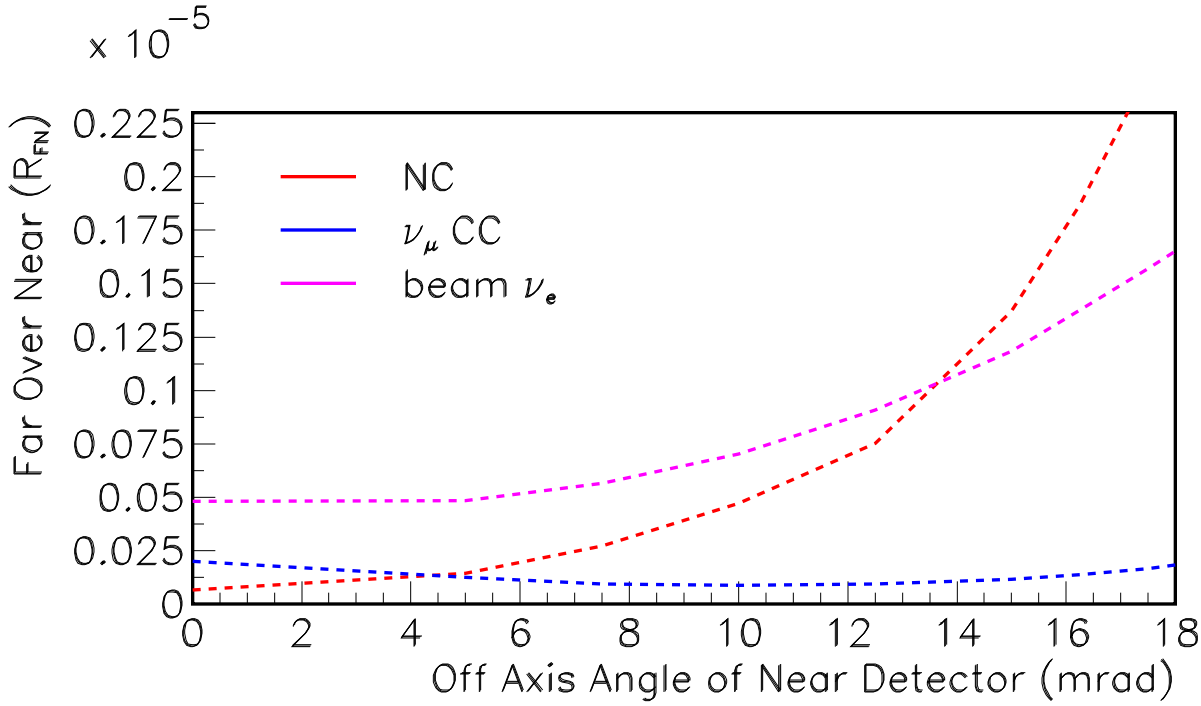
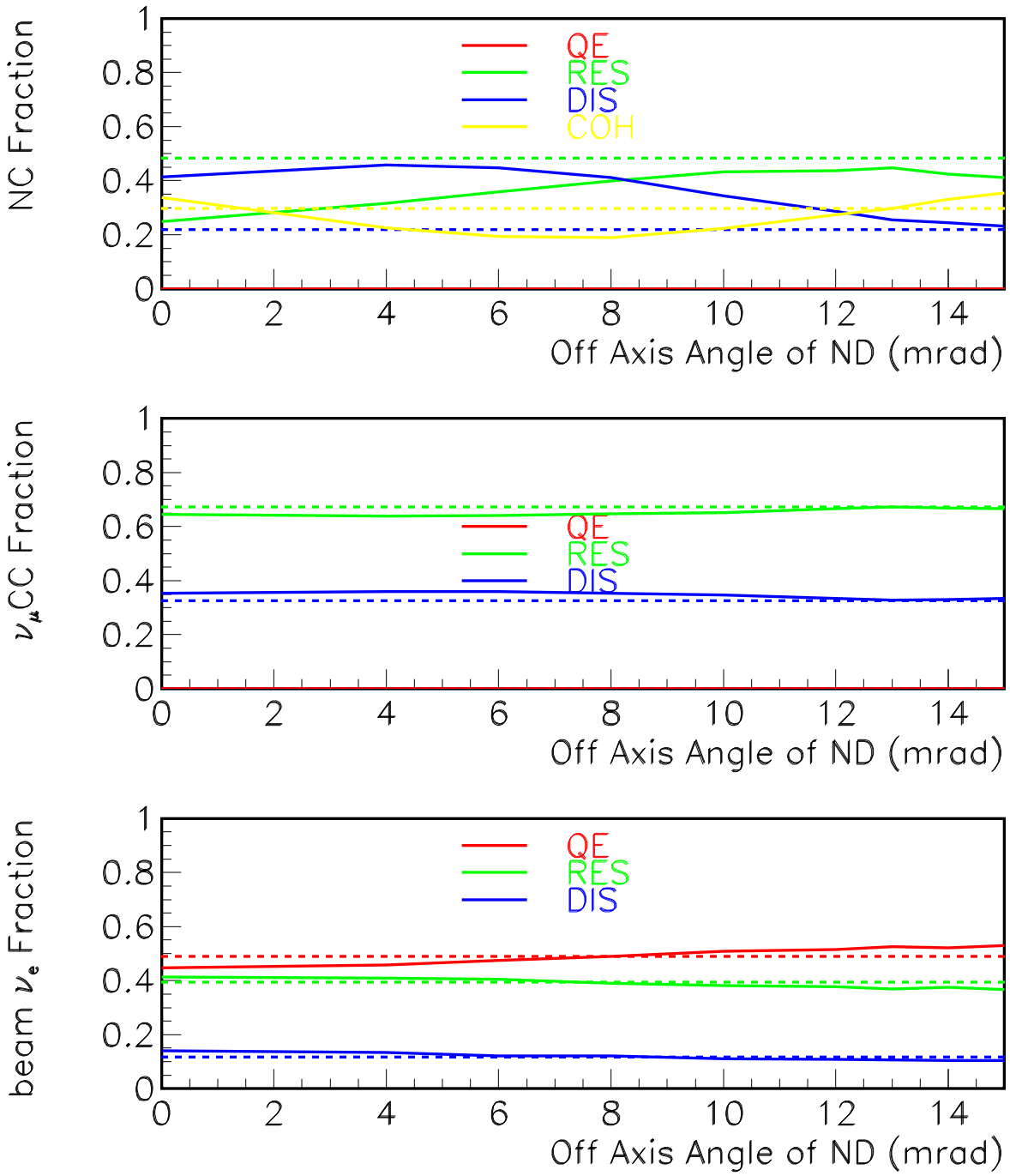
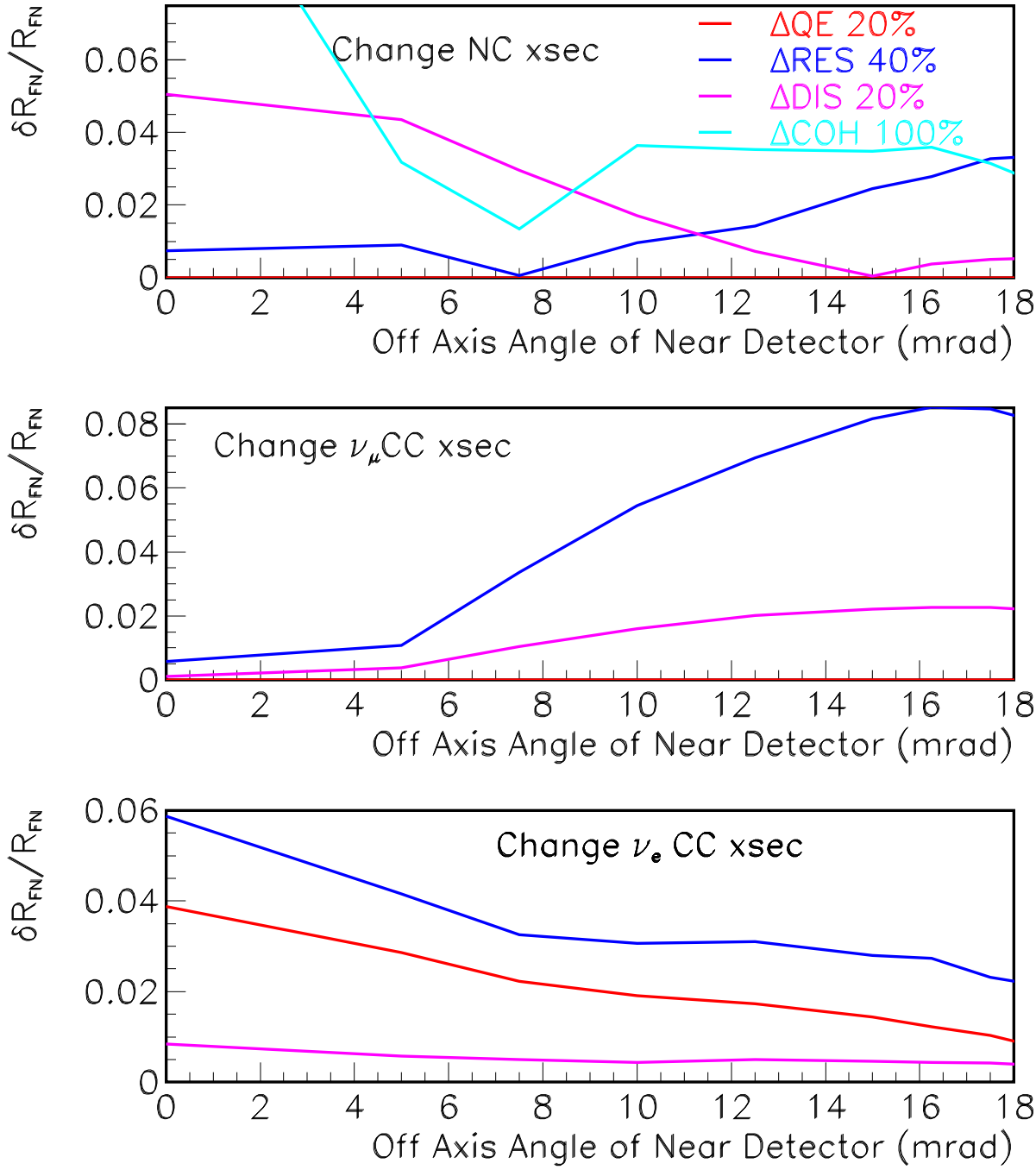
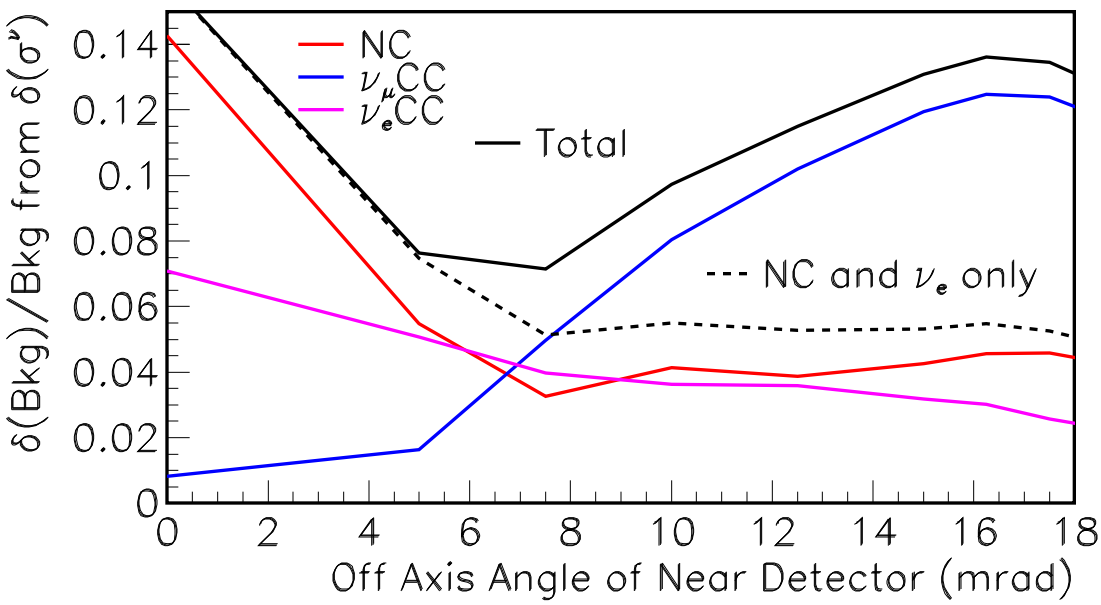
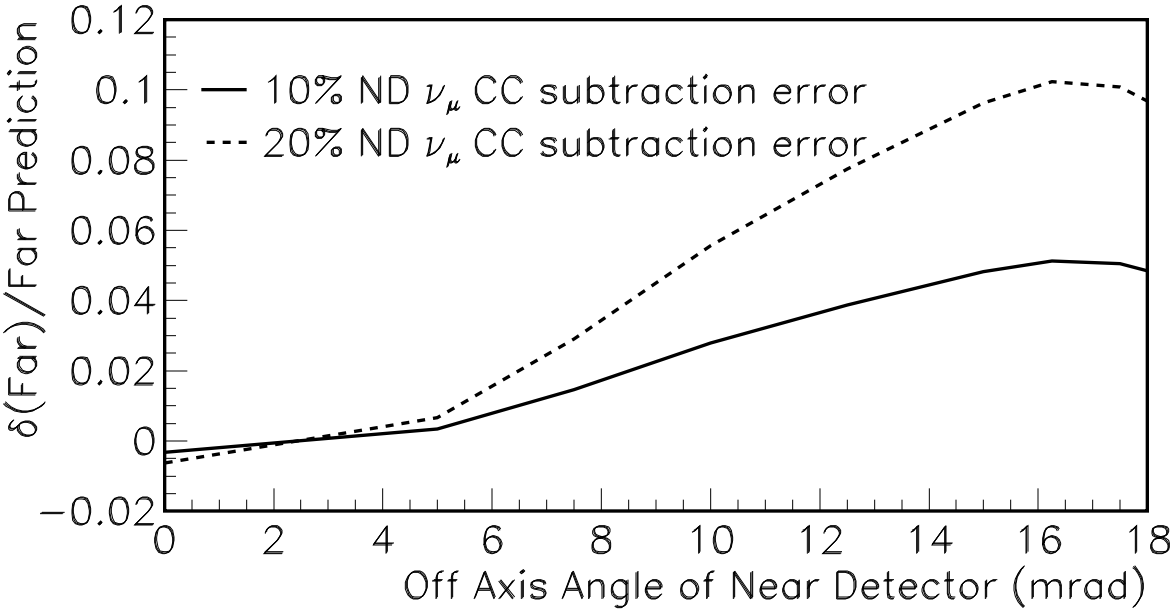

x 10^-5
Far Over Near (R_FN)
0.225
0.2
0.175
0.15
0.125
0.1
0.075
0.05
0.025
0
NC
ν_μ CC
beam ν_e
0
2
4
6
8
10
12
14
16
18
Off Axis Angle of Near Detector (mrad)


NC Fraction
QE
RES
DIS
COH
Off Axis Angle of ND (mrad)
ν_μCC Fraction
QE
RES
DIS
Off Axis Angle of ND (mrad)
beam ν_e Fraction
QE
RES
DIS
Off Axis Angle of ND (mrad)


Change NC xsec
ΔQE 20%
ΔRES 40%
ΔDIS 20%
ΔCOH 100%
δR_FN/R_FN
Off Axis Angle of Near Detector (mrad)
Change ν_μCC xsec
δR_FN/R_FN
Off Axis Angle of Near Detector (mrad)
Change ν_e CC xsec
δR_FN/R_FN
Off Axis Angle of Near Detector (mrad)


NC
ν_μCC
ν_eCC
Total
NC and ν_e only
δ(Bkg)/Bkg from δ(σ^ν)
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
2
4
6
8
10
12
14
16
18
Off Axis Angle of Near Detector (mrad)


0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
δ(Far)/Far Prediction
10% ND ν_μ CC subtraction error
20% ND ν_μ CC subtraction error
0
2
4
6
8
10
12
14
16
18
Off Axis Angle of Near Detector (mrad)