

Status of E-906/SeaQuest

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Beam Updates

- **sleeving the bermpipe:**
 - **purchase of beam pipe in progress**
 - pipe out of 2205 stainless steel with 12" diameter
 - pipe milled at the plant
- **preliminary schedule:**
 - delivery: end of May
 - sleeving: ~ Mid of July
 - **start of beam tuning and commissioning**

Target Updates



6 spare flasks
fabricated

pressure test
completed

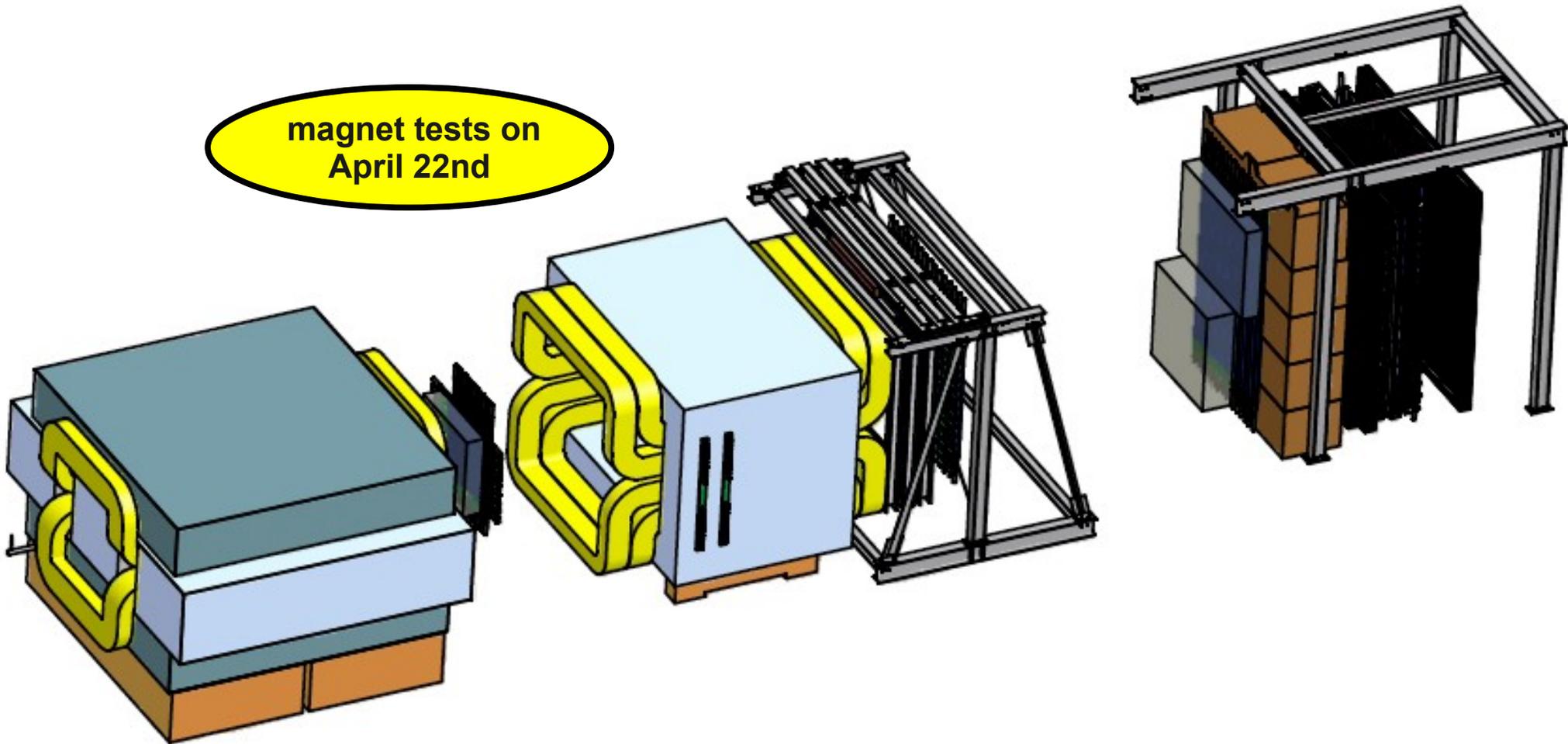
problem with
vacuum pump

tech help
required

2012.02.23

Magnet Updates

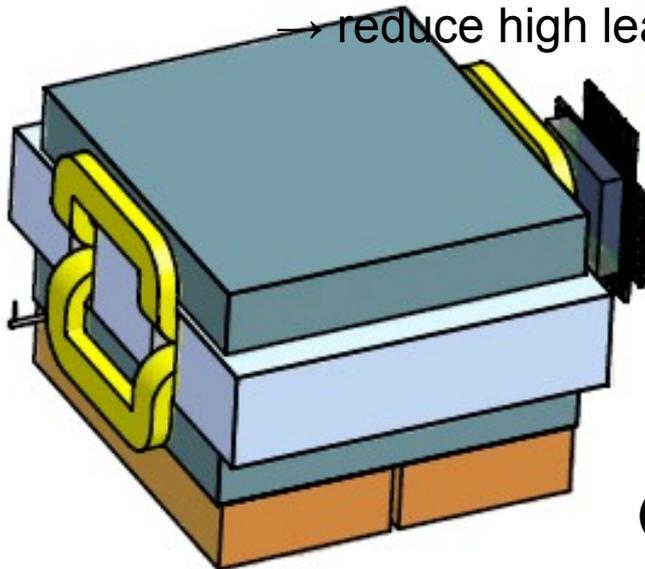
magnet tests on
April 22nd



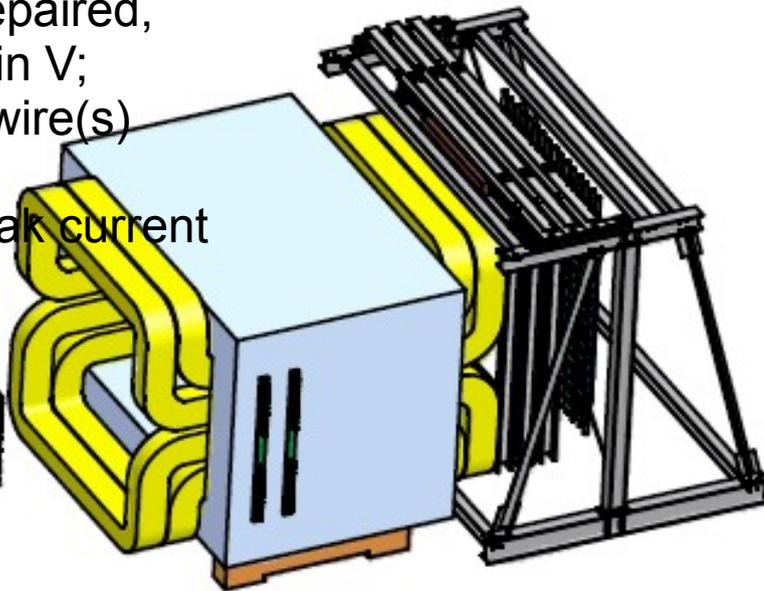
Detector Updates

repair of D1 (old)

V/V' (1/3 dead) repaired,
new broken wire in V;
disconnect 1 (2) wire(s)
in U/U' (X/X')
→ reduce high leak current



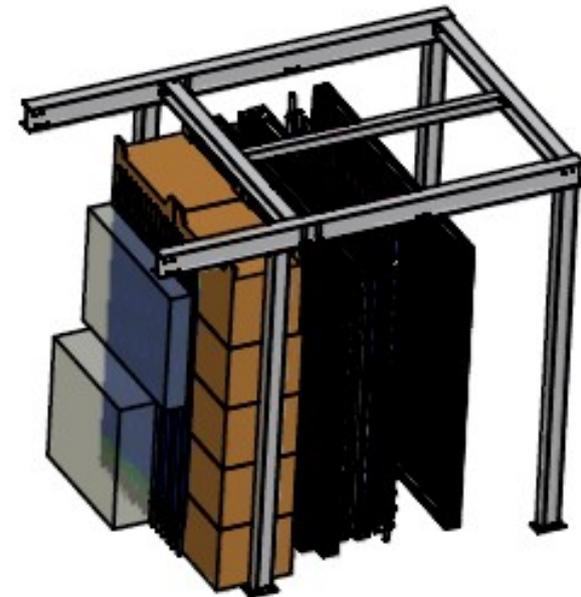
new D1 in progress



PMT base update

waiting for prototype

- tests at PMT lab
- source tests
- mass production

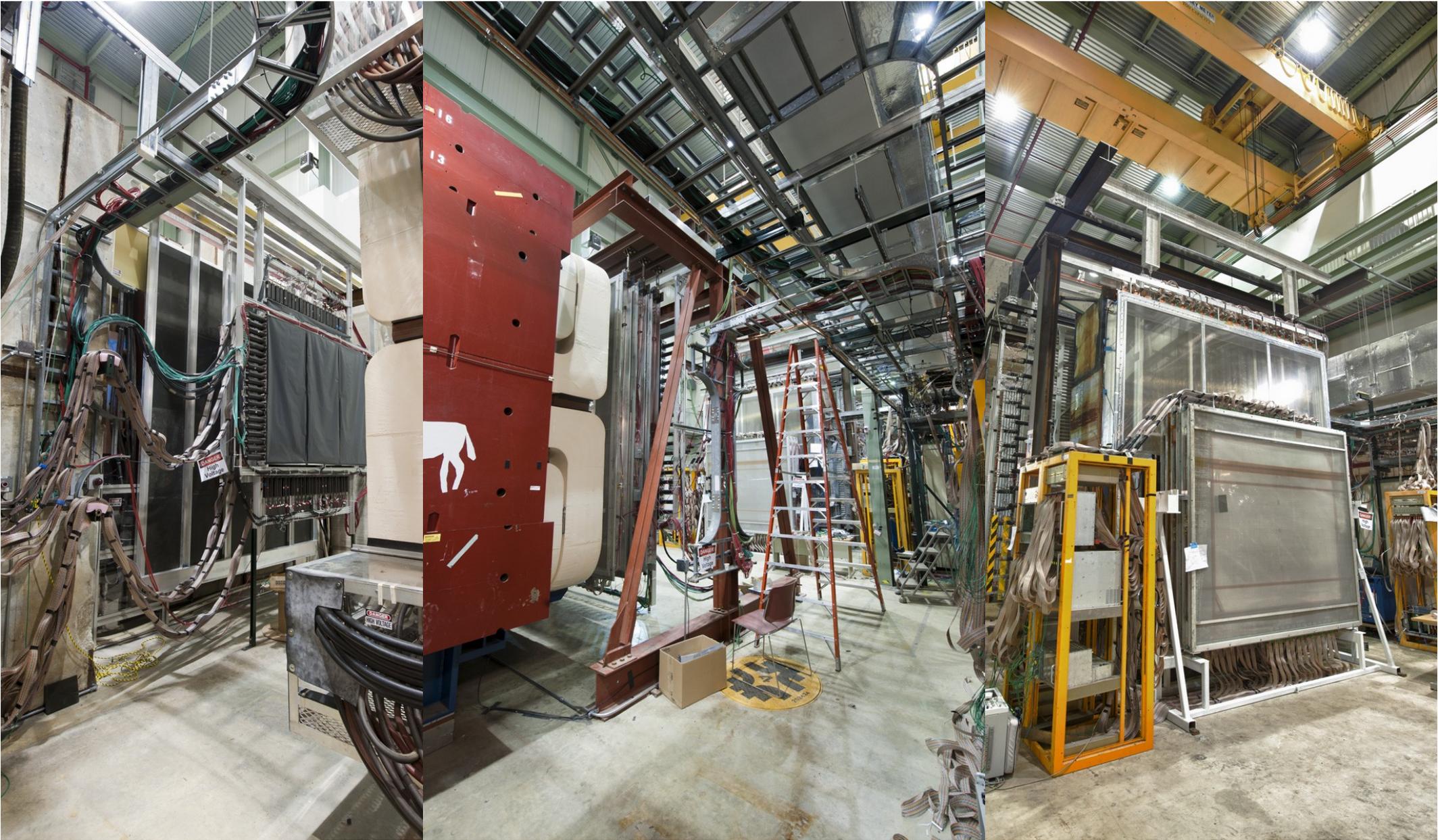


new D3m wire
chamber completed

HV training with P8

no gas leaks
no HV trips (-1700V)

Requirement for Scissor Lift



DAQ: Improved TDC for Run II

TDC bin width	~0.44 ns	calibrated
minimum width of signal	4 ns	
maximum number of hits in 64 ns	4	
adjustable time window (detector)	4ns - 2048ns	
maximum number of hits per trigger	32 - 1024	
multiple events per IRQ	2 - 32	tested
scalar buffer	8 hits / channel	
intrinsic zero suppression (multi-sampling)		tested
multiple hits elimination		tested
leading edge or leading / trailing edge detection		
passed cosmic ray test with Station 3 and 4 hodoscopes		
planned cosmic ray tests with other detectors		

SeaQuest on FermiGrid (OSG)

- **March 18th: introduced SeaQuest in Grid Users meeting**
- **subgroup of the "umbrella" FNAL virtual organization**
- **waiting for** (signature for) **login for submission host**
- in the meanwhile:
 - preparation of scripts (jobsub)
 - /seaquest software repository on BluArc storage
- **plans for April:**
 - **test of data productions (first step)**
 - **test of Monte Carlo productions**
 - **user documentation**

Track Reconstruction Update

- **dedicated working week on track seeding** (March 4th – 8th)

How to find track candidates in splat events?

- **various strategies discussed:**
 - trigger-road based seeding
 - sagitta method
 - optimization of seeding used in track reconstruction programs

- valuable snapshot of:

- existing software
 - analysis status
- improved coordination of software and analysis effort

