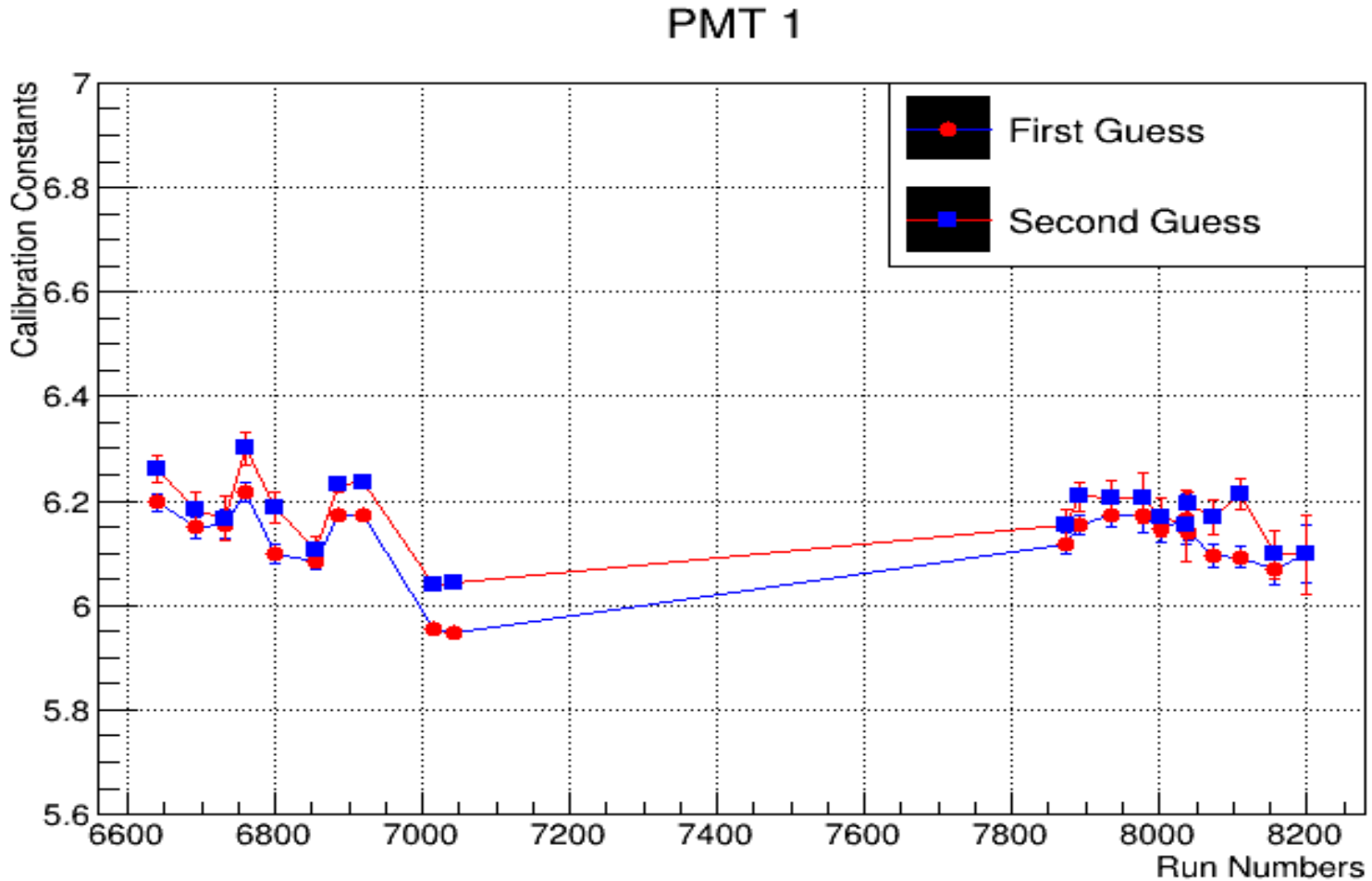


Analysis updates

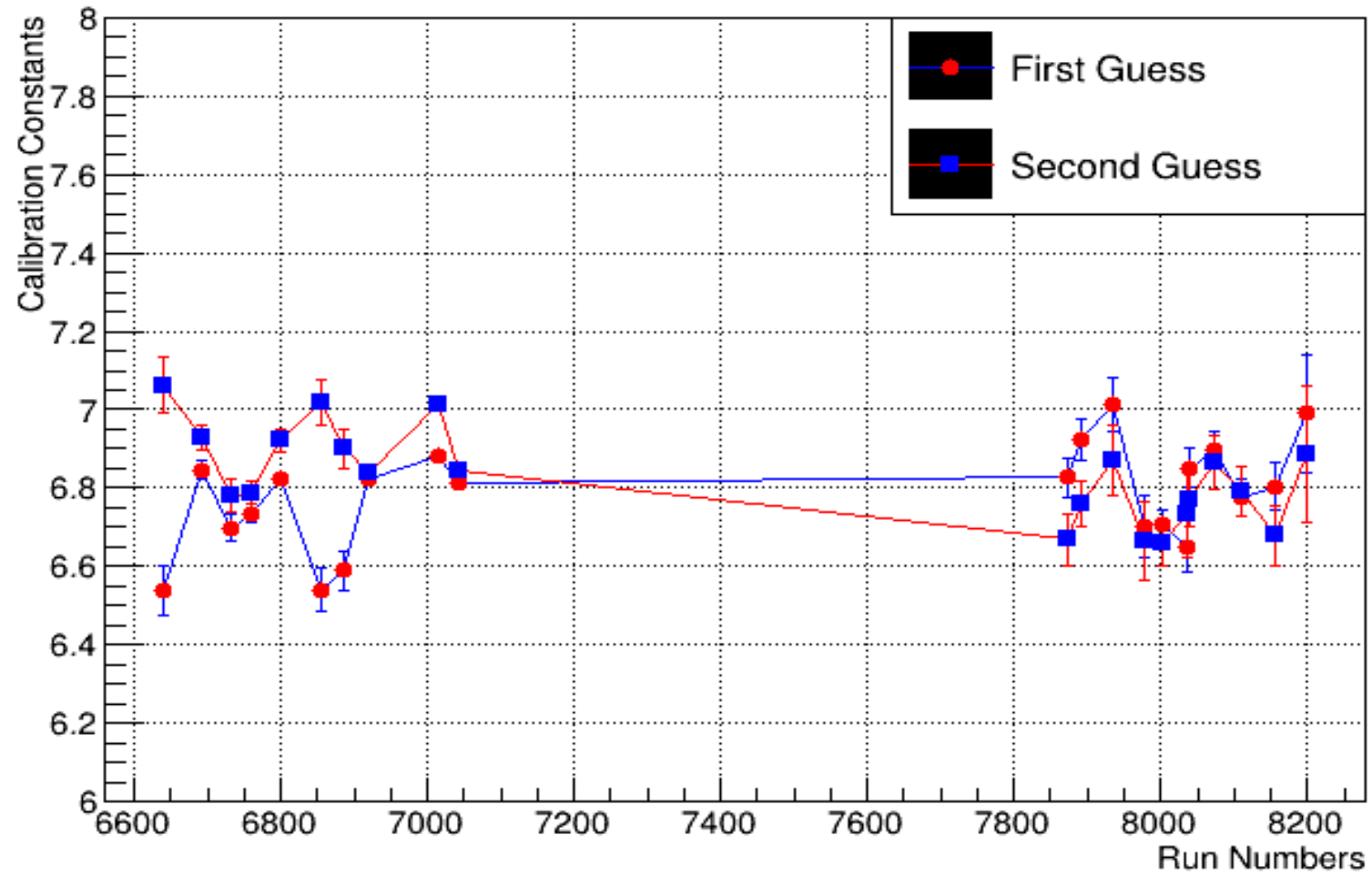
Calibration (SHMS), HGC

Consistency of parameters

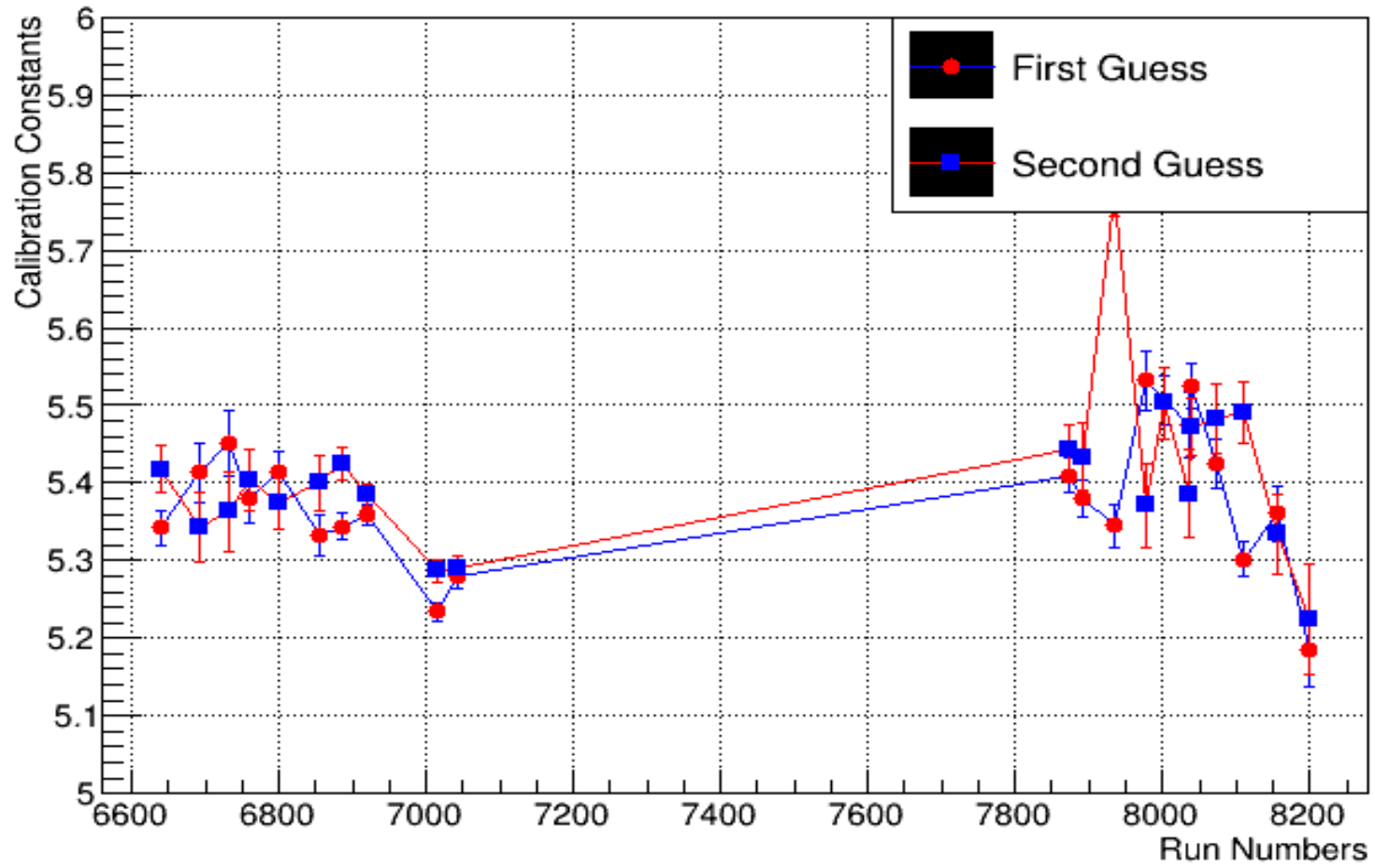
Runs are included from all beam energies except 10 GeV run plan



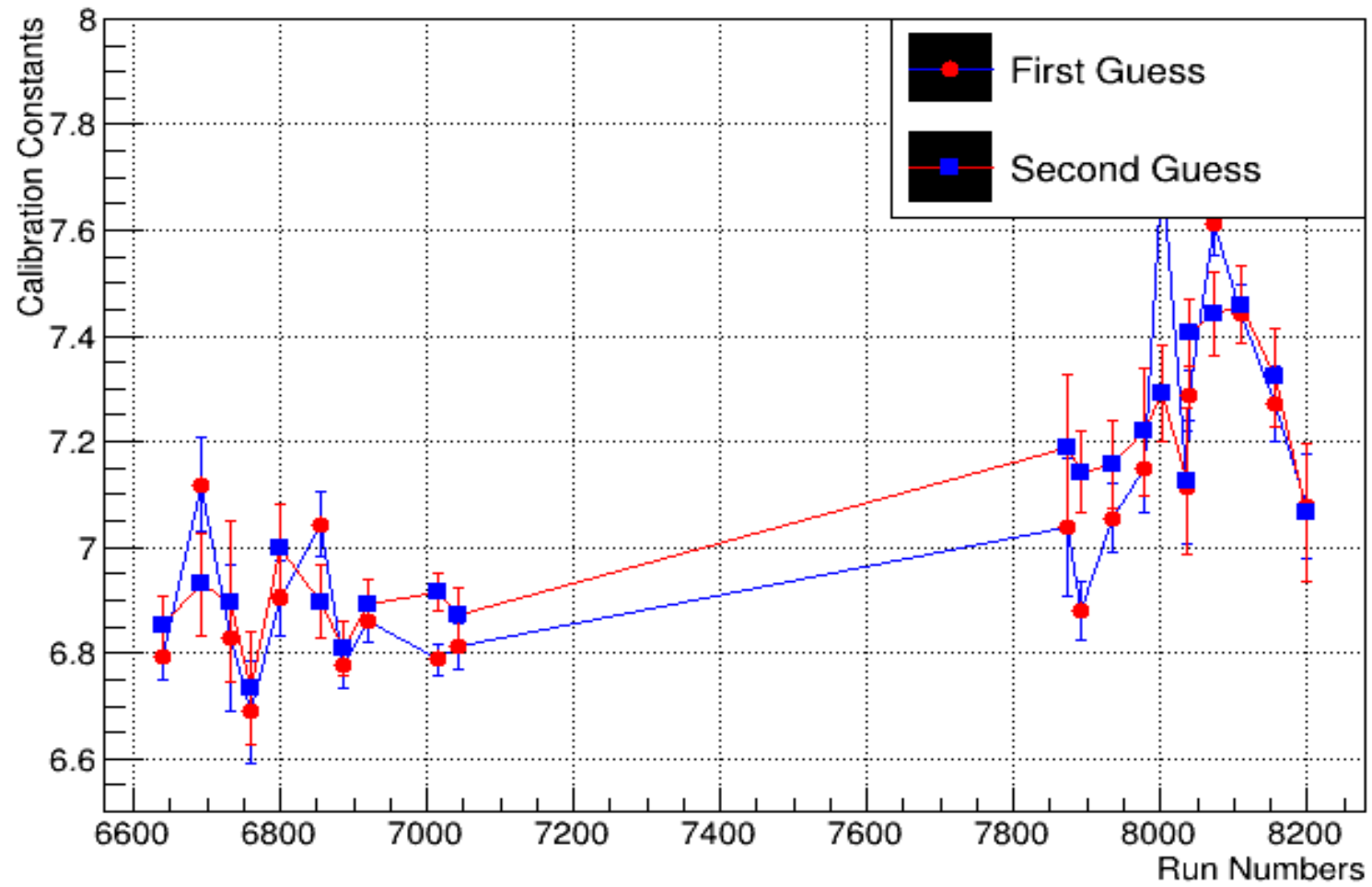
PMT 2



PMT 3



PMT 4



Pion Run: I have also compared the parameters just before and after the major power outage in the pion experiment (Summer run 2019).

$E_{\text{beam}} = 3.66 \text{ GeV}$
 $P_{\text{shms}} = 2.4 \text{ GeV}/c$

8585
8586
8587

8603
8604
8605

phgcer_adc_to_npe are:

5.873 +/- 0.019
6.626 +/- 0.042
5.102 +/- 0.023
6.542 +/- 0.051

From quality control

6.182 +/- 0.027
6.757 +/- 0.047
5.198 +/- 0.028
6.800 +/- 0.062

phgcer_adc_to_npe are:

5.930 +/- 0.023
6.636 +/- 0.066
5.178 +/- 0.033
6.776 +/- 0.096

From quality control

5.998 +/- 0.035
6.787 +/- 0.072
5.152 +/- 0.039
6.598 +/- 0.106