Krypton Calibration

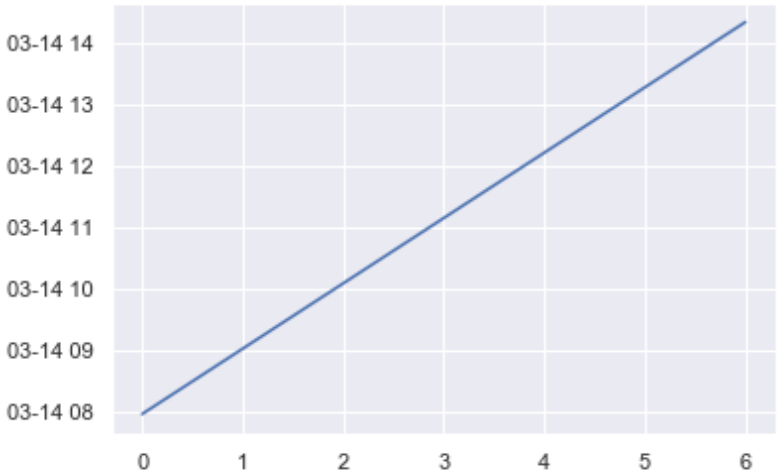
Run 7005

Krypton Calibration Group

Conditions and data

Table: Conditions and data for run 7005

Conditions	Data
run number	7005
file range	(0,«lastFile»)
date	«date»
lab temperature:	«labTempC» deg
Total number of S2s	«totalNumS2»
Total number of events	«totalNumEvt»



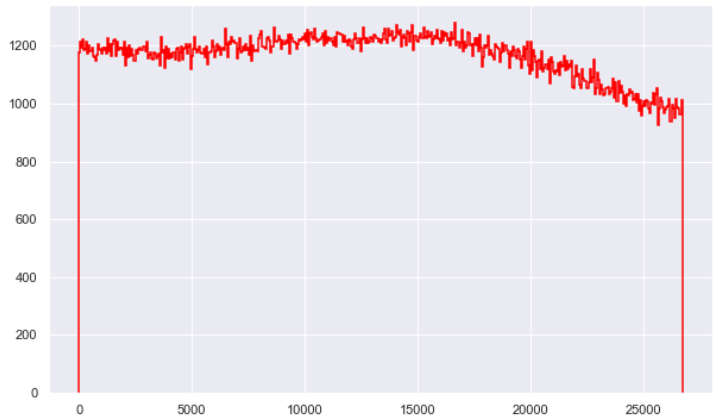


Figure: Run data.

Table: S1 & S2 for run 7005

Conditions	Data
fraction of S1s	«fracS1»
fraction of S2s (1 S1)	«fracS2»
fraction 1 S2 & 1 S1	«fracS1S2»

Table: S1 & S2 selection for run 7005

Variables	Data
s_1 energy	«s1Min» pes to «s1Max» pes
s_2 energy (PMTs)	«s2MinPMT» pes to «s2MaxPMT» pes
s_2 charge (SiPMs)	«s2MinQ» pes to «s2MaxQ» pes
s_2 width	«widthMin» μs to «widthMax» μs
n_{sipm} min	«numSipmMin»

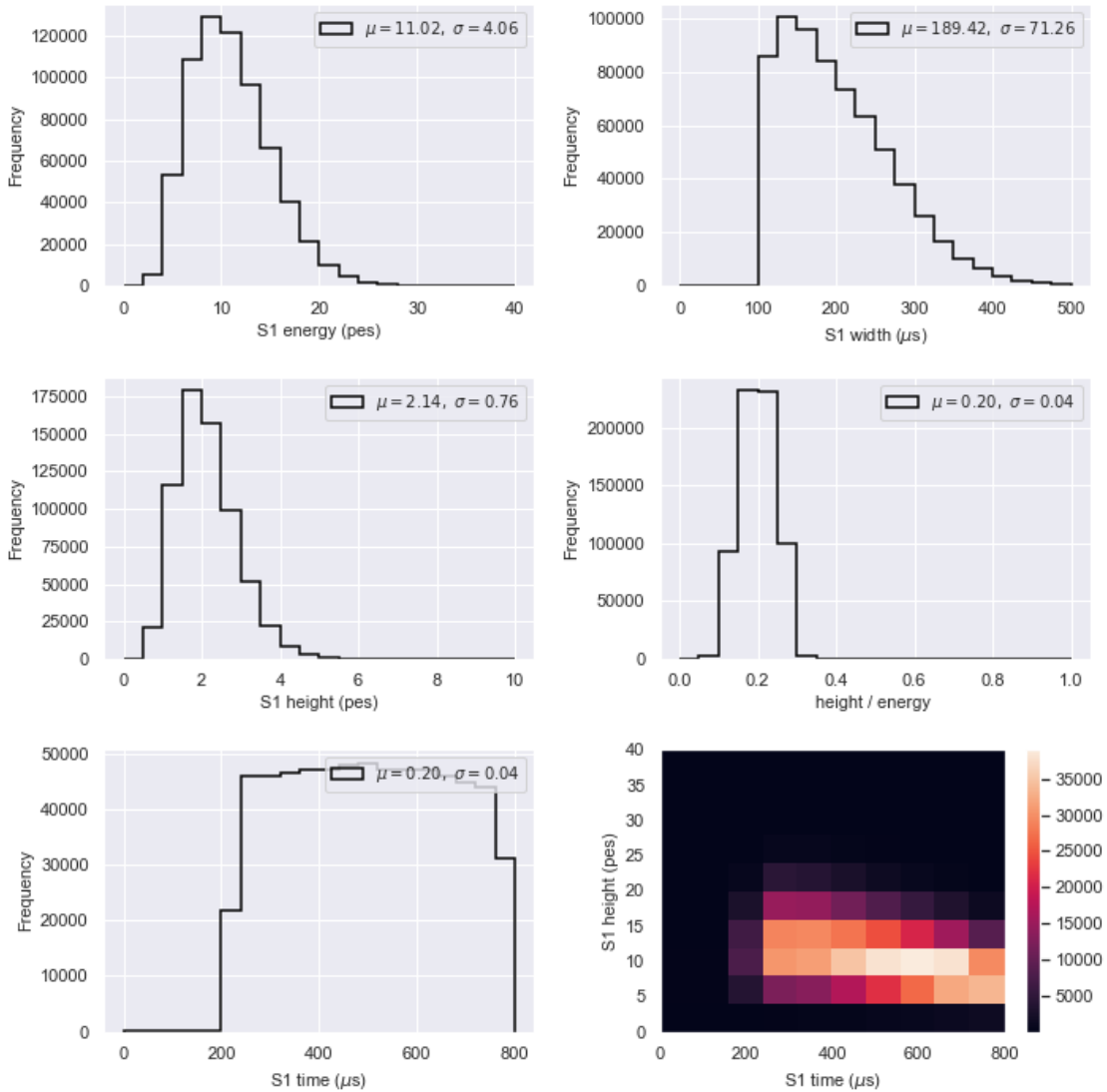


Figure: S1 distributions.

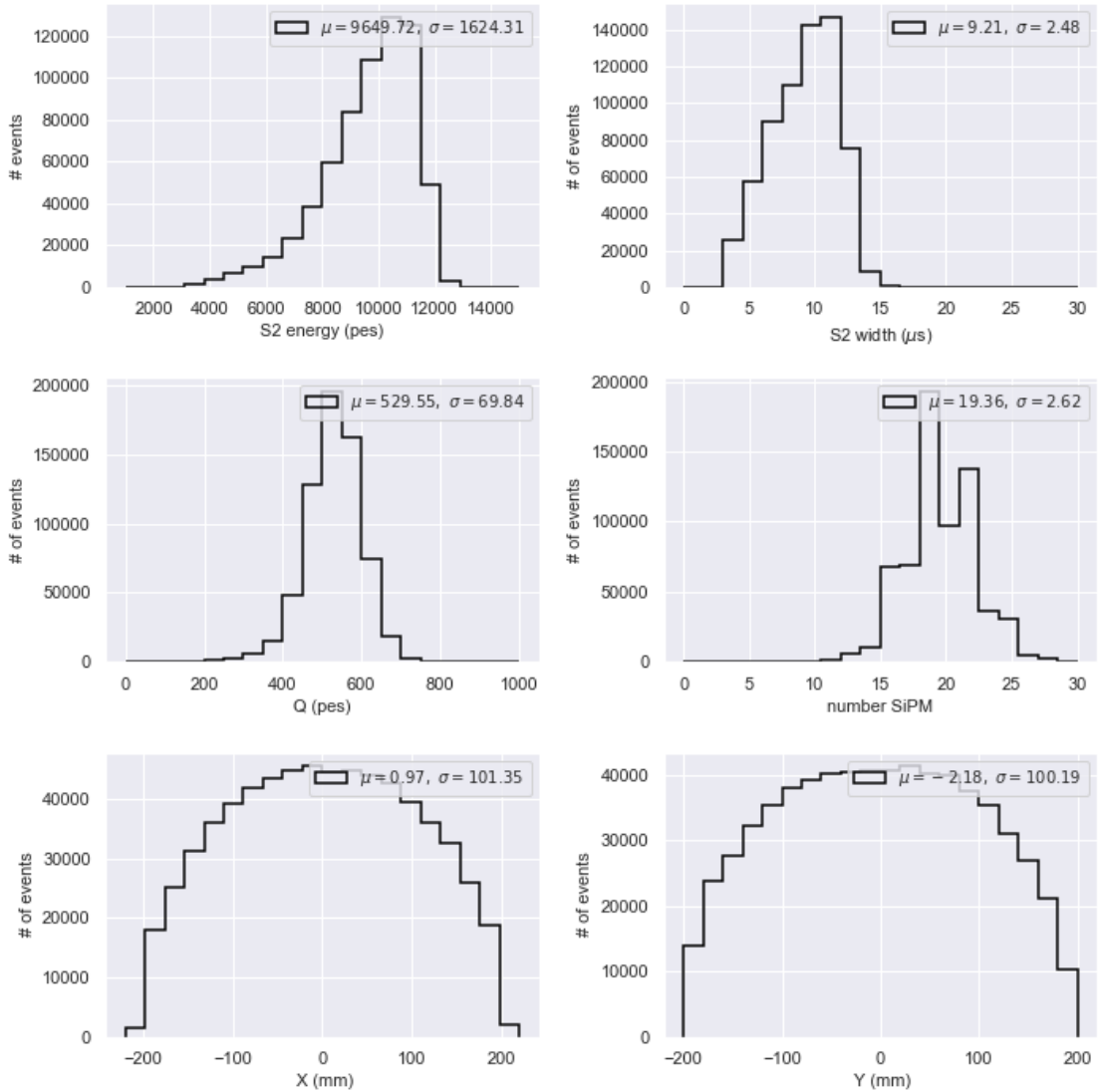


Figure: S2 distributions.

Control distributions

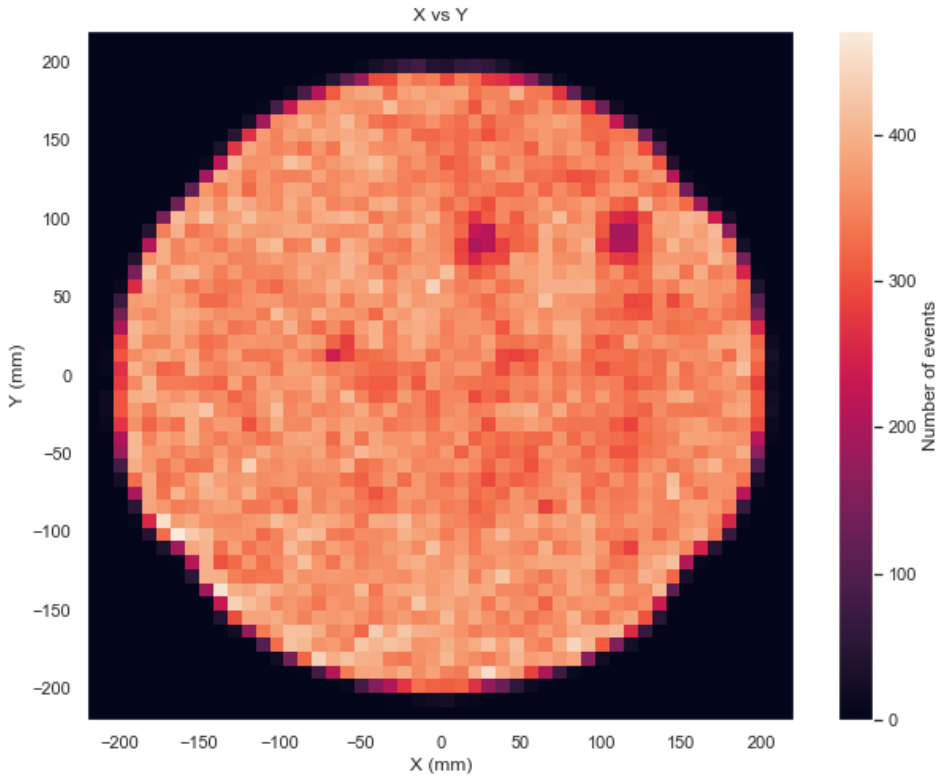


Figure: XY distribution.

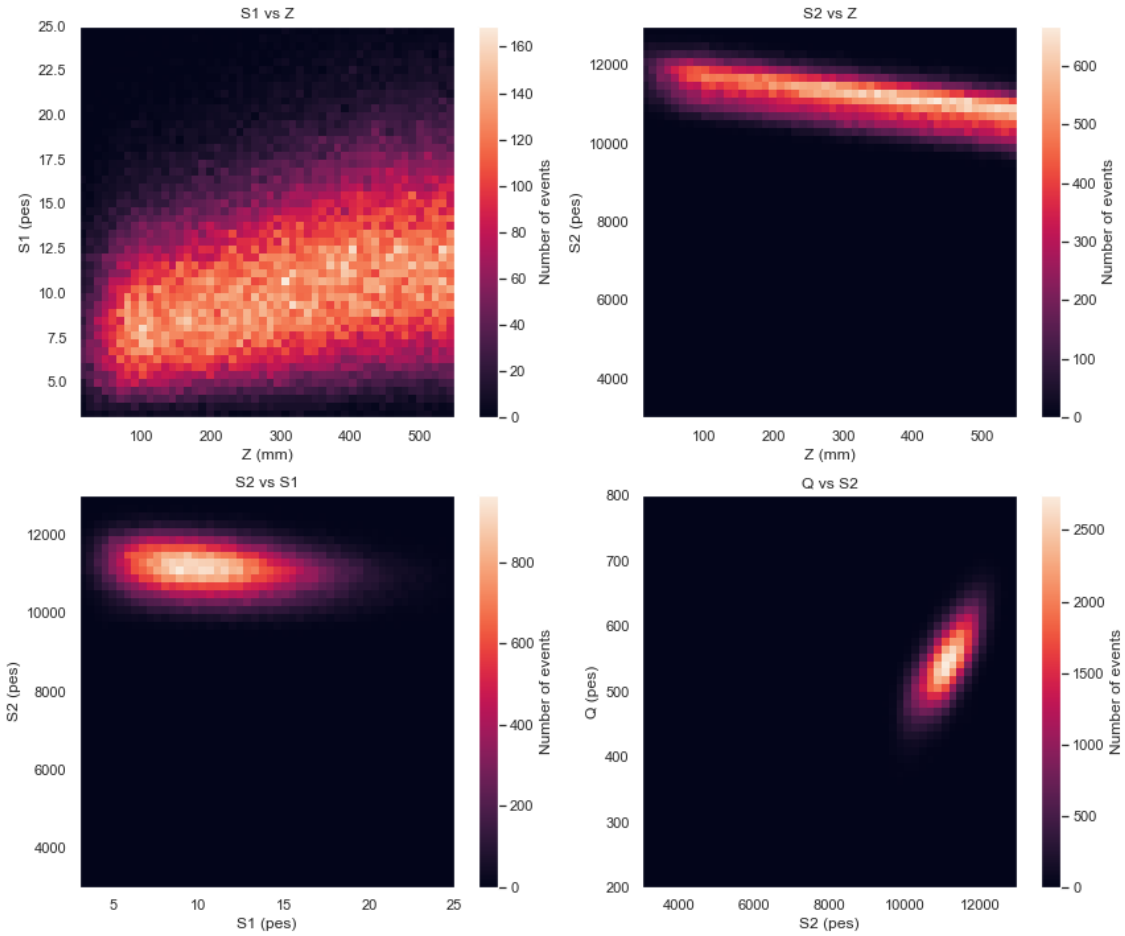


Figure: S1, S2 & Q distributions.

Lifetime distributions

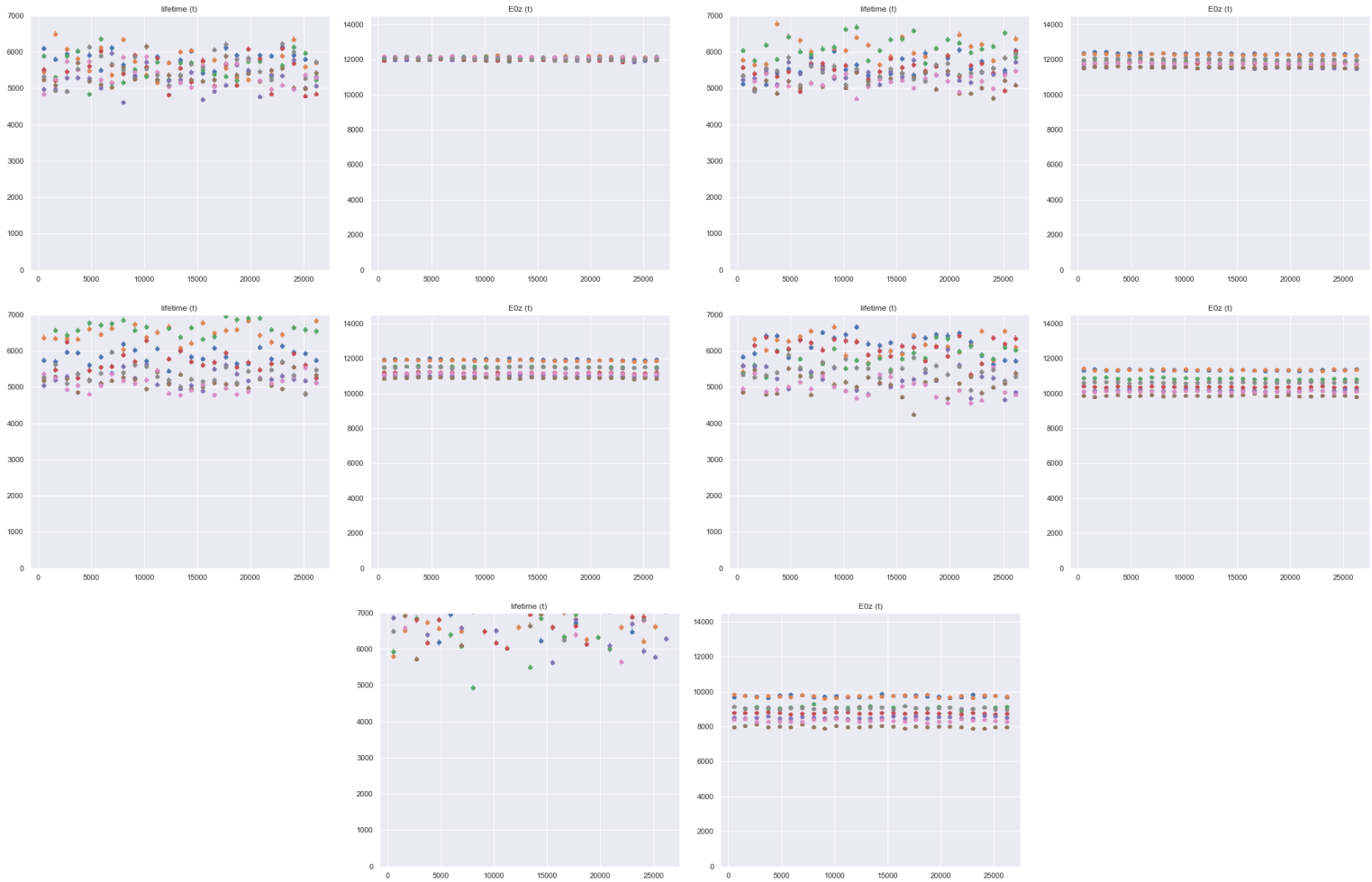


Figure: Distributions of lifetime and E_0 for 5 radial sectors (40, 80, 120, 160, 200).

Lifetime maps

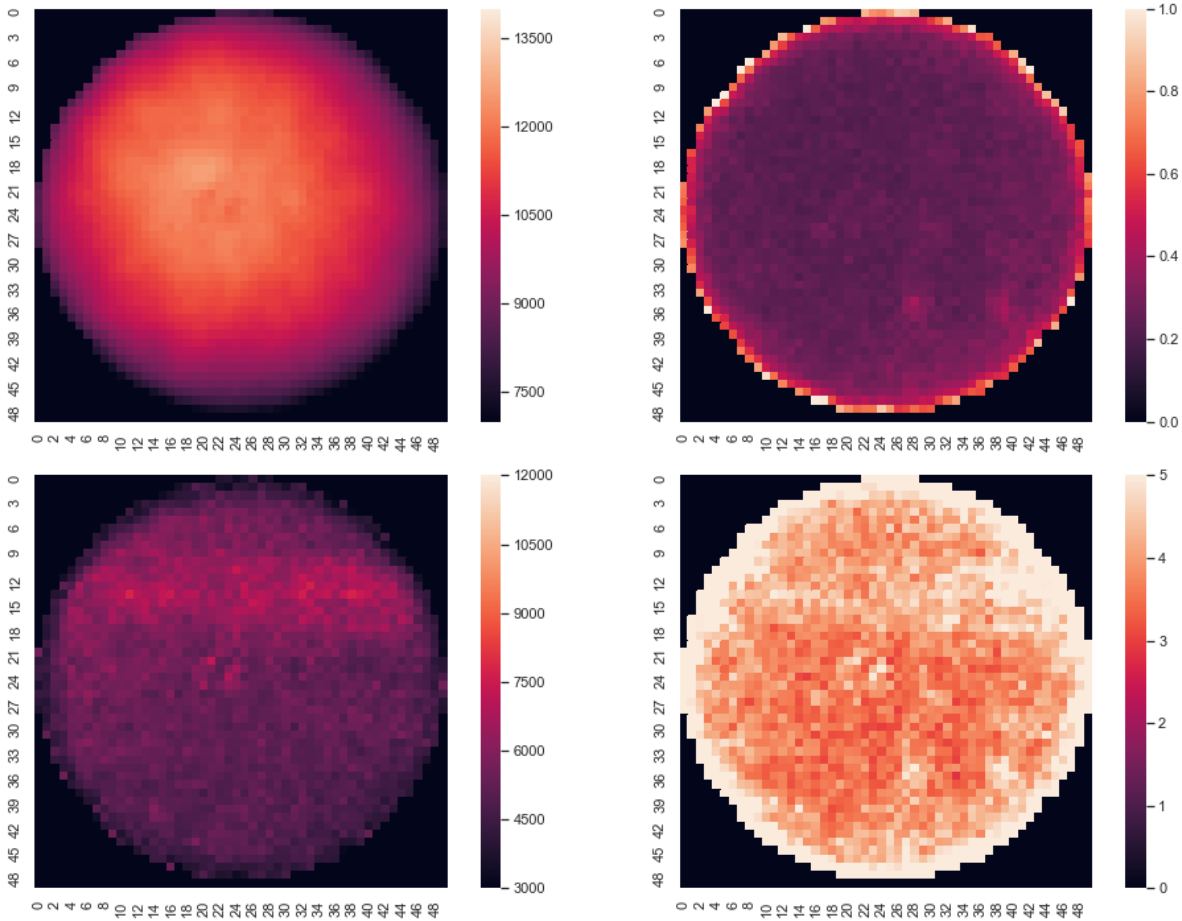


Figure: Lifetime and geometrical map.

Lifetime maps

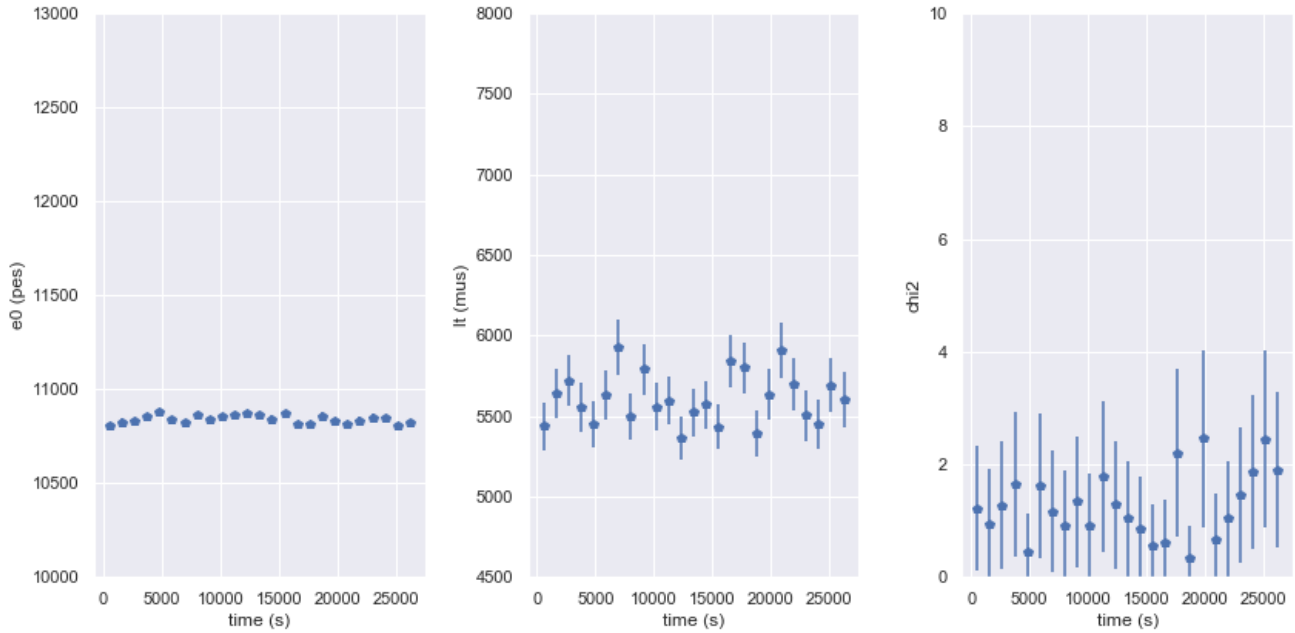


Figure: Average lifetime.

Lifetime and geometry correction

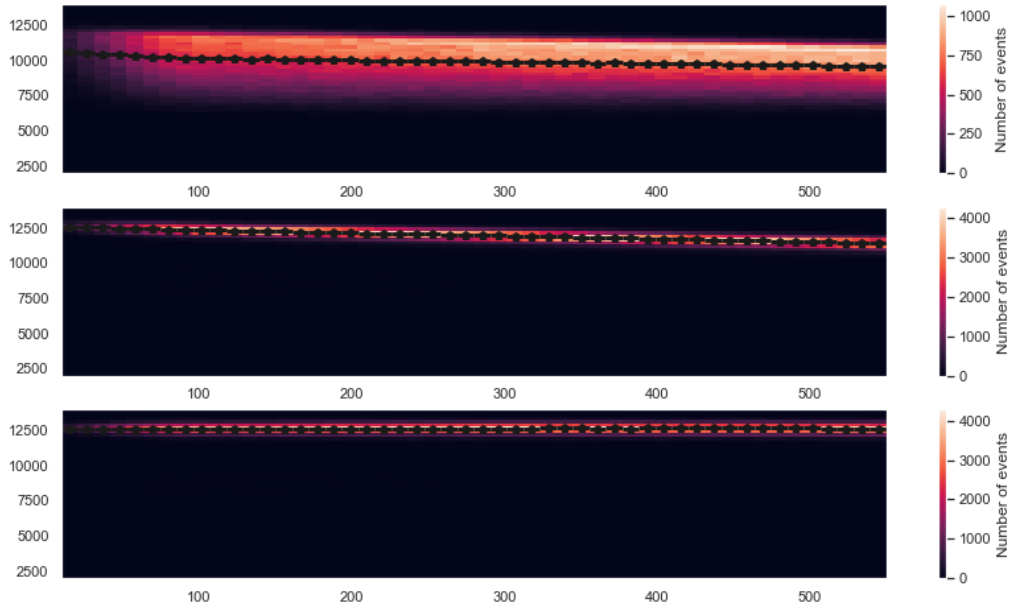


Figure: Lifetime and geometry correction.

R Profile showing R dropout

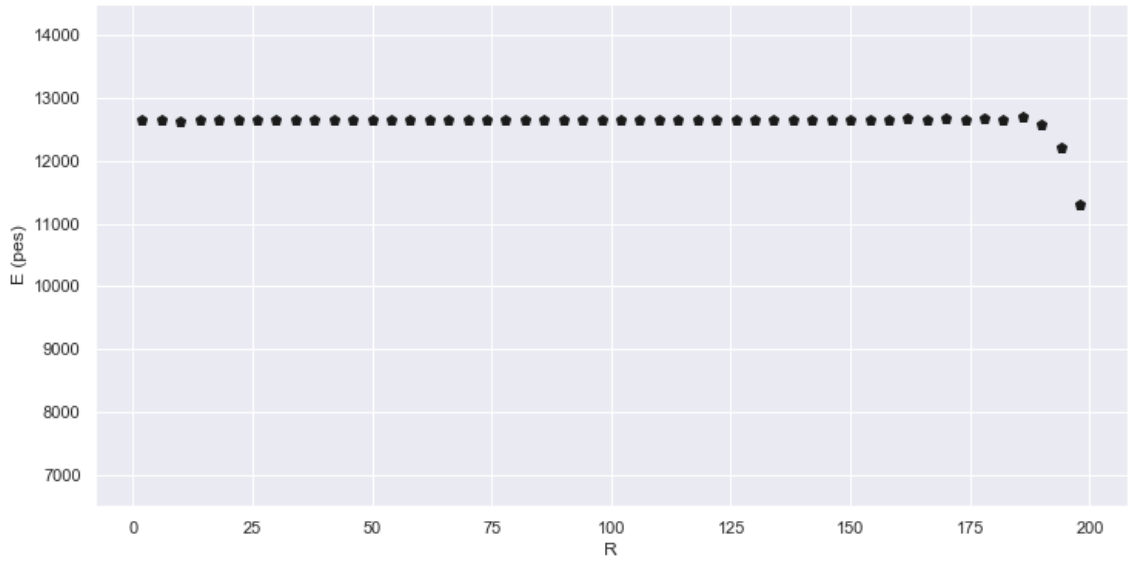


Figure: R profile shows that fiducial volume must be $R < 180$mm.

Profiles after $R < 180$mm

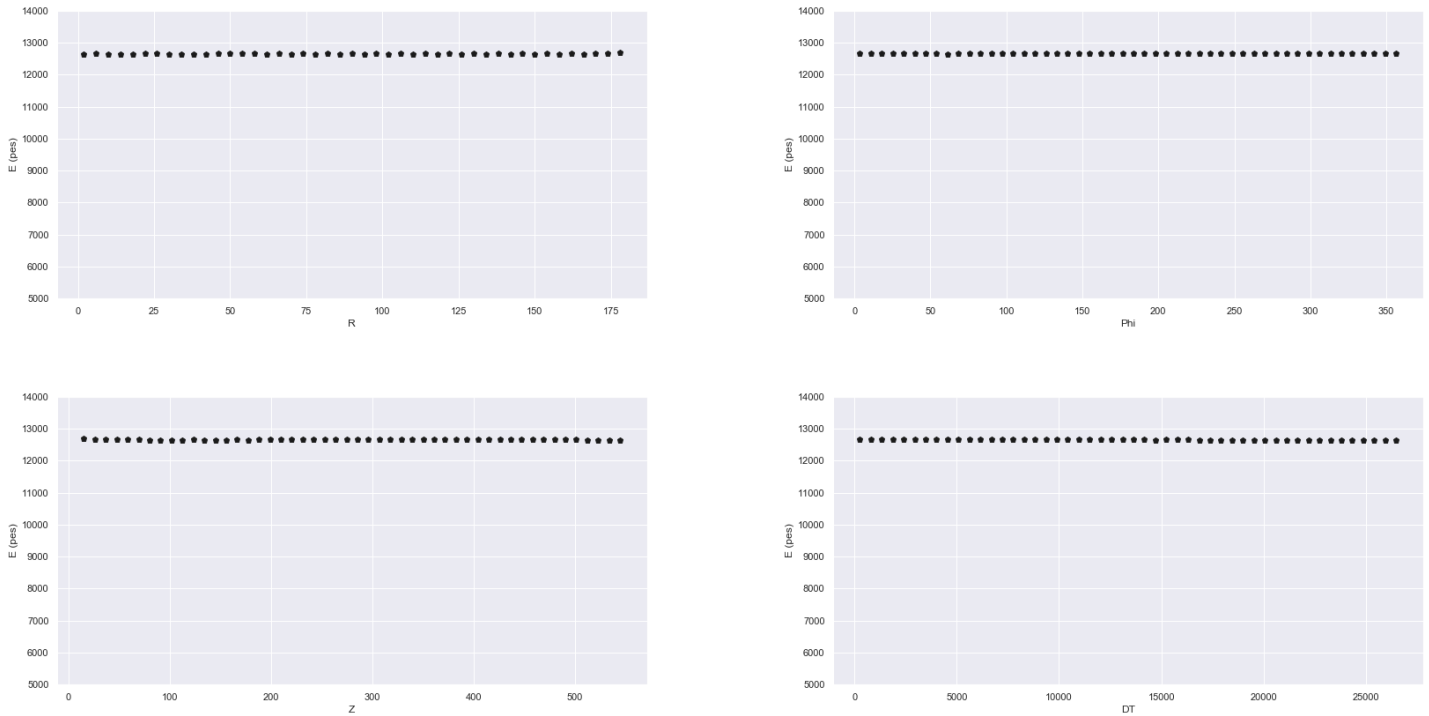


Figure: Profiles showing correction is robust.

Resolution fits as a function of R and Z

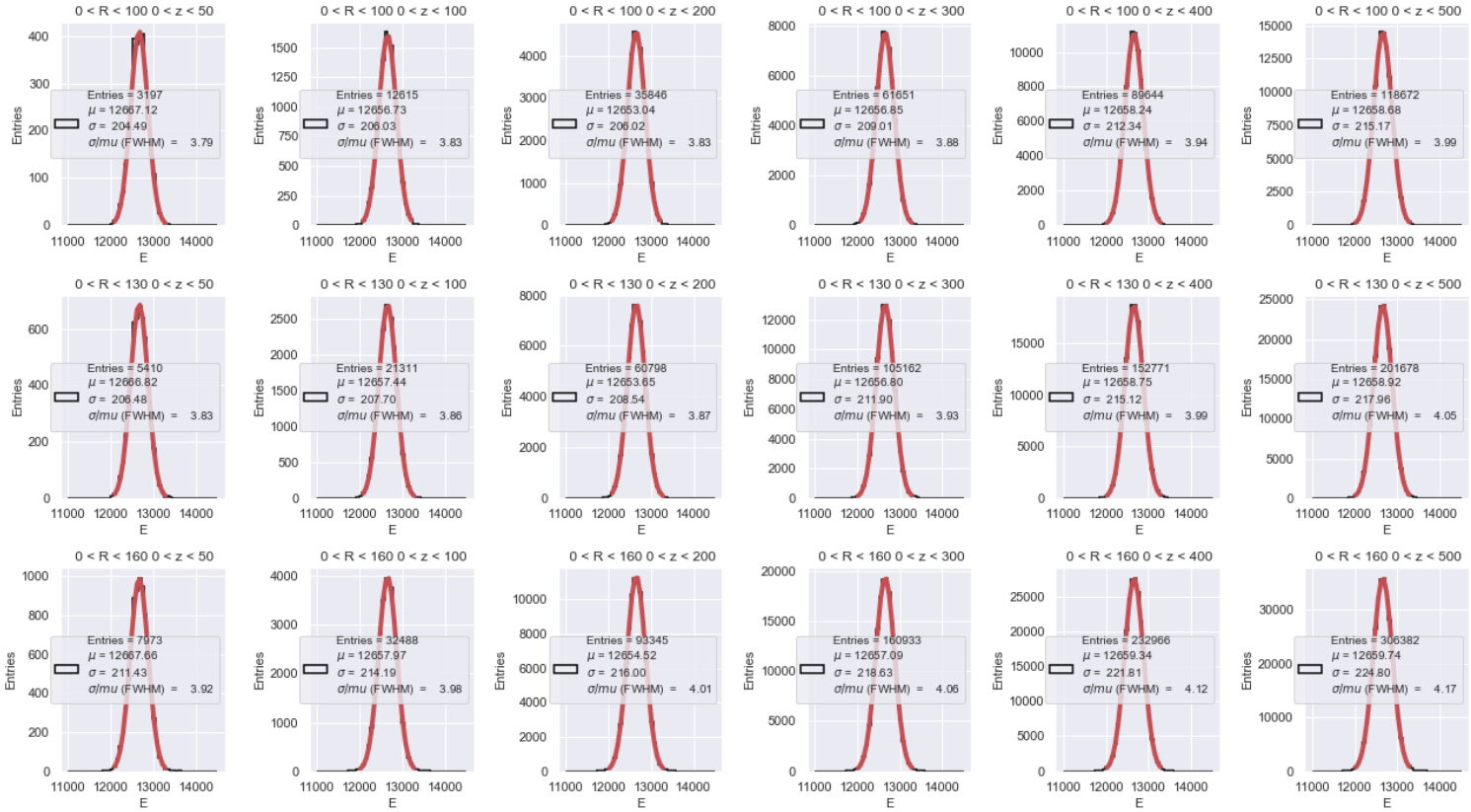


Figure: Resolution fits.

Resolution as a function of R and Z

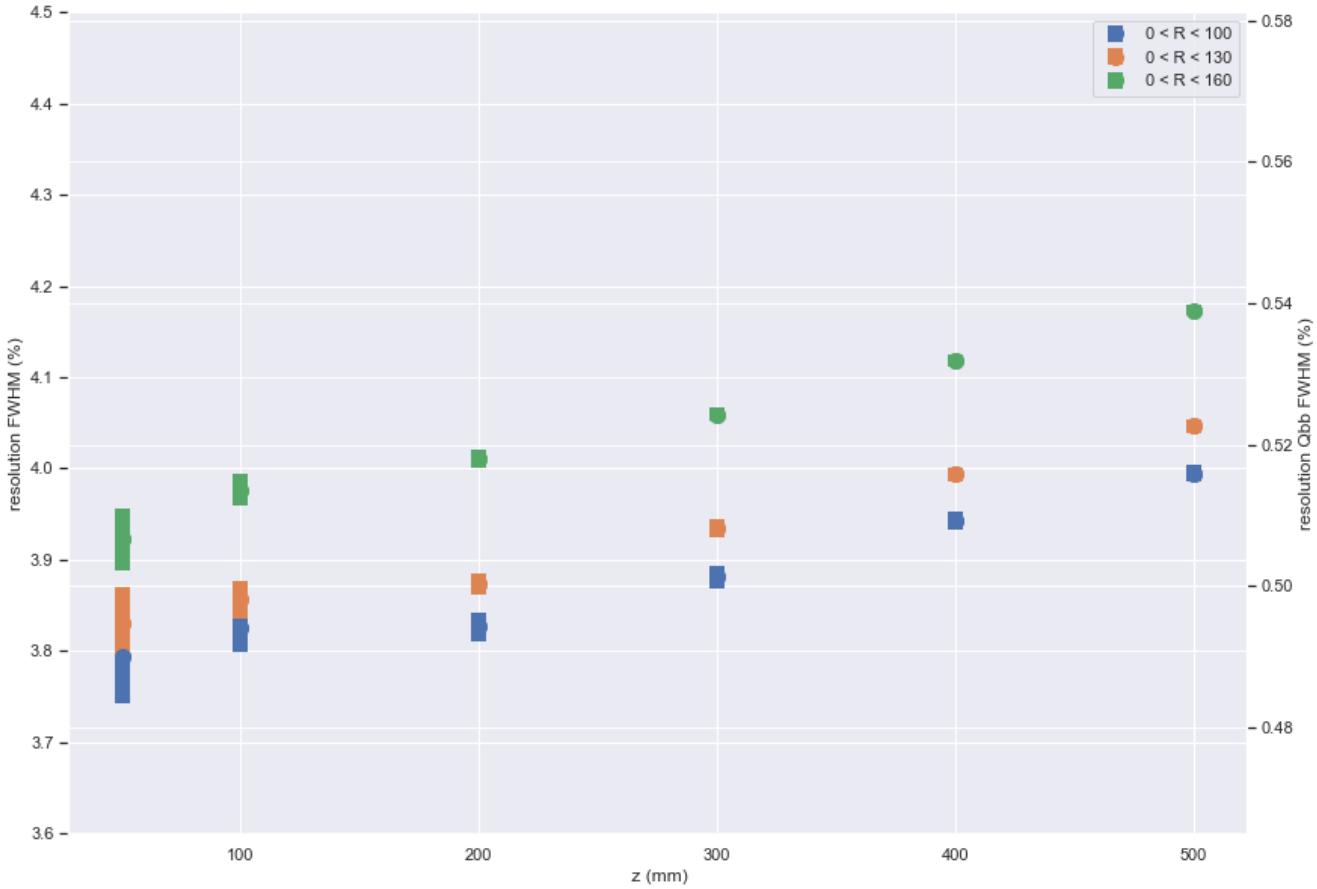


Figure: Resolution fits.

Efficiency over time

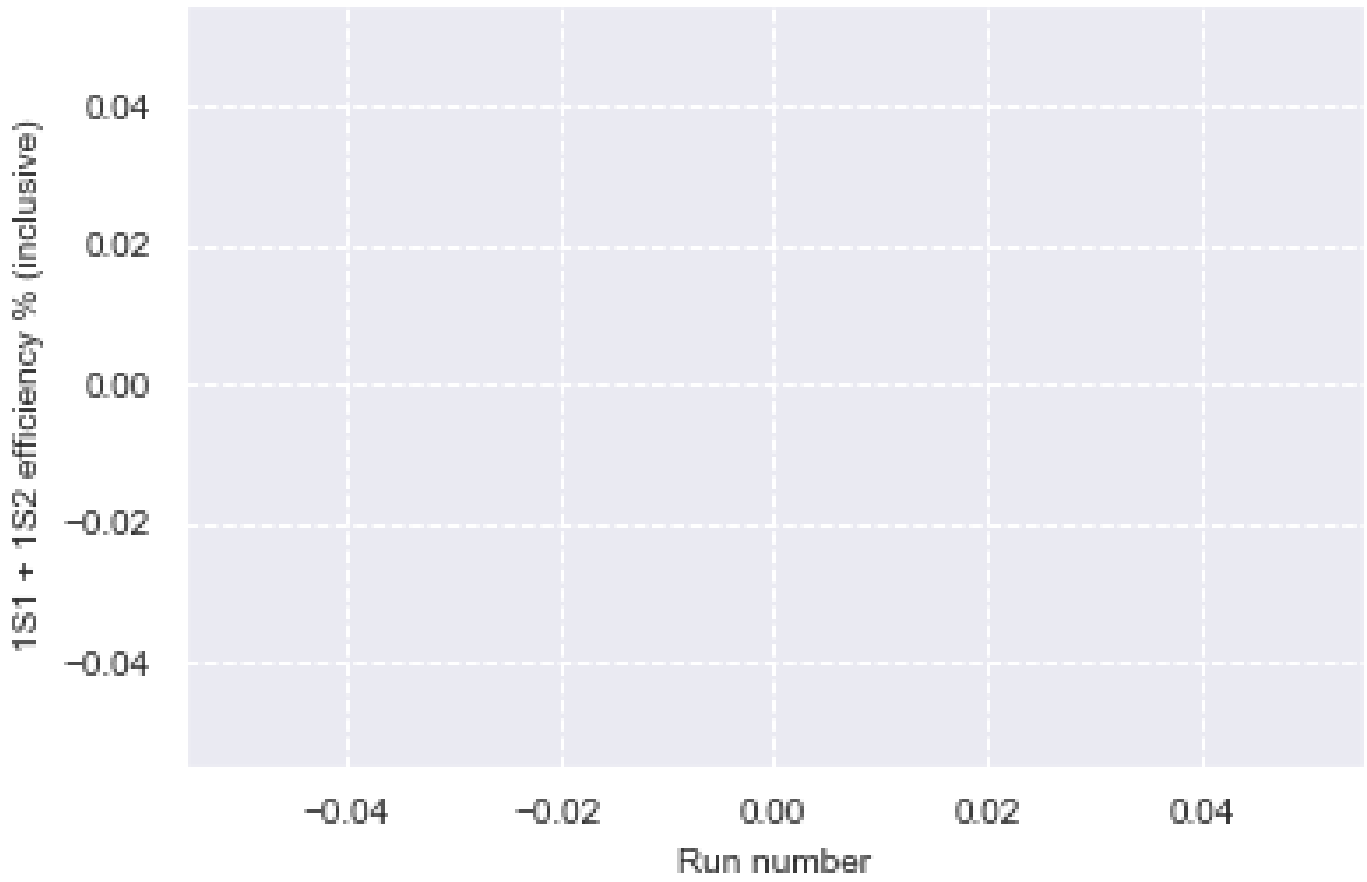


Figure: Efficiency tracking over time.

Response over time

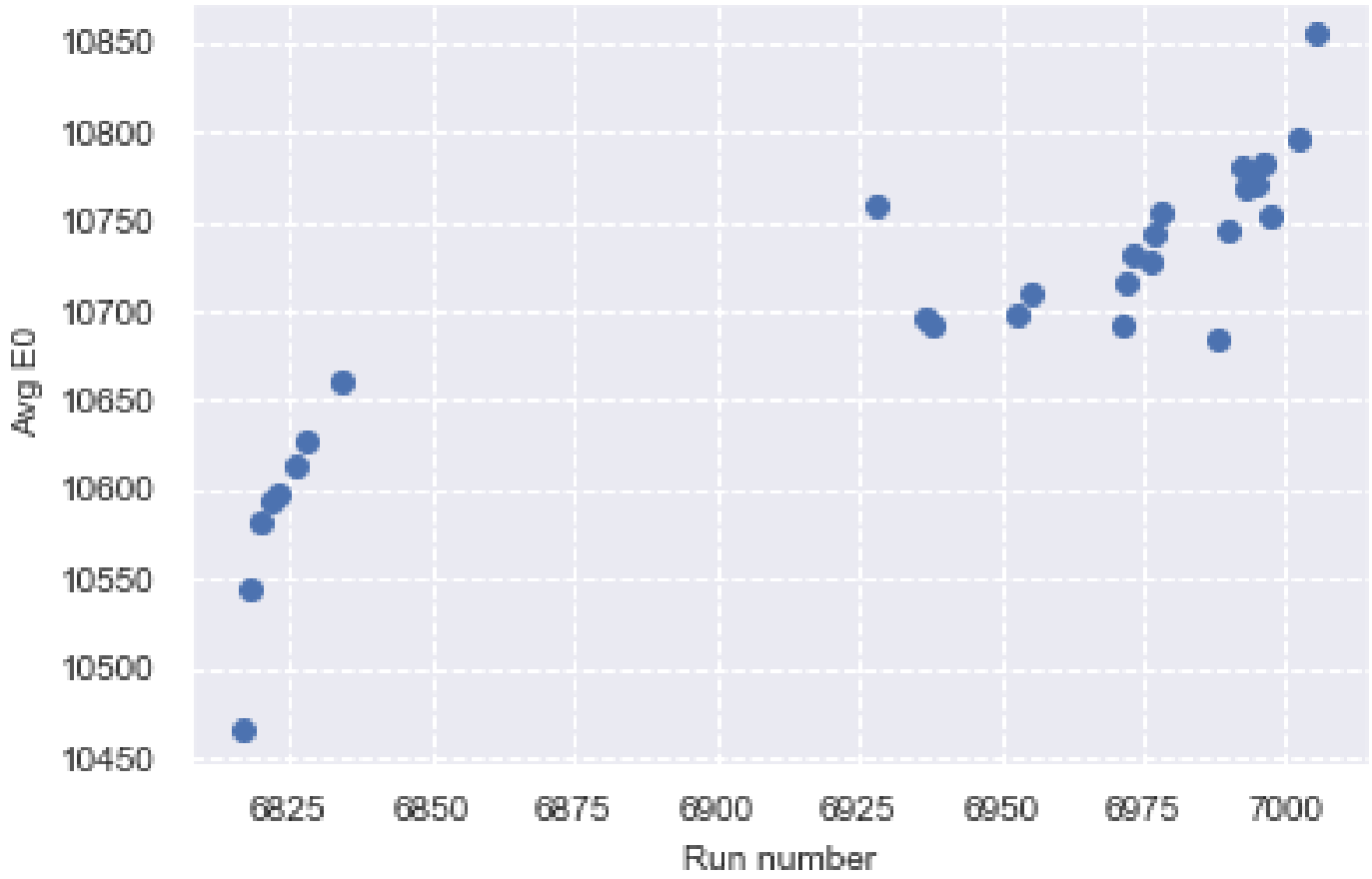


Figure: Response tracking over time.

Lifetime over time

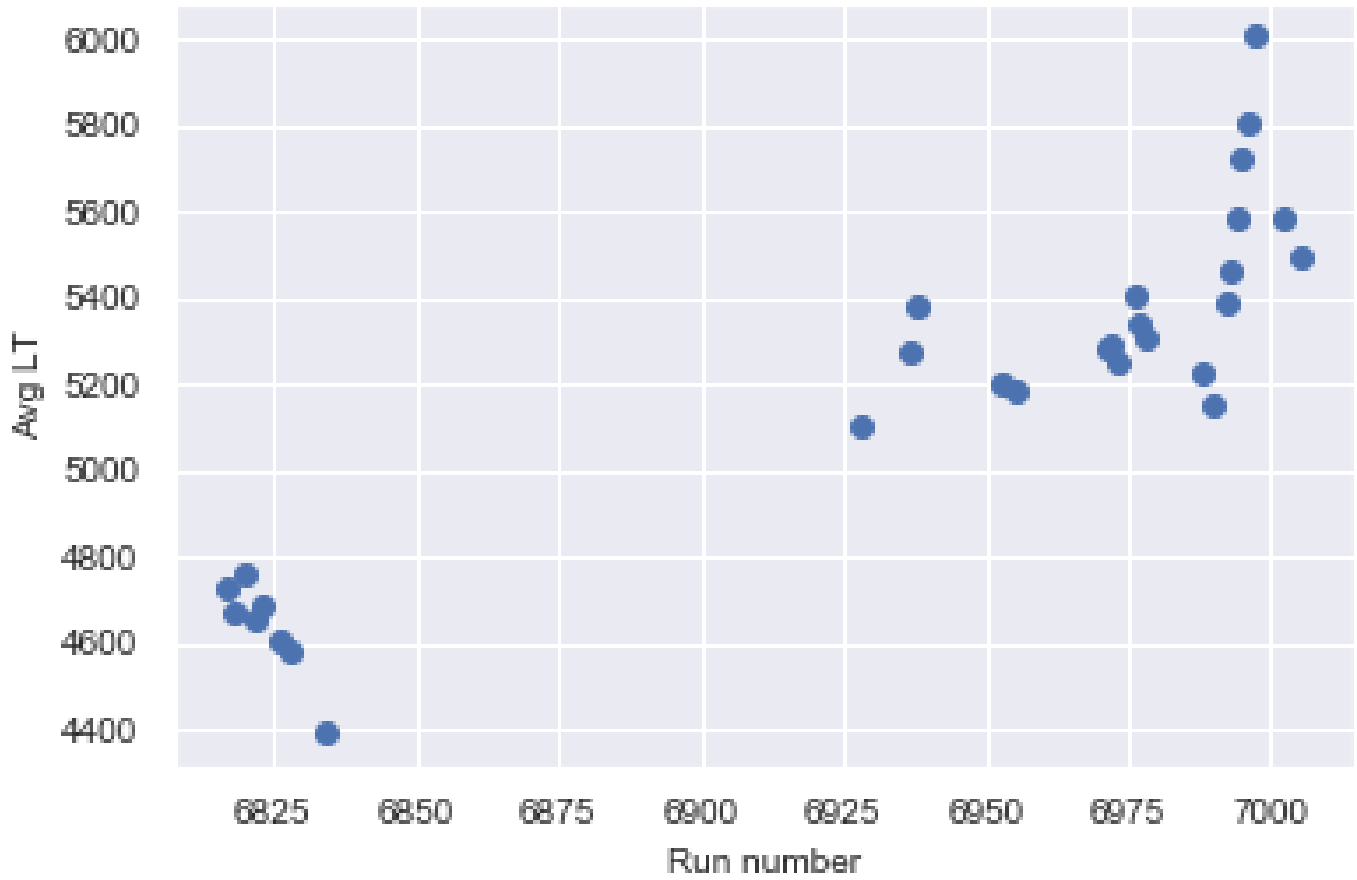


Figure: Lifetime tracking over time.

Resolution over time

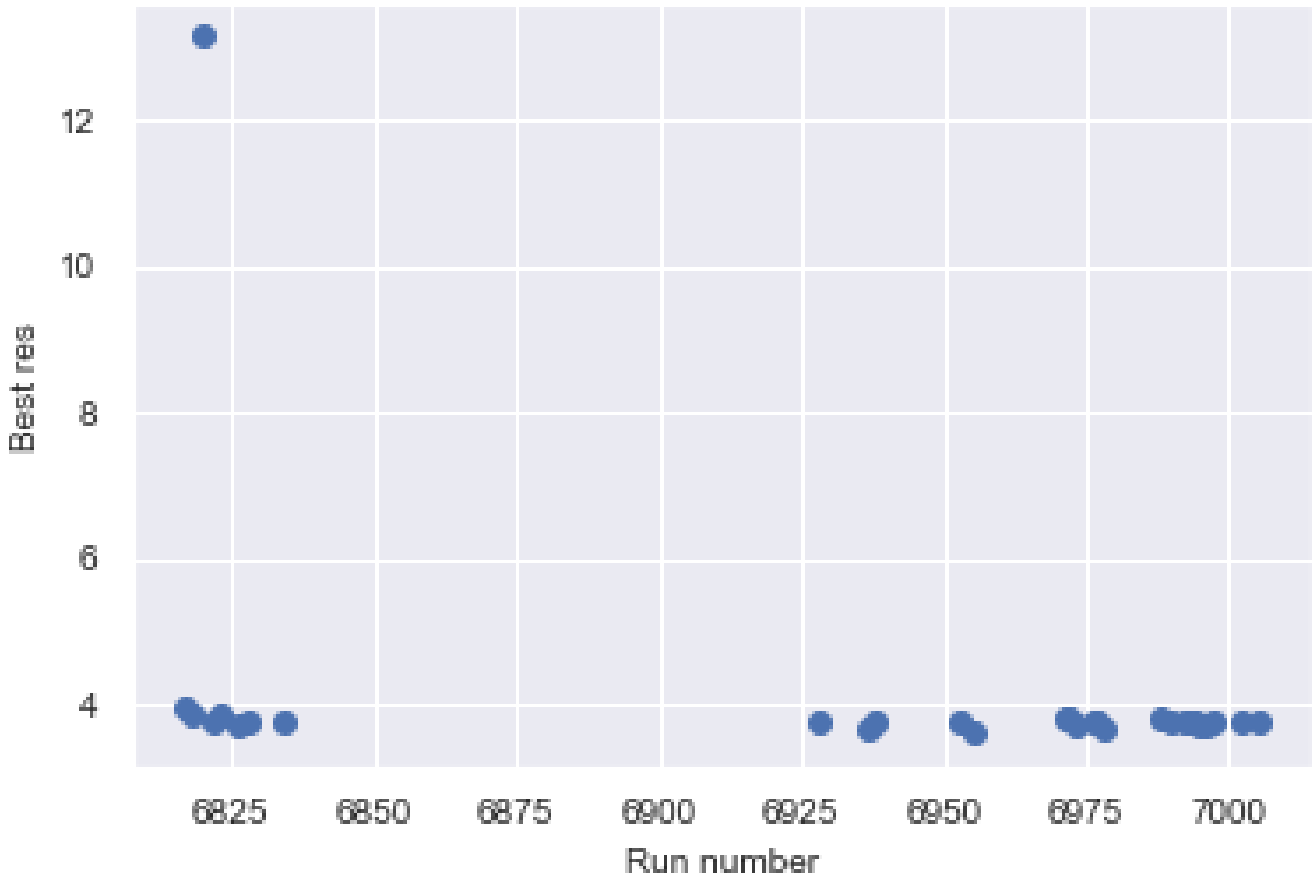


Figure: Resolution tracking over time.