# Beam check- pedestal study

Jie Liu

06/22/2016

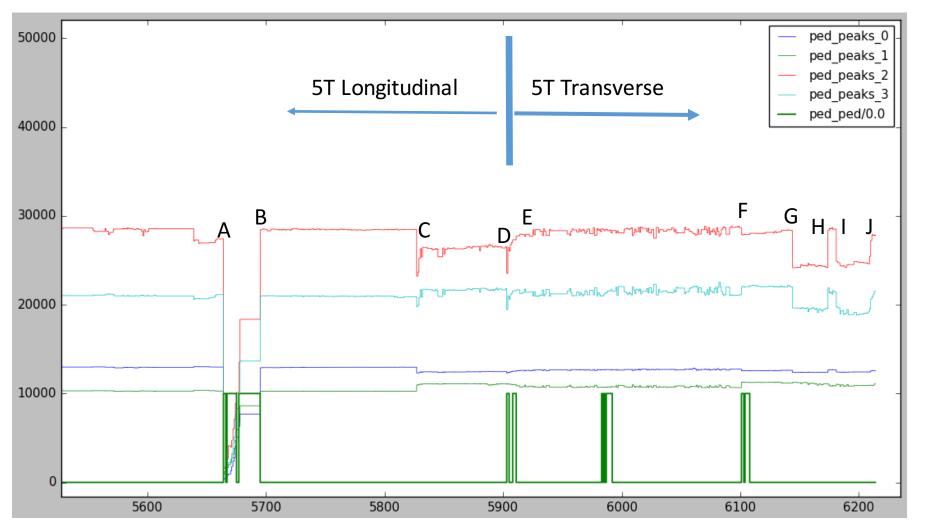
### Last Time

# Carbon Cover (carbon sponge)



- carbon sponge put inside the case of the BPM receiver
- not electronic
- used to absorb the background radiation
- about 1mm thick

Carbon cover added twice (one near 5817, one near 5903) BPM gain/division setting did not change from run 5485 to 6218



### A:

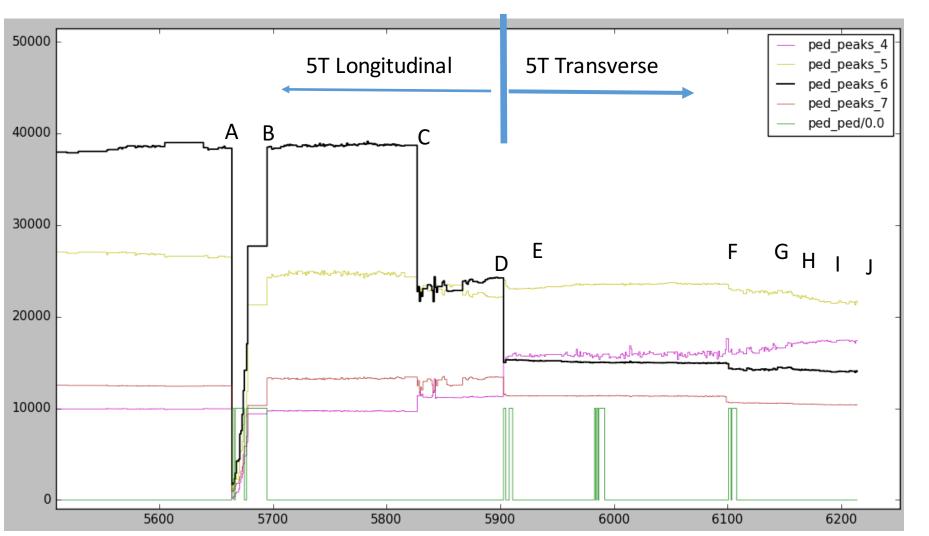
- septum trip, broken water line
- Bigbite power supply issue

### A-B:

- Beam off 21 hours
- beam noise check runs, with a lot of gain settings

### C:

- Beam off 2 hours
- Add the carbon cover to BPMB
- Move the BPMB receiver to ground
- Pengjia does not remember about BPMA, may not move



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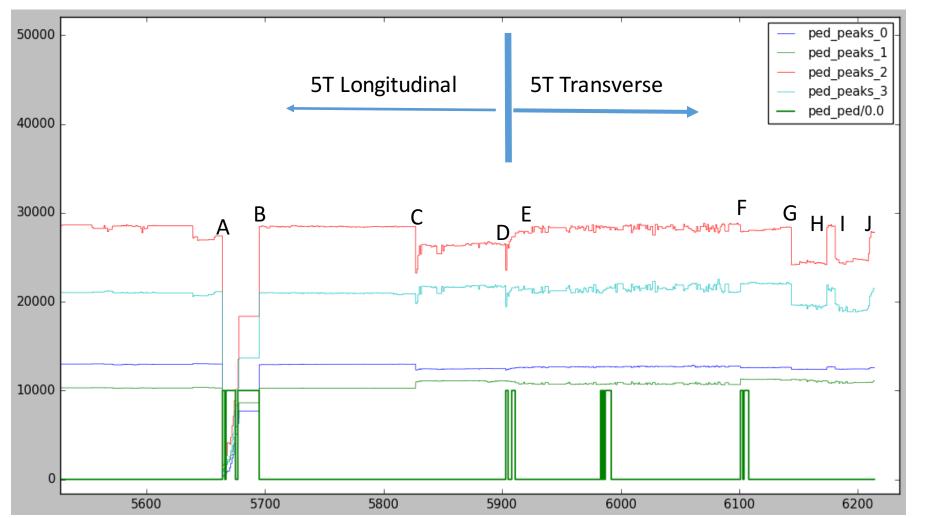
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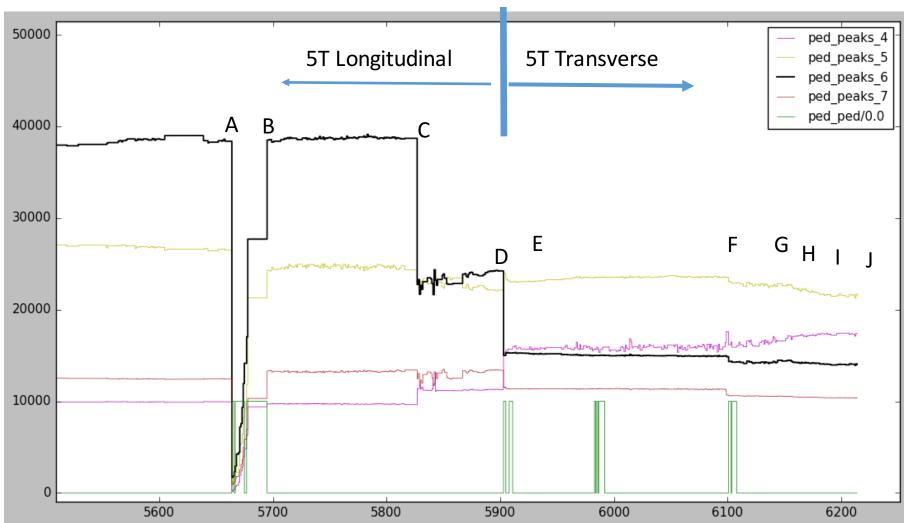


### D:

Add second carbon cover

### D-E:

- Run 5903-5904 pedestal run
- 5903-5904 taken within 4 mins
- Target ramp up/down/up during Run 5905-5906
- Run 5909-5910 bpm calibrations
- After run 5910, target quench
  ~ 10 hours
- Run 5911-5920 bpm calibrations
- Pedestal became stable from Run 5911

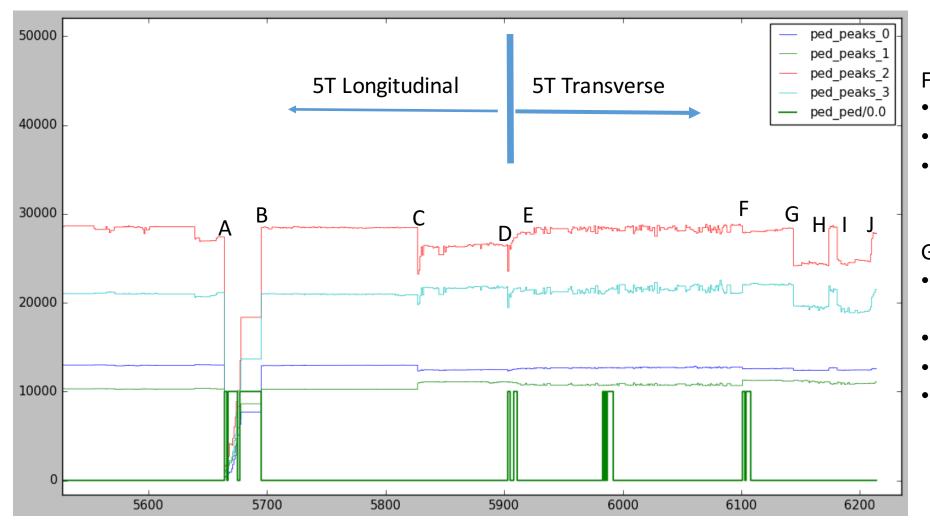


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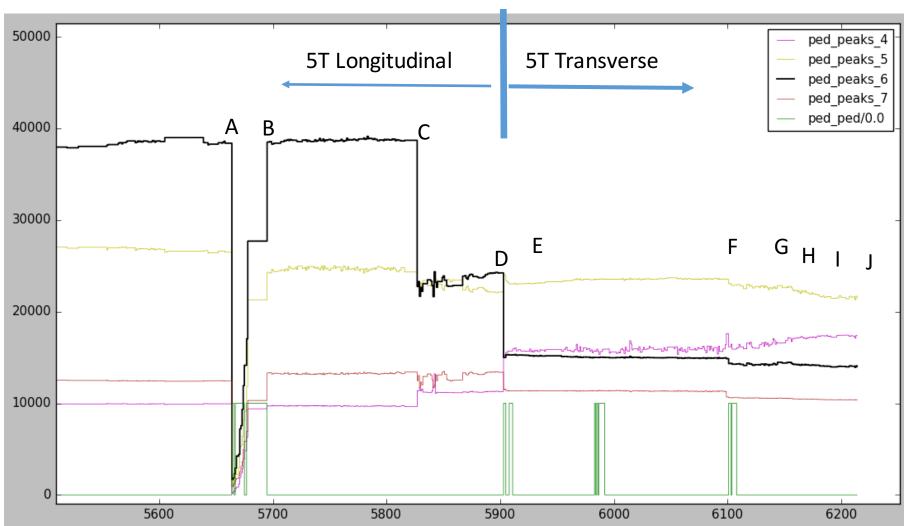


#### F٠

- Moved to 3.3GeV setting
- 10 hours beam off
- Pedestal run 6101-6102

### G:

- After run 6143, septum trip and Moller
- After Moller, flood in Hall A
- Beam back run 6144
- 20 hours between run 6143-6144

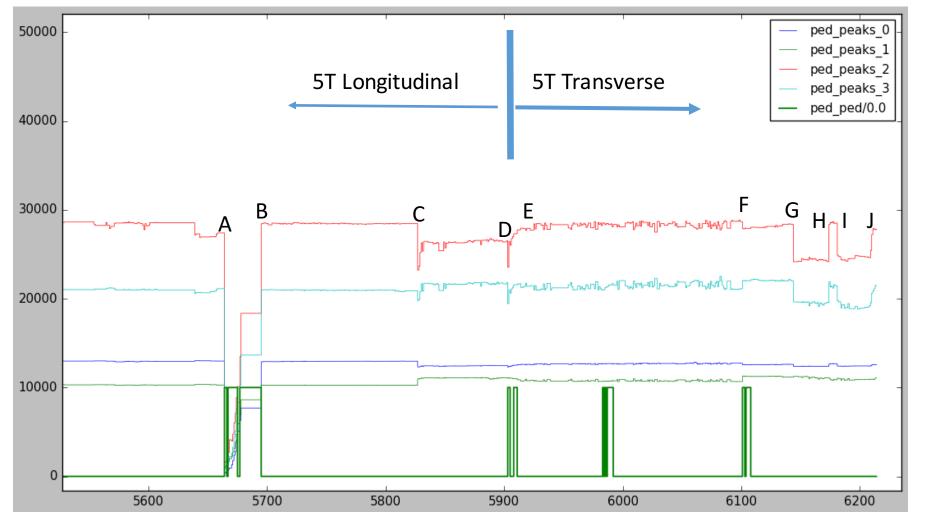


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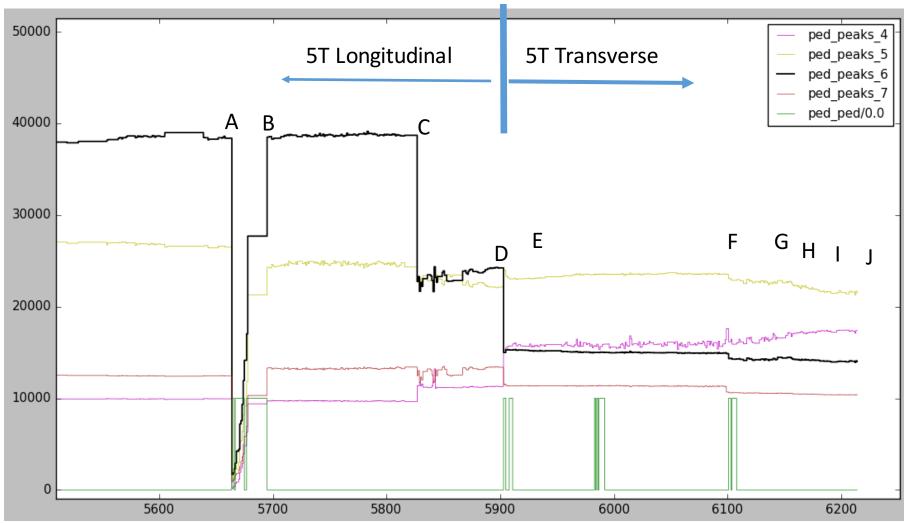
- After run 6173, target anneal
  BCM calibration
- 2.5hours later, back production

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- After run 6179, escorted access to check septum trip (not real trip, but rebooted)
- 2 hours later, back production

### J:

- Jumps happen run 6210
- But continuous taking data from run 6208-6212, no stop



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