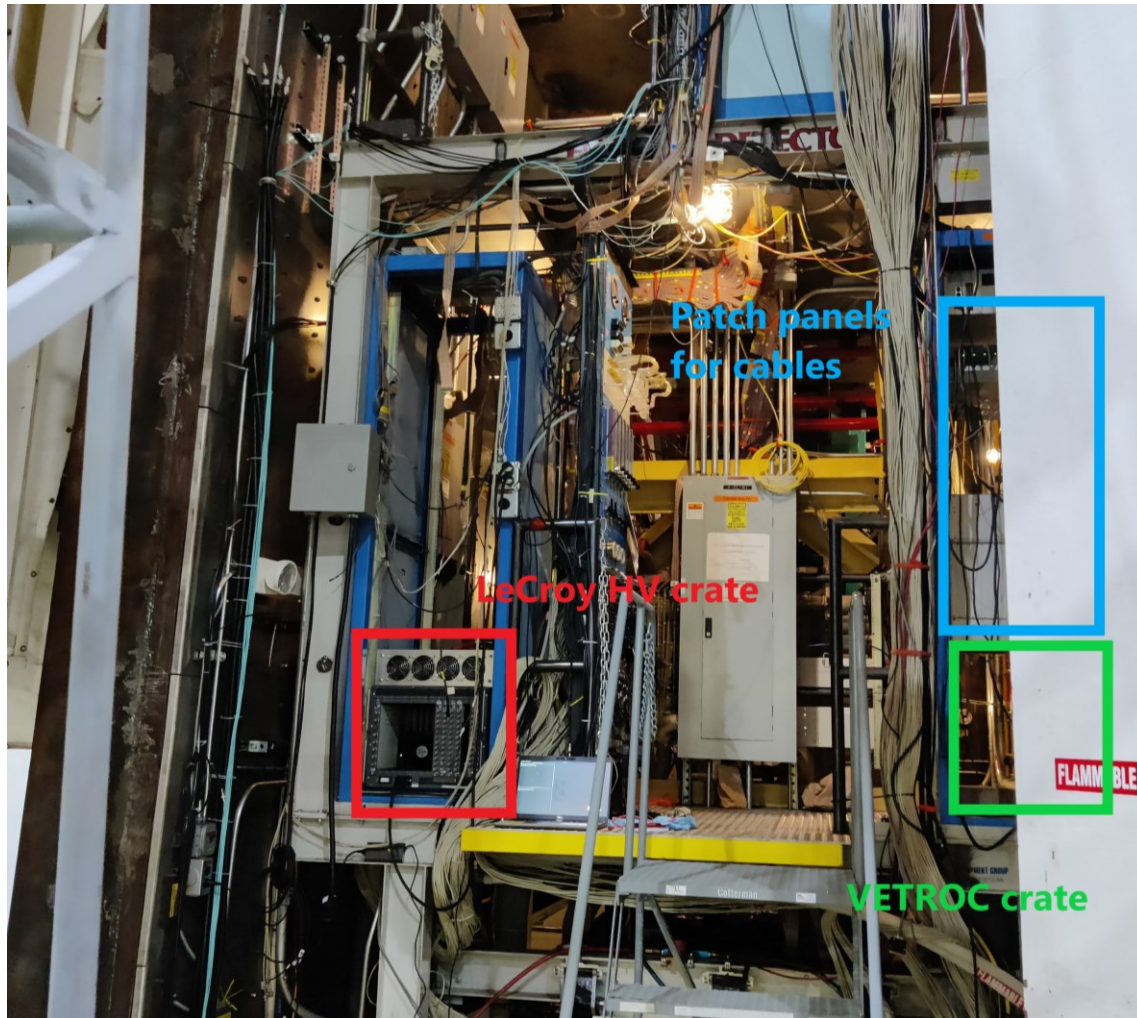


Level Translator Location



- Utilize rack on lower platform of L-HRS
- Install Level Translators and power supply in rack (**need ePAS**)
- Ribbon cables from detector connect to level translators
- Output ribbon cables will route upwards through HRS to the shield hut
- Connect to VETROC via ?
 - Long or short ribbon cables?
- All work in the hall now requires ePAS paperwork!

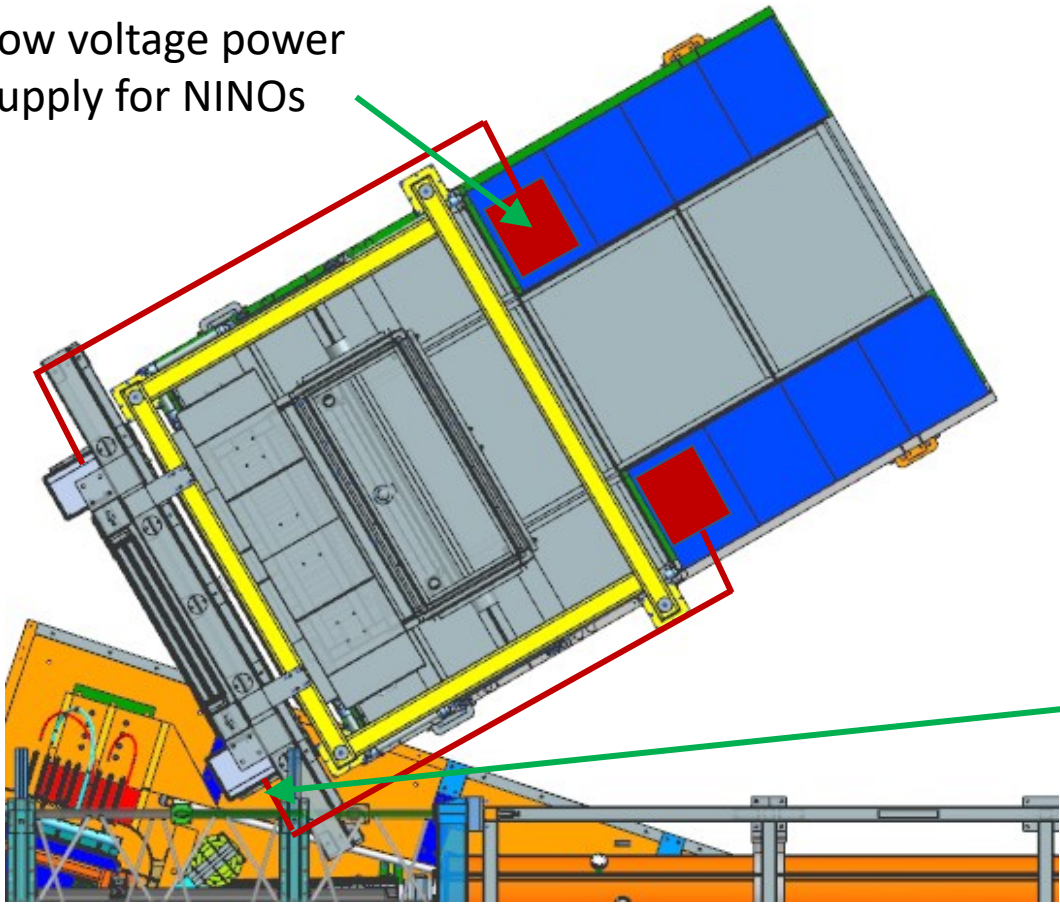
L-HRS Shield Hut Layout



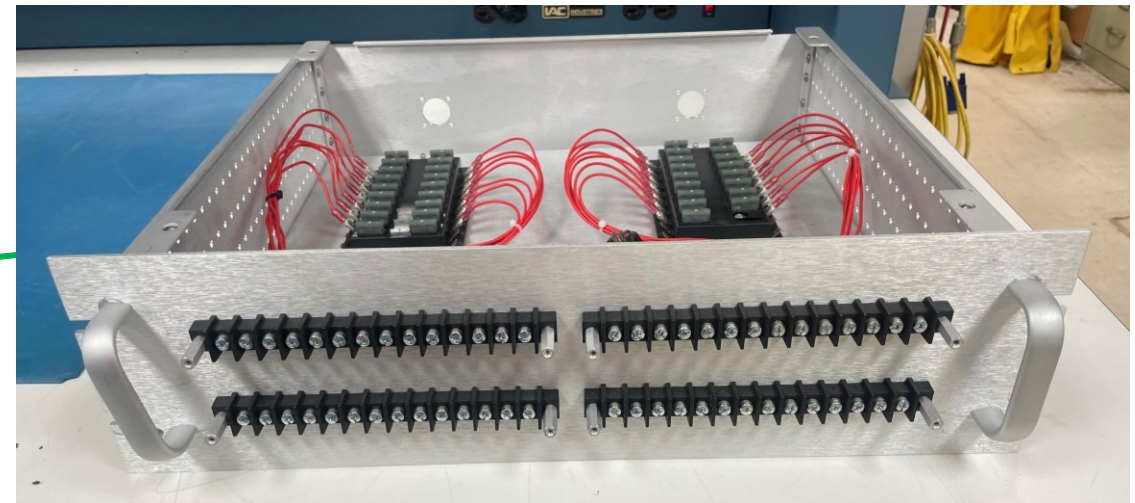
- HV & VETROC crates in separate racks
- Install patch panels for ribbon cable feed through for VETROC
- Require VETROC connector cables (to be made)
- HV cables *were* being installed for hodoscope and reused for Cdet
- **Work requires ePAS paperwork.**
- Route HV cables through floor onto new cable trays on left side of HRS

Low Voltage Power Layout

Low voltage power supply for NINOs



- Two Wiener power supplies located in ECal racks.
- Distribution boxes at detector.
- Run single multistrand cable from distribution box to each half module.
- Cables need construction; modules have to be retrofitted.



Status

- Any task in the hall or the test lab (for Cdet) requires ePAS!
- Only authorized persons at JLab allowed to write ePAS (info from Ed Folts)
- Not clear how users/students/postdocs can proceed with straightforward tasks.
- 168 (100') ribbon cables + 336 (16-pin) connectors in-hand
 - Likely make these cables at CNU.
- Sufficient level translators in hand; need appropriate power supply (in progress).
- VETROC connectors in hand (Connecticut); cables to be made.
- HV crate and cables (Glasgow) in hand; need three more LeCroy cards.
- Need to purchase multistrand cables/connectors for NINO power supply.