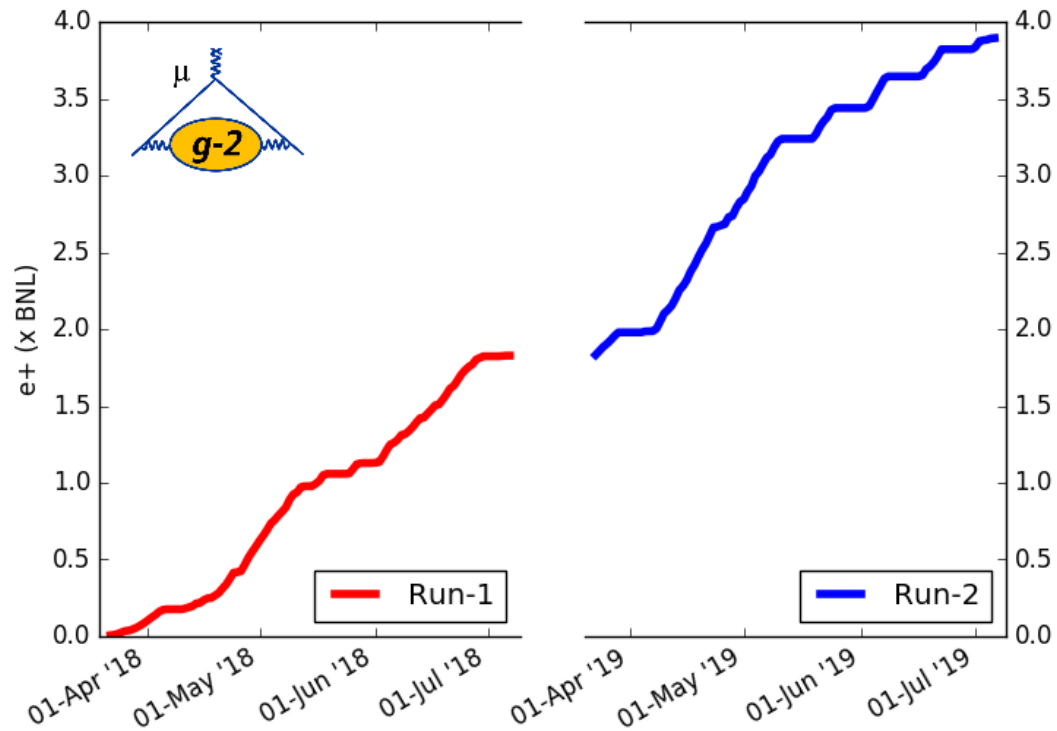
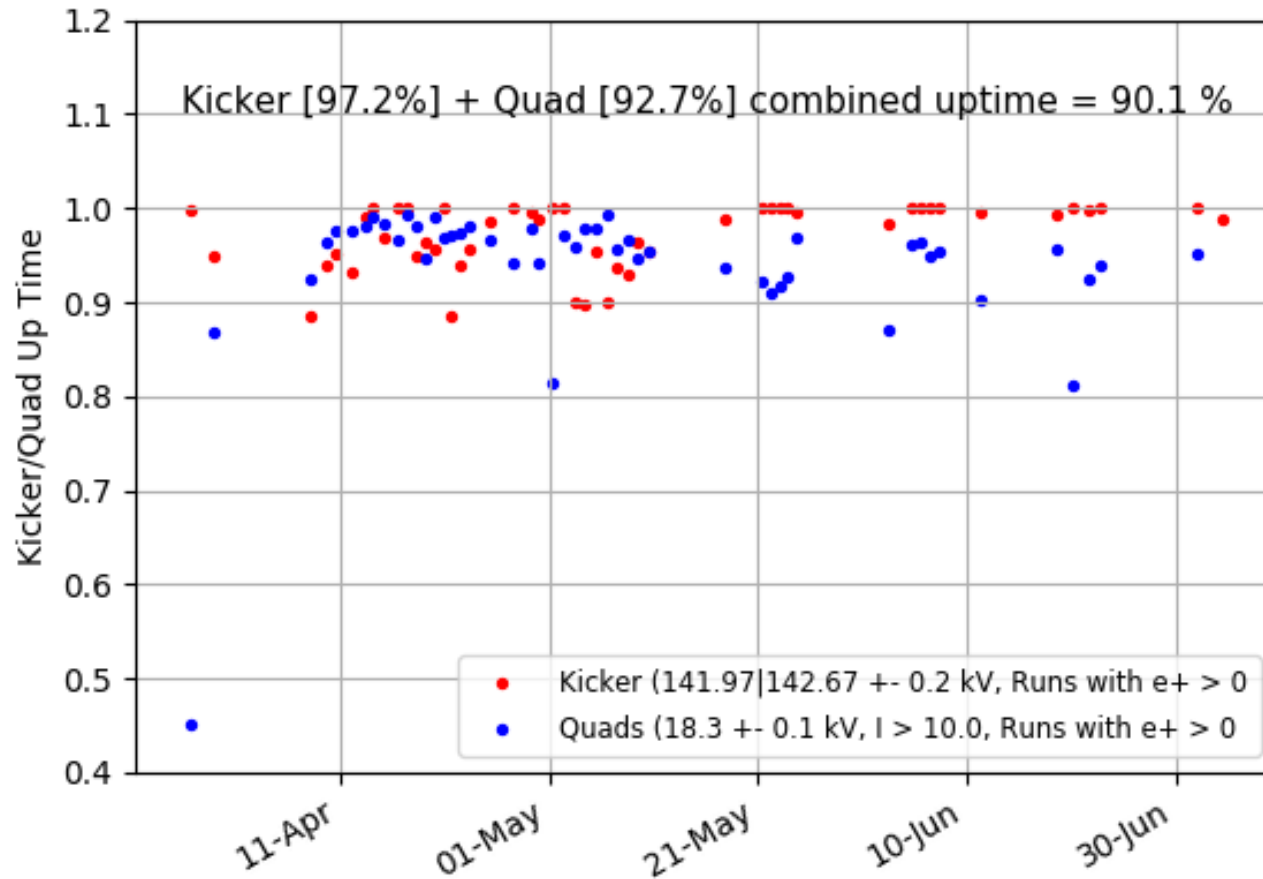


Run-2 data taking period finished at the start of July.

Data was accumulated x1.6 quicker per day compared to Run-1 although the running period was shorter due to a shortfall in the accelerator operations budget leading to 36 days when the accelerator was off.

A dataset x2.2. that of BNL was accumulated: the overall dataset is now almost x4 that of BNL.

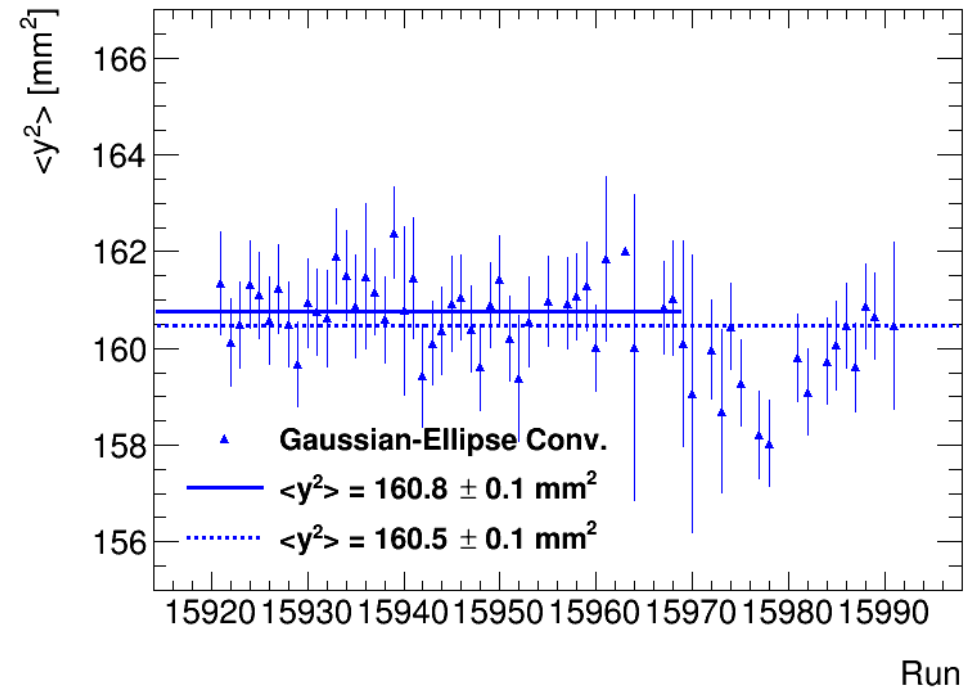
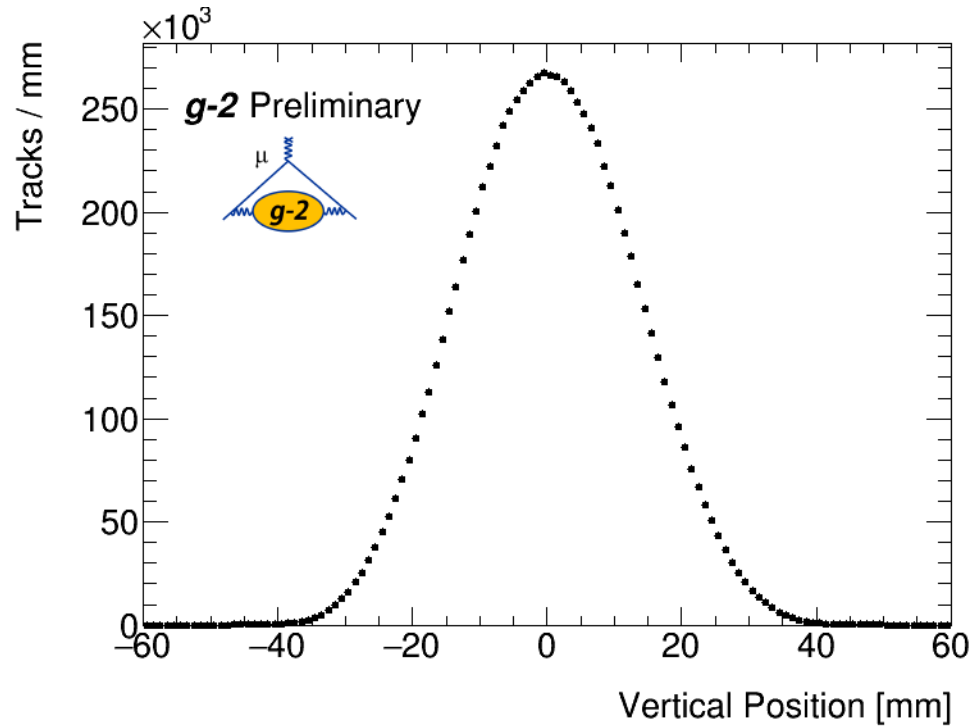




Improvement in rate over run-1 due to reduced sparking/downtime in quads & kickers.
 Combined uptime > 90%.

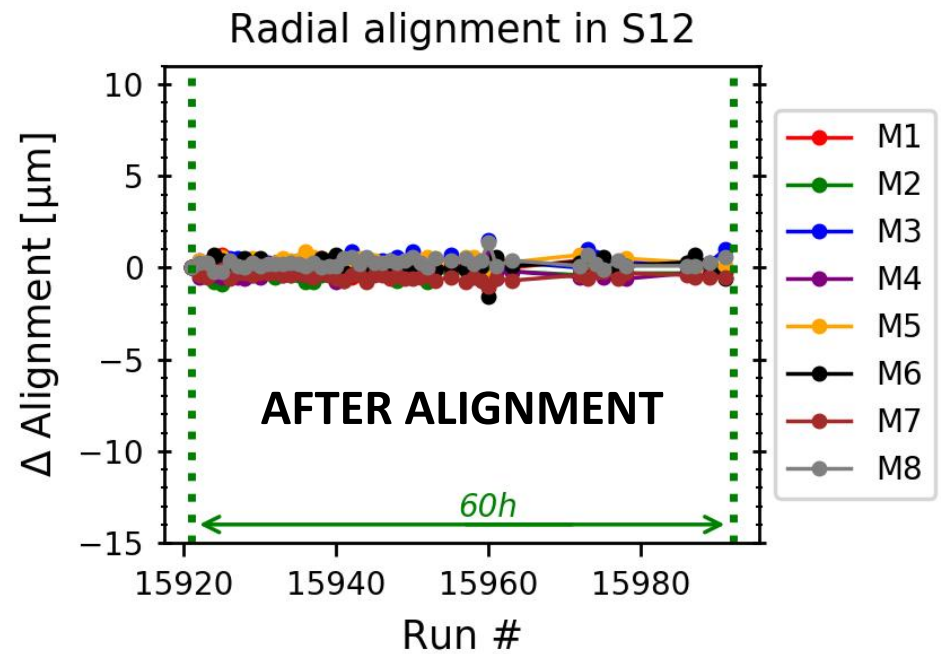
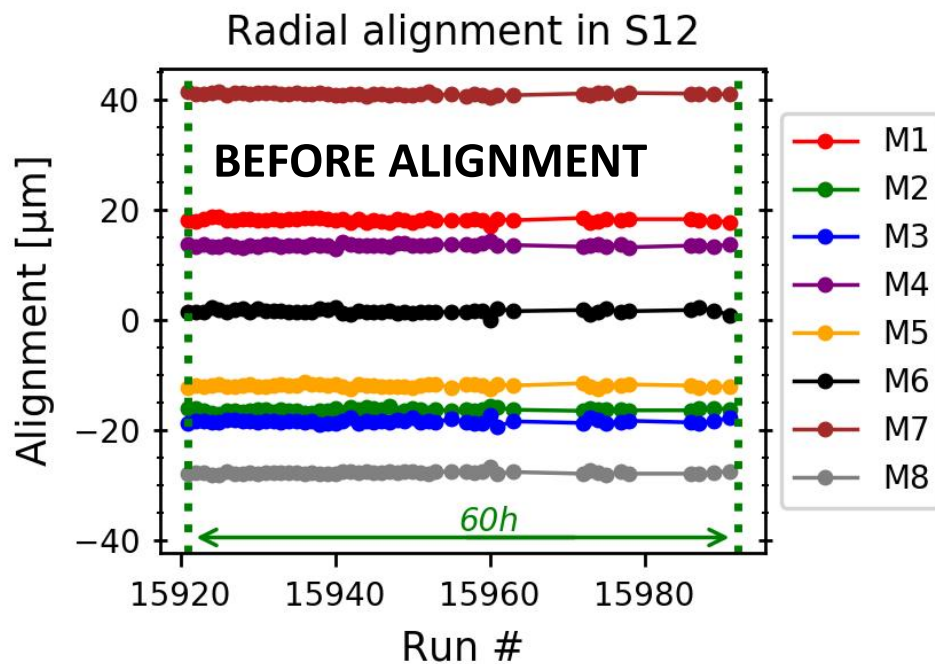
Tracking detectors performing very reliably.

Effort now focused on evaluating systematic uncertainties and impact on the pitch correction due to vertical motion of beam.



Now largely complete: systematic uncertainty on pitch correction likely to be at least factor of 2 better than BNL.

- Track-based residual minimisation using MILLIPEDE has been performed to determine per module misalignments.
- Overall they are small : $< 50 \mu\text{m}$.
- But applying these corrections has improved the average p-value of the tracks & the fraction passing quality cuts and hence used in the analysis.





WP2 : Mu2e Detectors

Milestone-3 : Installation of MU2e HPGe detector : 01/01/2020

Integration of the STM DAQ with the Mu2e DAQ continuing at FCC in FNAL.



UCL firmware engineer was at FNAL in May to develop ROC firmware and DTC integration

Delivery of HPGe detector expected in April 2019 has been delayed. The crystals produced by the vendor (Canberra) do not meet the requirements in the tender. They are expediting the production of new crystals: delivery expected Sep 2019 at the earliest.