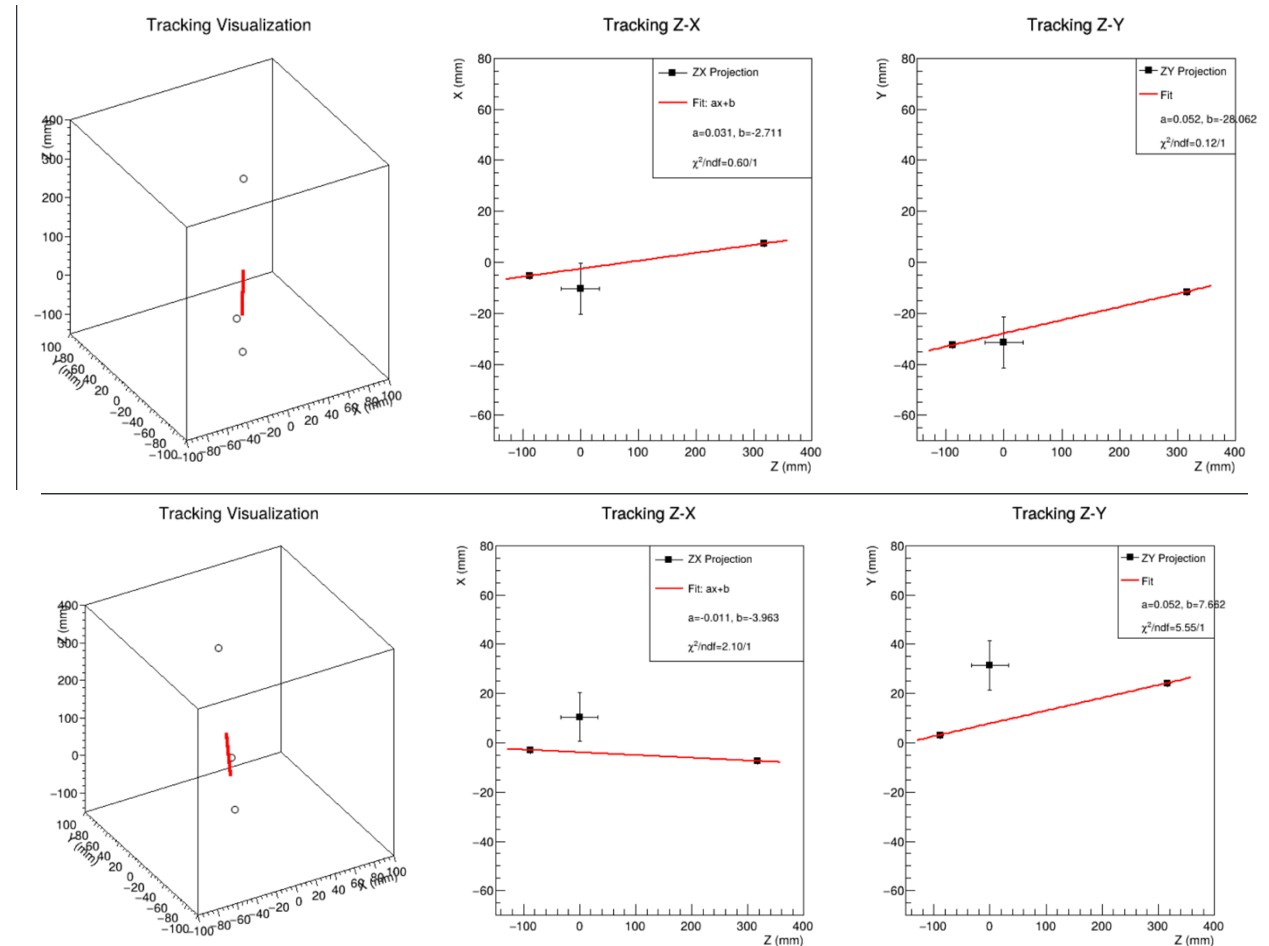# Status Report

朱珈聖 Chu, Chia-Sheng

Linear Fitting

Since the LYSO efficiency is very low, only use the PWO to fitting.

- Use Z-X, Z-Y plot to fit the trajectory.
- Errorbar is the "Crystal size".

TGraphErrors χ^2:

$$\frac{(y - f(x))^2}{ey^2 + \left(\frac{1}{2}(exl + exh)f'(x)\right)^2}$$

- How to use the fitting to judge the cosmic event

Noise Test

- Only open the PWO for testing
- The frame will let detector be noise

12/16 18:00 Noise Test => Only PWO open, 穩定度測試, 取兩天
Run7459 但22:00 Labview 閃退

	HV	PreAmp	VF (ROCA/B)	Rate	VFMode
PWO	16	x4	240/260	300/50	LG

12/18 最後使用215/225來測

	HV	PreAmp	VF (ROCA/B)	Rate	live time
PWO	16	x4	240/260	0/1	99/99
			220/240	4/1	99/99
			210/220	1100/1200	75/77
			220/230	5/30	99/99
			220/220	5/600	99/86
			215/225	100/60	98/97

12/19 1:30

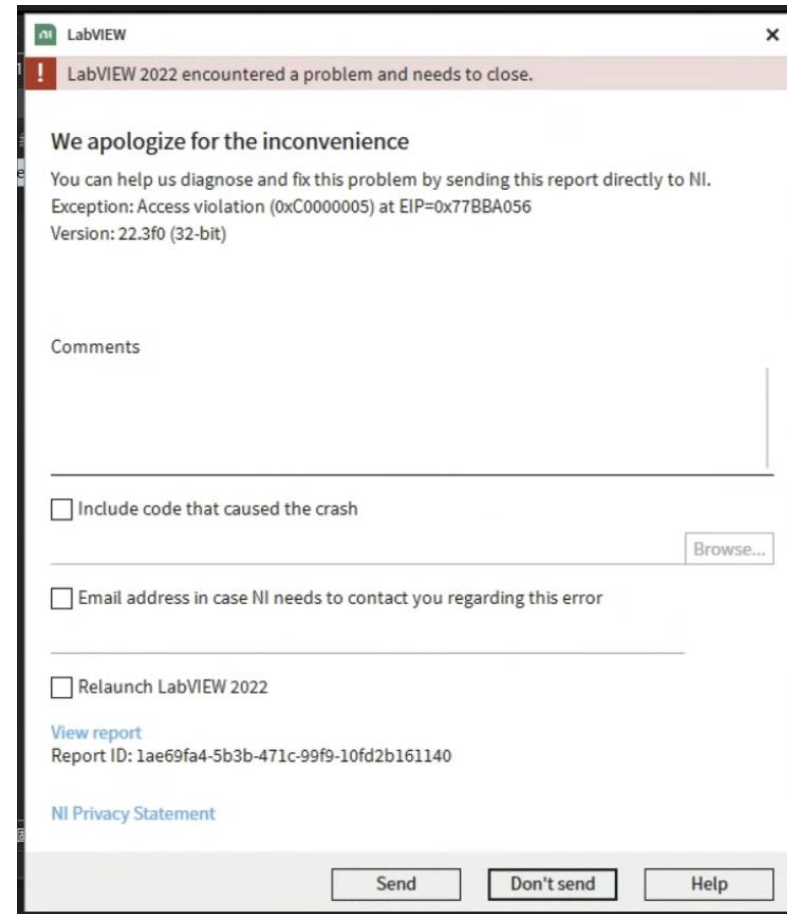| PWO	16	x4	215/225	60/60	98/97

Ground

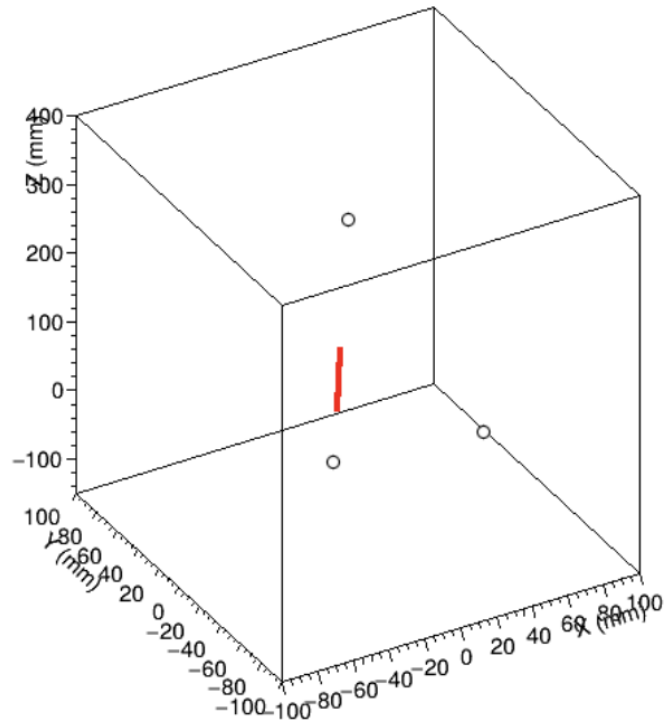Power Negative

PWO

ROC

UART

Labview Error

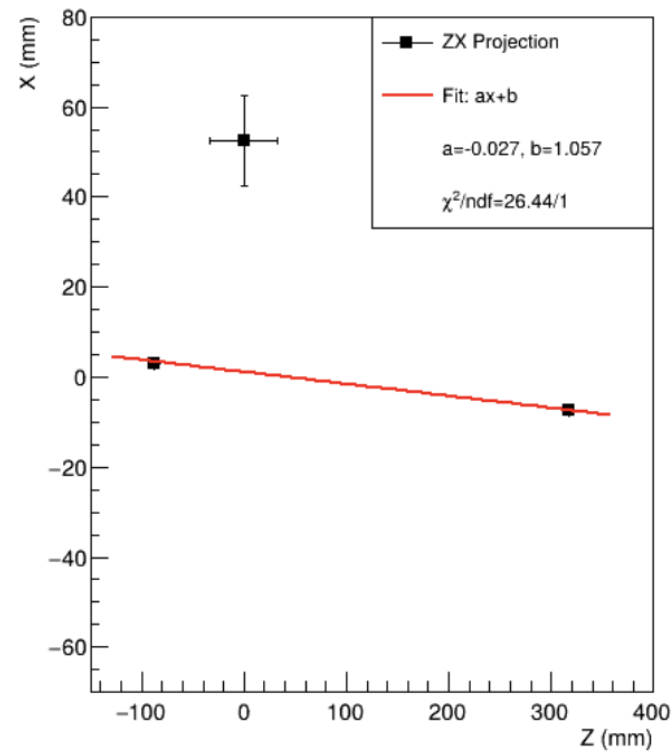- Labview will have the strange error.
- The occur freq. ~ 3 days to 7 days.

Backup

Tracking Visualization

Tracking Z-X

Tracking Z-Y