

# Krypton Calibration

Run 8147

Krypton Calibration Group

**Table:** Conditions and data for run 8147

Conditions	Data
run number	8147
file range	(0,6876)
date	2020-09-28
lab temperature:	20.1 deg
Total number of S2s	895535
Total number of events	866788

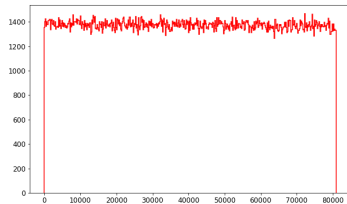
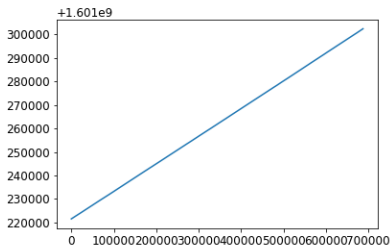


Figure: Run data.

Table: S1 & S2 for run 8147

Conditions	Data
fraction of S1s	0.88
fraction of S2s (1 S1)	0.98
fraction 1 S2 & 1 S1	0.86

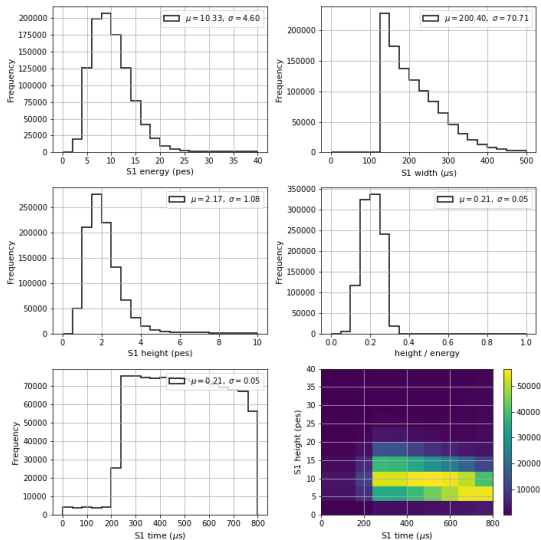


Figure: S1 distributions.

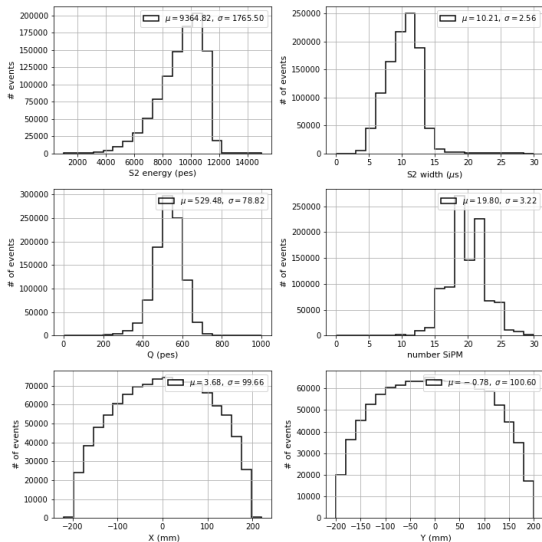


Figure: S2 distributions.

# Control distributions

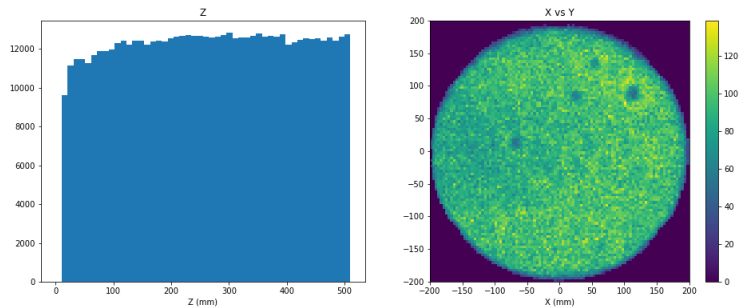


Figure: XYZ distribution.

# Lifetime maps

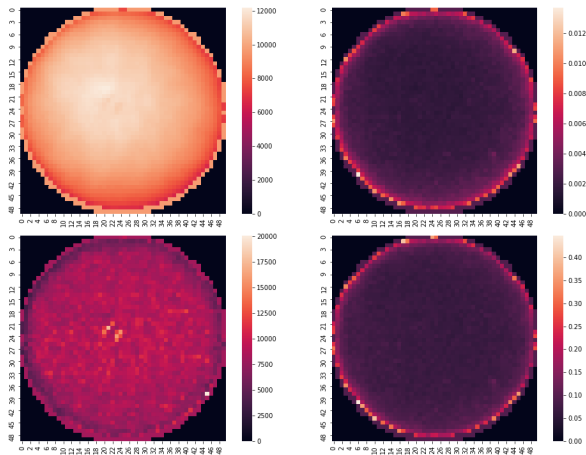


Figure: Lifetime and geometrical map.



# Lifetime maps

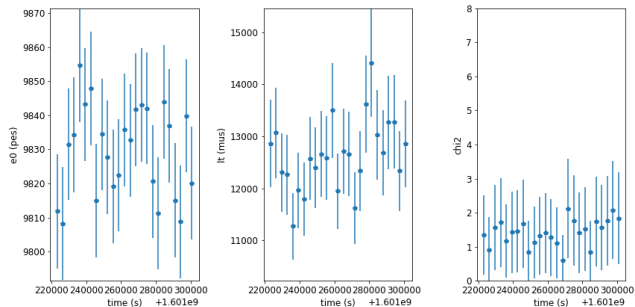
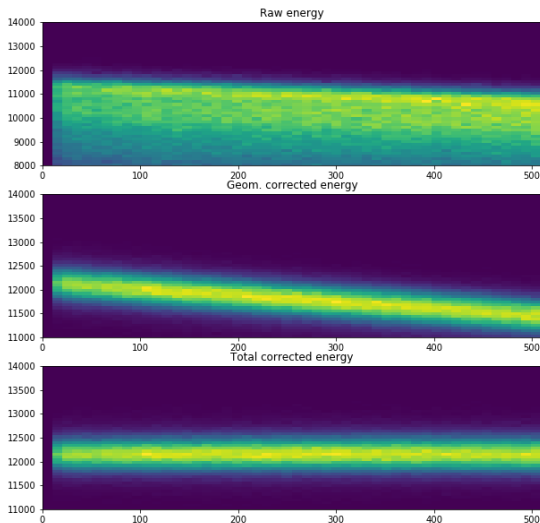


Figure: Average lifetime.

# Lifetime and geometry correction



## R Profile showing R dropout

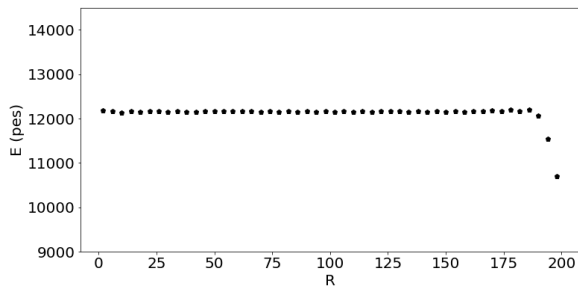


Figure: R profile shows that fiducial volume must be  $R < 180\text{mm}$ .

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

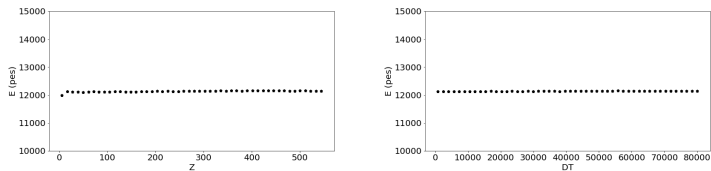


Figure: Profiles showing correction is robust.

# Resolution fits as a function of R and Z

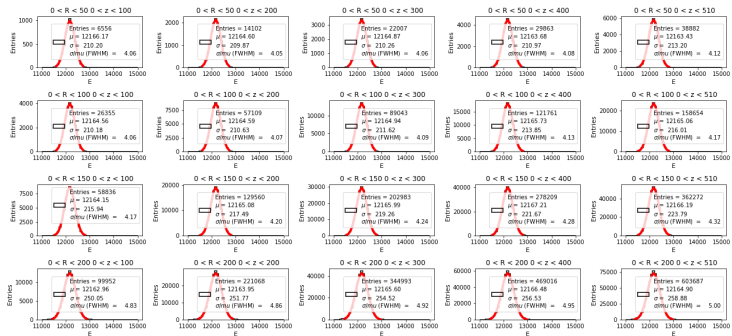


Figure: Resolution fits.

# Resolution as a function of R and Z

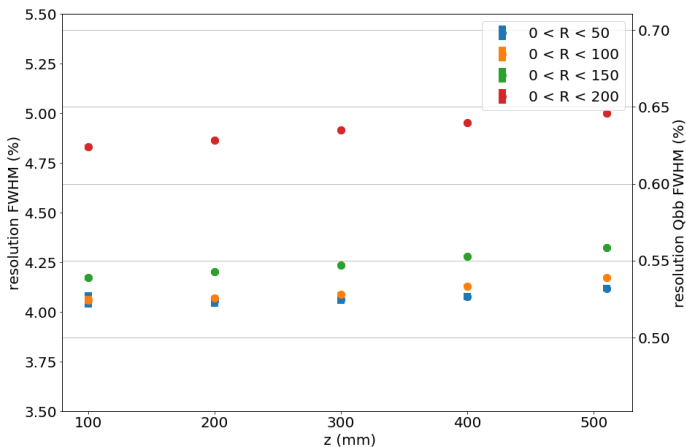


Figure: Resolution fits.

# Efficiency over time

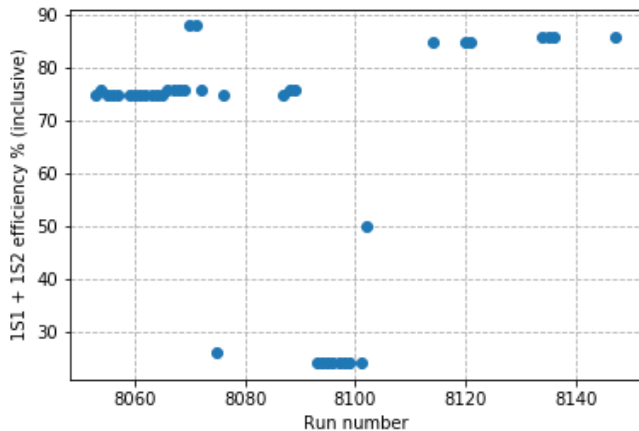


Figure: Efficiency tracking over time.

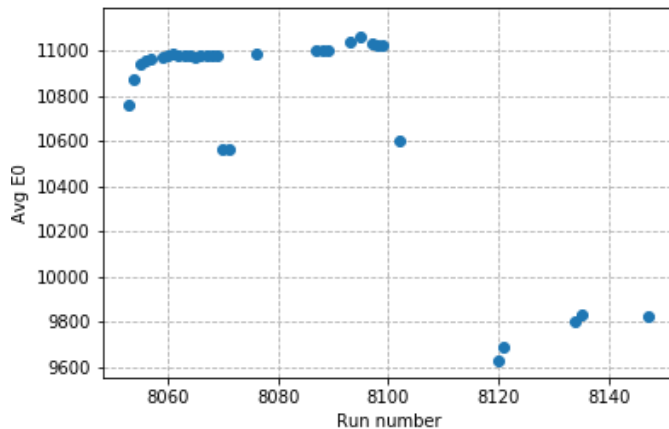


Figure: Response tracking over time.



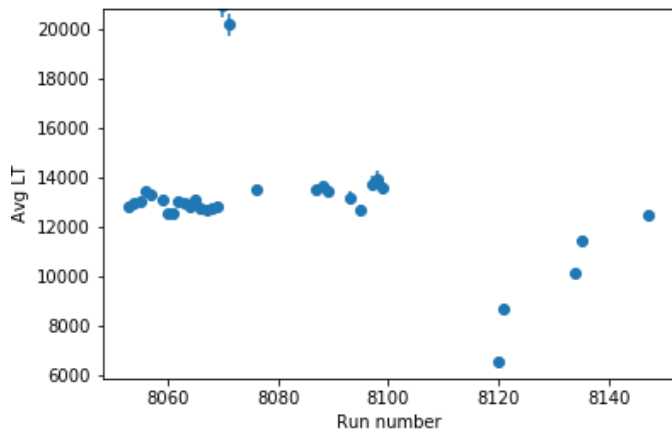


Figure: Lifetime tracking over time.

