

Krypton Calibration

Run 6995

Krypton Calibration Group

Table: Conditions and data for run 6995

Conditions	Data
run number	6995
file range	(0,2975)
date	2019-03-10
lab temperature:	nan deg
Total number of S2s	930694
Total number of events	815405

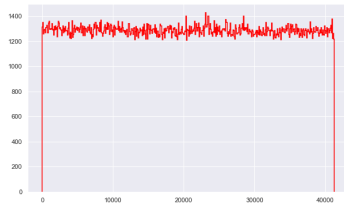
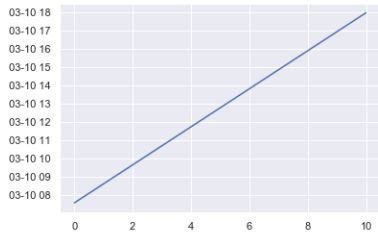


Figure: Run data.

Table: S1 & S2 for run 6995

Conditions	Data
fraction of S1s	0.81
fraction of S2s (1 S1)	0.96
fraction 1 S2 & 1 S1	0.78

Table: S1 & S2 selection for run 6995

Variables	Data
s_1 energy	3 pes to 25 pes
s_2 energy (PMTs)	3000 pes to 13000 pes
s_2 charge (SiPMs)	200 pes to 800 pes
s_2 width	$5 \mu s$ to $15 \mu s$
n_{sipm} min	15

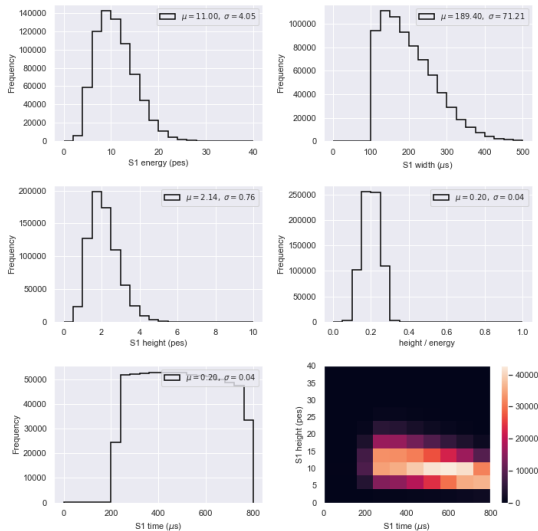


Figure: S1 distributions.

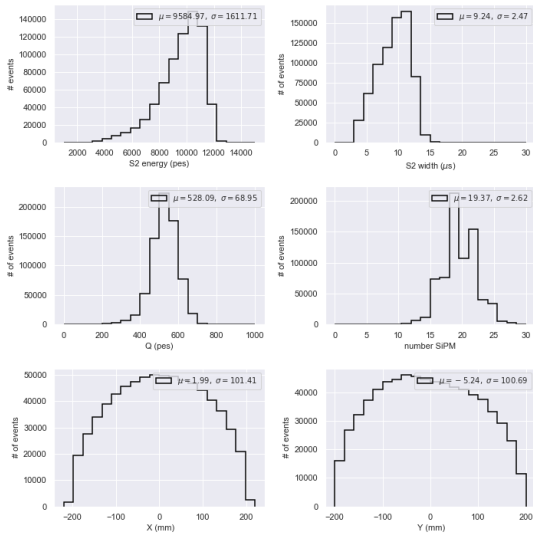


Figure: S2 distributions.

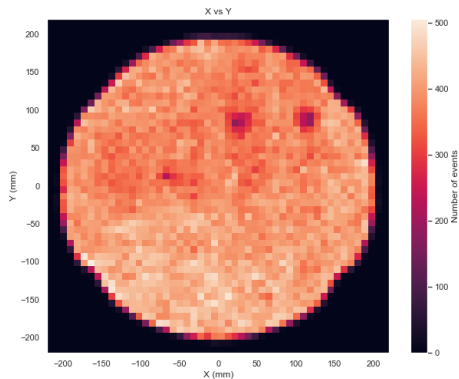


Figure: XY distribution.

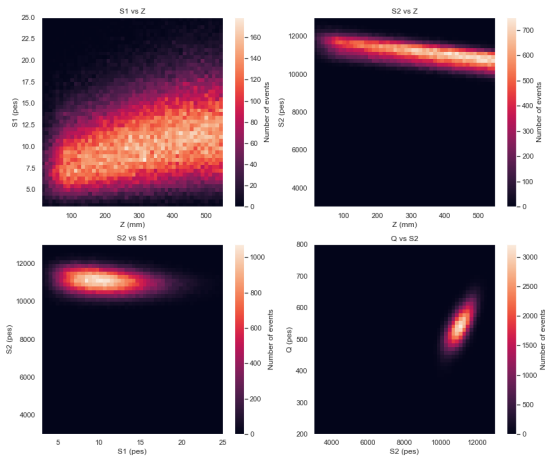


Figure: S1, S2 & Q distributions.

Lifetime distributions

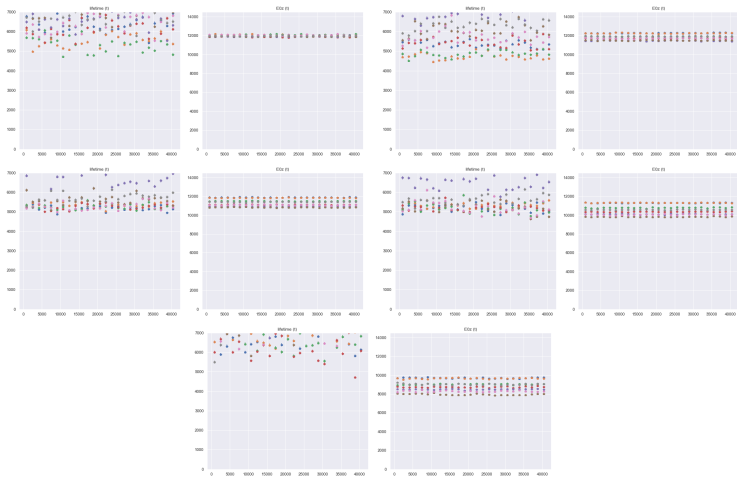


Figure: Distributions of lifetime and E_0 for 5 radial sectors (40, 80, 120, 160, 200).

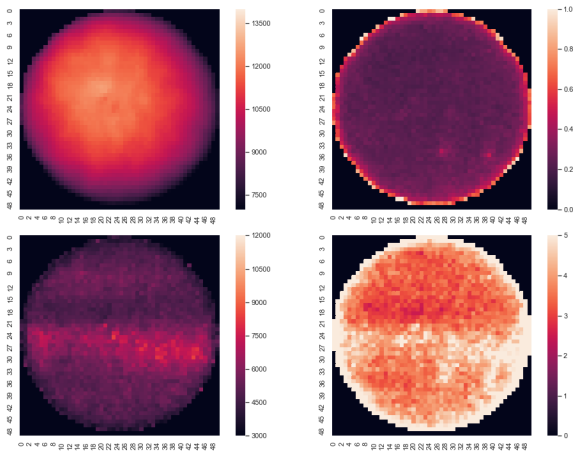


Figure: Lifetime and geometrical map.

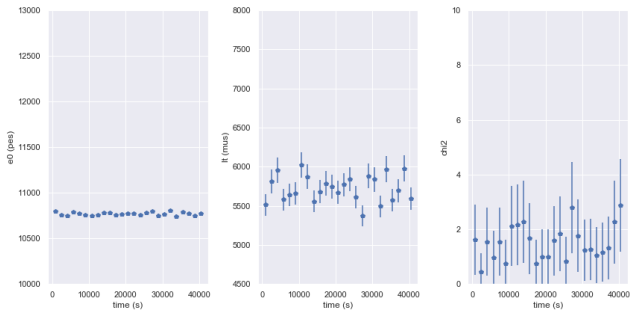


Figure: Average lifetime.

Lifetime and geometry correction

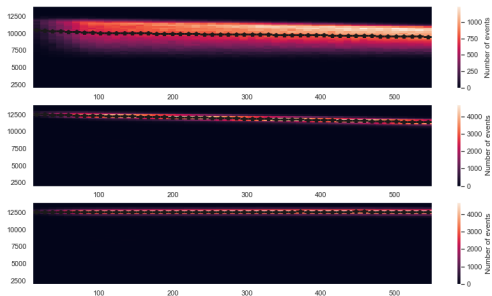


Figure: Lifetime and geometry correction.

R Profile showing R dropout

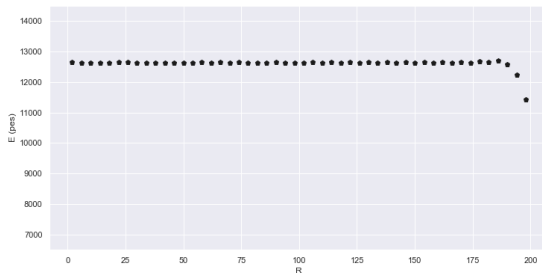


Figure: R profile shows that fiducial volume must be $R < 180\text{mm}$.

Profiles after $R < 180\text{mm}$

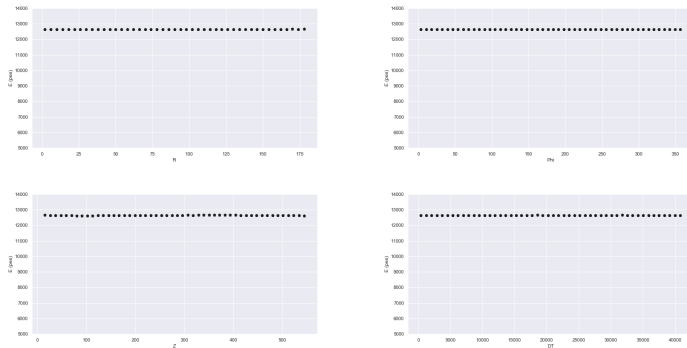


Figure: Profiles showing correction is robust.

Resolution fits as a function of R and Z

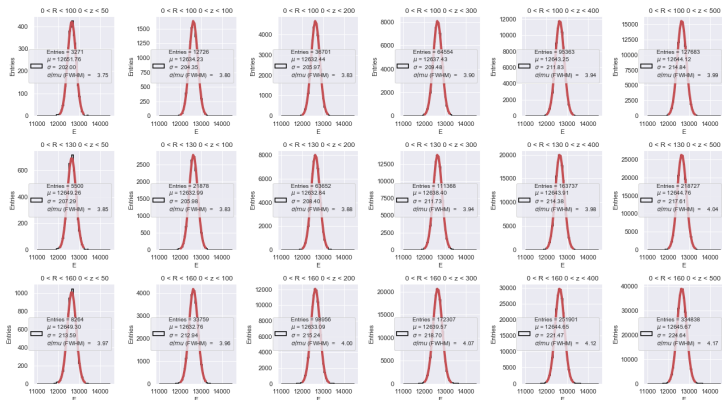


Figure: Resolution fits.

Resolution as a function of R and Z

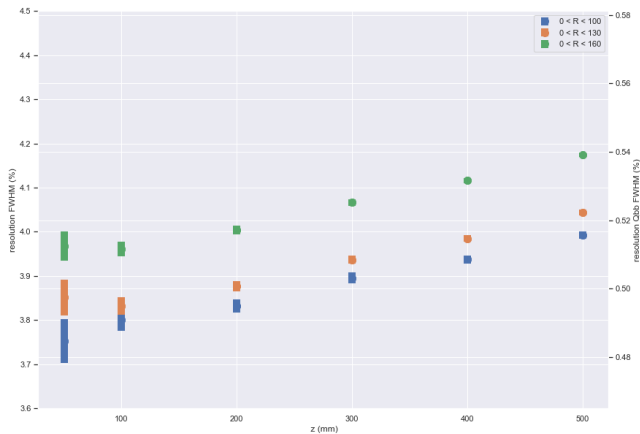


Figure: Resolution fits.

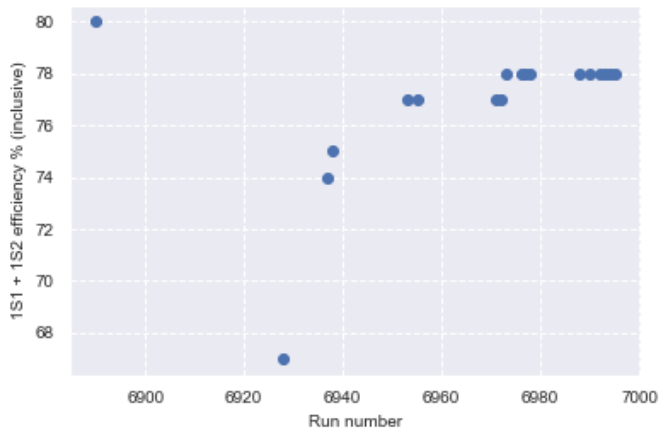


Figure: Efficiency tracking over time.

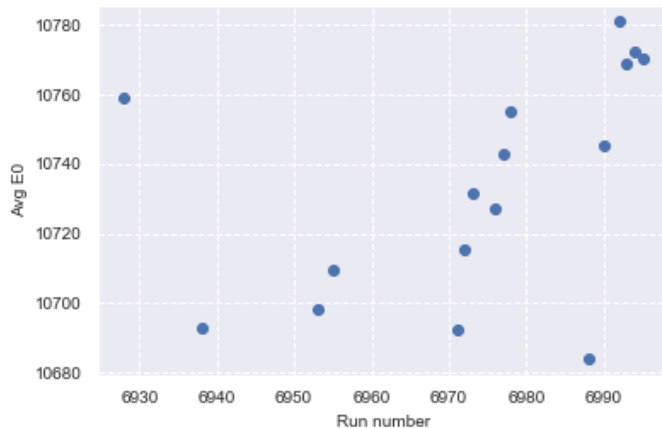


Figure: Response tracking over time.

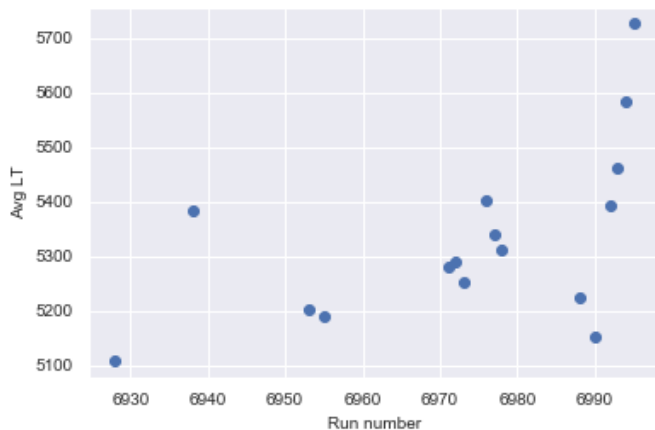


Figure: Lifetime tracking over time.

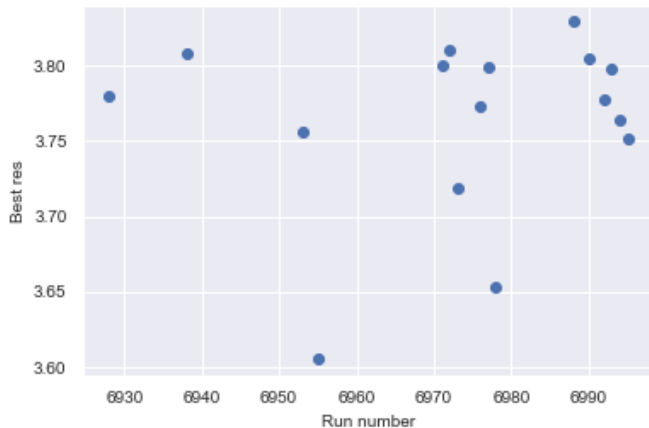


Figure: Resolution tracking over time.