

Polarization Overlaps using the Reaction



Volker Credé

Florida State University
Tallahassee, FL

g8b Meeting

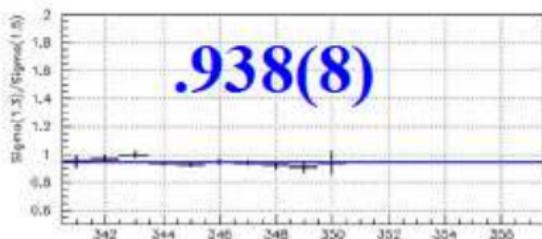
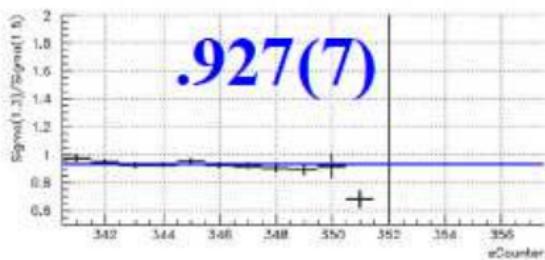
November 2, 2011

Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

A word of caution: The $\pi^+ \pi^-$ channel has usually good statistics.

→ Statistics used for the comparisons is cut out in regular analysis.

200 MeV Ecut



Consistent with Mike's studies:

- Events with ($E_{\text{cut}} = 200 \text{ MeV}$)

$$E_{\gamma} < (\text{eventEdge} - E_{\text{cut}})$$

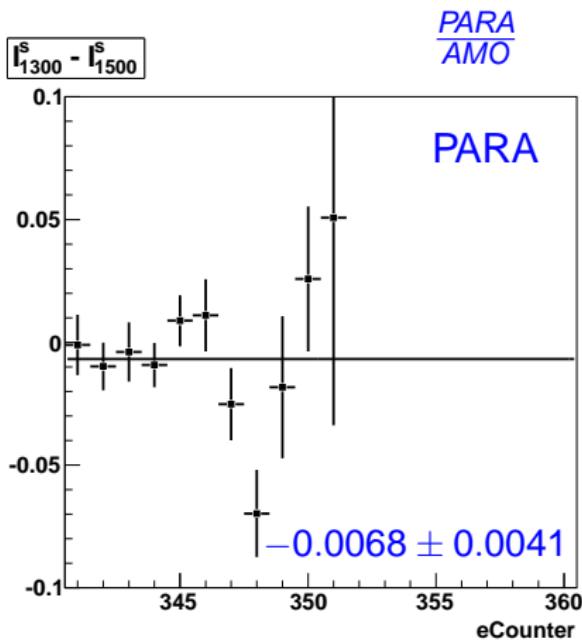
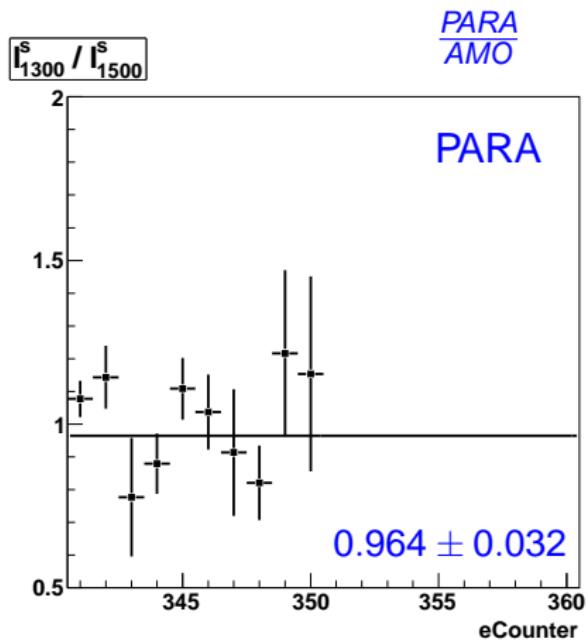
removed from analysis.

- x-axis is $e\text{Counter}$.
- I have not studied any other E_{cut} values.
- I have not studied any of the 1700 and 1900 AUTO files.

Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.3 / 1.5

$$I = I_0 (1 + \delta_I (\sin 2\beta \cdot I^S + \cos 2\beta \cdot \Sigma))$$



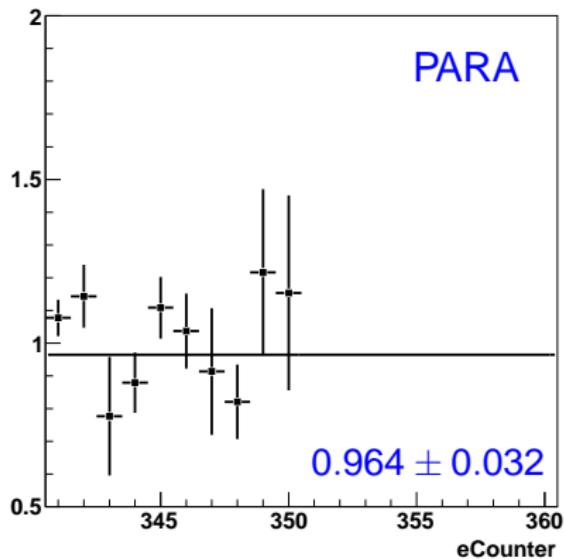
Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.3 / 1.5

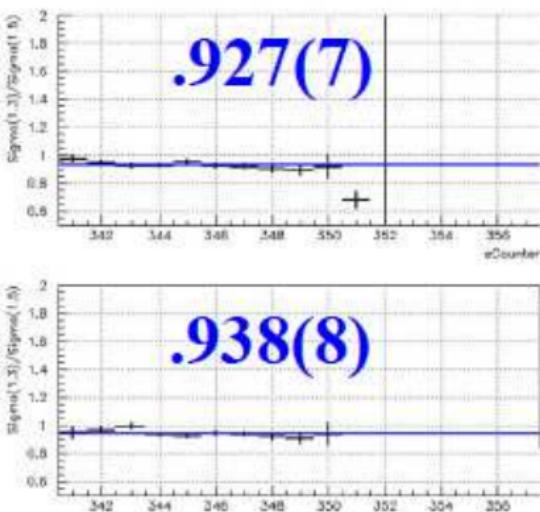
$$I = I_0 (1 + \delta_I (\sin 2\beta \cdot I^S + \cos 2\beta \cdot \Sigma))$$

$$\frac{I_{1300}^S}{I_{1500}^S}$$

PARA
AMO



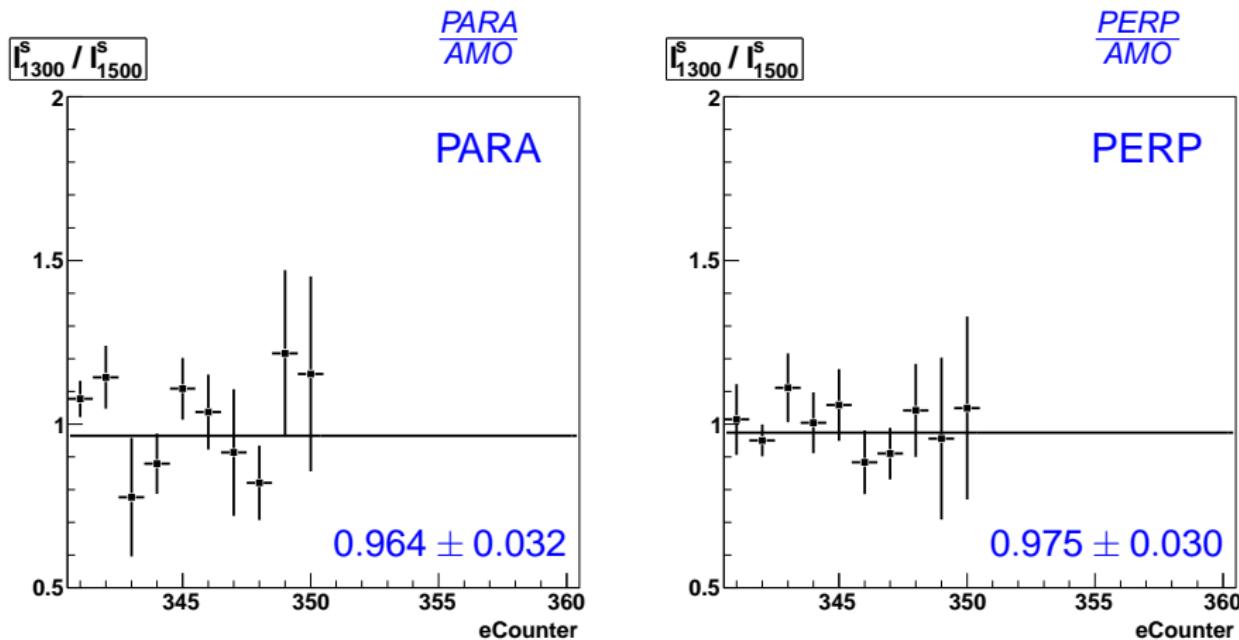
200 MeV Ecut



Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.3 / 1.5

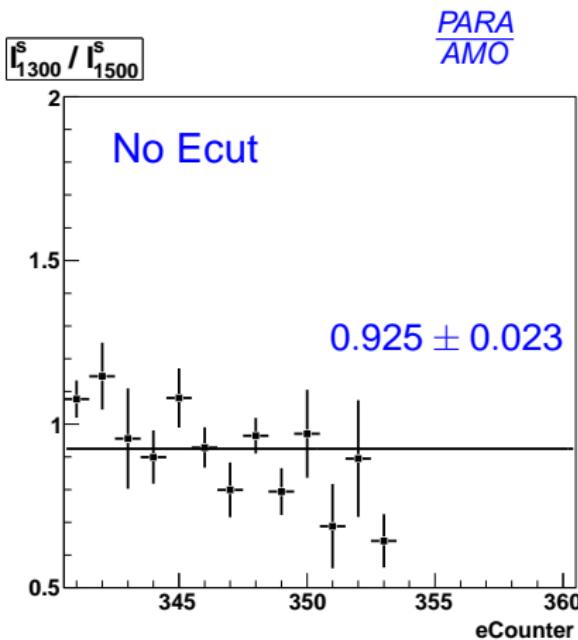
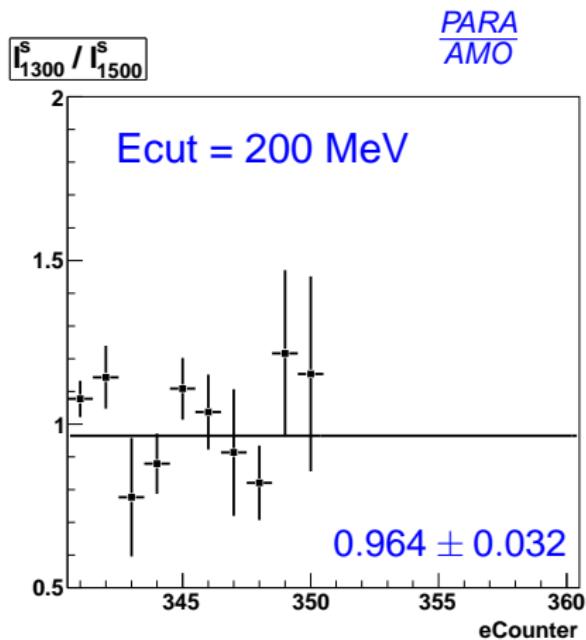
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ *

1.3 / 1.5

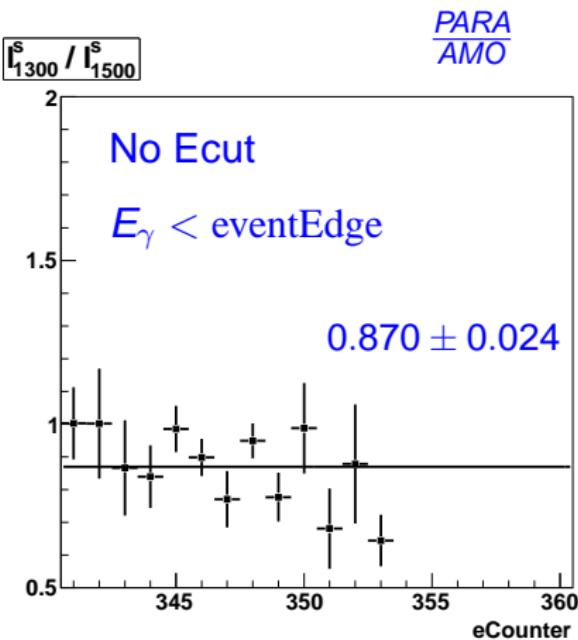
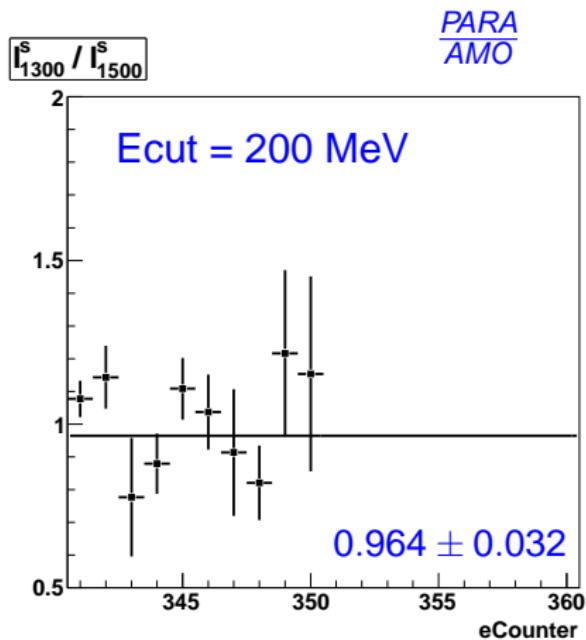
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ *

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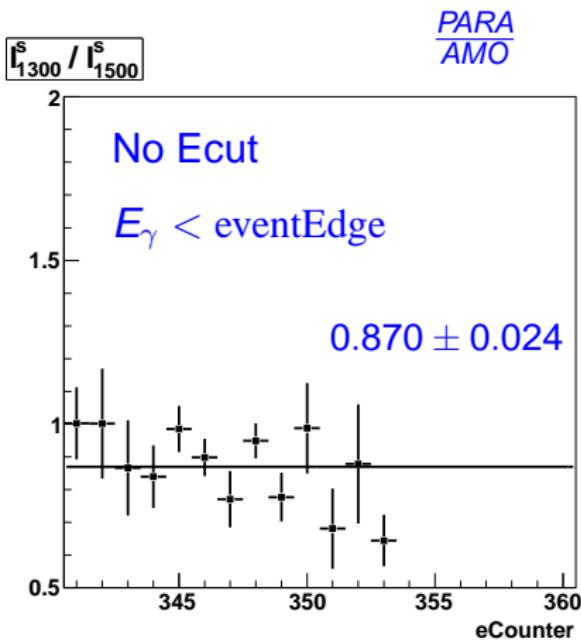
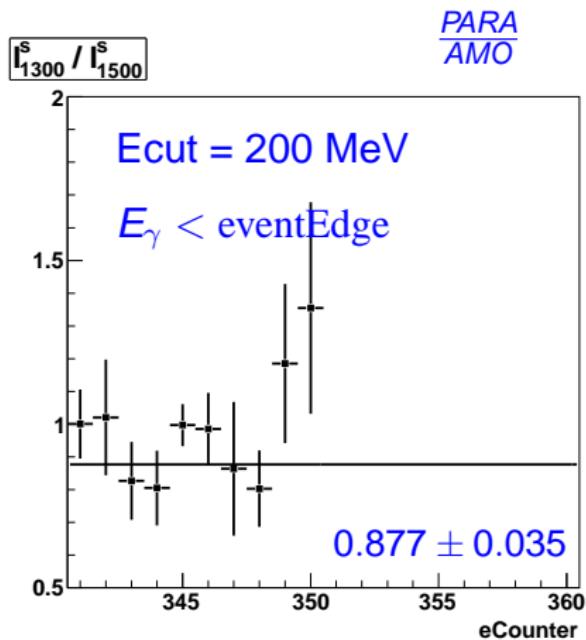
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ **

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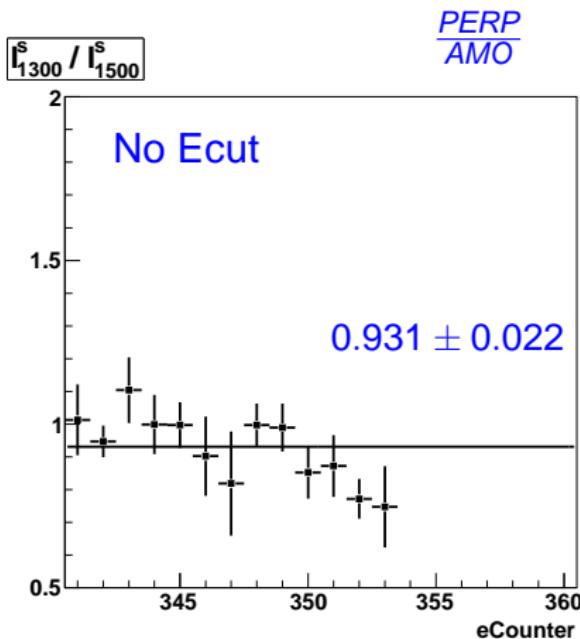
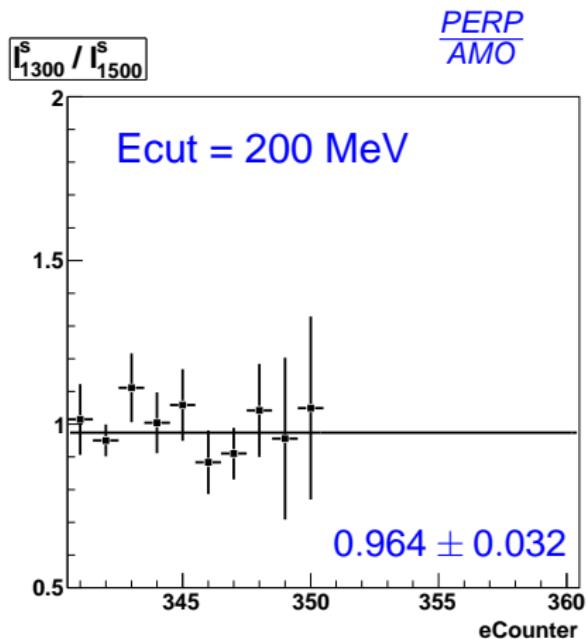
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ *

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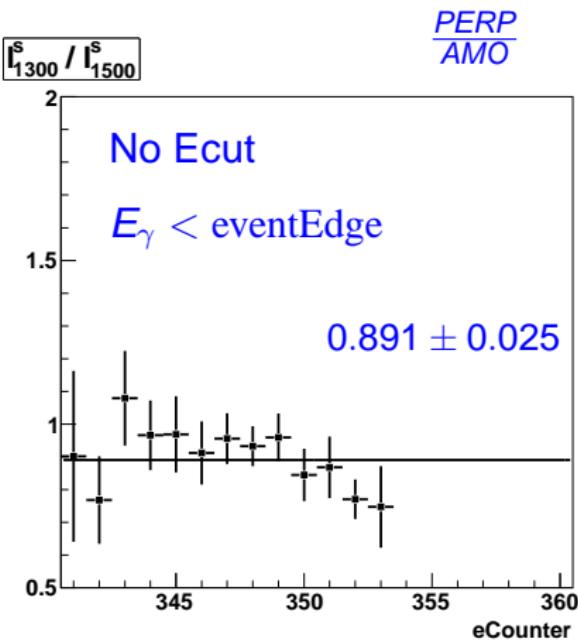
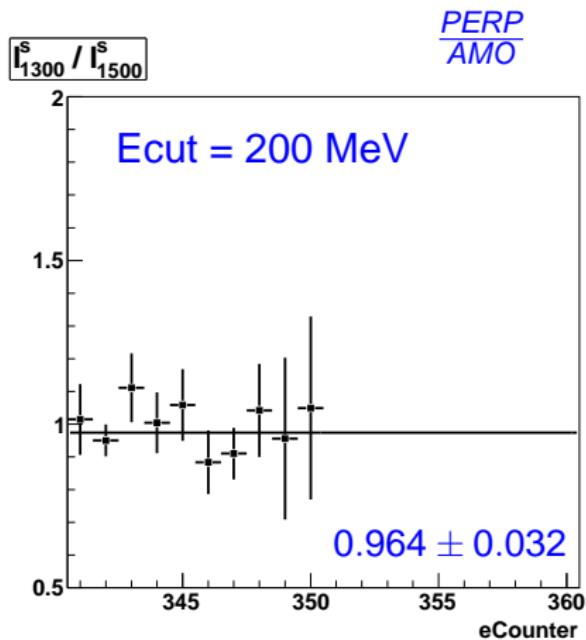
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ *

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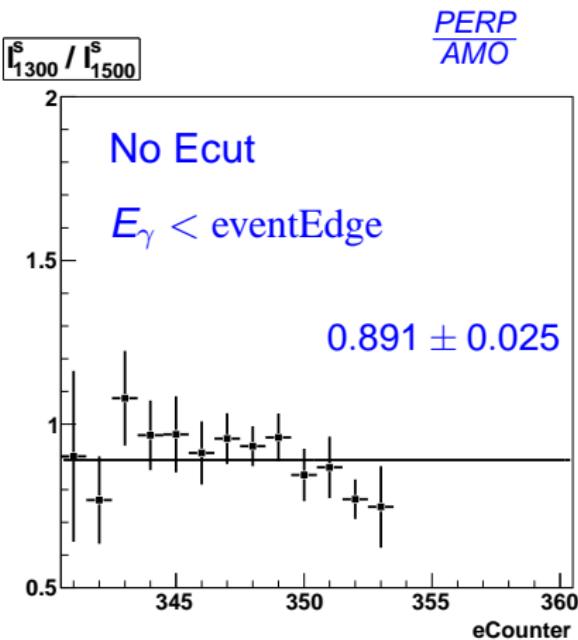
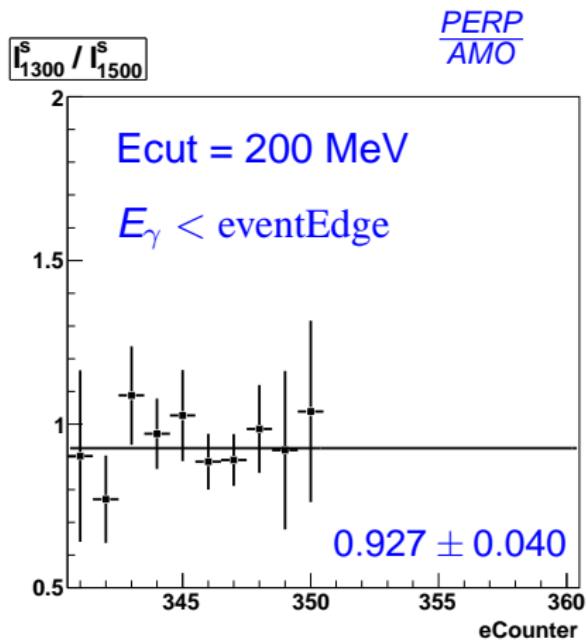
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ **

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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.3 / 1.5

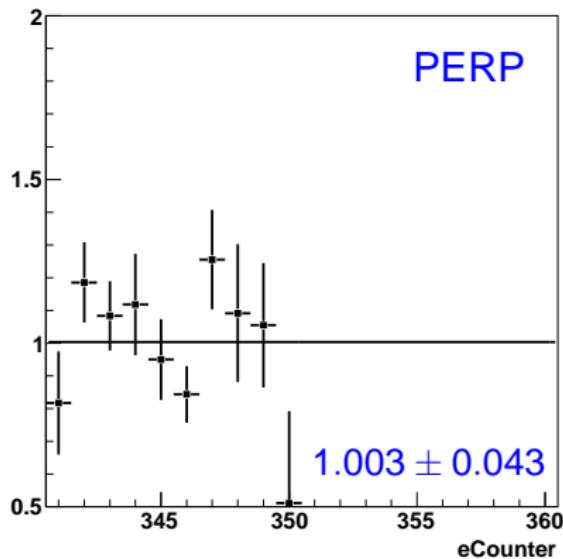
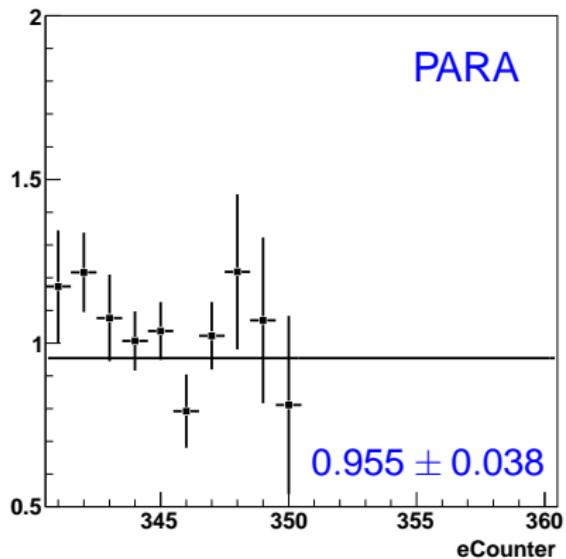
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$$\frac{\Sigma_{1300}}{\Sigma_{1500}}$$

PARA
AMO

$$\frac{\Sigma_{1300}}{\Sigma_{1500}}$$

PERP
AMO



Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ **

1.3 / 1.5

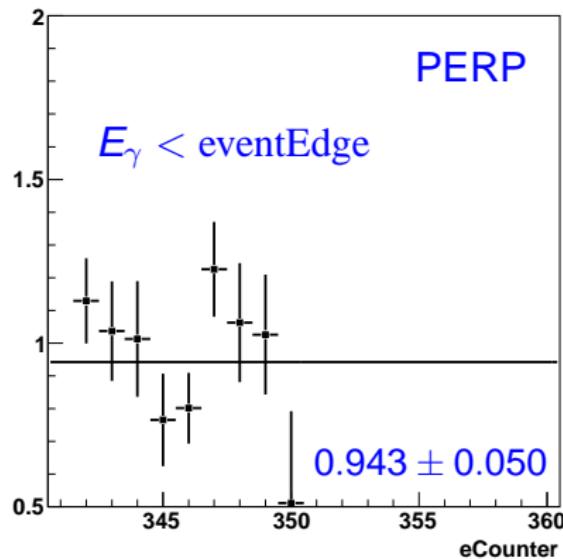
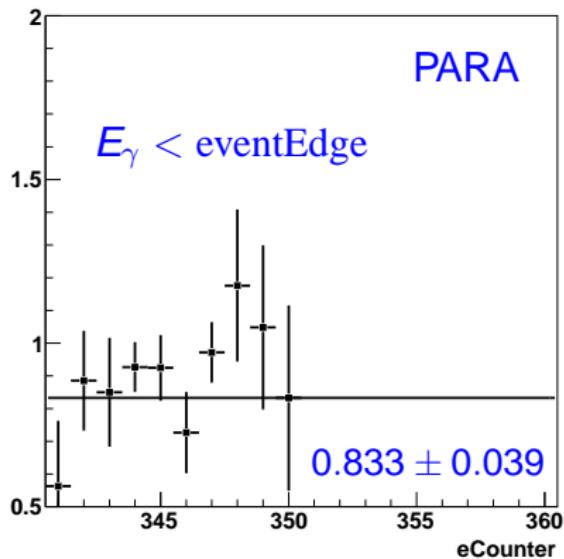
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$\Sigma_{1300} / \Sigma_{1500}$

PARA
AMO

$\Sigma_{1300} / \Sigma_{1500}$

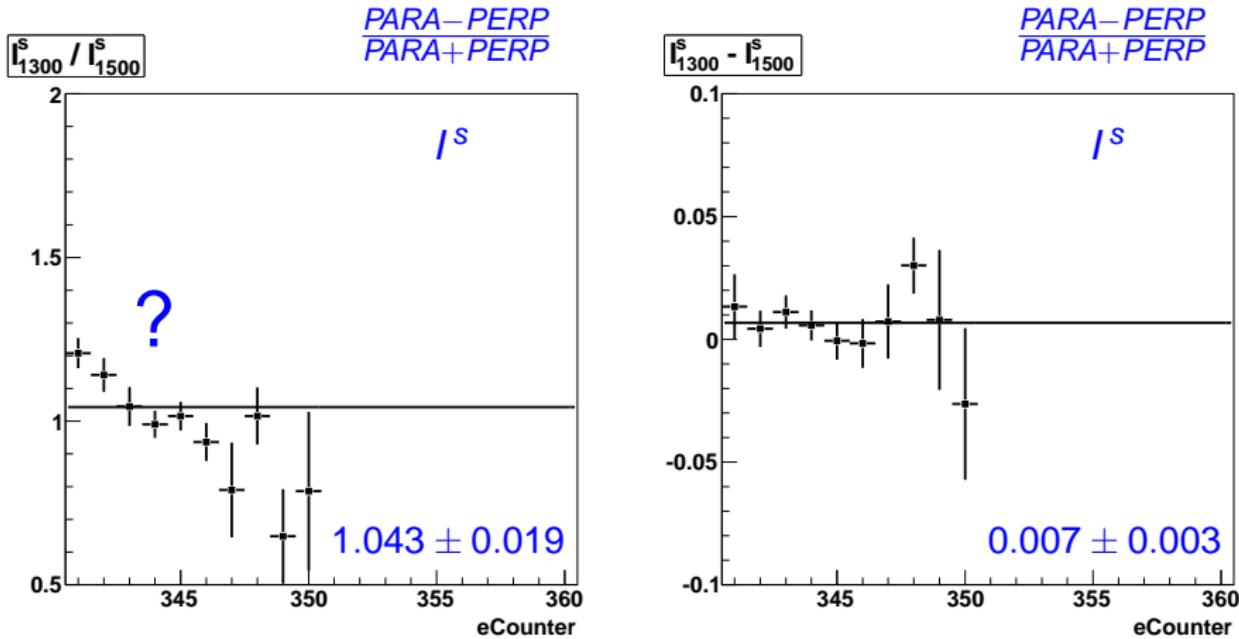
PERP
AMO



Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.3 / 1.5

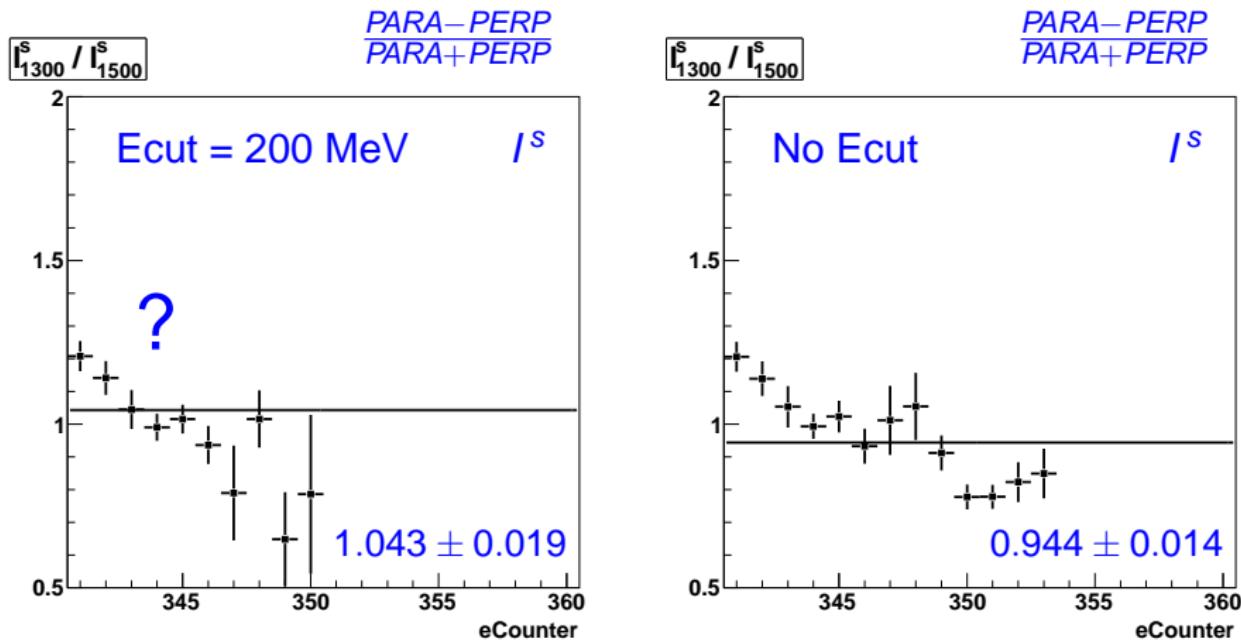
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ *

1.3 / 1.5

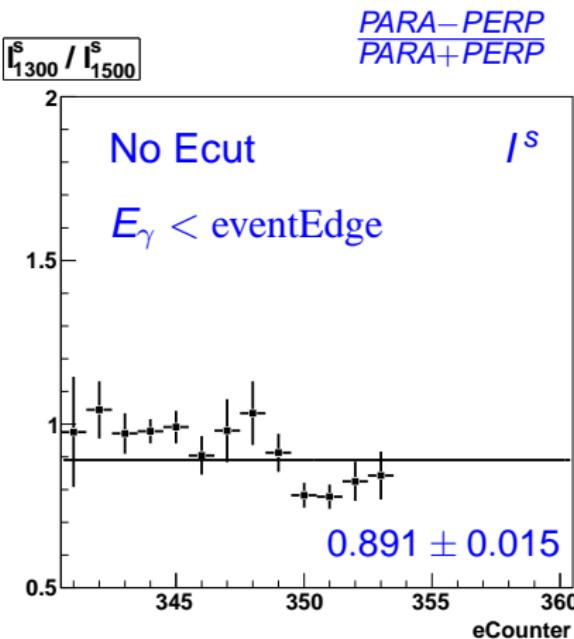
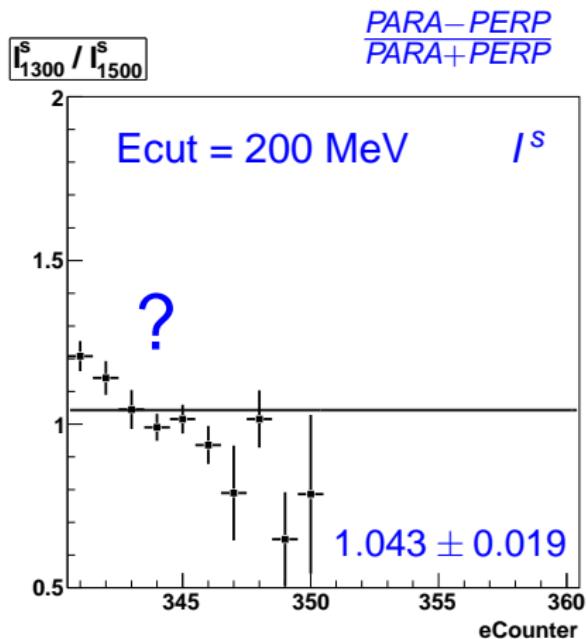
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ *

1.3 / 1.5

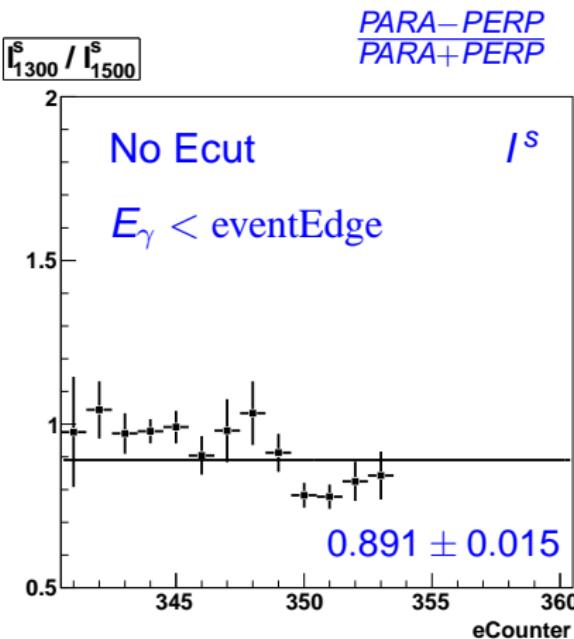
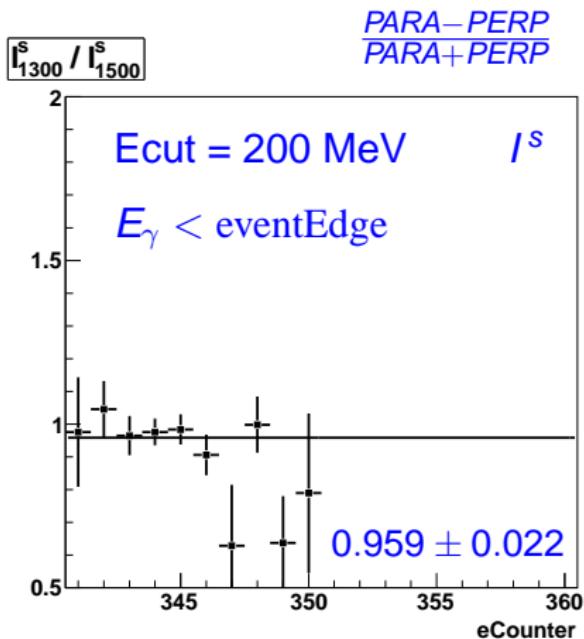
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ **

1.3 / 1.5

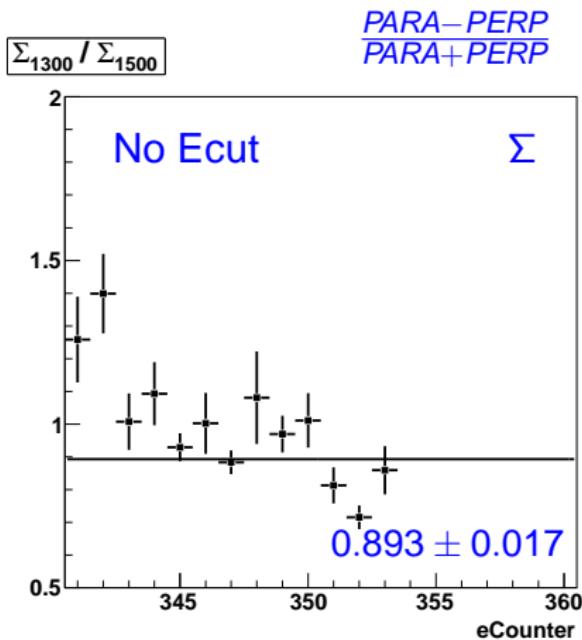
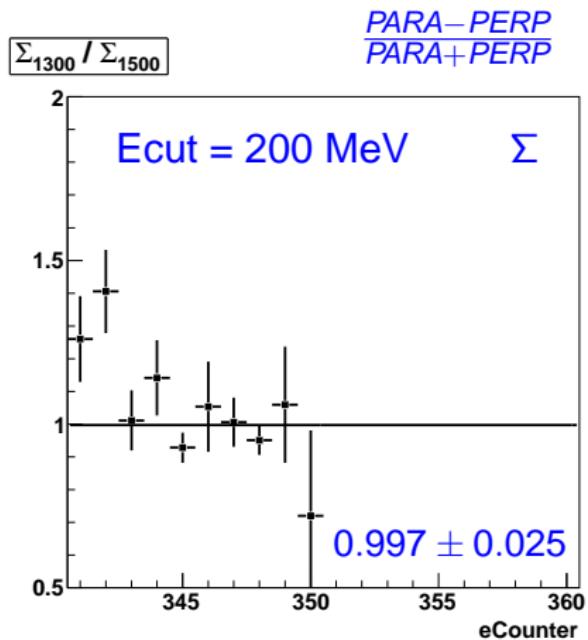
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Study of Overlap Regions using $\gamma p \rightarrow p\pi^+\pi^-$ *

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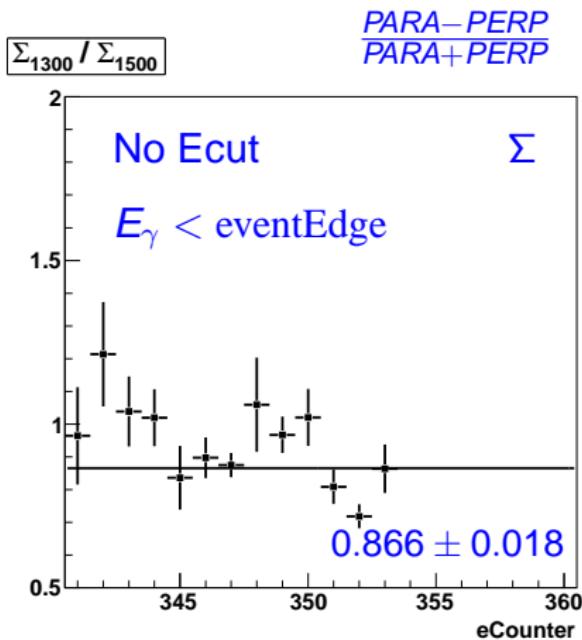
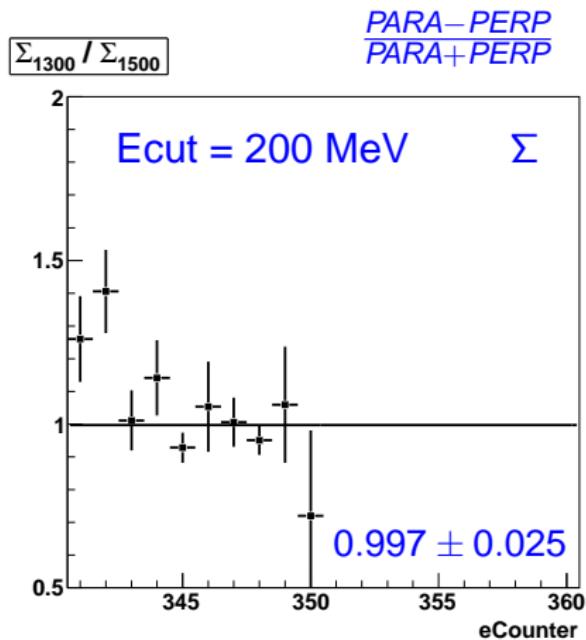
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Study of Overlap Regions using $\gamma p \rightarrow p\pi^+\pi^-$ *

1.3 / 1.5

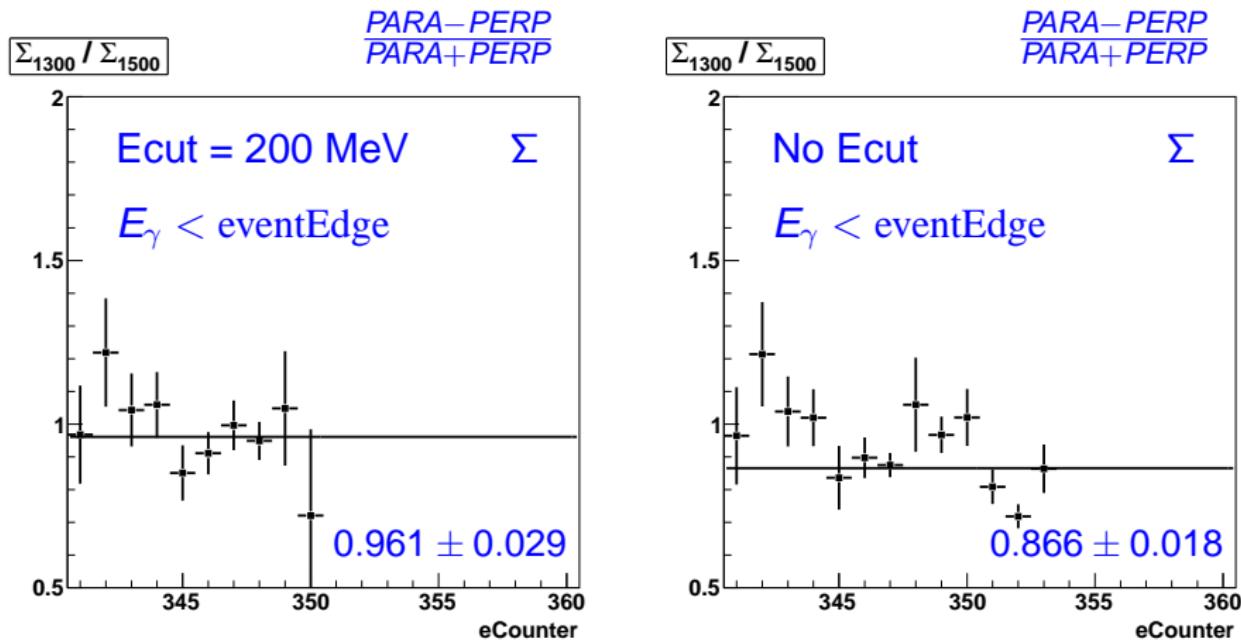
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$ **

1.3 / 1.5

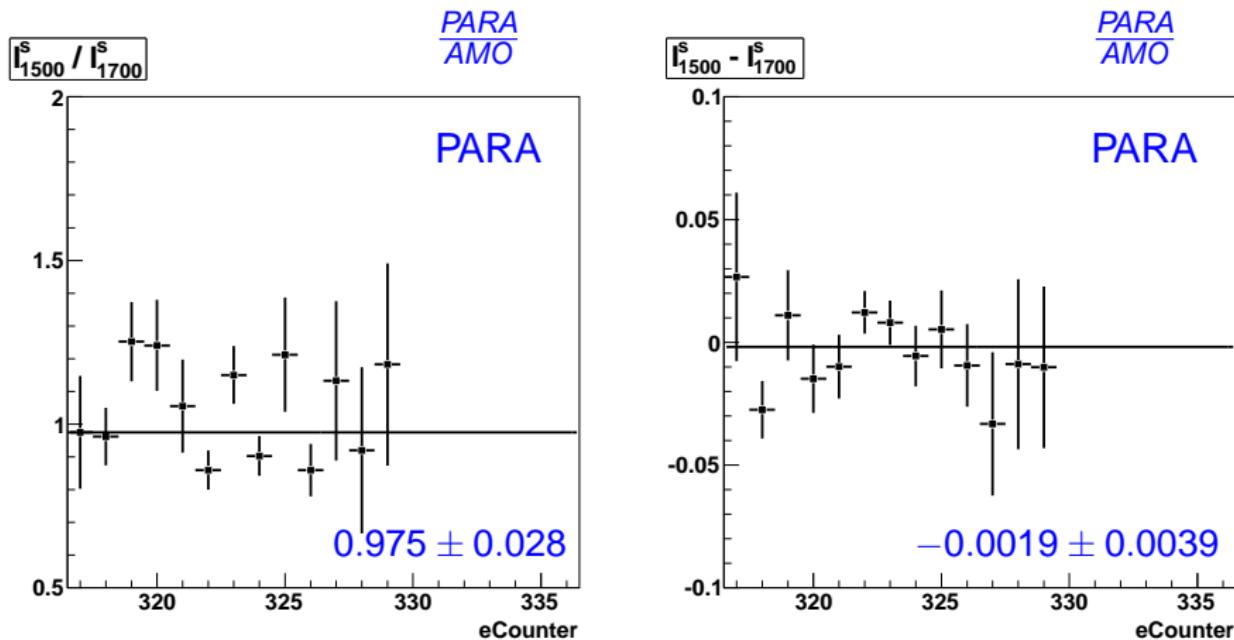
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.5 / 1.7

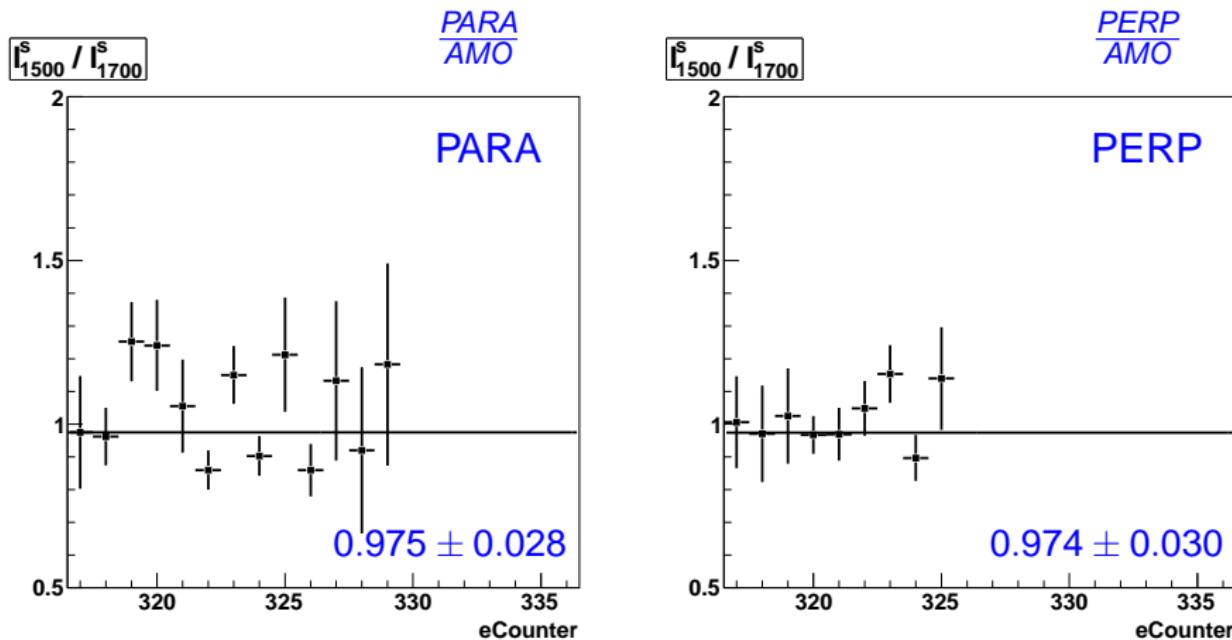
$$I = I_0 (1 + \delta_I (\sin 2\beta \cdot I^s + \cos 2\beta \cdot \Sigma))$$



Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.5 / 1.7

$$I = I_0 (1 + \delta_I (\sin 2\beta \cdot I^s + \cos 2\beta \cdot \Sigma))$$



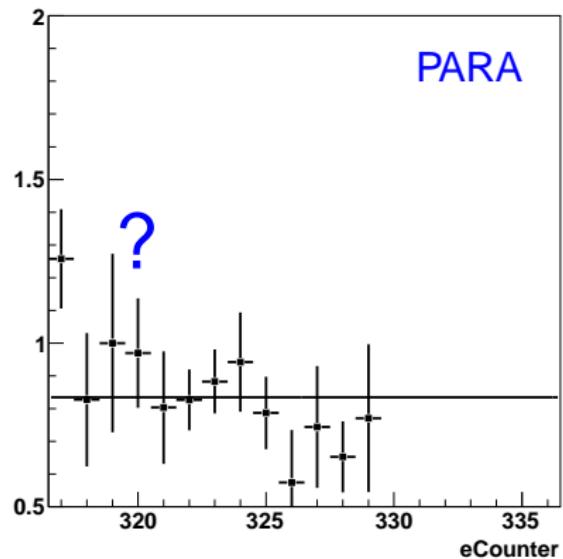
Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.5 / 1.7

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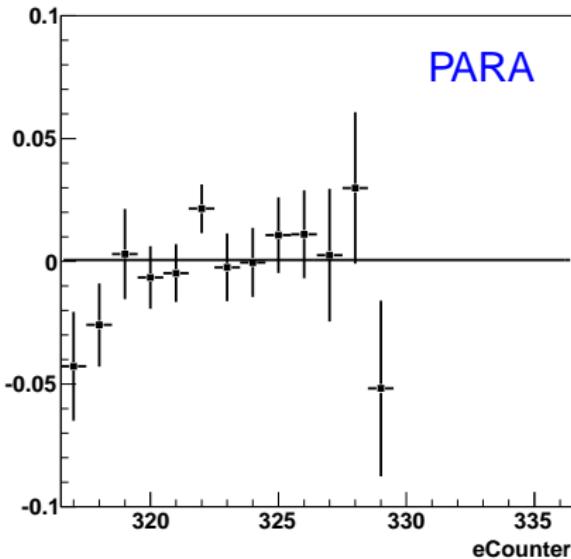
$$\frac{\Sigma_{1500}}{\Sigma_{1700}}$$

PARA
AMO



$$\frac{\Sigma_{1500} - \Sigma_{1700}}{\Sigma_{1700}}$$

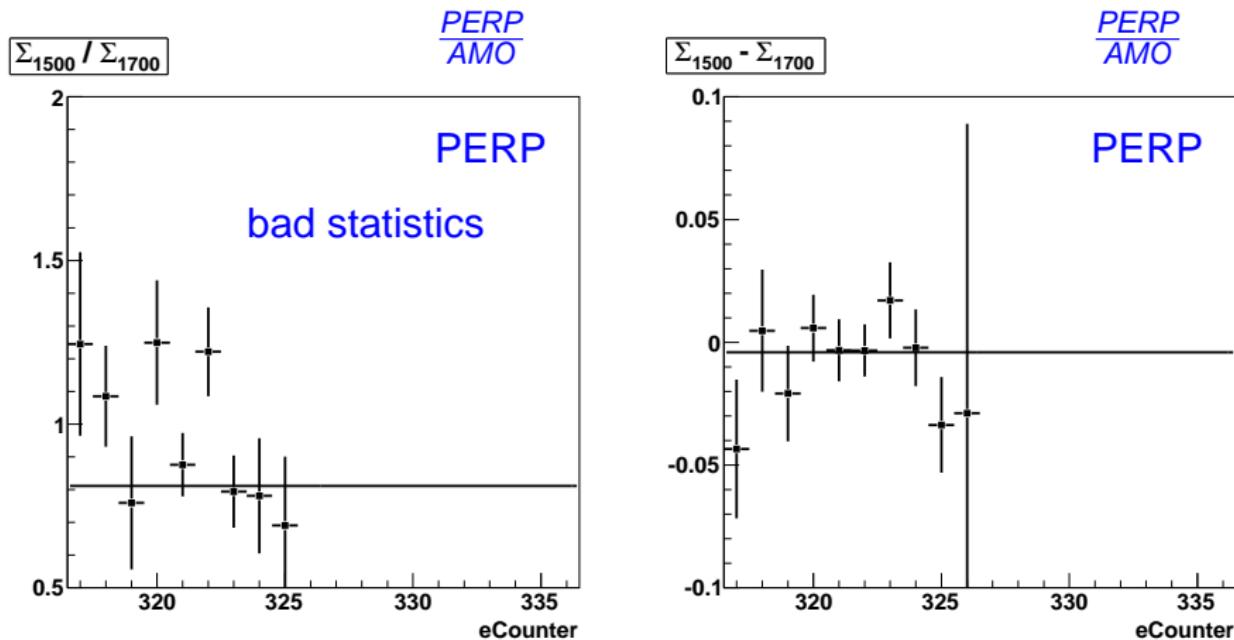
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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.5 / 1.7

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Study of Overlap Regions using $\gamma p \rightarrow p \pi^+ \pi^-$

1.5 / 1.7

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