

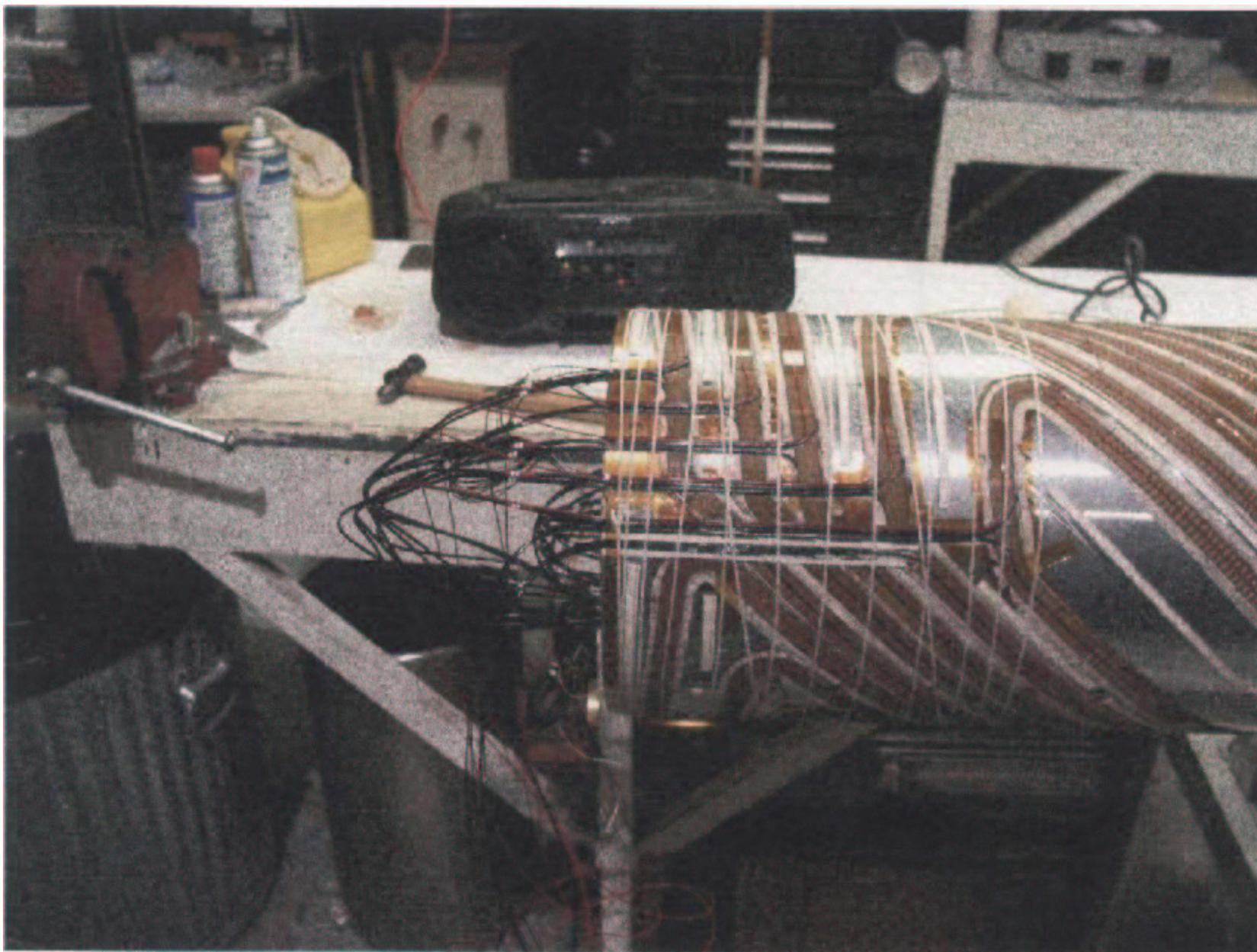
# AGS Cold Snake Status

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- Cold mass completed and tested in vertical dewar.
  - On cooldown: short to ground developed on inner coil.  
Completed test with floating supplies.
- Short repaired and cold mass being prepared for another dunk into LHe
  - Magnet division on break next week.
- Schedule
  - Cryostat parts in shop being machined.
  - Cold mass into horizontal cryostat: ~10 Nov.
  - Cryostat to be completed: ~mid Dec.
  - Cooldown and test starts just before ~Xmas
  - Est. delivery to tunnel: 7 Feb., 2005

Slides of measurements from Animesh Jain:

<http://www.agsrhichome.bnl.gov/RHIC/Spin/spinfigs/hsd601sum.pdf>

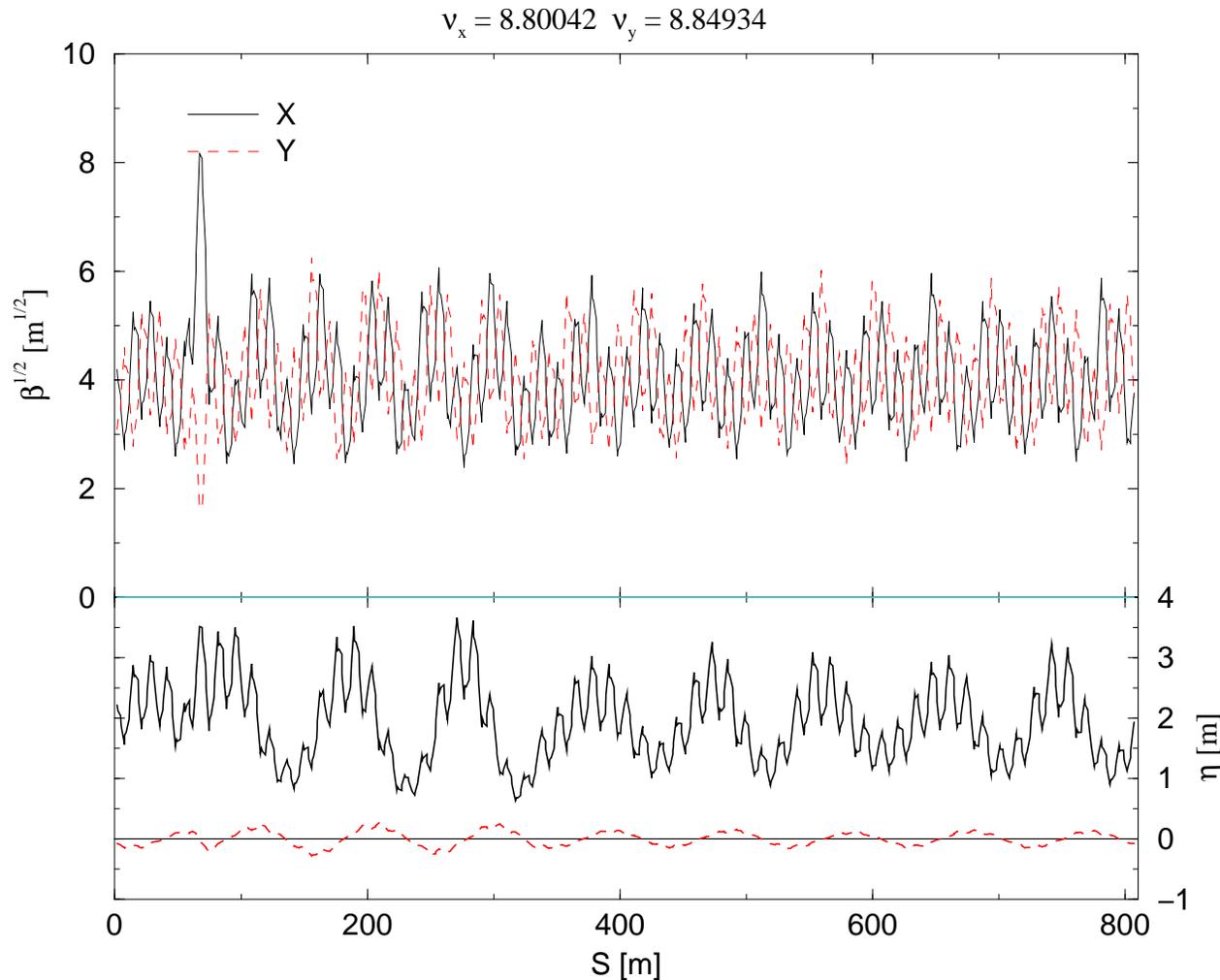


# ↳ Ramp and Quench, etc. Tests ↳

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- Used actual power supplies and quench protection circuits for use in AGS. (A lot of stuff has been debugged!)
- Magnet thermal cycled 4 times with no other problems than the one short to ground.
- Some training quenches plus quite a few quenches to check out protection scheme.
- All four coils achieved design current.
  - Helix and solenoid: 350 A, dipole correctors: 25 A
- In vertical dewar, it is possible to quench the solenoid without quenching the helix.

# Two snakes 15% and 6.7% at injection



Cold snake:  
A20

Warm snake:  
E20

Extra Quads:  
A17, A19,  
B1, B3