

Overview of the Temple University MPGD Lab Facility

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Detector Lab (1)

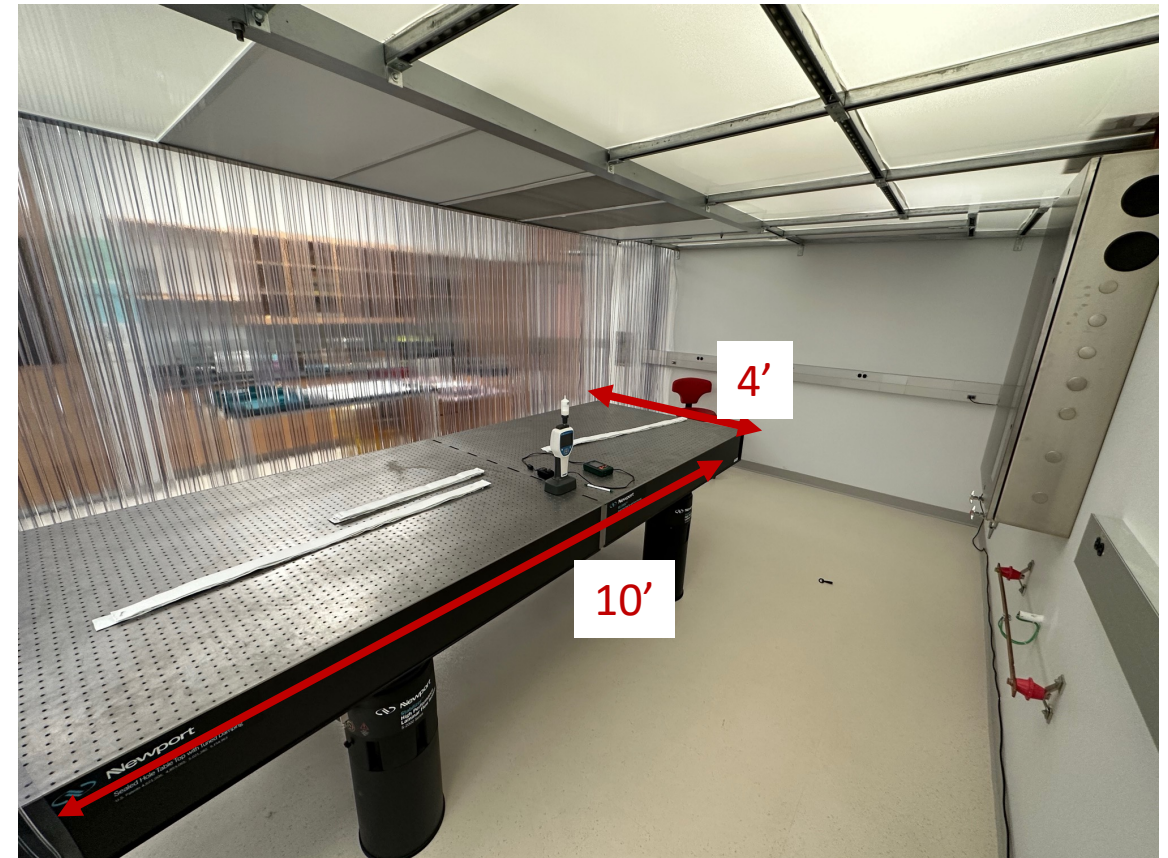
Assembled detector testing

- Portable class 1000 cleanroom (800 sq. ft)
- Cosmic ray test bench
- 4'x6' optical table (in cleanroom)
- Detector gas flow system
- SRS DAQ system (w/FECv6 + ADC + rcdaq)
- CAEN HV system
- Ultra sonic bath (27.5 in x 26 in x 20 in)
- DI water supply



Detector Lab (2)

- High-rate x-ray test station
- Class 1000 portable clean room with optical table



Detector Lab (3)

- Lab space (540 sq. ft)
- Table (5' x 11')
- Oven (30 in x 30 in x 35 in)



Detector Assembly Lab

Permanent class 1000 cleanroom (1,800 sq. ft.)

- Two Gas distribution panels
- Leakage current boxes
- Two humidity controlled N2 dry boxes (48 in x 35 in x 24 in)
- Humidity controlled dry box (no gas)
- 60 in x 100 in optical scanning system
- HV distribution box



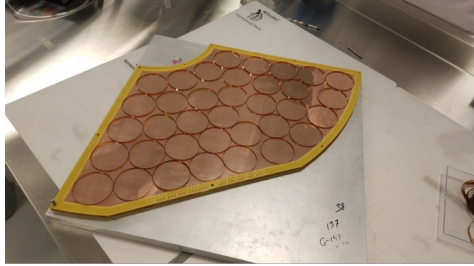
Detector Assembly Lab

Permanent class 1000 cleanroom (1,800 sq. ft.)

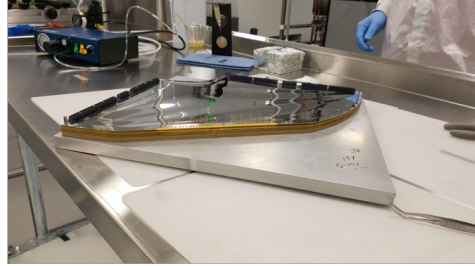
- MPGD cleaning, stretching, gluing and testing stations



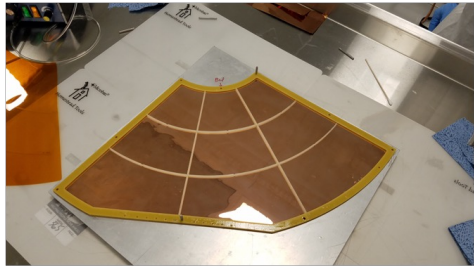
MPGD Facility



(a)



(b)



(c)



(d)

