

SeaQuest AEM Report

Kaz Nakahara

University of Maryland

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Beamline

- New sleeving pipes have arrived.
- Vacuum tests good to the point where they can be leak checked.
- Bermpipe steam cleaning.
- Welders needed.
- Cerenkov Monitor installed in NM3 – awaiting readout board to begin tests.

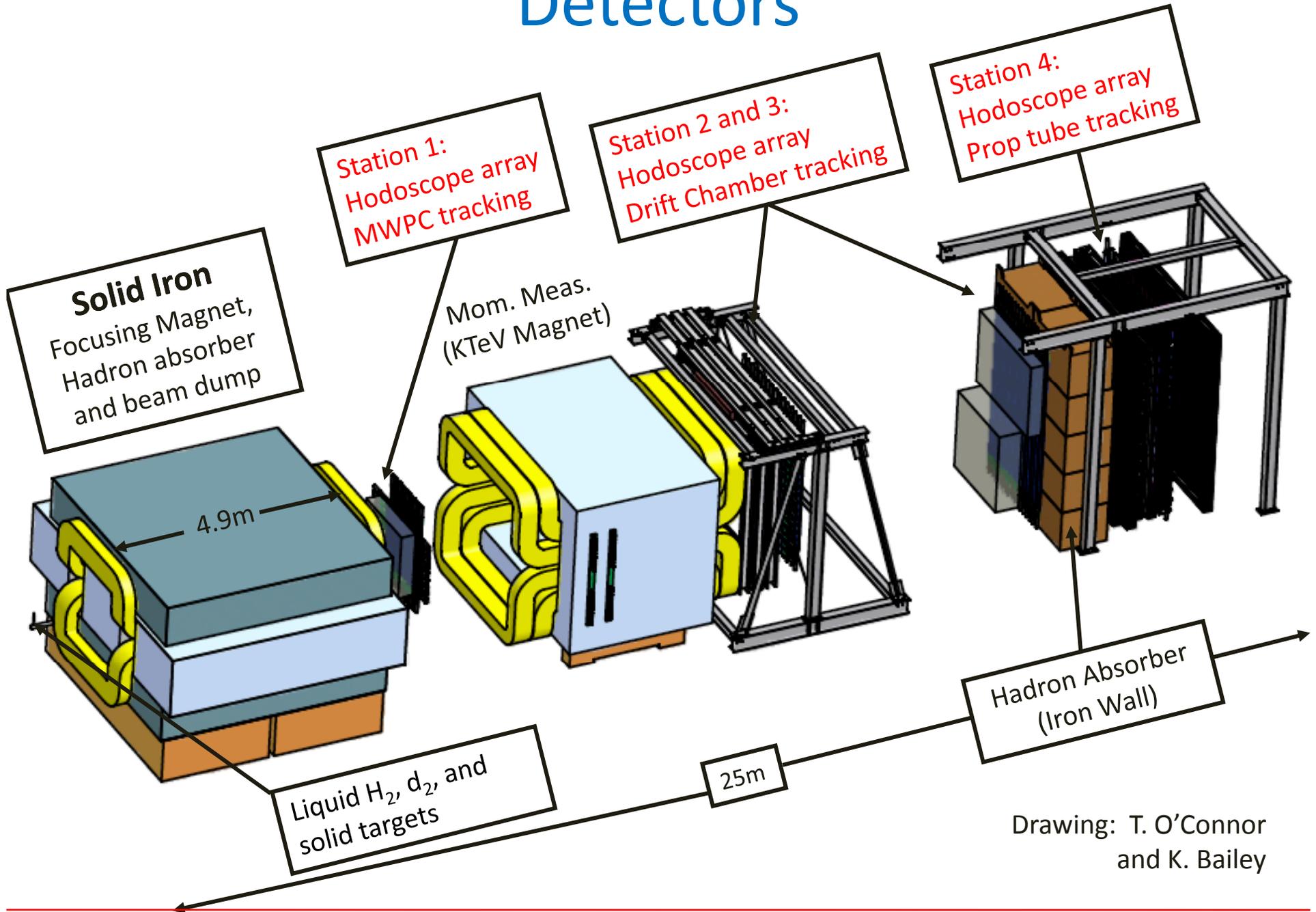


Targets

- TC gauge controller broken → gauges replaced with new Convection Vacuum Gauges
- One 1402 mechanical pump broken → last item needed to be fixed before “all systems go”



Detectors

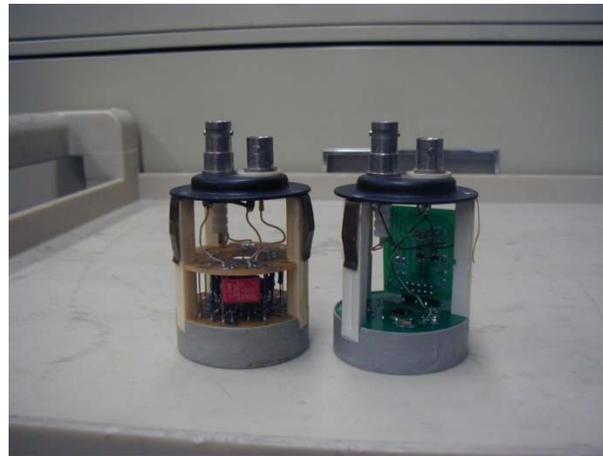


Drawing: T. O'Connor
and K. Bailey

Detectors

Hodoscopes

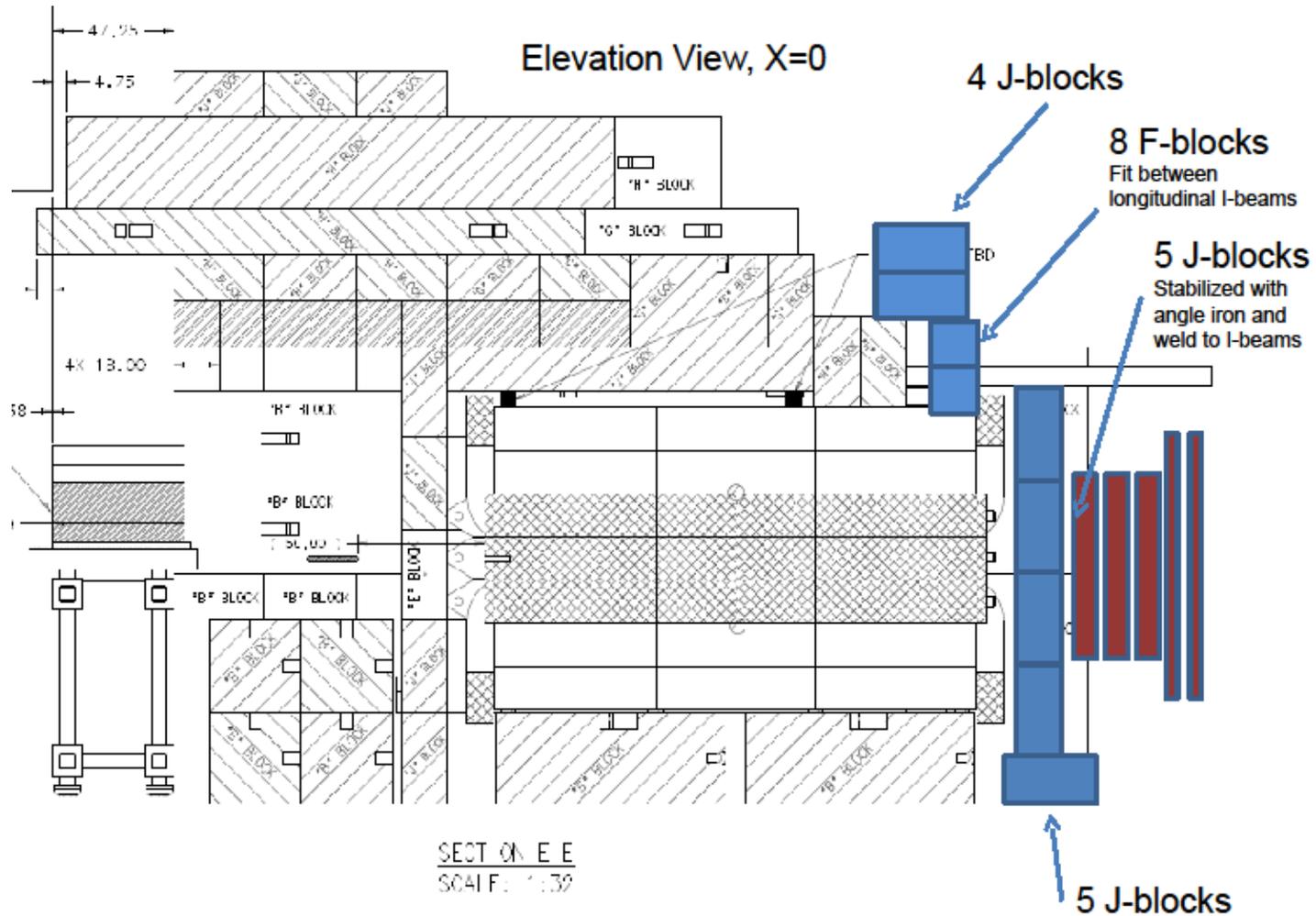
- New hodoscope bases for ST1&2 installed and tested.
 - Optimize clip-lines
 - gain matching



Wire Chambers

- Old St1 Chambers - a few dozen broken wires, some wires lost tension being repaired
- New St1 Chambers – wiring in progress
- St2 Level shifters – repaired, need to be reinstalled
- St3- Chambers – HV training on-going





- New shielding blocks being installed TODAY.

DAQ

- Format for Cerenkov readout board is being finalized – decoder being written
- Board itself to be fabricated in the next 2 weeks.
 - ➔ tabletop test with board
 - ➔ test with beam at MTest
 - ➔ connect to Cerenkov monitor in NM3
- continuing cosmic tests with new TDC boards using St.3&4 hodoscopes

Trigger

- Setting up 3-stage (level 0, level 1, level 2) trigger system
 - Level 0 – monitor trigger timing, pulser
 - Level 1 – find trigger muon roads
 - Level 2 – road pairing and output final trigger
- Test system built to test new firmware.
- Hardware ordered (some have arrived)