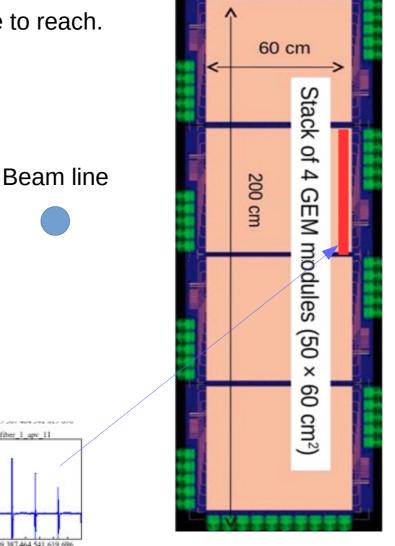
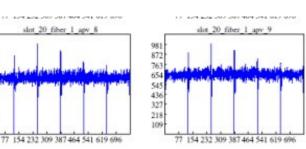
## **BB GEMs Update**

Sean Jeffas August 25, 2021

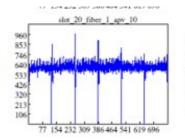
# **APV Connection Test**

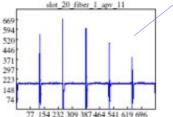
- One APV (out of 208) on an XY GEM does not look good. •
- It is located underneath other modules and impossible to reach.
- Thankfully it is on the edge of acceptance.





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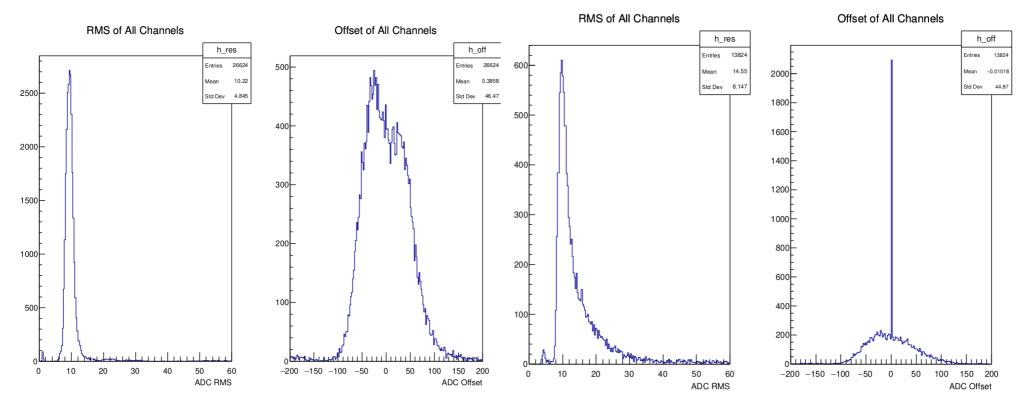


### **Pedestal Test**

- VTP was configured and pedestals were taken for both UVa and INFN GEMs.
- All UVa APVs look reasonable while INFN APVs have some unknown issues.
- INFN has discovered that their issues are related to our electronics, but still investigating.

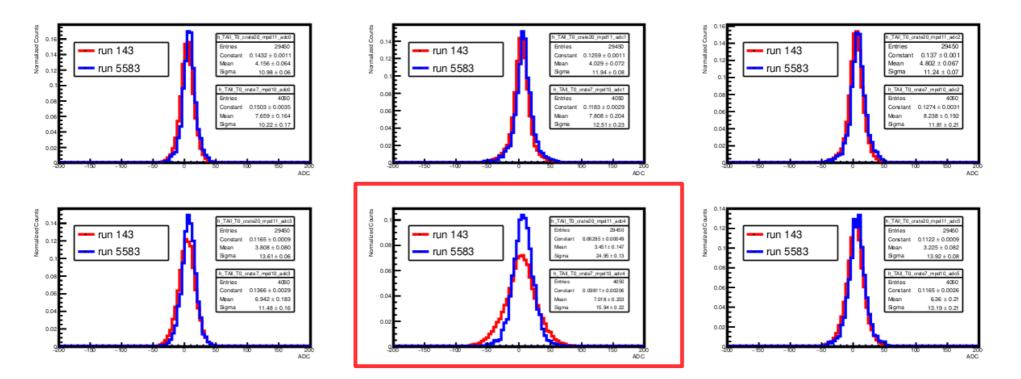
#### <u>UVa</u>

<u>INFN</u>



## **Common Mode Fluctuations**

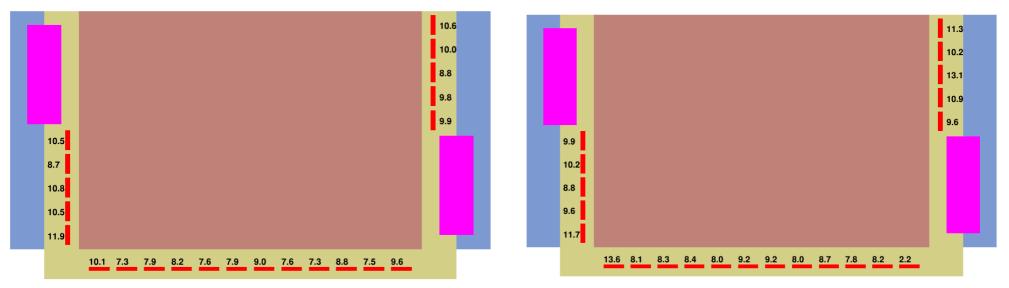
- Sigma of Gaussian fits were checked for all APVs.
- Also compared data from shielded modules in the cleanroom to the hall.
- Almost all results have a sigma less than 15 ADC, except for one outlier.
- Might be worth taking a lift to inspect APV?



### **Common Mode Fluctuations**

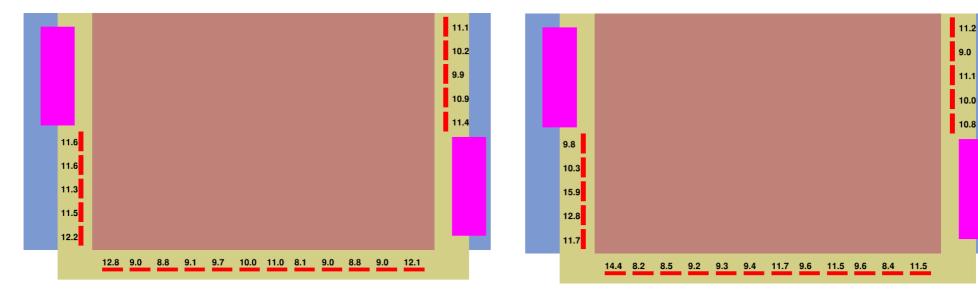
Module 0

Module 1



#### Module 2



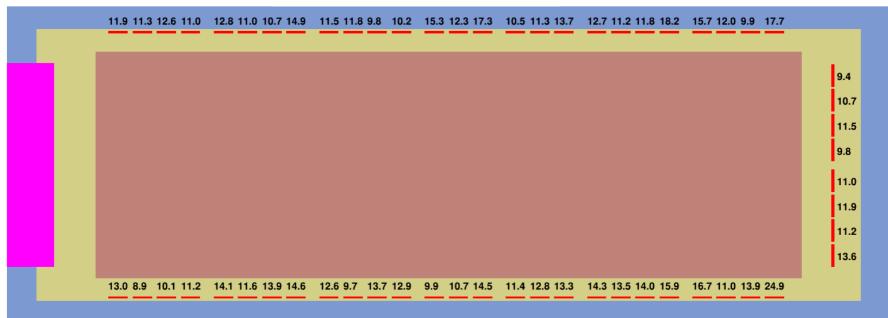


#### **Common Mode Fluctuations**

UV Module 3



UV Module 4



# **Cosmic Trigger**

- HV test was stable for all UVa GEMs.
- There is no good trigger, so we have to settle for the shower and pre-shower.
- Cosmic data will be taken every day now until start of experiment.

