

MVTX electronics

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Goals

- Fermilab test beam, with staves
 - ▶ 2nd half of May?
 - ▶ Will INTT be there?
- LBL test beam?
- LDRD goal: full readout chain
 - ▶ Arguably this is done, with some outstanding items that aren't necessarily in LDRD scope:

Test beam

- Telescope mechanics: Hubert
 - ▶ Mounting fixtures for staves
 - ▶ Cable management
- Cooling: Chris
 - ▶ Negative pressure system
- Simulation and analysis: Yasser
- Updates to readout: Alex T., me

Readout development

- <https://p25ext.lanl.gov/maps/readout.html>
 - ▶ Update to final hardware (FELIX v2.x, RU v2.x)
 - ▶ sPHENIX timing+trigger
 - ▶ Control over optical link (slow controls, reprogramming)
- Manpower: Alex T. (Seattle), Gerd, Alex W., Cameron, Yasser
- Possible contributors: UT-Austin, GSU, Yonsei, LBL
- Hardware:
 - ▶ We have full readout chains (ALPIDE, RU v1.1, FELIX v1.5/v2.0) at LANL, UT-Austin, and Seattle
 - ▶ sPHENIX has a working prototype of the timing+trigger distribution that we can borrow