# Studying Z dependence of COT Hit Width

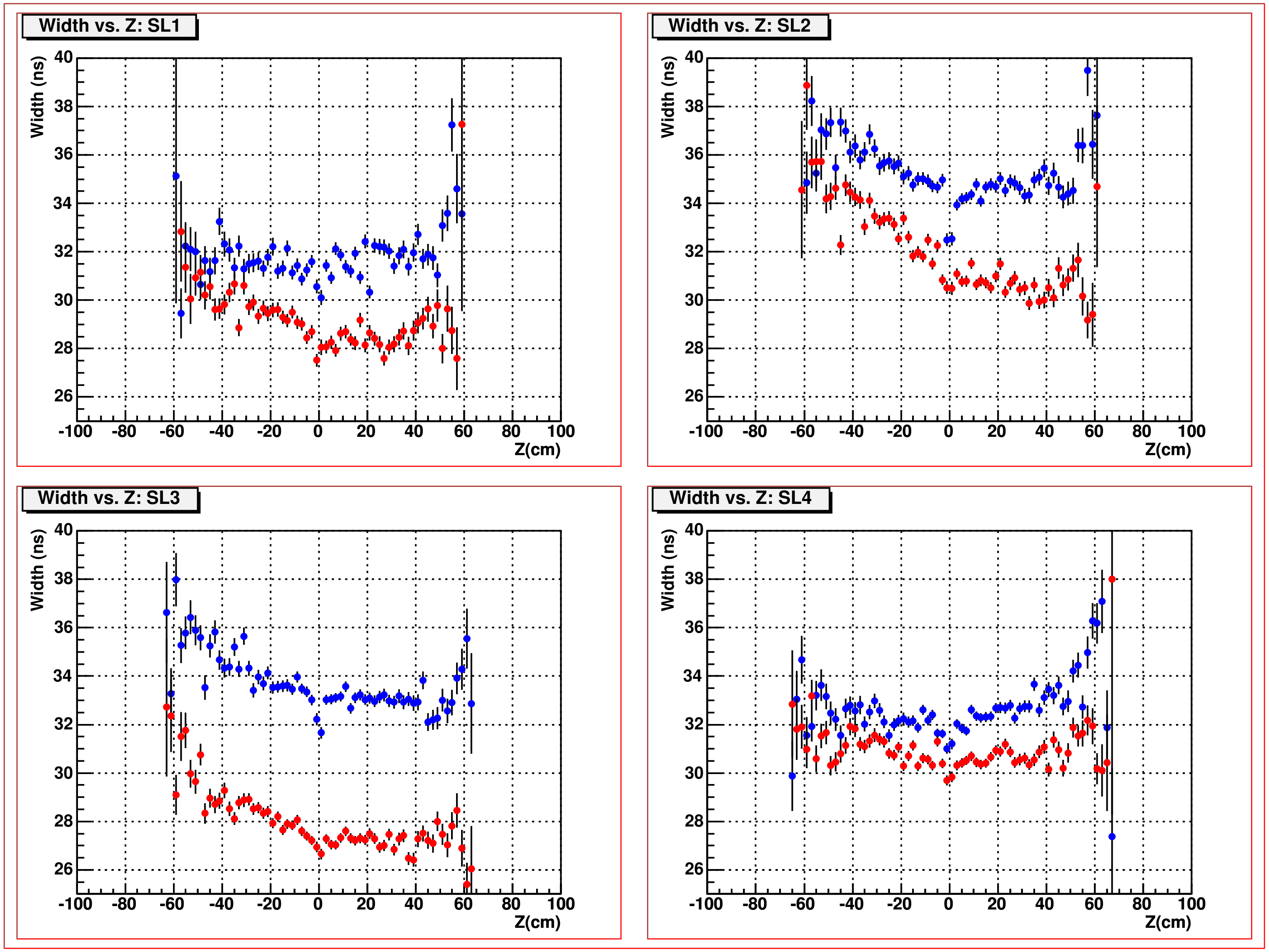
## Following up on Rolf's slides from last week

- Require $|z_0| < 50.0$
- Require $|\cot(\theta)| < 0.2$

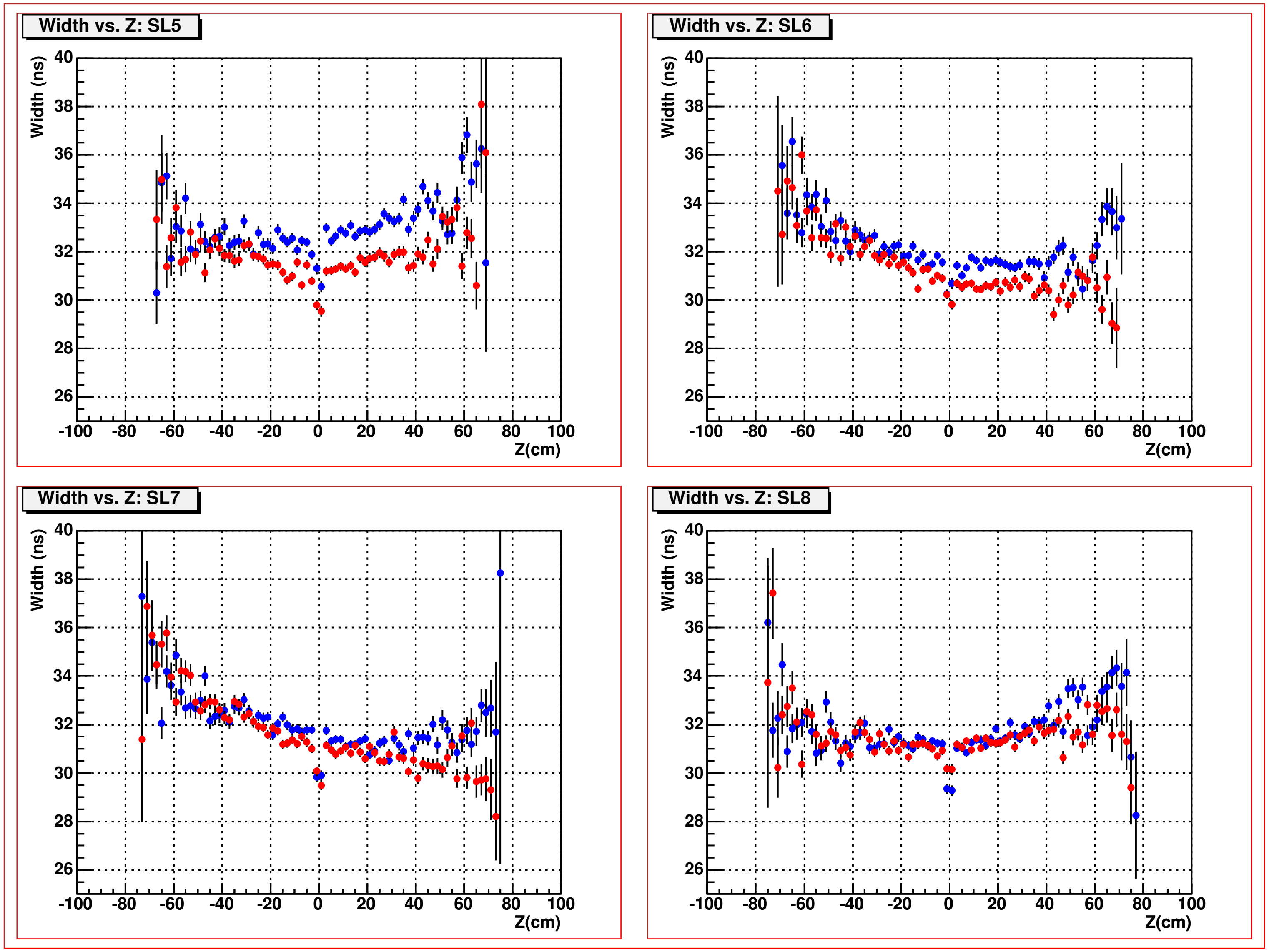
## Plot Mean Width Vs. Z for All SL

- Compare 142671(blue) with 168770(red)

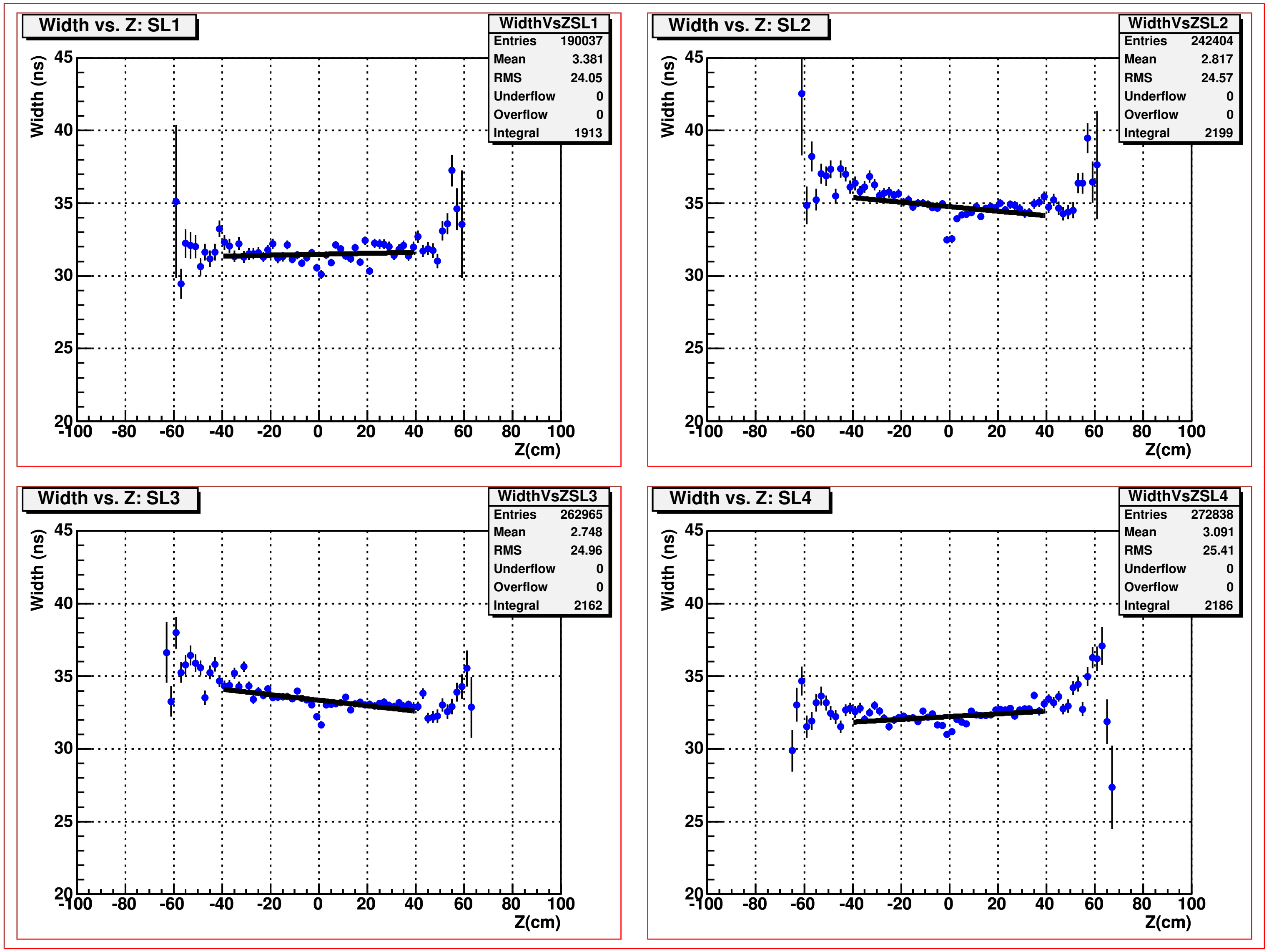
# Mean Width Vs Z: SL1-4 Blue = 142671, Red = 168770



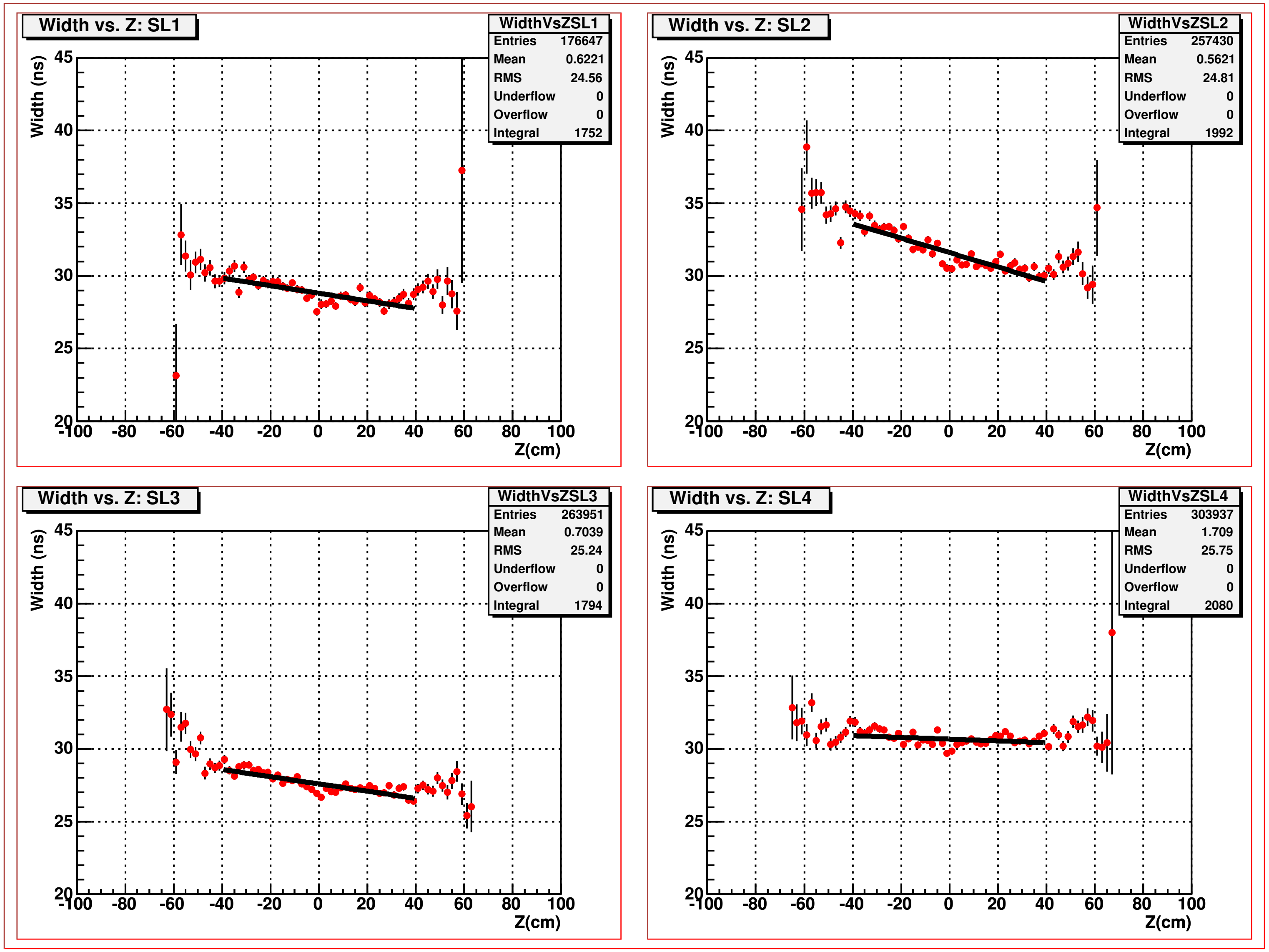
# Mean Width Vs Z: SL5-8    Blue = 142671, Red = 168770



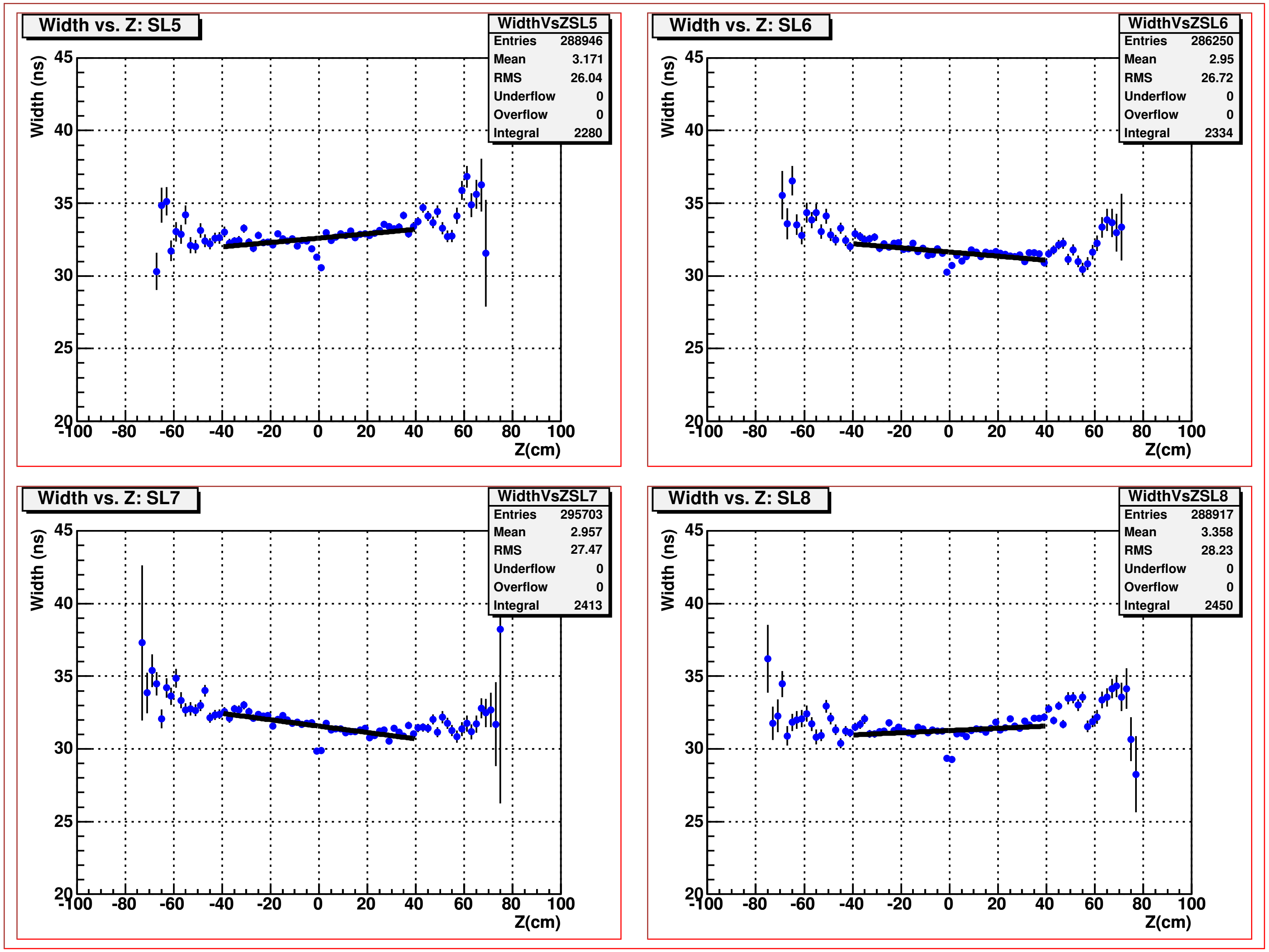
# Fit Slope - Run 142671 SL1-4



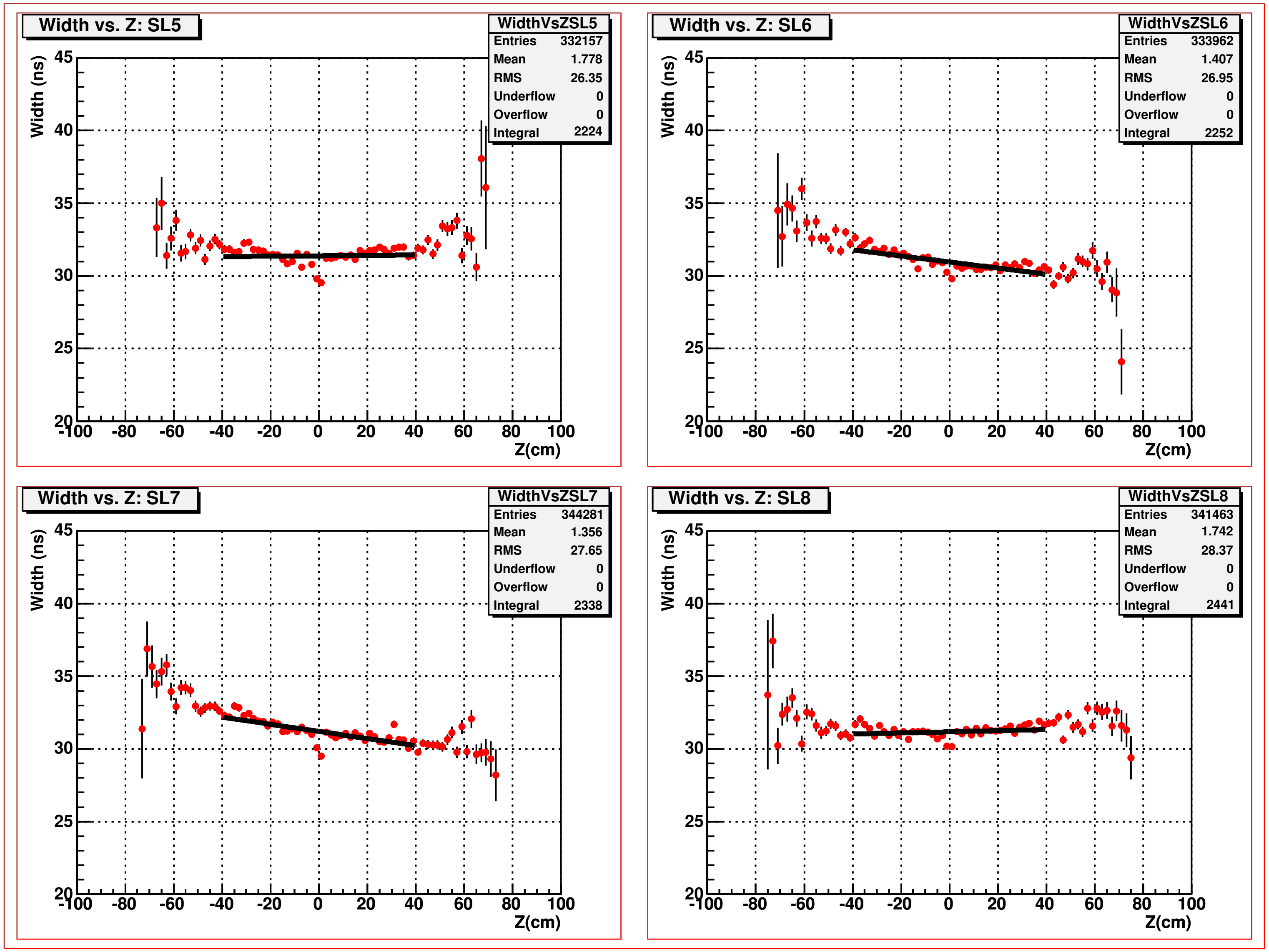
# Fit Slope - Run 168770 SL1-4



# Fit Slope - Run 142671 SL5-8



# Fit Slope - Run 168770 SL5-8



# Comparison of Fitted Slopes and Means

| SL | Slope (142671) | Slope (168770) | Mean (142671) | Mean (168770) |
|---|---|---|---|---|
| 1 | $+0.003$ | $-0.026$ | $31.5$ | $28.8$ |
| 2 | $-0.016$ | $-0.050$ | $34.8$ | $31.6$ |
| 3 | $-0.019$ | $-0.025$ | $33.4$ | $27.6$ |
| 4 | $+0.009$ | $-0.006$ | $32.2$ | $30.7$ |
| 5 | $+0.015$ | $+0.001$ | $32.6$ | $31.4$ |
| 6 | $-0.014$ | $-0.021$ | $31.6$ | $31.0$ |
| 7 | $-0.022$ | $-0.025$ | $31.6$ | $31.2$ |
| 8 | $+0.008$ | $+0.004$ | $31.3$ | $31.2$ |