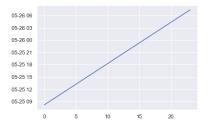
Krypton Calibration Run 7143

Krypton Calibration Group

Conditions and data

Table: Conditions and data for run 7143

| Conditions | Data |
|------------------------|------------|
| run number | 7143 |
| file range | (0,8023) |
| date | 2019-05-26 |
| lab temperature: | 0.0 deg |
| Total number of S2s | 2525582 |
| Total number of events | 2162128 |



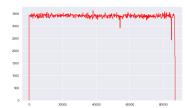


Figure: Run data.

Table: S1 & S2 for run 7143

| Conditions | Data |
|------------------------|------|
| fraction of S1s | 0.79 |
| fraction of S2s (1 S1) | 0.95 |
| fraction 1 S2 & 1 S1 | 0.75 |

Table: S1 & S2 selection for run 7143

| 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 μs to 15 μs |
| n _{sipm} min | 15 |

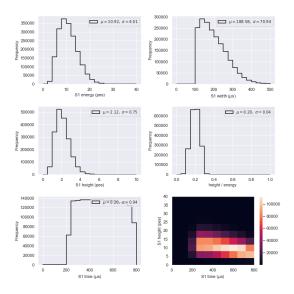


Figure: S1 distributions.

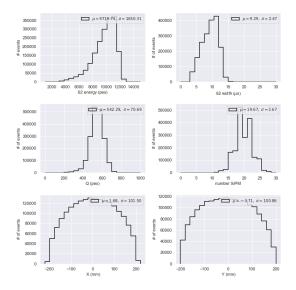


Figure: S2 distributions.

Control distributions

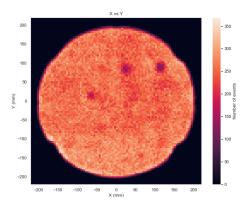


Figure: XY distribution.

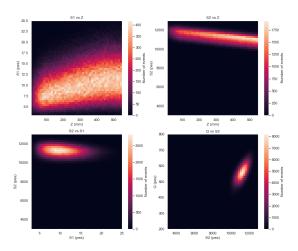


Figure: S1, S2 & Q distributions.

Lifetime distributions

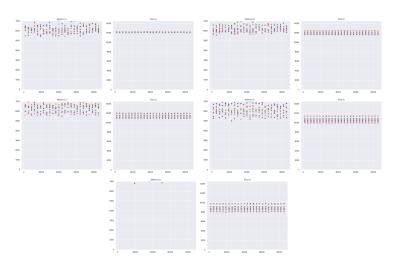


Figure: Distributions of lifetime and E_0 for 5 radial sectors (40, 80, 120, 160, 200).

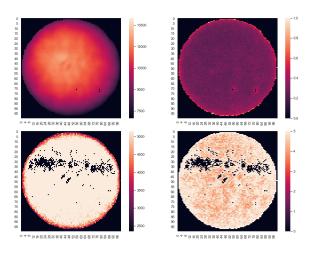


Figure: Lifetime and geometrical map.

Lifetime maps

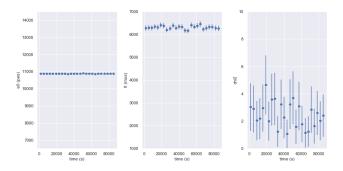


Figure: Average lifetime.

Lifetime and geometry correction

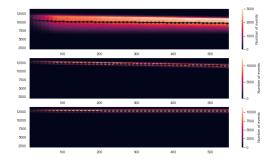


Figure: Lifetime and geometry correction.

R Profile showing R dropout

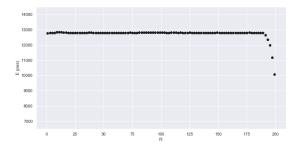


Figure: R profile shows that fiducial volume must be R < 180mm.

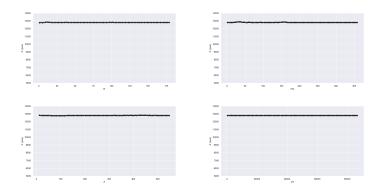


Figure: Profiles showing correction is robust.

Resolution fits as a function of R and Z

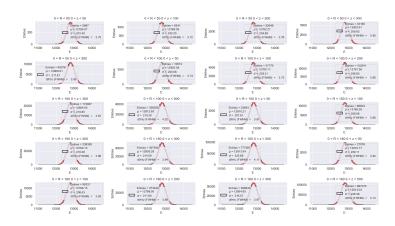


Figure: Resolution fits.

Resolution as a function of R and Z

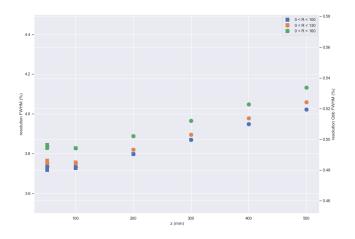


Figure: Resolution fits.