

ReneSANCe Studies

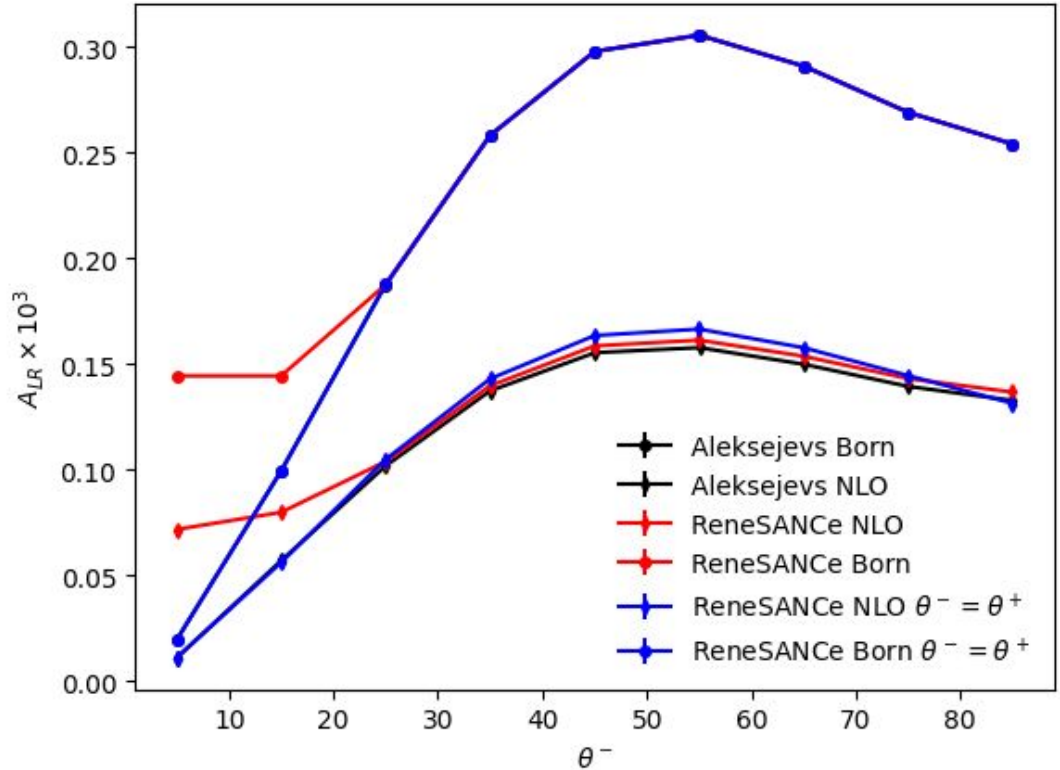
Caleb Miller

ALR Integrated

$\cos\theta^-$ integrated
from $-\cos\theta$ to $\cos\theta$

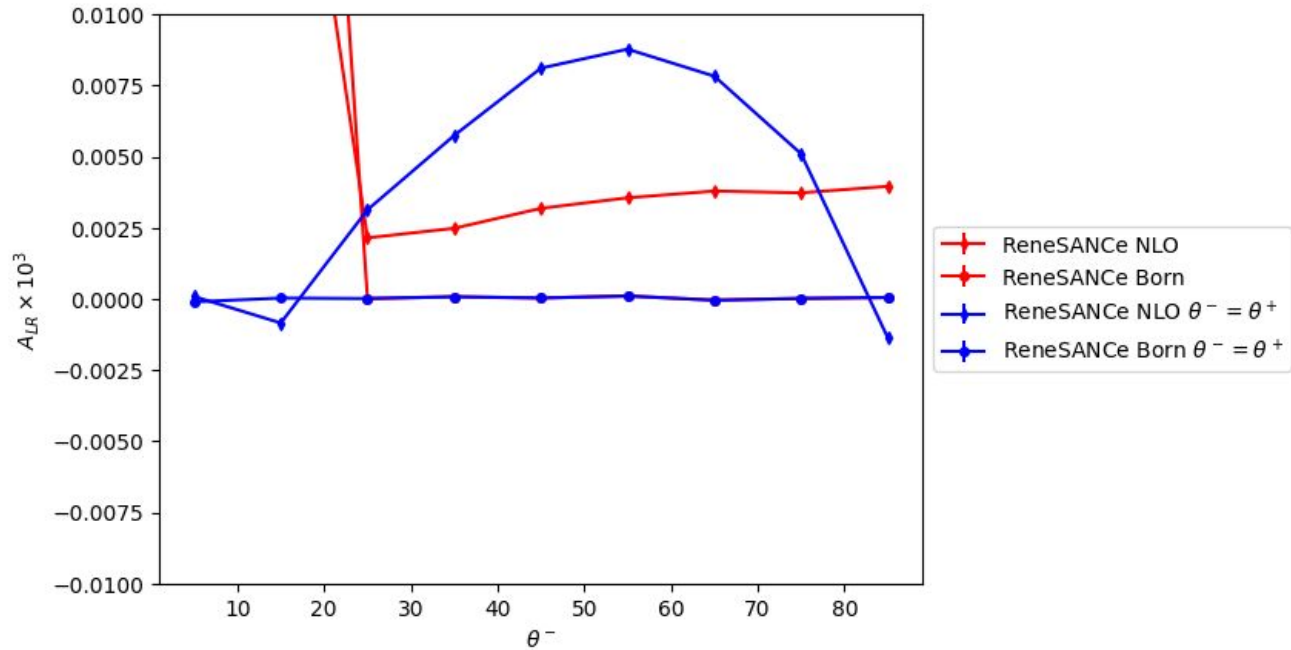
$\cos\theta^+$ constrained to
 $<|\cos(20^\circ)|$ (red)

$\cos\theta^+$ constrained to
 $-\cos\theta$ to $\cos\theta$ (blue)



ALR Integrated

Differences between ReneSANCe and Aleksejevs et al.

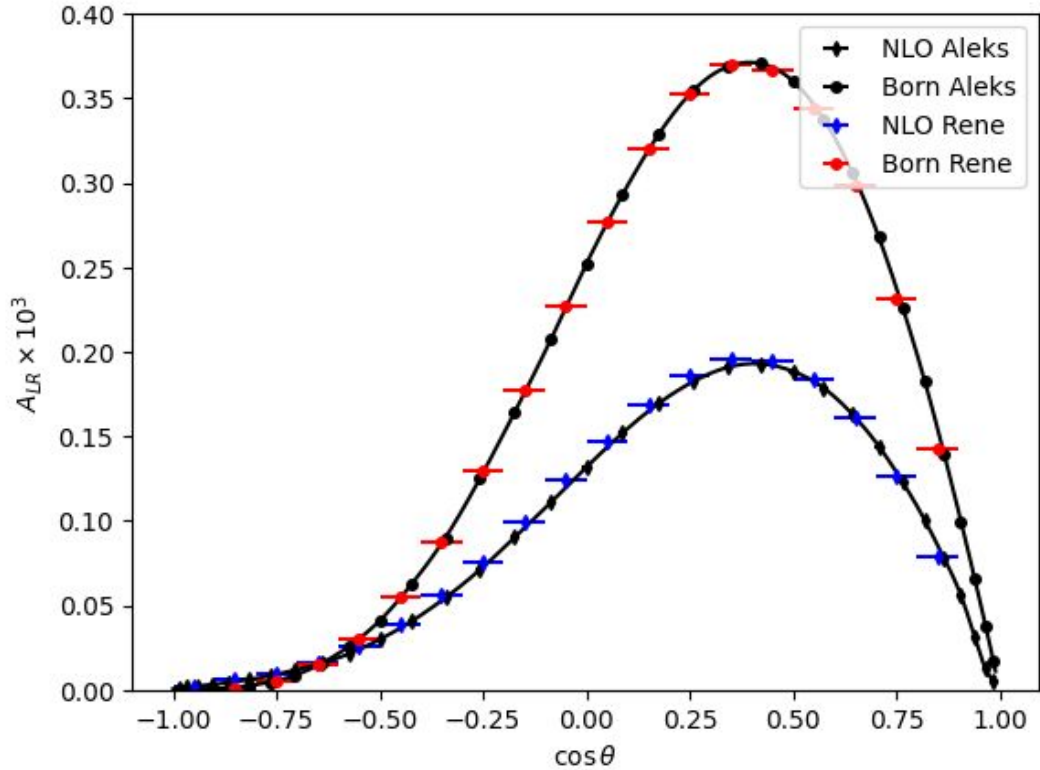


ALR windows

ALR integrated in
bins of $0.1 \cos\theta$

$\cos\theta^+$ constrained to
 $< |\cos(20^\circ)|$

Black points
extracted from
Aleksjevs et al.



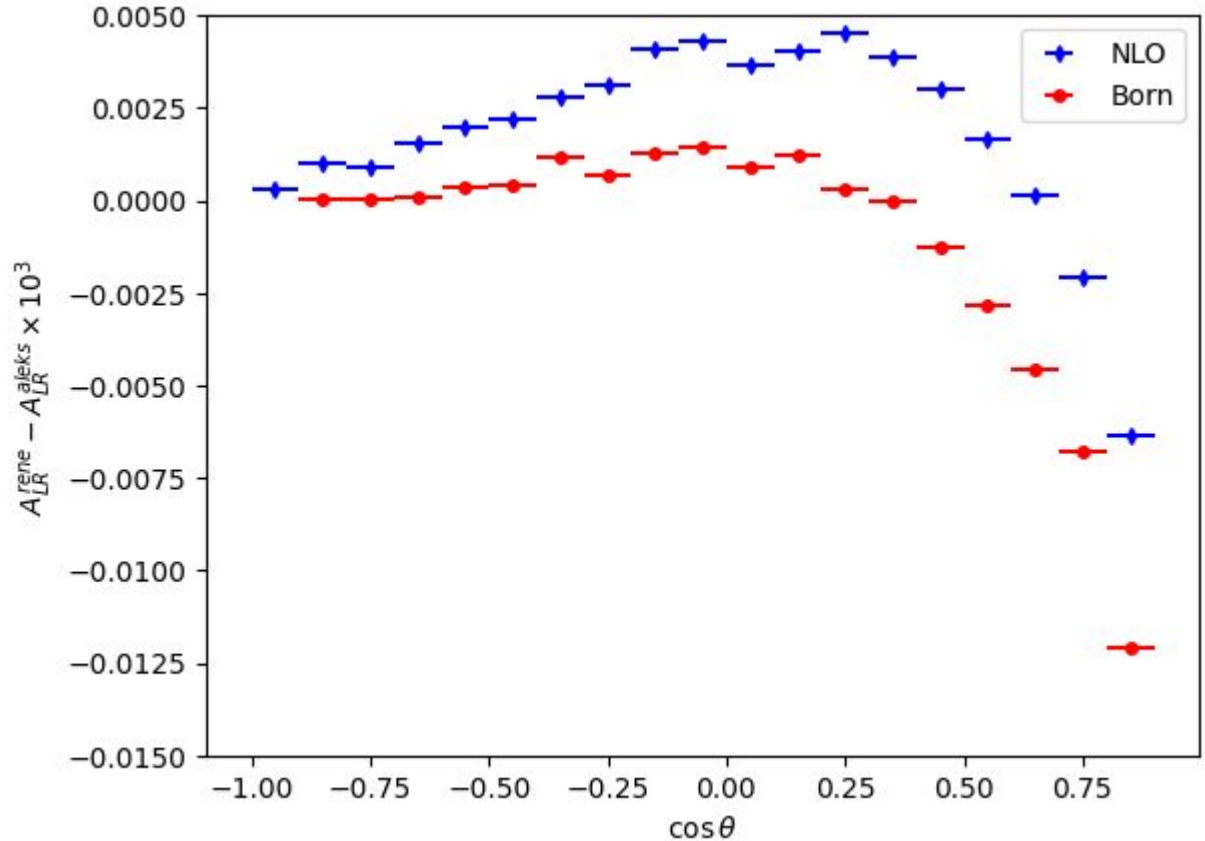
ALR Windows

Differences between
ReneSANCe and
Aleksejevs et al

ReneSANCe errors are
 $O(10^{-7})$

Aleksejevs don't suggest
a level of uncertainty

My method of extracting
likely accounts for
unsmooth features,
larger structure a real
effect (binning or theory)



Next steps

- Need to confirm uncertainty on Aleksejevs et al. results
- Calculate $\sin^2\theta_W$ sensitivity using the binned approach