# GT Proto chambers status report

7.Dec RPCTC meeting By DongHyun.Kim

#### Introduction

1. Request

- 2. Progress status
- 3. Mechanical advice

4. Summary

# Request(from lan)

- a) Drill 8 holes for mounting purposes -> Mechanic
- b) Clean and insulate the bottom and top gap HV connections (done) -> Insulator
- c) Check oV connection on gap -> Insulator
- d) ground the oV ref plane (Cu) done at Cu end -> Ground
- e) Insulate (Kapton tape & Mylar) the oV ref plane (Cu) from the Frame -> Insulator
- f) Gas connexions (I will look for 8 "T"s so that a parallel schema can be inplimented(improved flow for high flux) -> Gas connections
- g) Ground the patch panel. -> Ground
- h) Shield and insulate the Hv leads -> HV
- i) establish all 4 grounds -> Ground

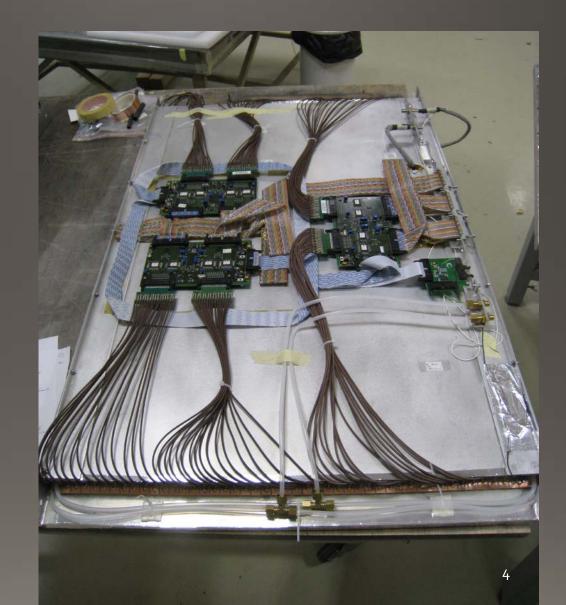
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oV of Hv
shield of HV
LV (done)
oV ref Cu sheet
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Total 5 kind 9 jobs

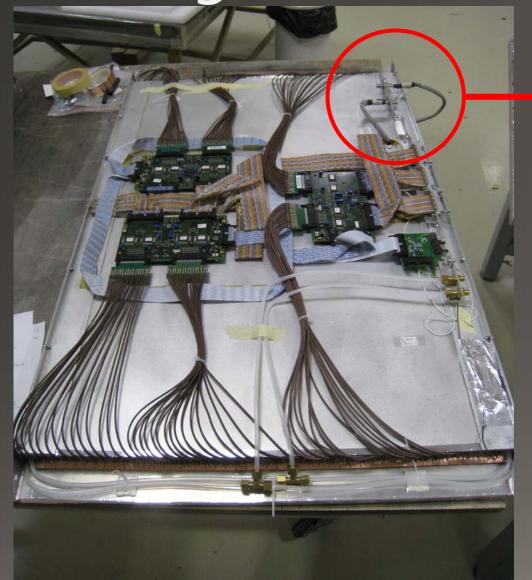
# Progress status

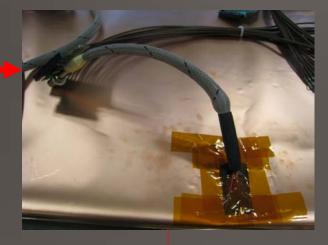
- GT chambers
  - √ 9 of 9 jobs done (100%)
  - ✓ Need to Leak test and HV test



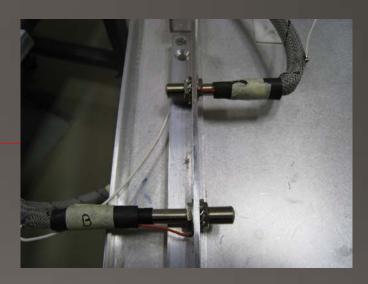


# Progress status - HV

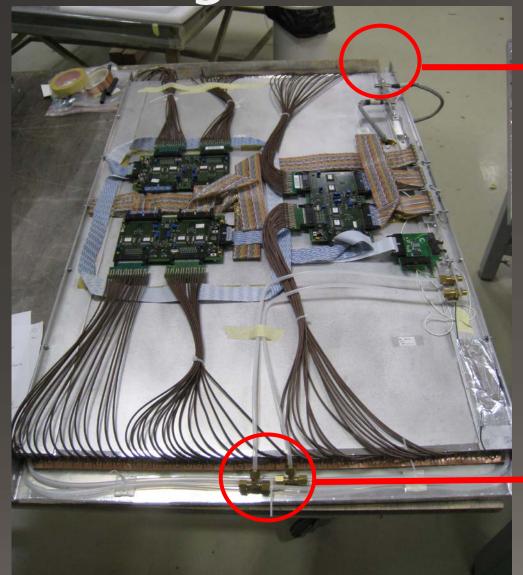








# Progress status – Gas pipe



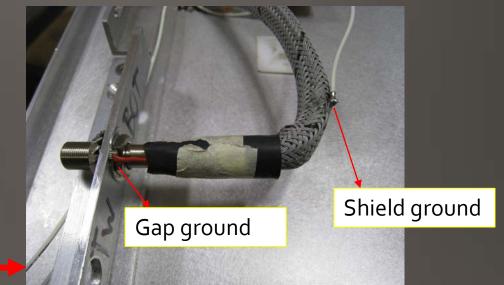


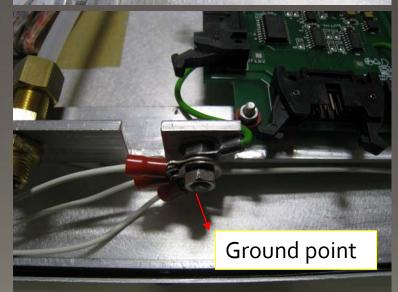




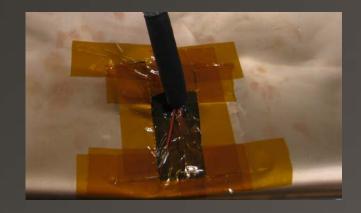
### Progress status - Ground



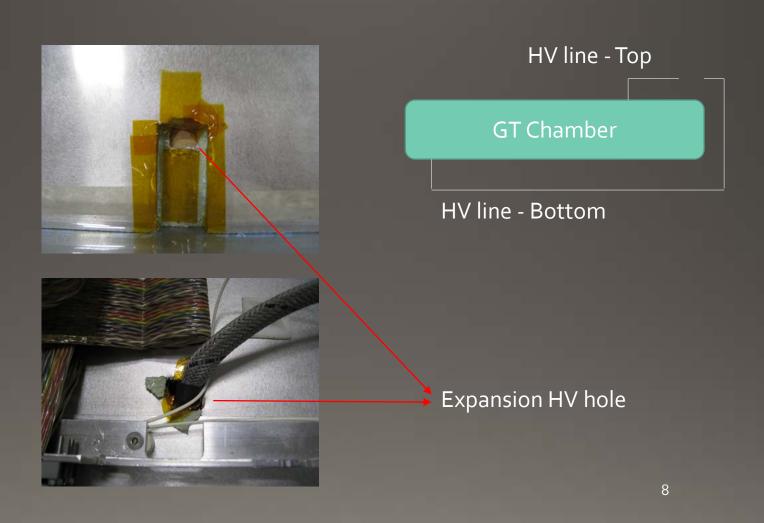




• HV



No HV shield block Protected by insulation tapes



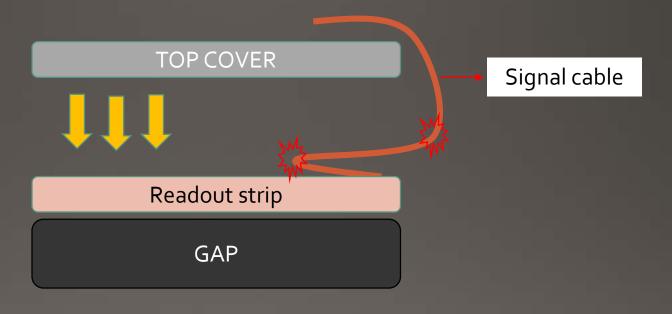
• Interfere between Gas pipe and Mounting hole



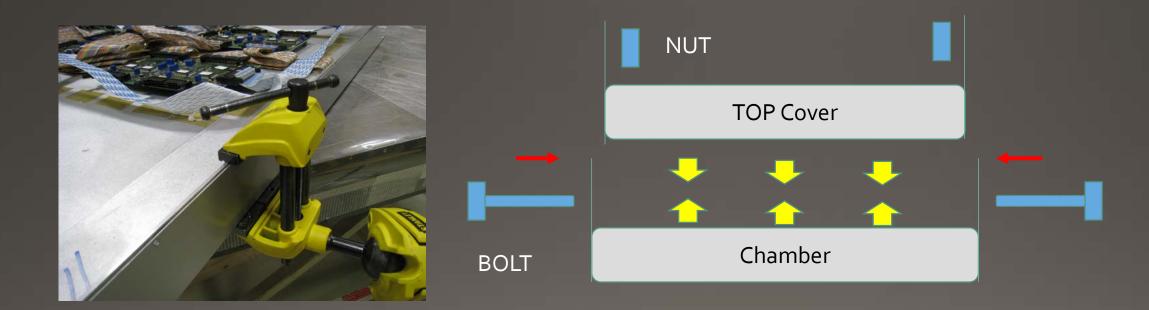


• Signal cable twist and pressure





• TOO DIFFICULT to Combine cover with chamber



Gap position holder

Not holding Gap position



Easy to moving

## Summary

• 2 GT proto chambers 100% done

Need Leak and HV test