# BPM status
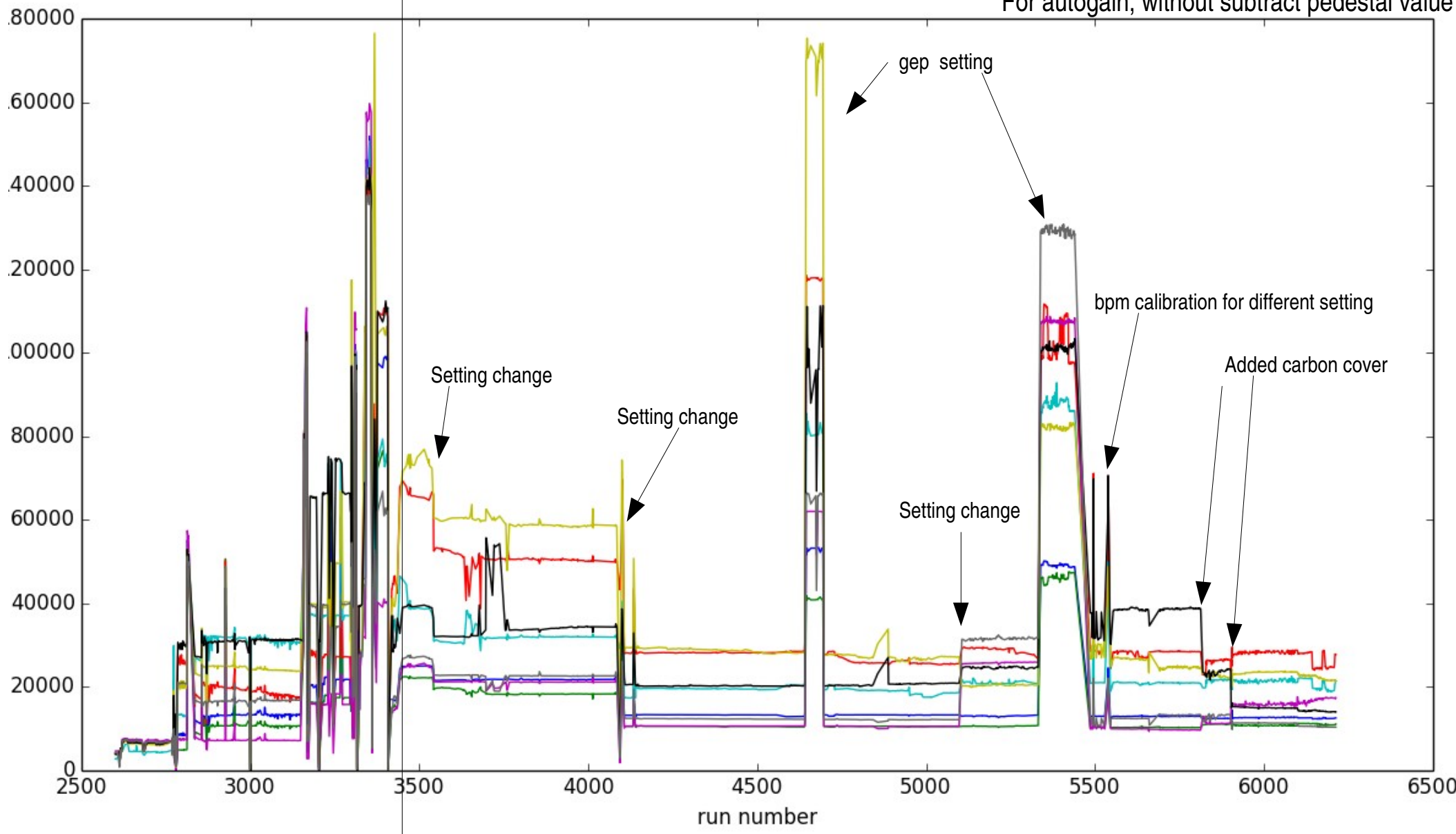
Pengjia Zhu

Pedestal change during experiment

Pedestal runs & events below 2nA(use 2nA as beam trip cut)

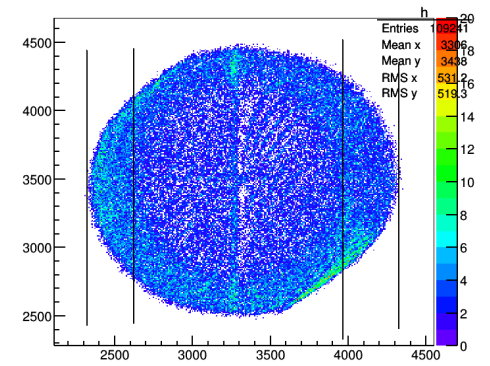Use the nearest pedestal value for each run(need to double check for calibration)

For autogain, without subtract pedestal value

gep setting

bpm calibration for different setting

Added carbon cover

Setting change

Setting change

Setting change
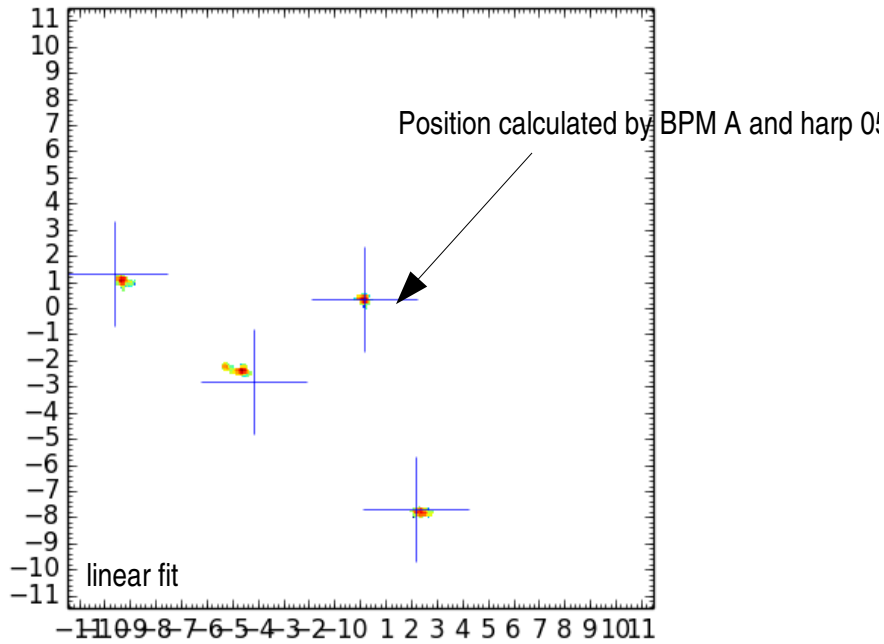
run number

autogain | fixed gain

2

Range 5104~5338

– backup bpm B receiver

– no straight through calibration run

– using BPM A and harp 05 to calibrate BPM B



Raster size at target: ~14.9mm

43nA,using bpmb_5107.dat

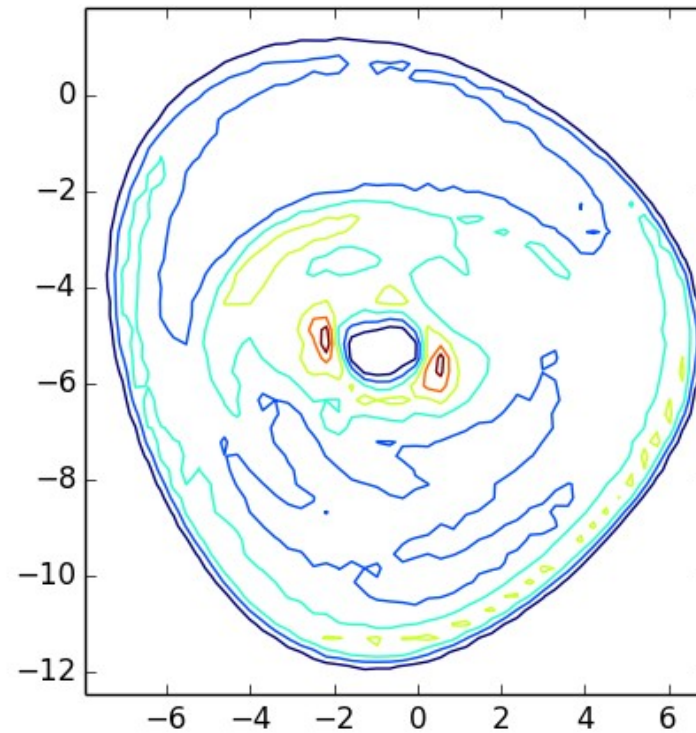Position calculated by BPM A and harp 05

linear fit



Raster shape at BPM B



Uncertainty: (Survey + bpm resolution)

For 2Hz filter:
BPM A:0.15/0.17mm
BPM B:0.31/0.34mm
Target:1.22/1.33mm

For 150Hz filter:
BPM A:0.2/0.2mm
BPM B:0.35/0.46mm
Target:1.4/1.8mm

Target offset: ~ -5.5mm (from target decoder and halog)

3

Todo:

Calibrate ~3185 optics run and uncertainty

Double check for left arm calibrations for each periods

Do right arm calibrations

Finish raster calibrations

Will try to finish in one week