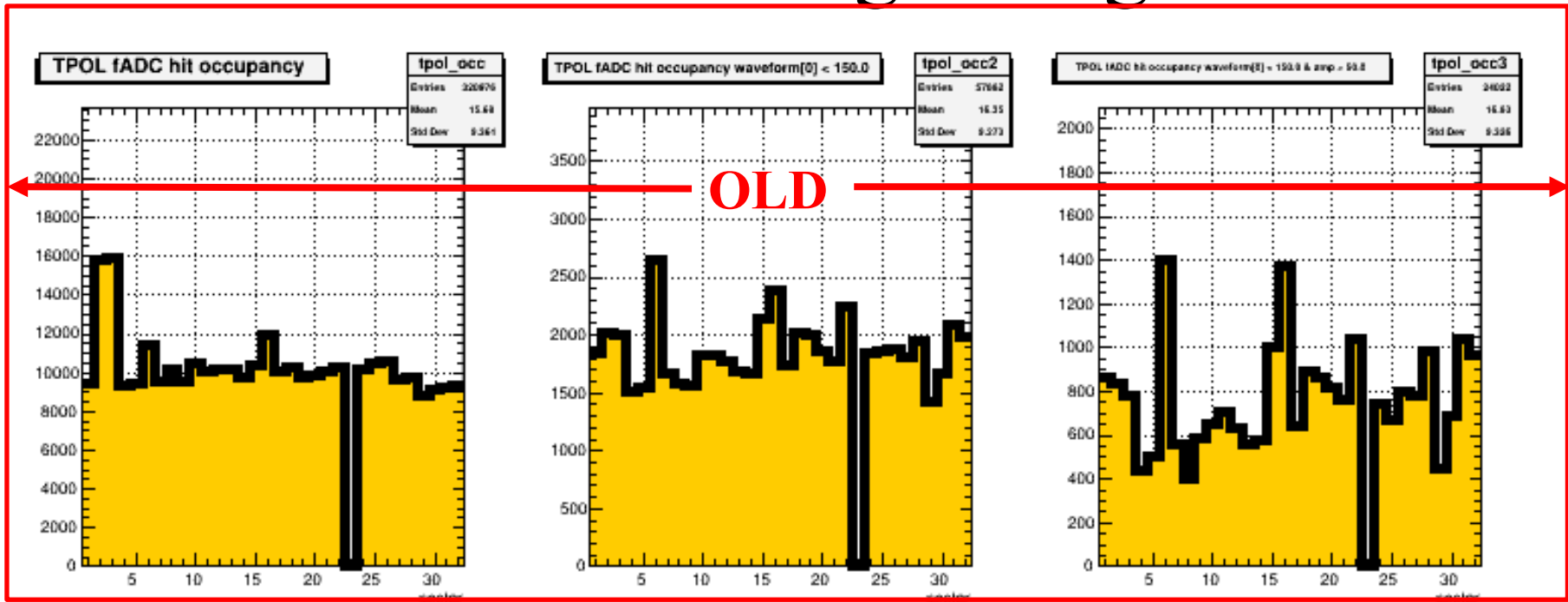


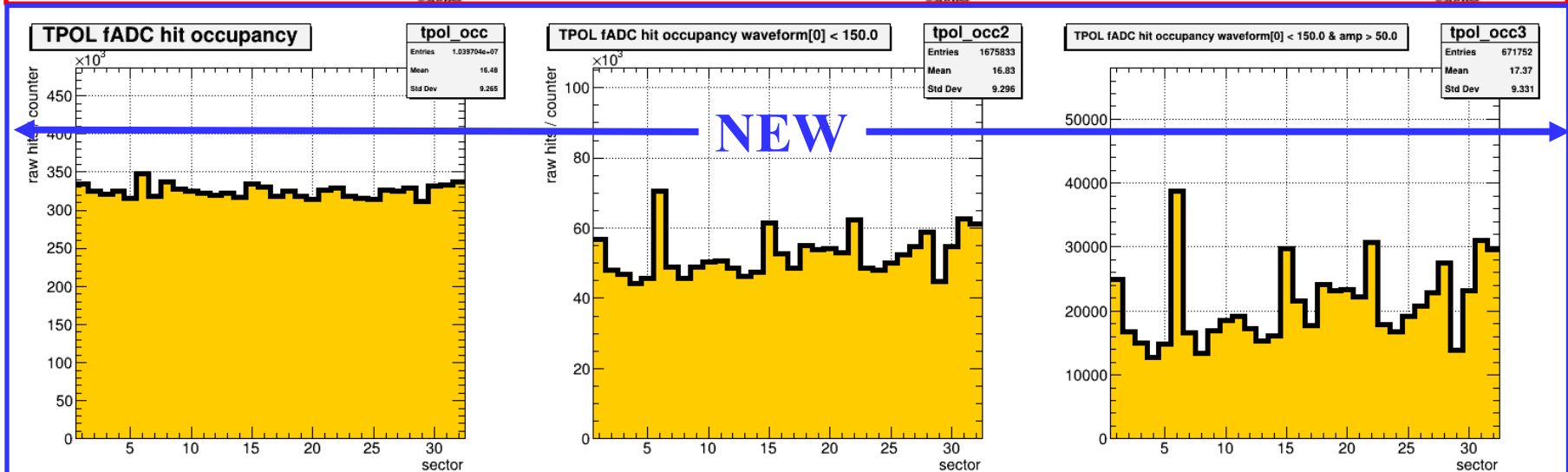
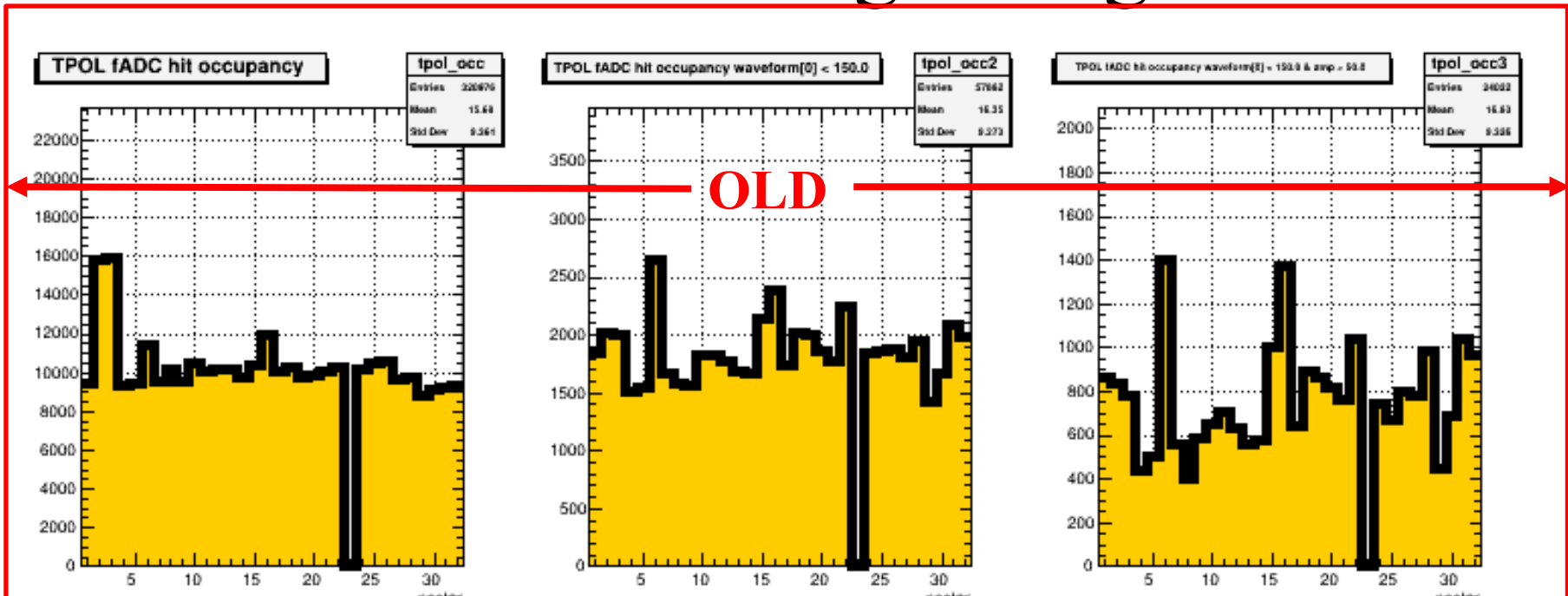
TPOL Update



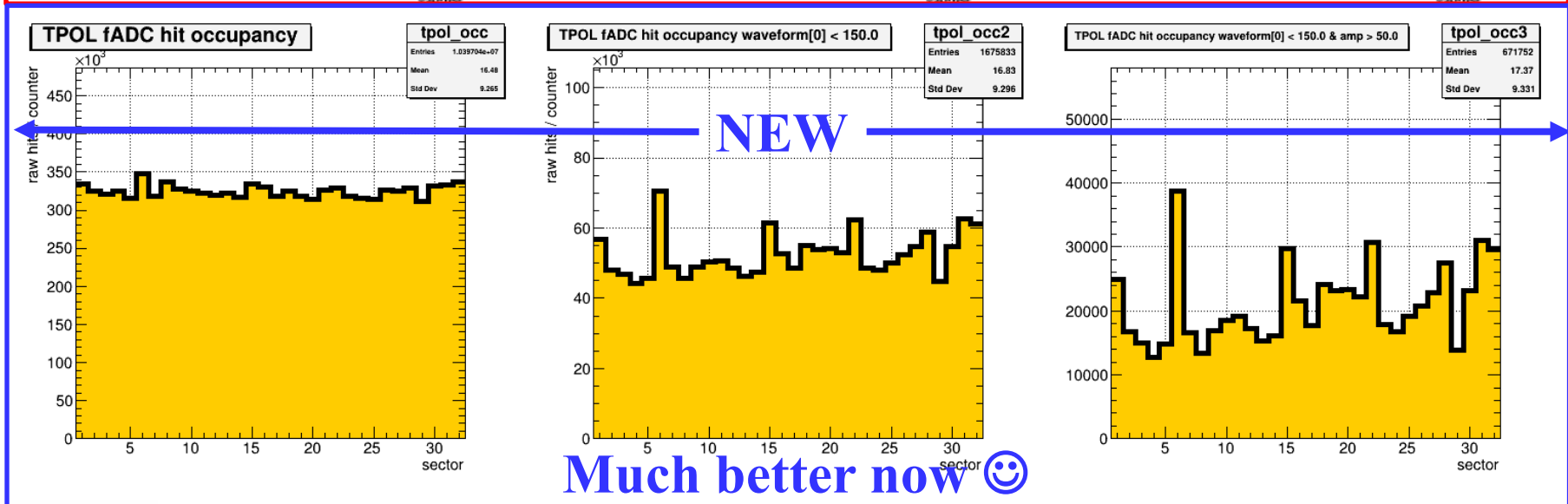
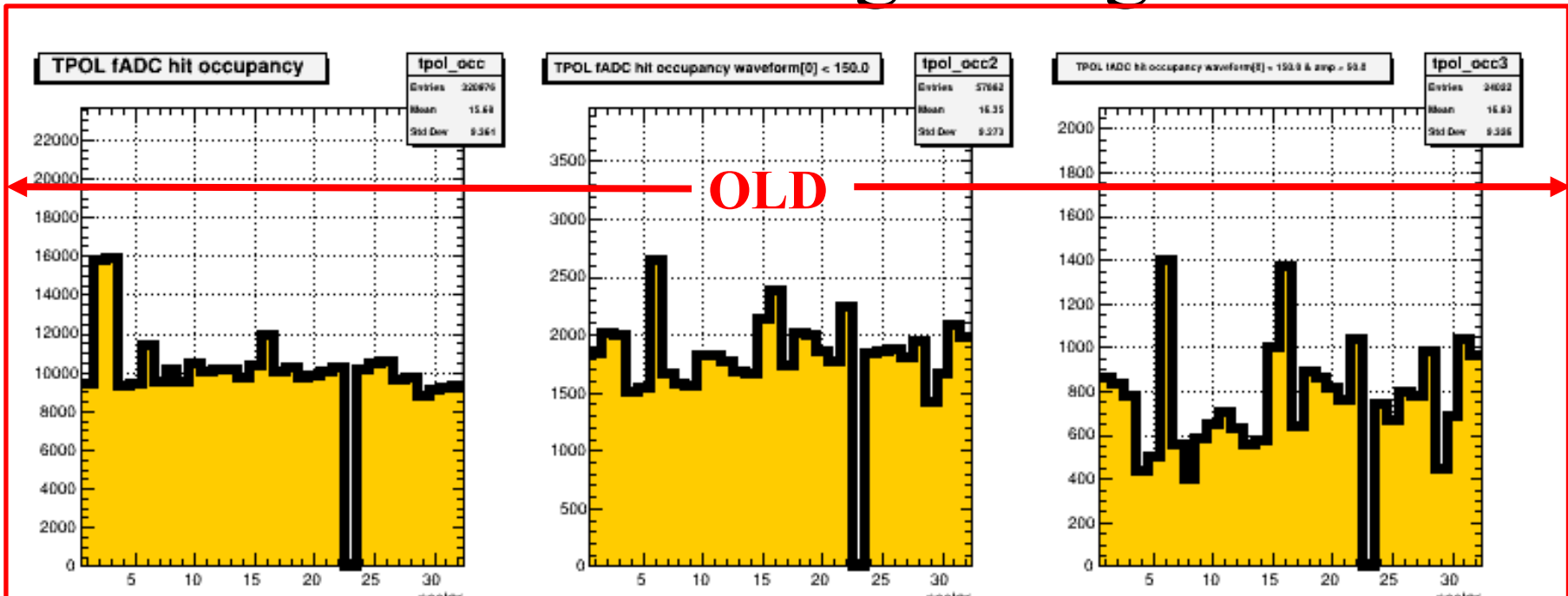
TPOL monitoring histograms



TPOL monitoring histograms



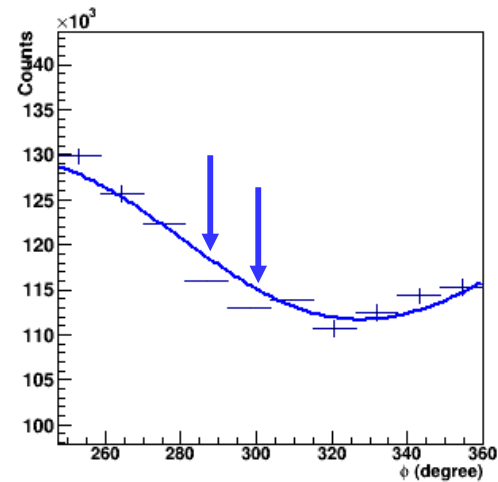
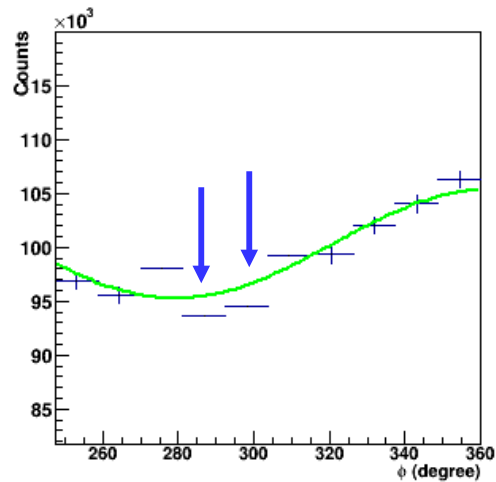
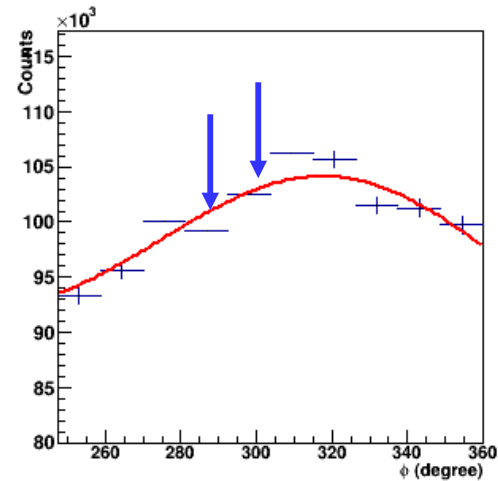
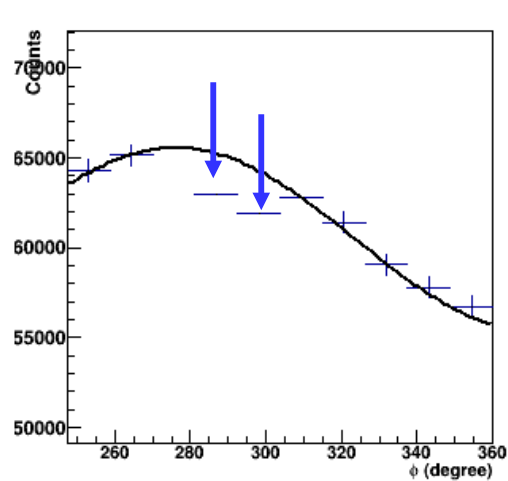
TPOL monitoring histograms



“Recovered” sectors

- Removed “recovered” sectors (and neighbors) in fit by setting error bars to zero

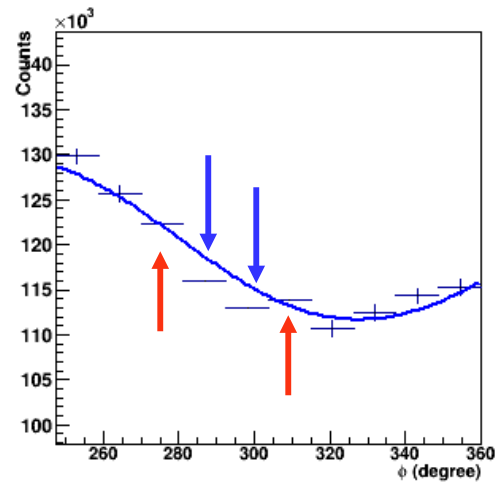
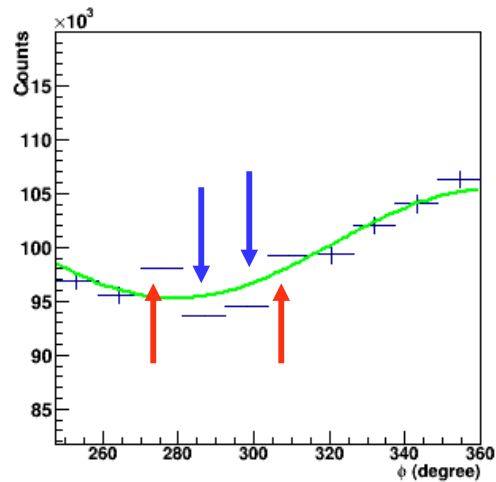
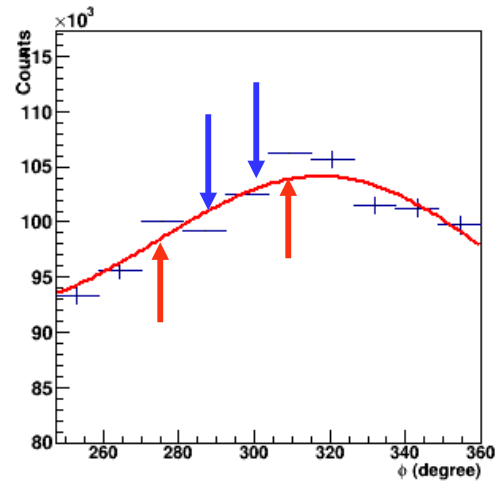
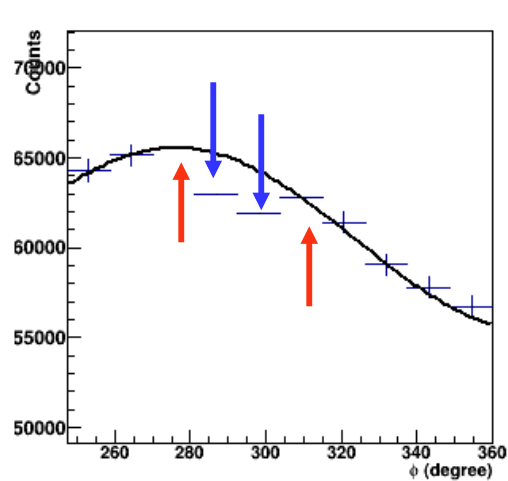
“Recovered” sectors



BLUE arrows : “recovered” sectors.



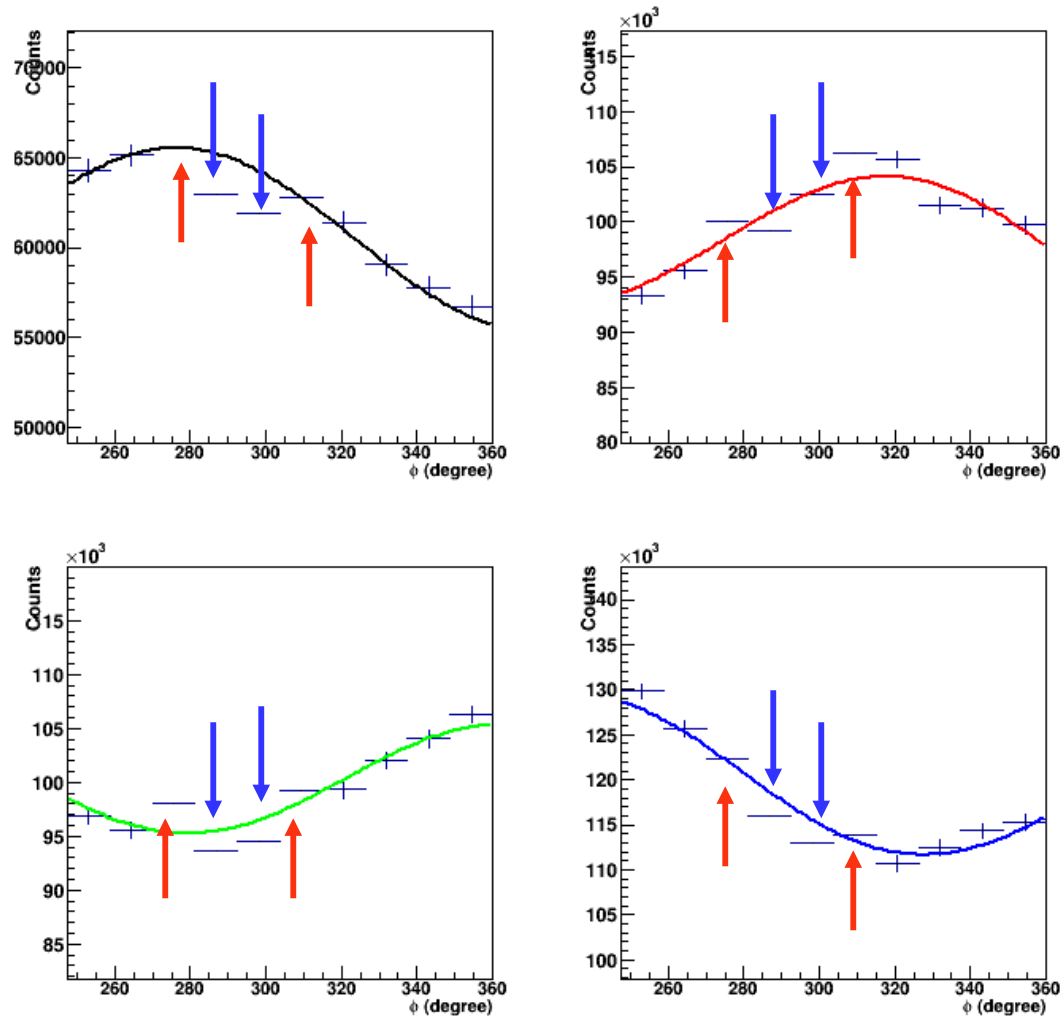
“Recovered” sectors



BLUE arrows : “recovered” sectors. **RED** arrows : neighbors

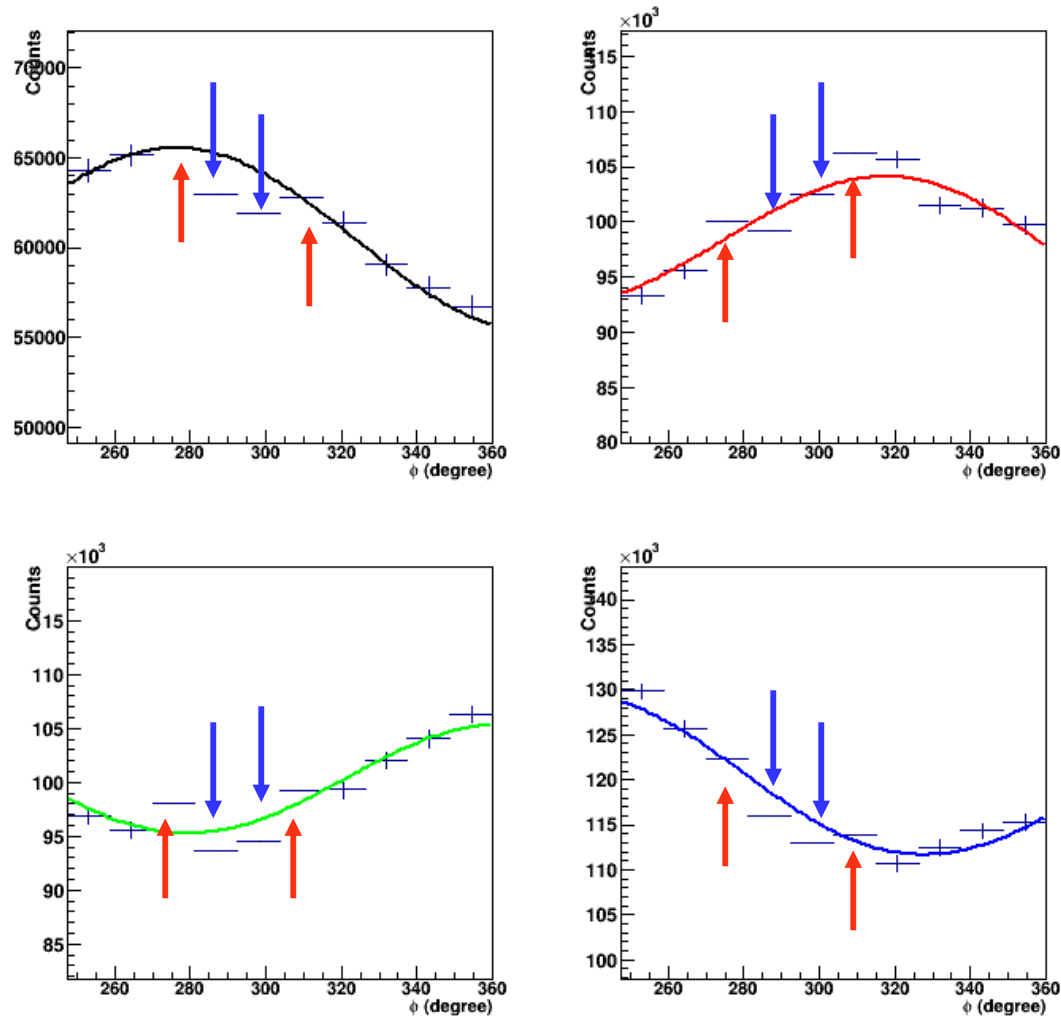


“Recovered” sectors



BLUE arrows : “recovered” sectors. **RED** arrows : neighbors
I do not trust the “recovered” or neighboring bins ☹

“Recovered” sectors



BLUE arrows : “recovered” sectors. **RED** arrows : neighbors

I do not trust the “recovered” or neighboring bins ☹

Those bins are being removed from here on

Simultaneous fit versus individual fits

Simultaneous fit versus individual fits

Fit function: $A [1 - B \cos(2(\varphi - \varphi_0)) + C \cos(\varphi + \varphi_1)]$

Simultaneous fit versus individual fits

Fit function: $A [1 - \mathbf{B} \cos(2(\varphi - \varphi_0)) + C \cos(\varphi + \varphi_1)]$



Determines polarization

Simultaneous fit versus individual fits

Fit function: $A [1 - \textcolor{blue}{B} \cos(2(\varphi - \varphi_0)) + \textcolor{red}{C} \cos(\varphi + \varphi_1)]$



Determines polarization



**Asymmetry due to beam
offset relative to TPOL
center**

Simultaneous fit versus individual fits

Fit function: $A [1 - \textcolor{blue}{B} \cos(2(\varphi - \varphi_0)) + \textcolor{red}{C} \cos(\varphi + \varphi_1)]$



Determines polarization



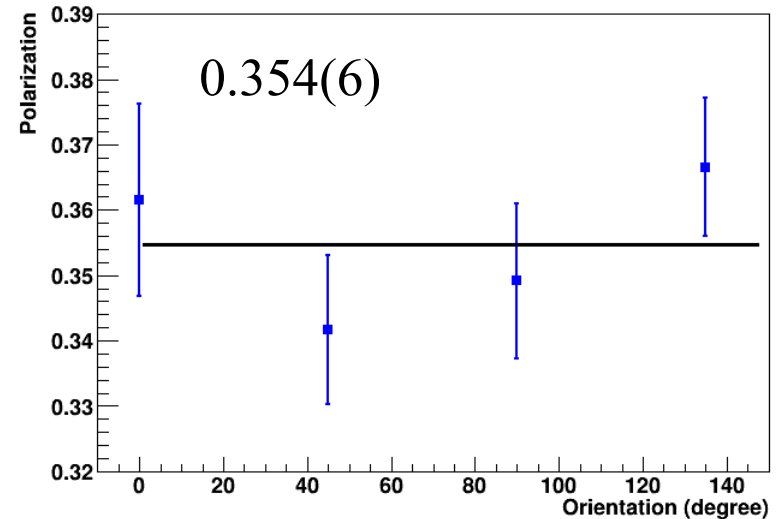
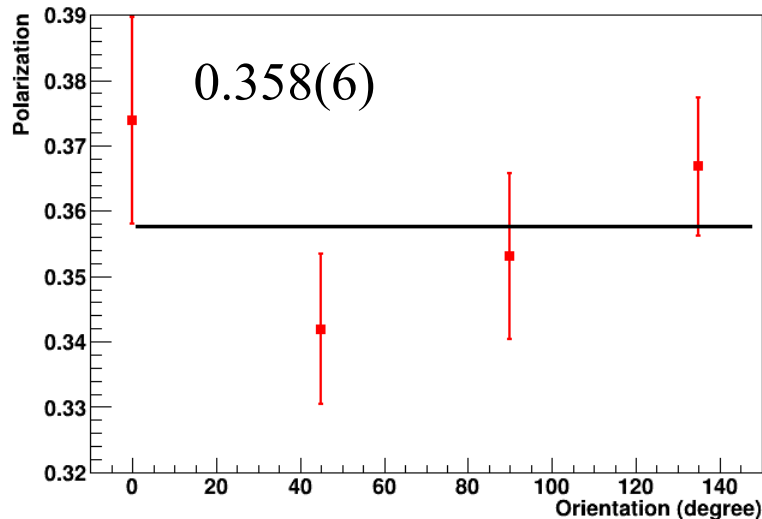
**Asymmetry due to beam
offset relative to TPOL
center**

- For simultaneous fit, the parameter **C** is common to all orientations

Simultaneous fit versus individual fits

RED: Individual

BLUE: Simultaneous



- Polarization values are very similar
- The simultaneous fit results look a bit more consistent

Simultaneous fit versus individual fits

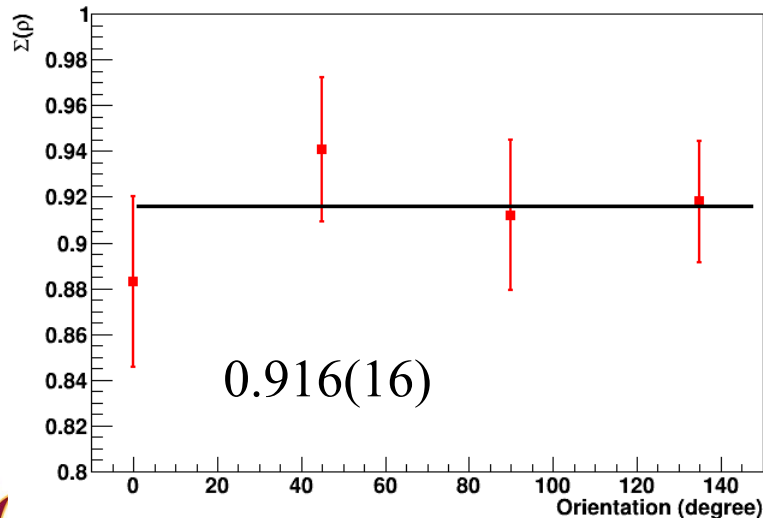
- Used ρ $P\Sigma$ values given by Alex on 2-15-2022

Orientation	rho Polarization
0	0.3301
45	0.3217
90	0.322
135	0.3367

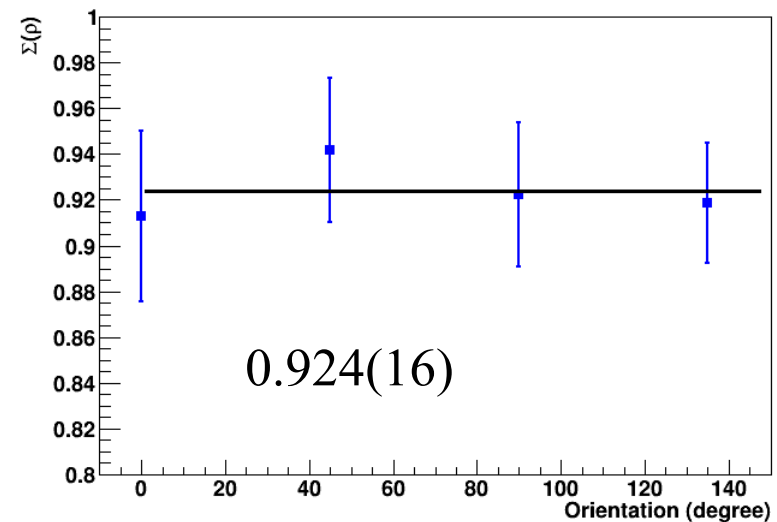
Simultaneous fit versus individual fits

- Used ρ asymmetries from values given by Alex on 2-15-2022

RED: Individual



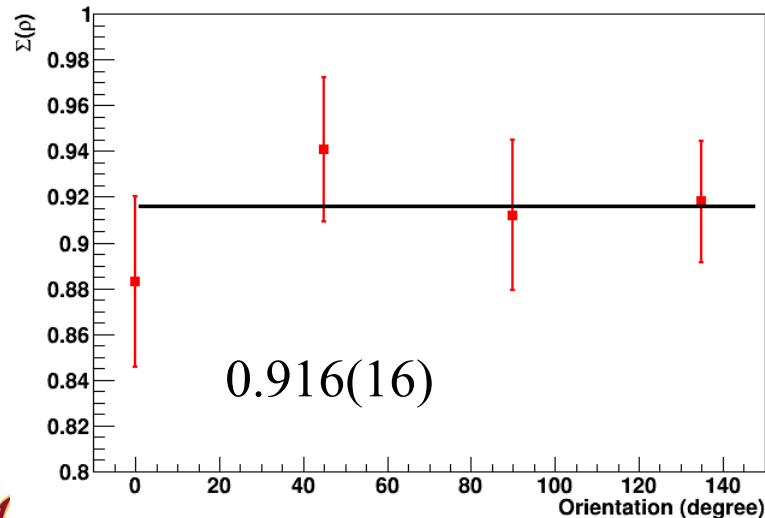
BLUE: Simultaneous



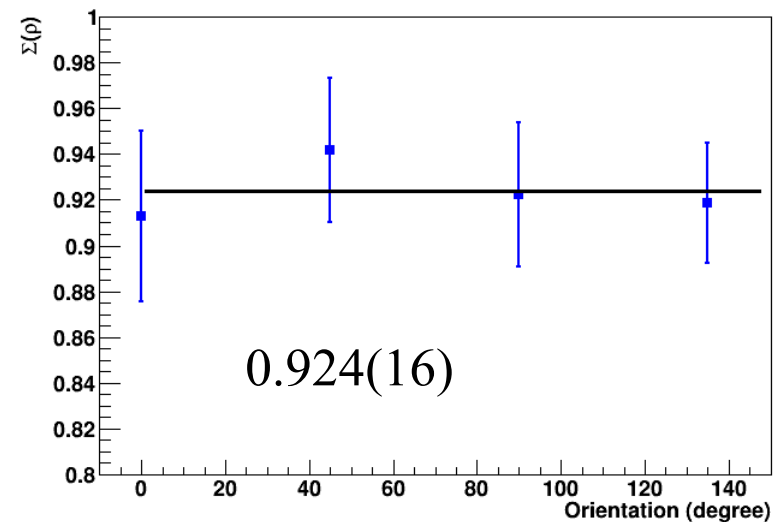
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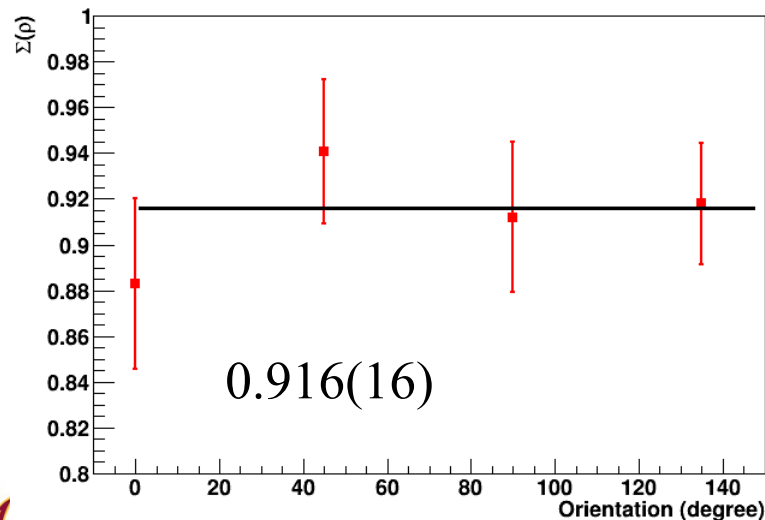
BLUE: Simultaneous



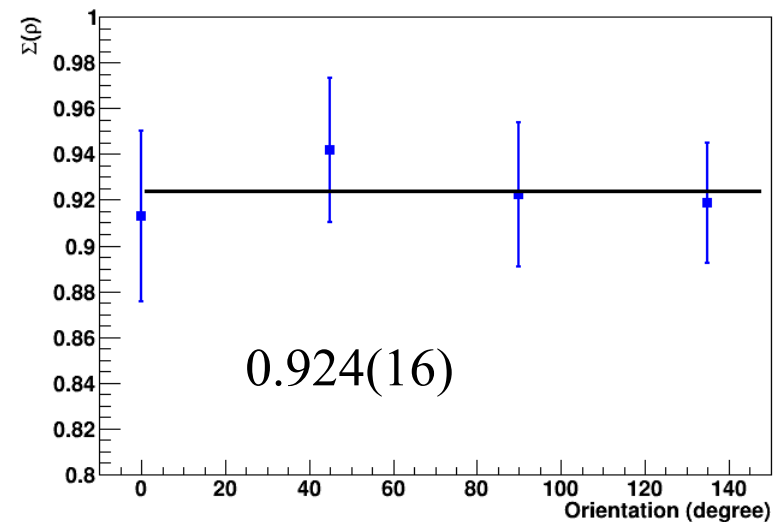
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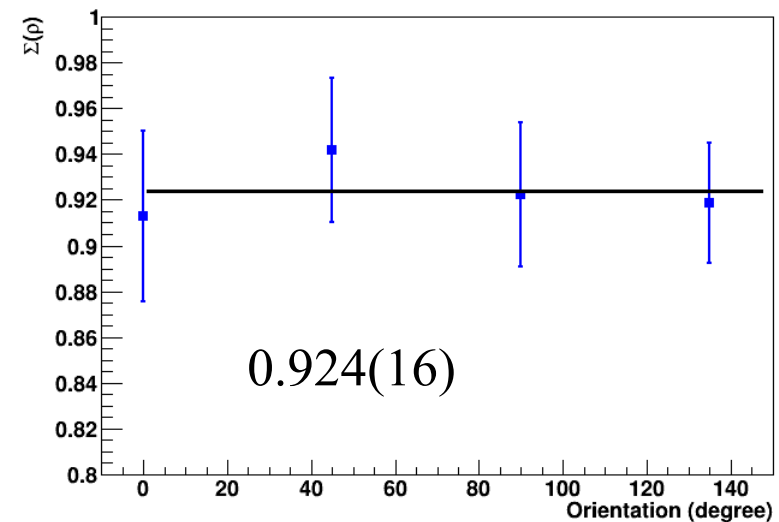
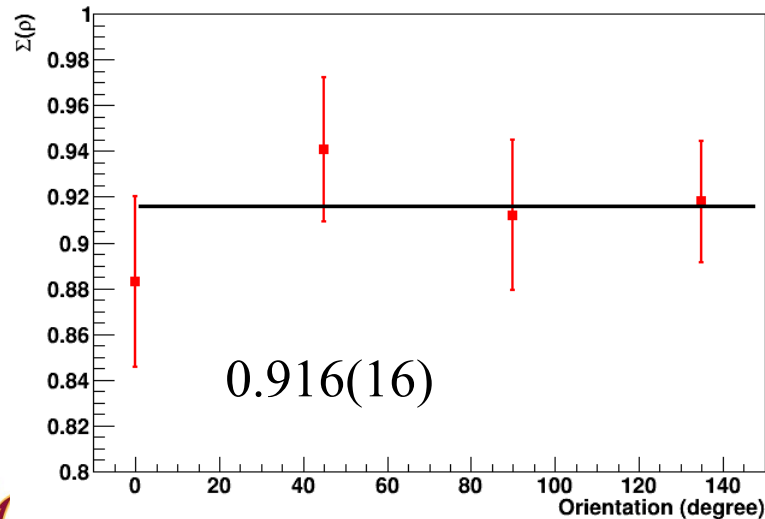
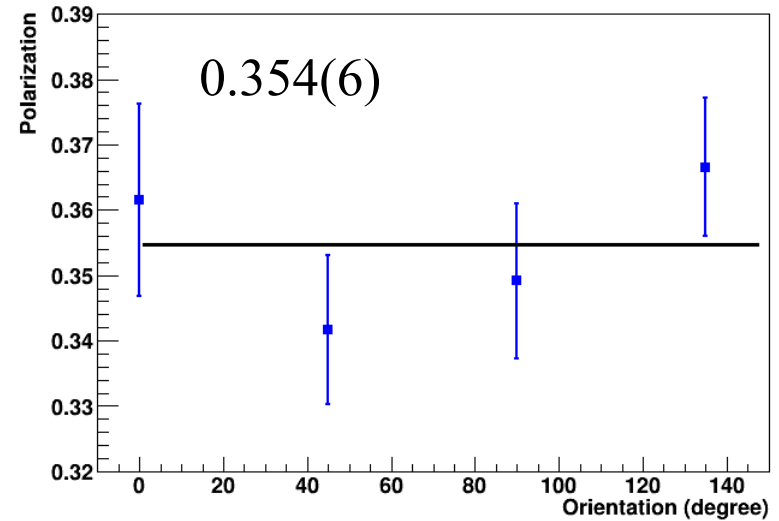
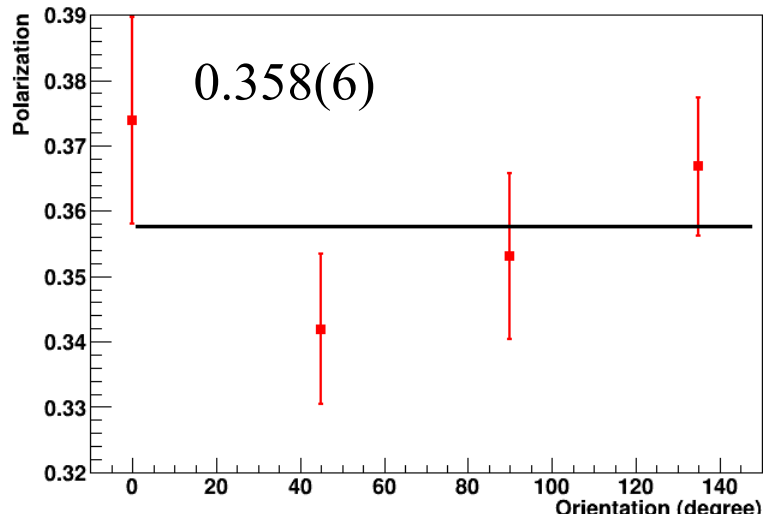
BLUE: Simultaneous



Simultaneous fit versus individual fits

RED: Individual

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Title

