

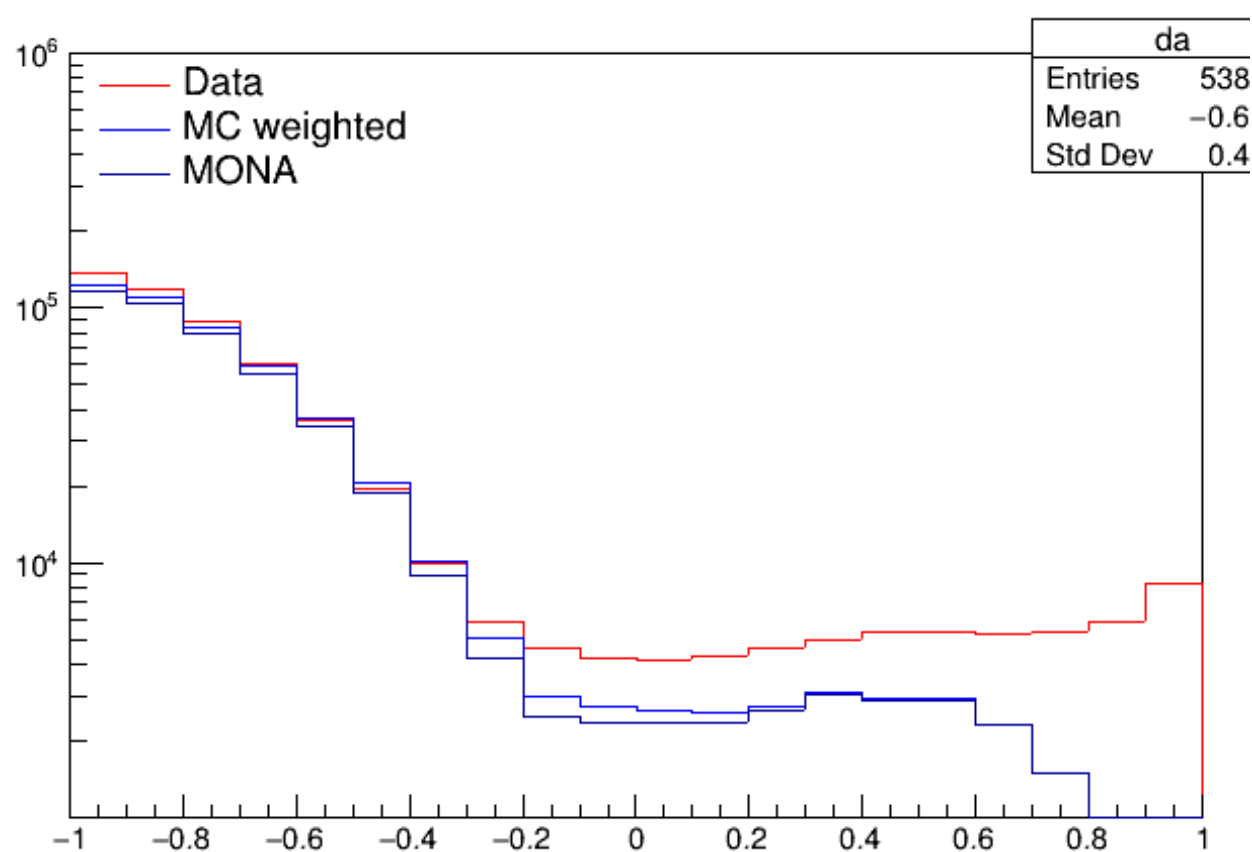
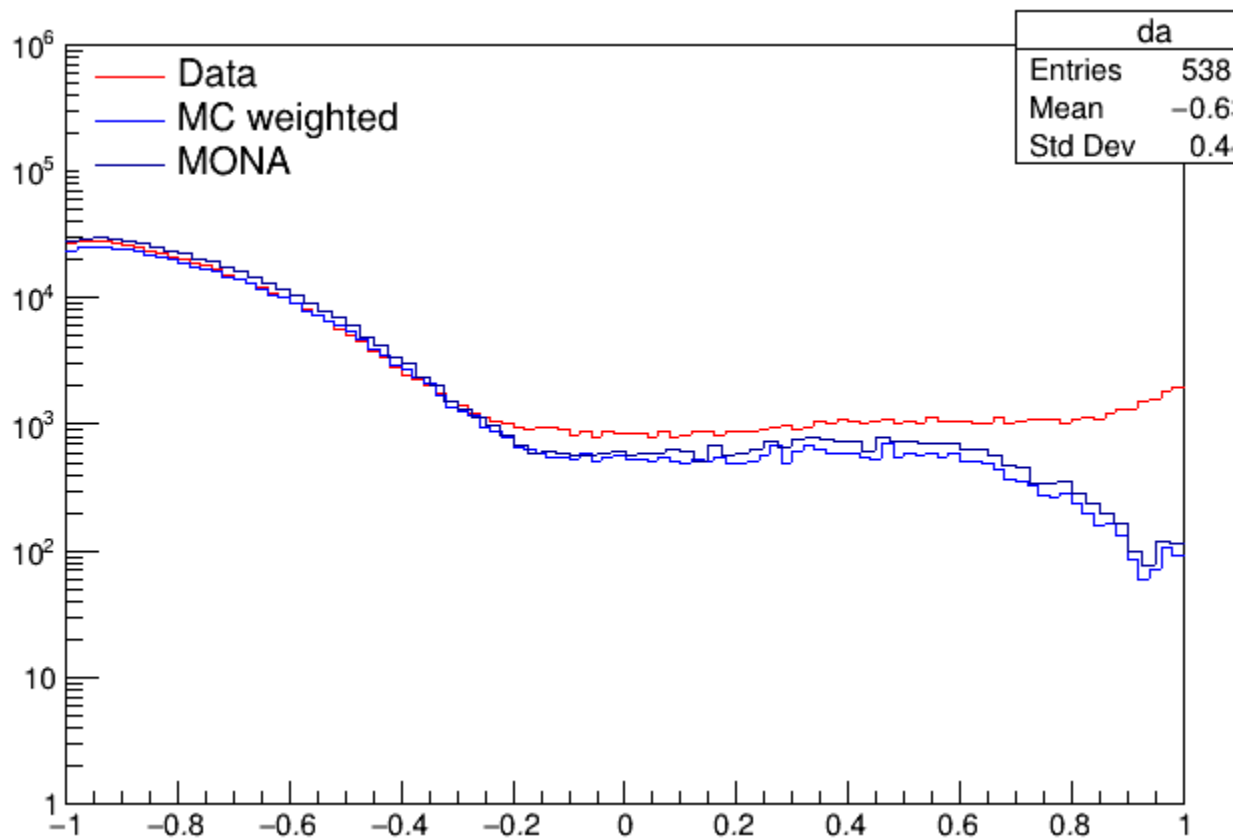
ORCA meeting

Lodewijk Nauta

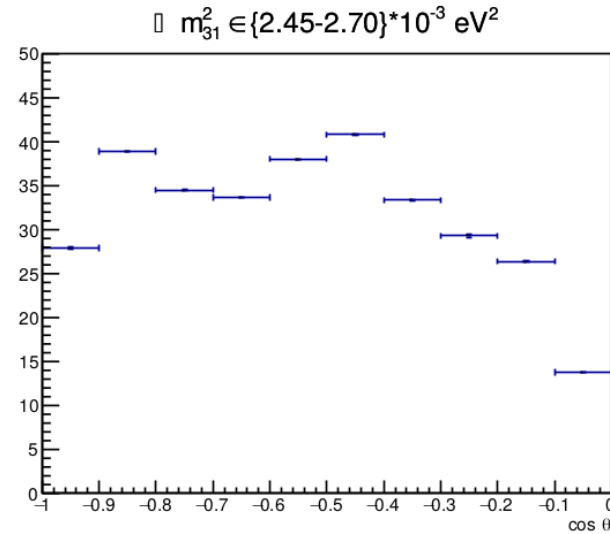
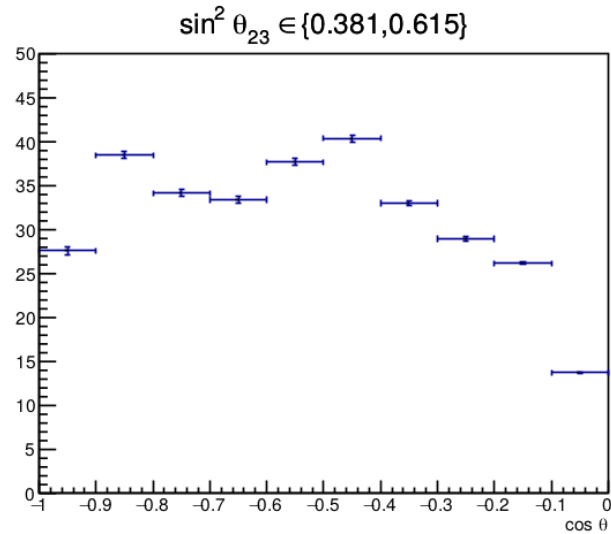
2020-09-25

Binning matters!

MC weighted = filling a histogram with GSG weights

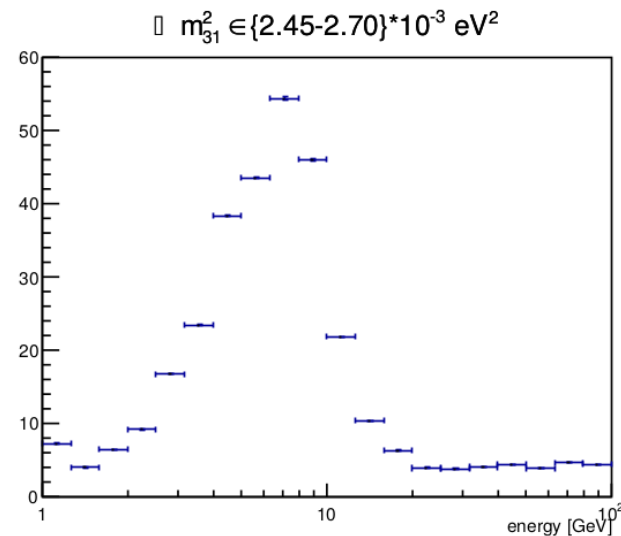
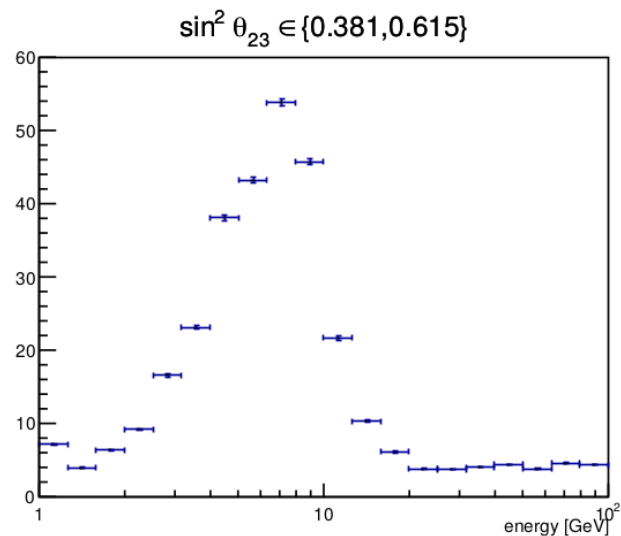


Extrema of expectation values with MONA when changing osc. params



Traverse the parameters and find the maximum/minimum values for every bin: error bar is shows the max/min.

Differences due to Th23 are larger than due to Dm31.



Th23 max difference: 0.9

Th23 min difference: 0.07

Dm31 max difference: 0.4

Dm31 min difference: 0.03

LLR without fitting

H0 = No oscillation
H1 = Normal ordering

x0 = set of P.E. from H0
x1 = set of P.E. from H1

$p(H0) = 0.147$
 $p(H1) = 0.132$

