

The $n^3\text{He}$ Run Status for Beam Cycle 1

Summary of 1st Beam Cycle Data

Run Range: 17400 to 38214 (excluding initial test runs)

Total Runs on tape(on basestar) : 20815

Number of GOOD Runs : 16684

Number of runs with partial last event : 246

(Still GOOD if last event is skipped)

Number of runs with partial beam or NO beam : 2820

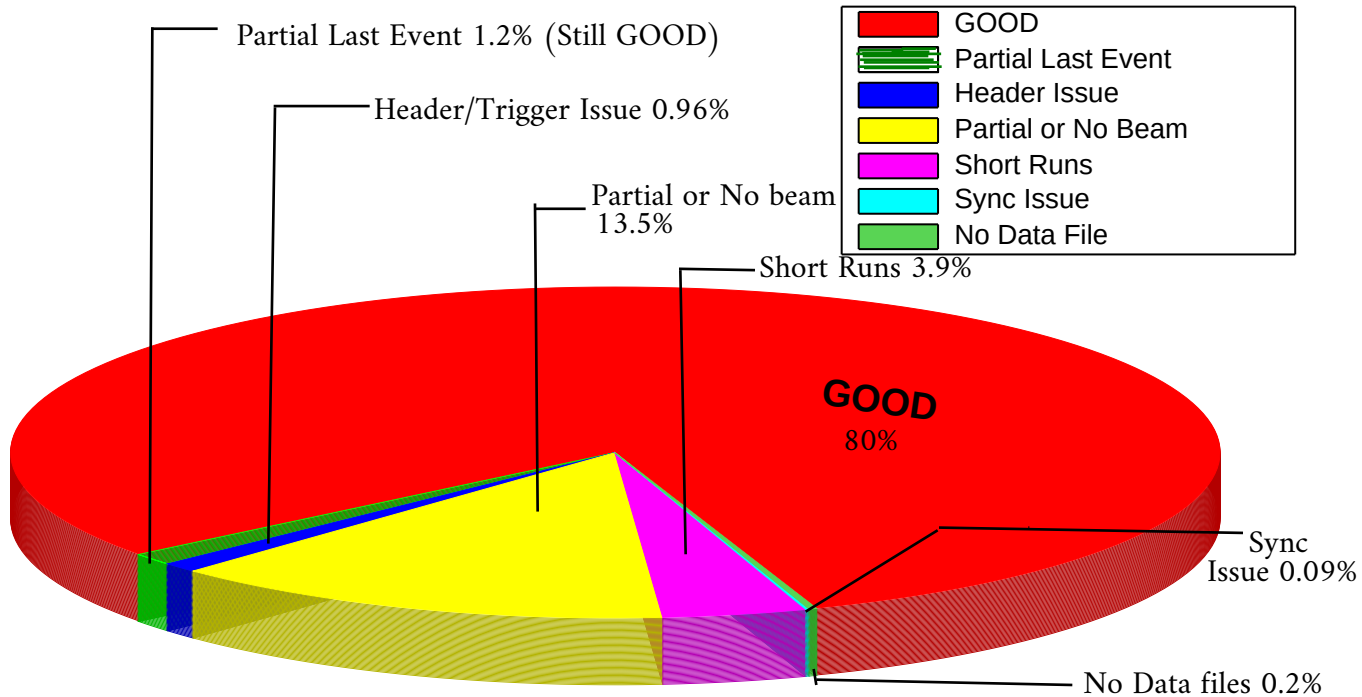
Number of runs with header/trigger issue : 201

Number of short runs : 802

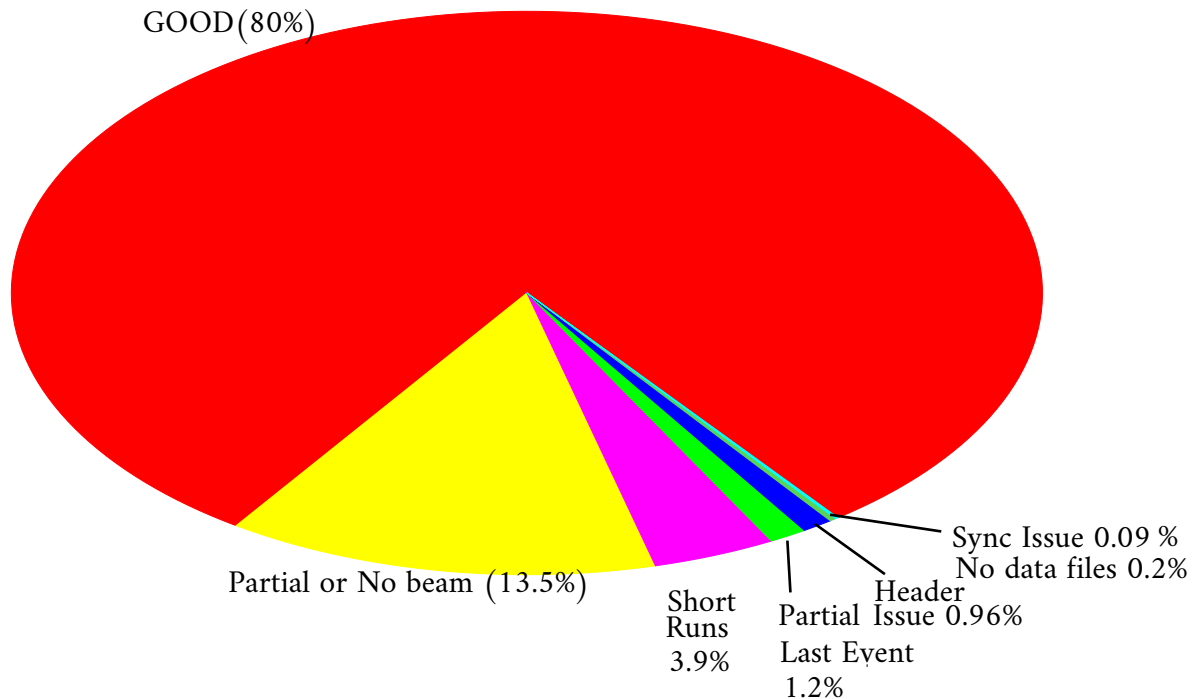
Number of runs with synchronization issue : 19

Number of runs with NO data files on basestar: 43

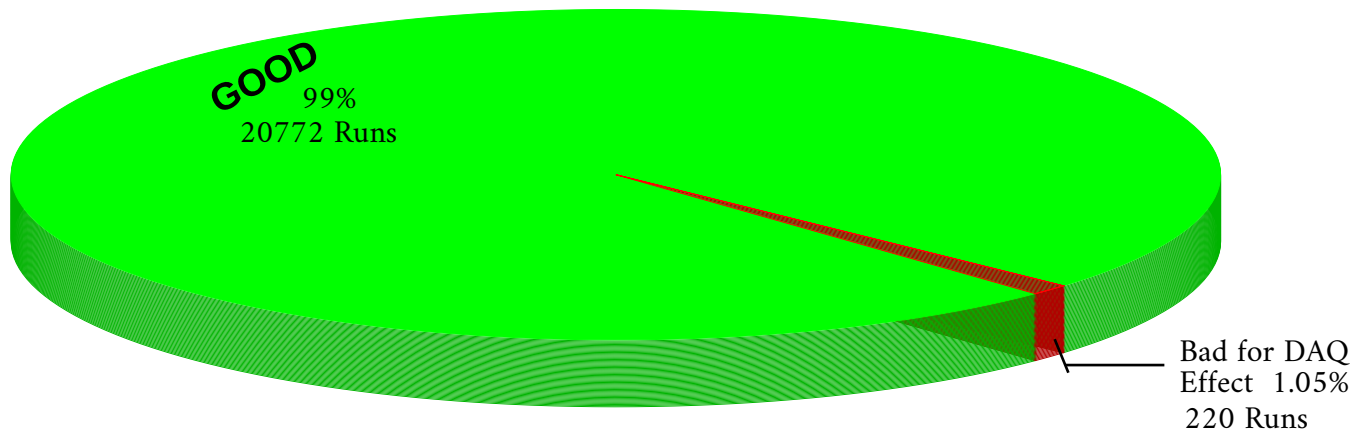
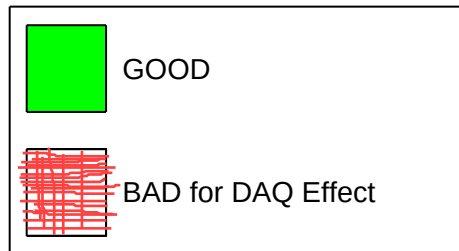
n3He Run Status for Beam Cycle 1



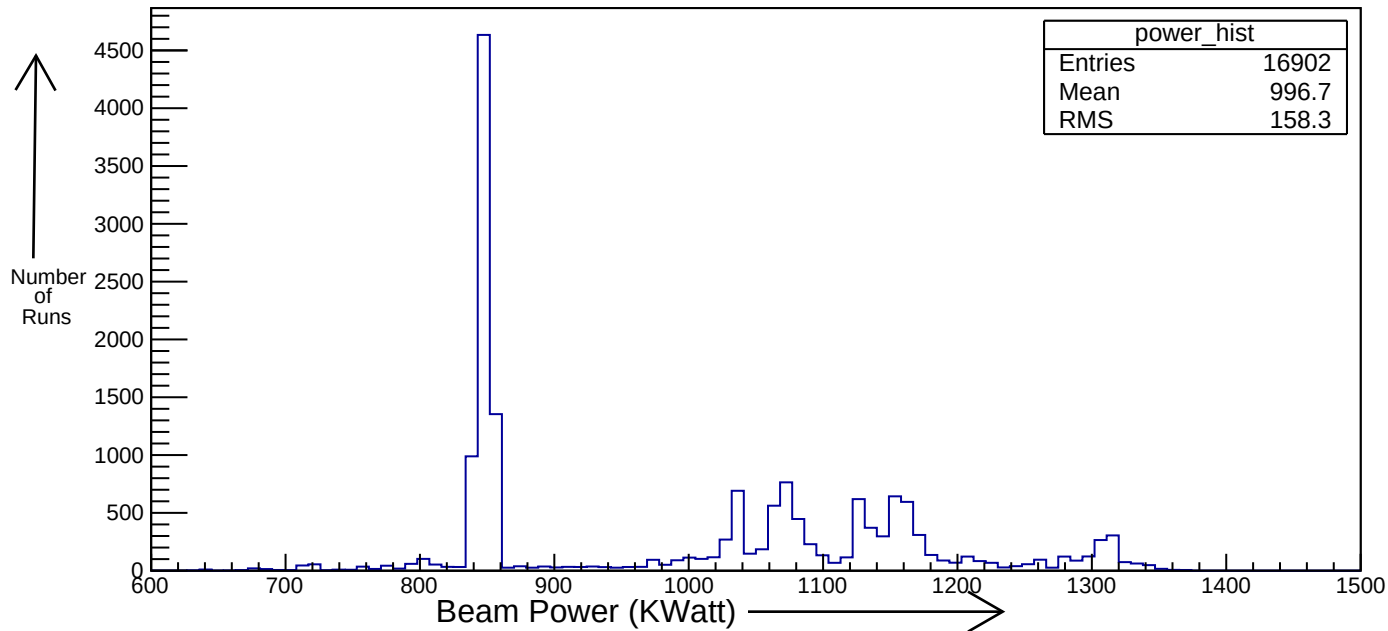
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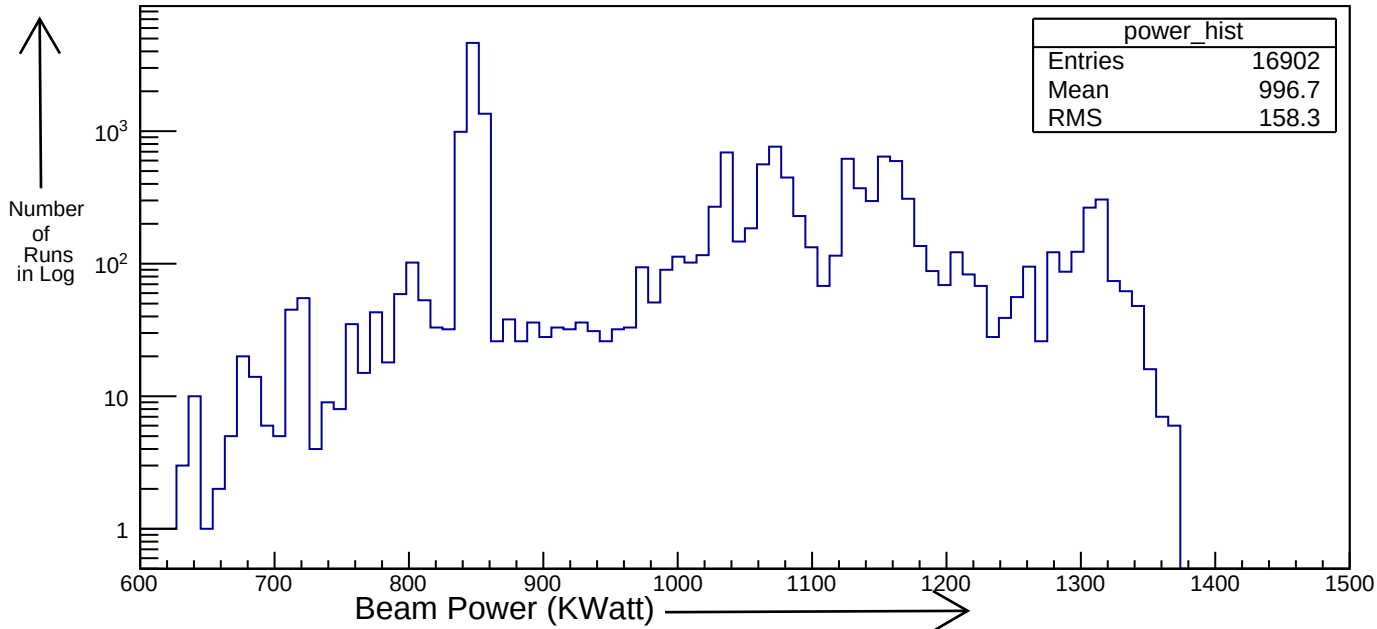
Performance of the DAQ



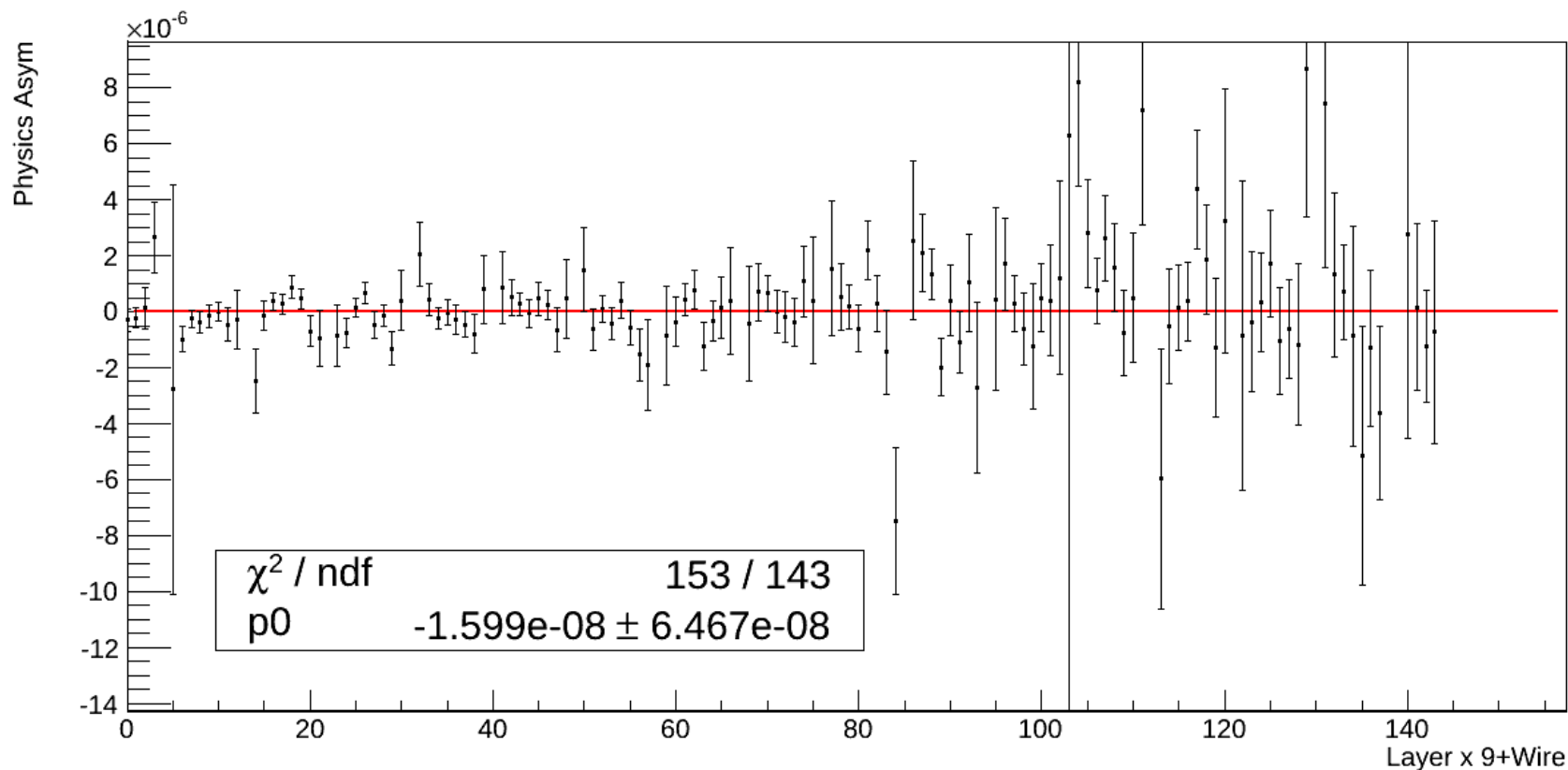
Distribution of beam power for GOOD runs



Distribution of Beam Power for Good Runs



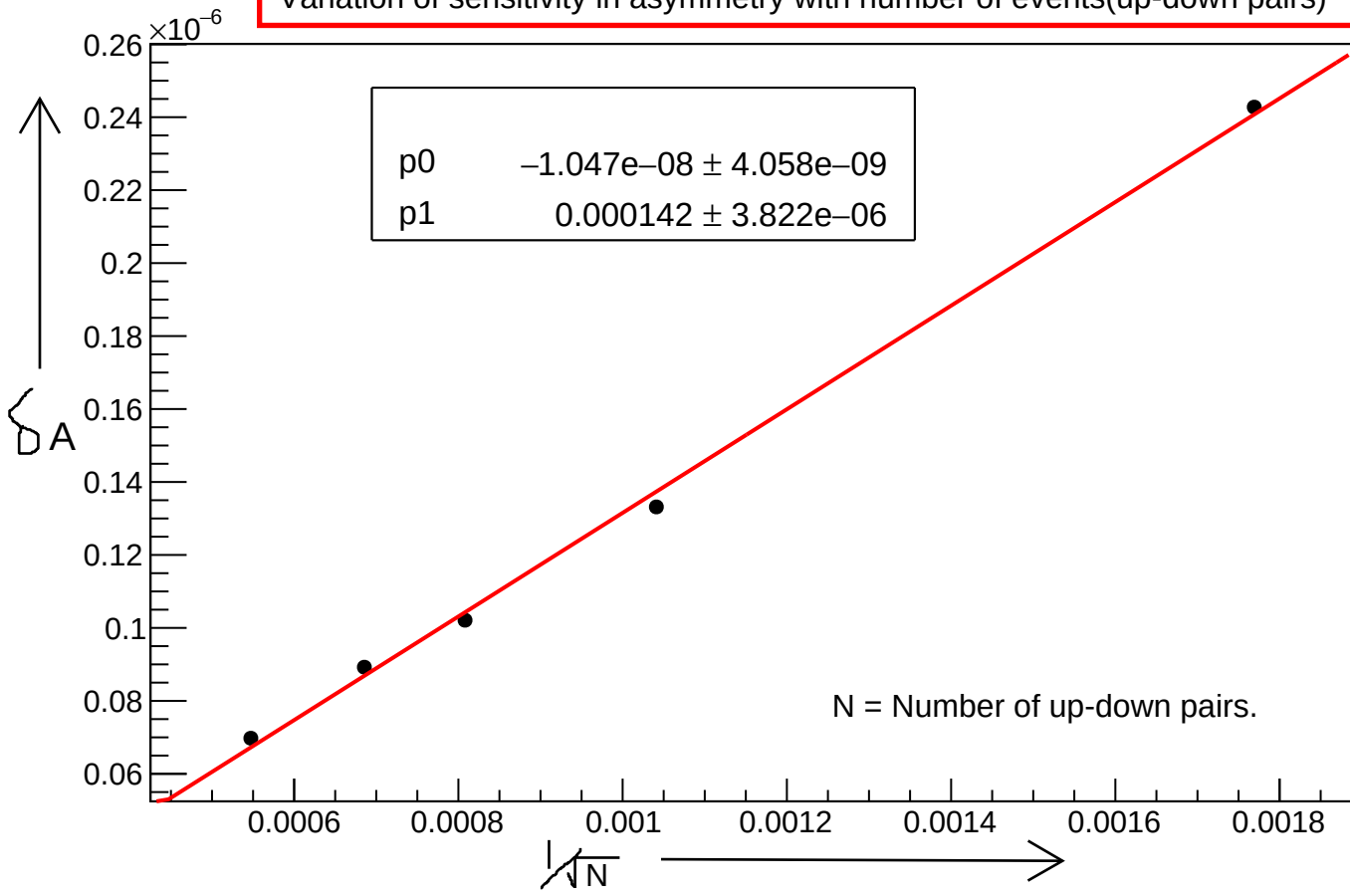
Physics Asymmetry for all the wires (Zoomed In)



↔ ↔ ...
Layer 1 Layer 2 ...

Physics Asymmetry obtained by analyzing 280 Good Runs
or 3.33873e6 up-down pairs at an average 850KWatt beam power.

Variation of sensitivity in asymmetry with number of events(up-down pairs)



$$\delta A = \frac{\sigma_d}{P\sqrt{N}}$$

Using the fit, a naïve approximation for δA for beam cycle 1 would be, $\sim 0.5 \times 10^{-8}$