

PSI Overview

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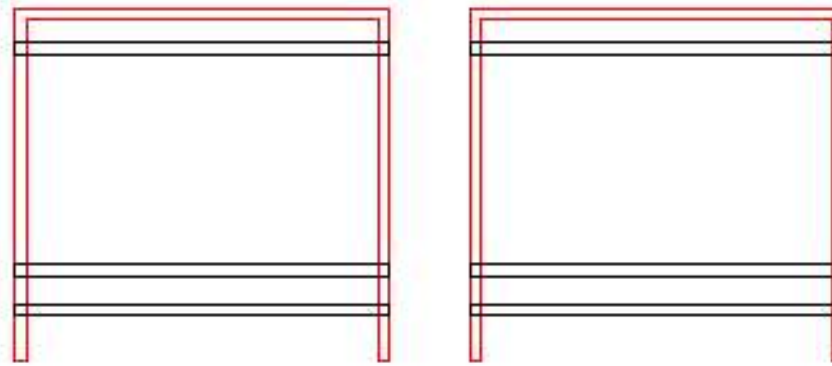
Outline

- ✓ π E3 area
- ✓ Soft-wall Clean Room
- ✓ Russian TPC
- ✓ PSI TPC

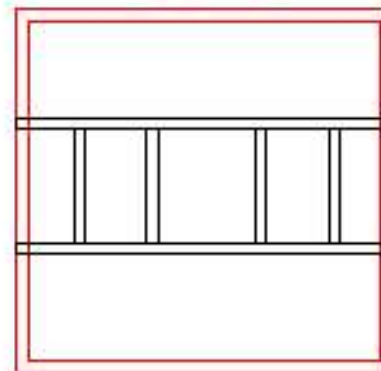
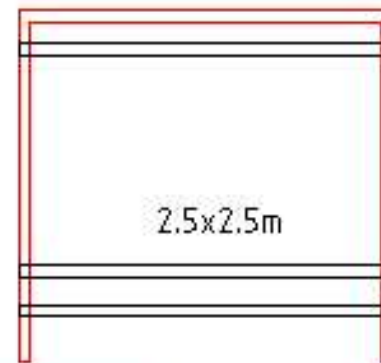
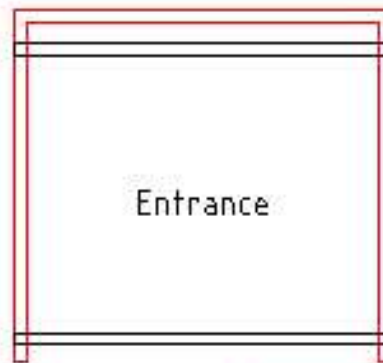
π E3 Area

- ✓ Clean arrangement of cables: Great
- ✓ Concrete Block removed: Great
- ✓ Patch Panel: Not so great, but OK
- ✓ Cobra Attack:
 - ◇ Where do we put the detector
 - ◇ Do we need the shielding
 - ◇ Implications

Clean Room Drawing

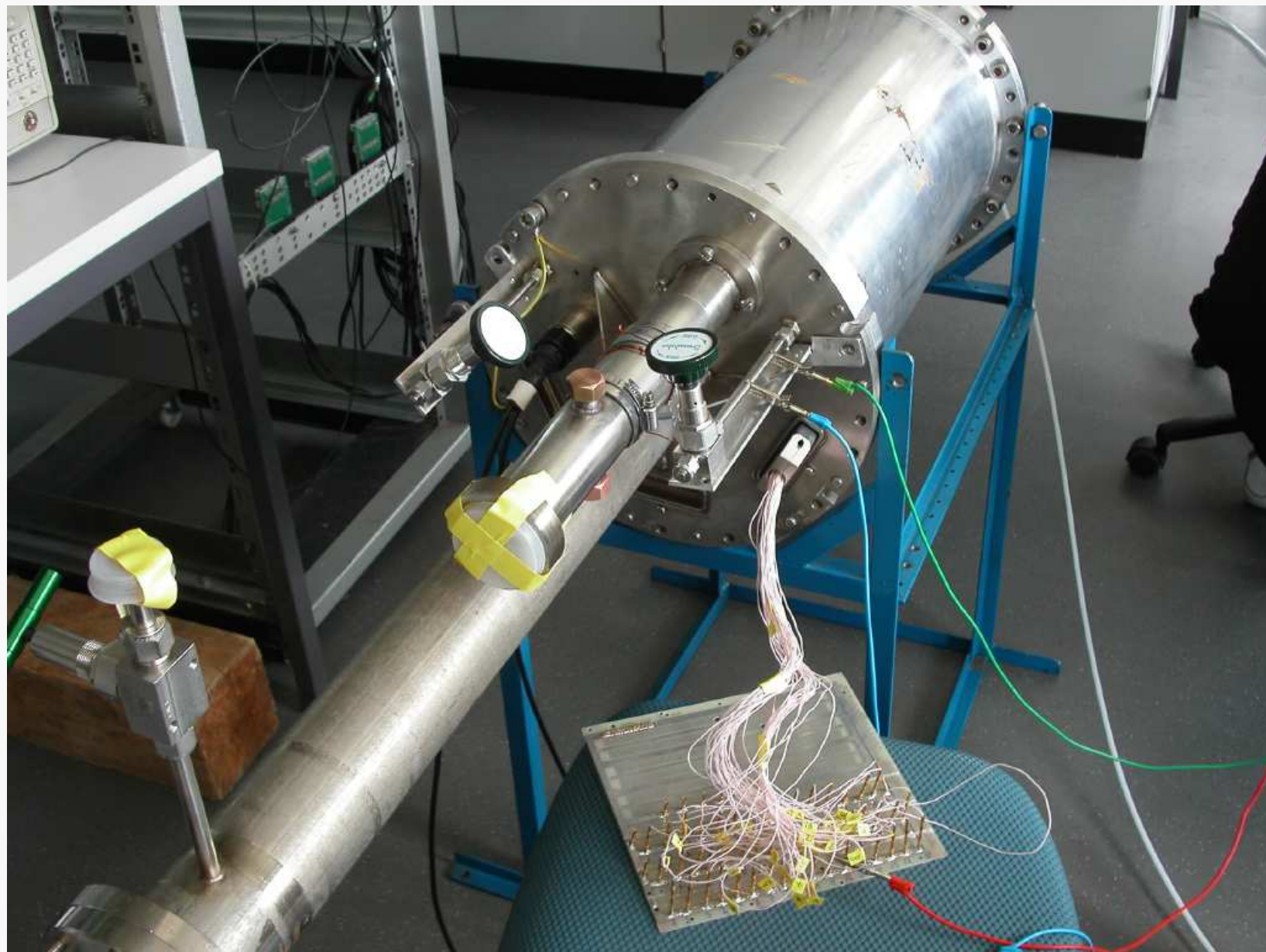


2.4m high



2.5x2.5m

Russian TPC Vessel



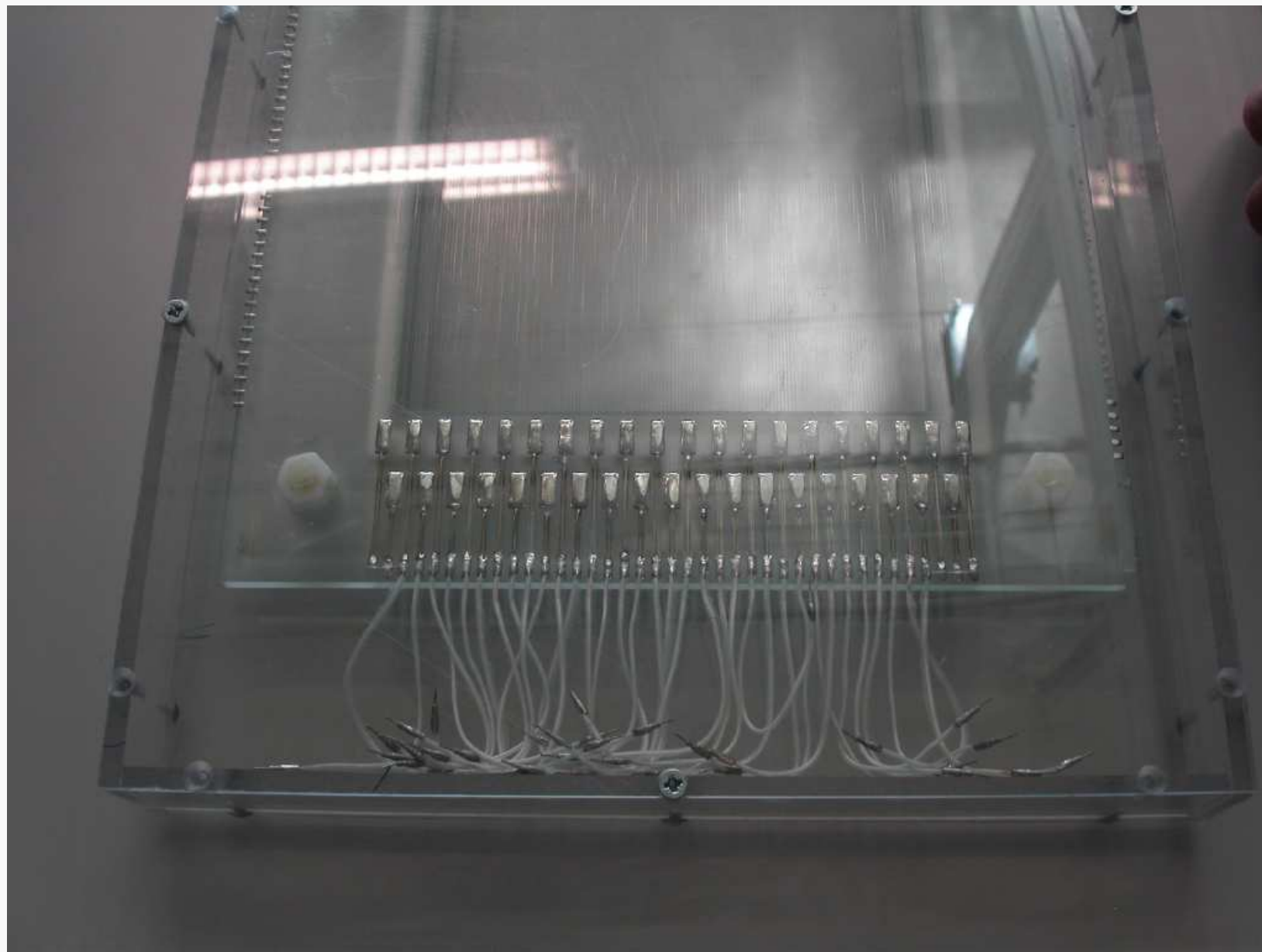
Measurements with PC

- ✓ 5 bar N₂: they reached 6.1kV without real current
- ✓ 10 bar H₂:
 - ◇ They started to see current (few nA) after 5 kV.
 - ◇ They went up to 6.5 kV and saw 20 μ A.
 - ◇ It was due to 2 wires.
 - ◇ The other wires were at 30nA.
- ✓ Remove PC, made some changes.
- ✓ Install PC inside vessel. Remeasure.
- ✓ Go inside PSI cleanroom on Monday May 2 to install TPC.
- ✓ Usage of PSI cleanroom until May 9.

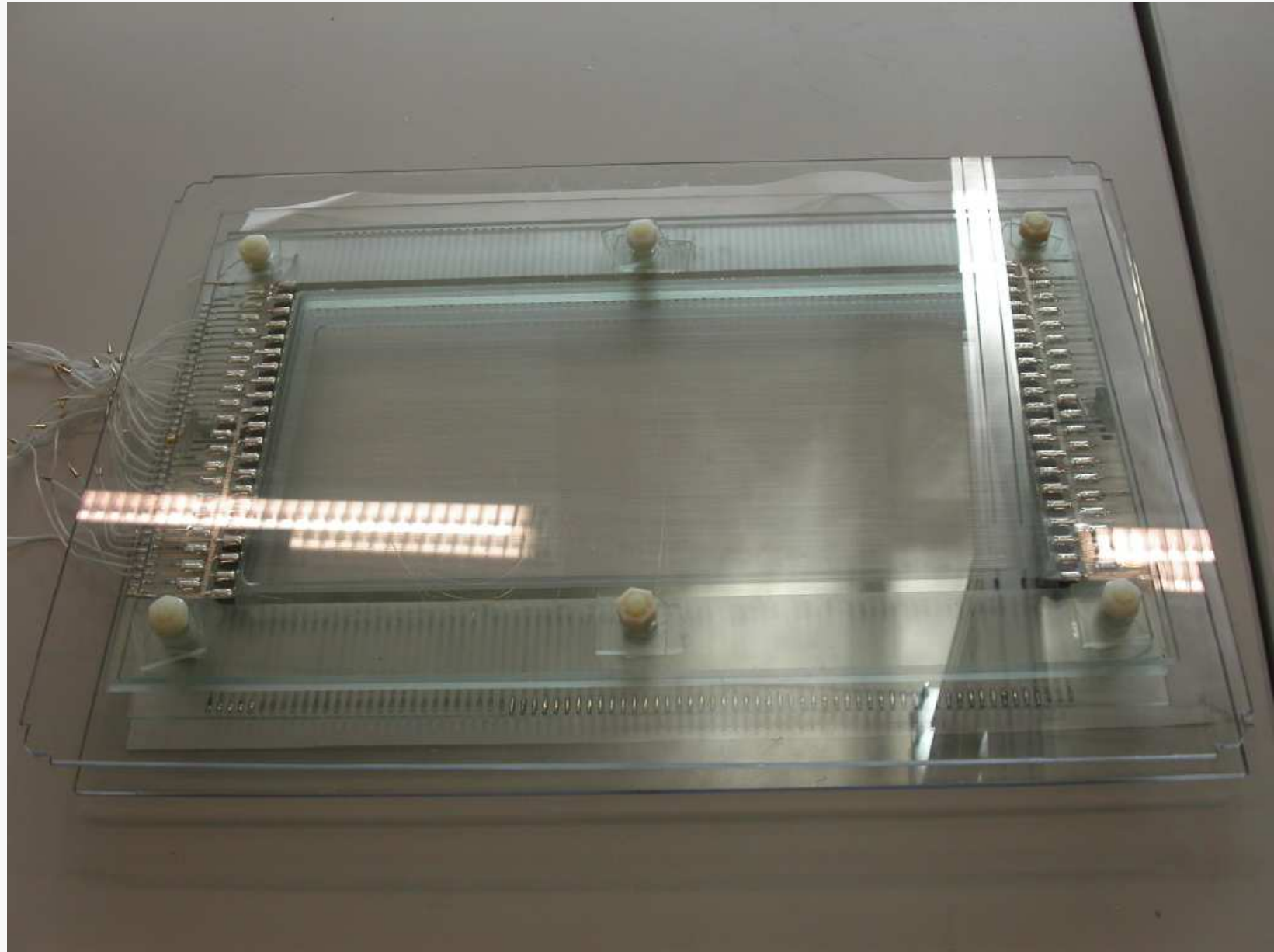
Three TPC planes



Strip Cathodes



Anode Plane



Old Drift Planes



My Worries



PSI TPC

- ✓ 10 bar N₂. Raising voltage slowly.
- ✓ At 5 kV, a trip occurred. Too fast to be measured by program.
- ✓ Continue.
- ✓ Discussions about TPC foot change exist.
- ✓ No way to change any valve installation around actual TPC.