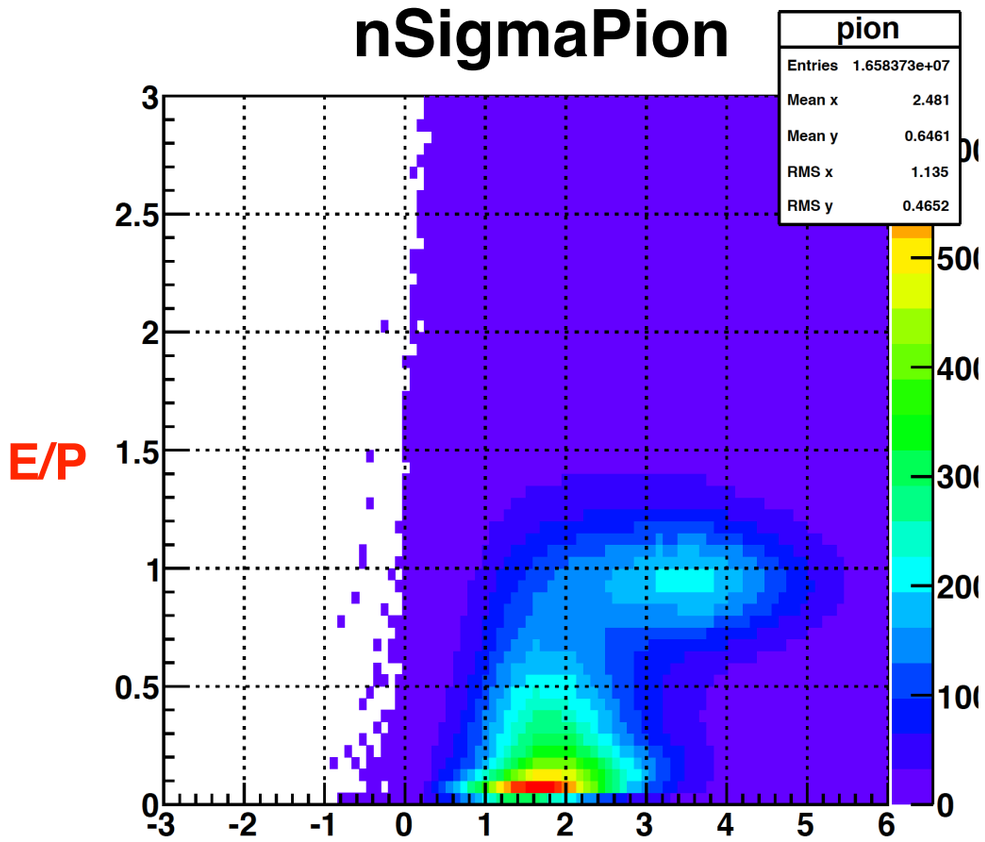
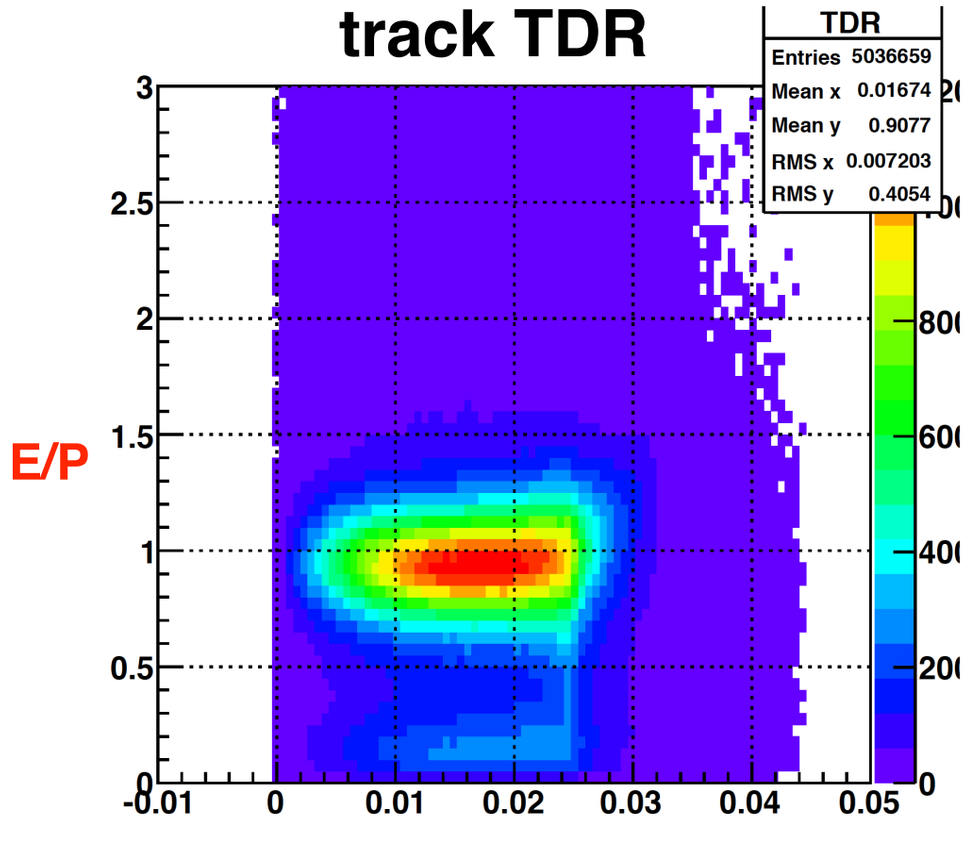
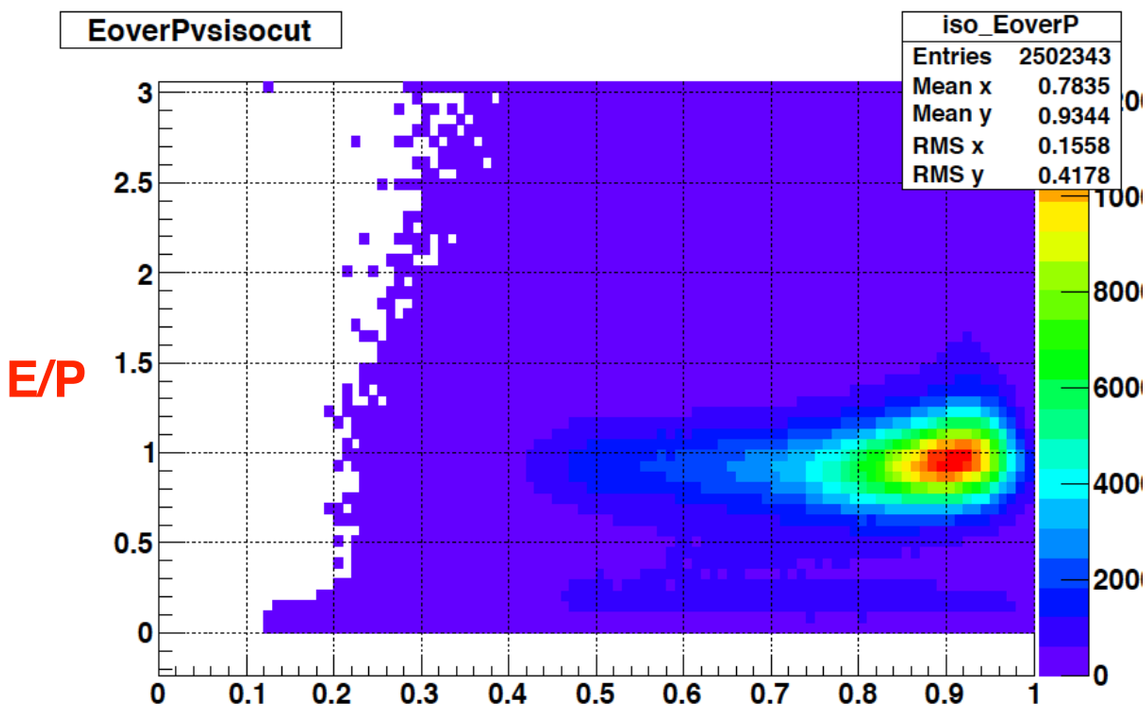
Systematic Studies

Main Cuts:





Isolation: tower energy / 3x3 cluster sum



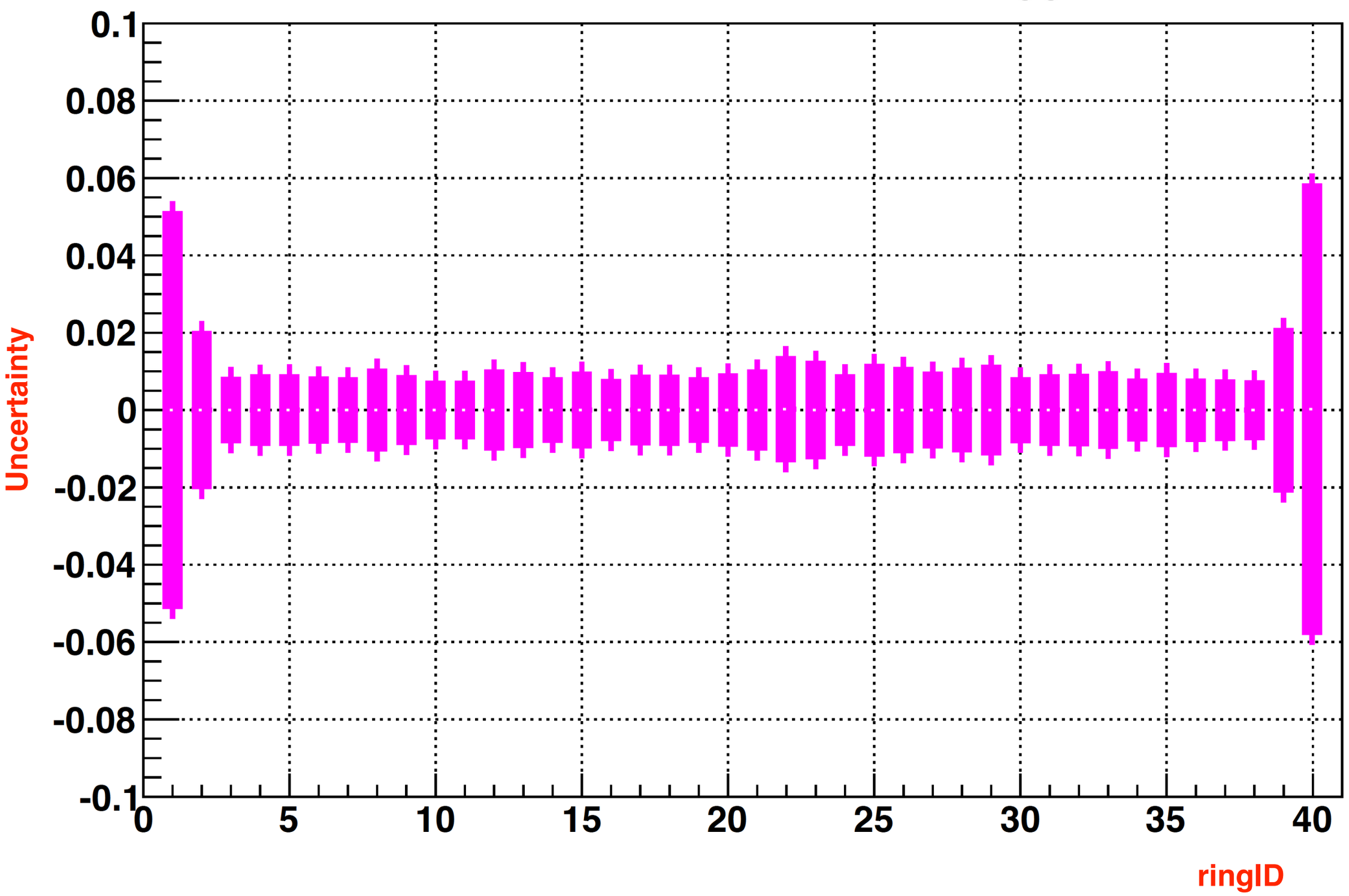
Systematic Studies

- Cut Set 1:

1) nsigmaPion, from 3.0 to4.0 with step 0.2, 6 points
2) momemtum low cut, from 1.5 to 2.0 with step 0.1, 6 points
3) tower Track Dr, from 0.018 to 0.022, with step 0.001, 5 points
4) isolation cuts, from 0.5 to 0.9, with step 0.1, 5 points

Run-13 period 1 -Systematic Uncertainty

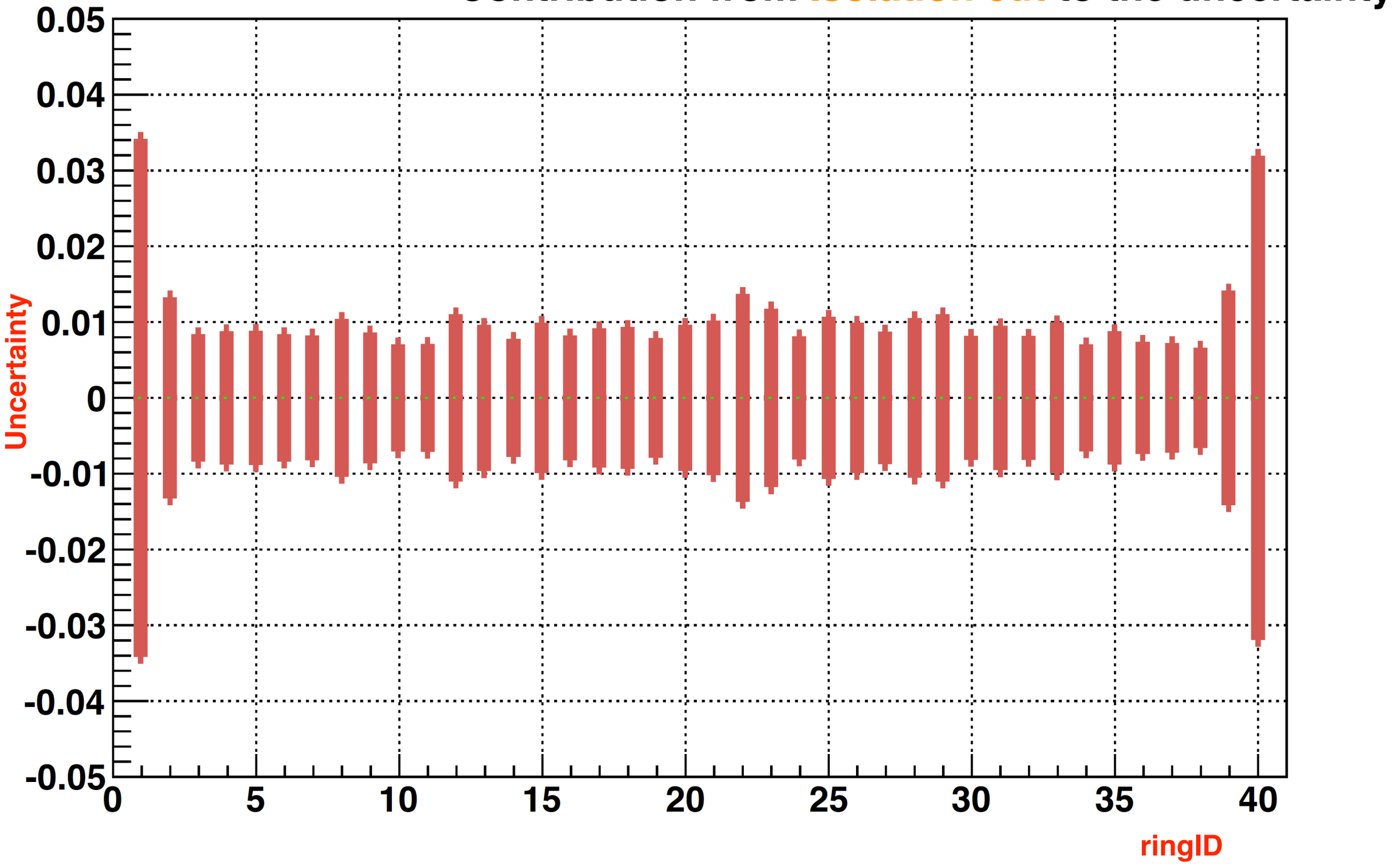
Uncertainty = ring RMS / ring Mean



Uncertainty = ring RMS / ring Mean

Isolation cut changed from 0.8 to 0.9

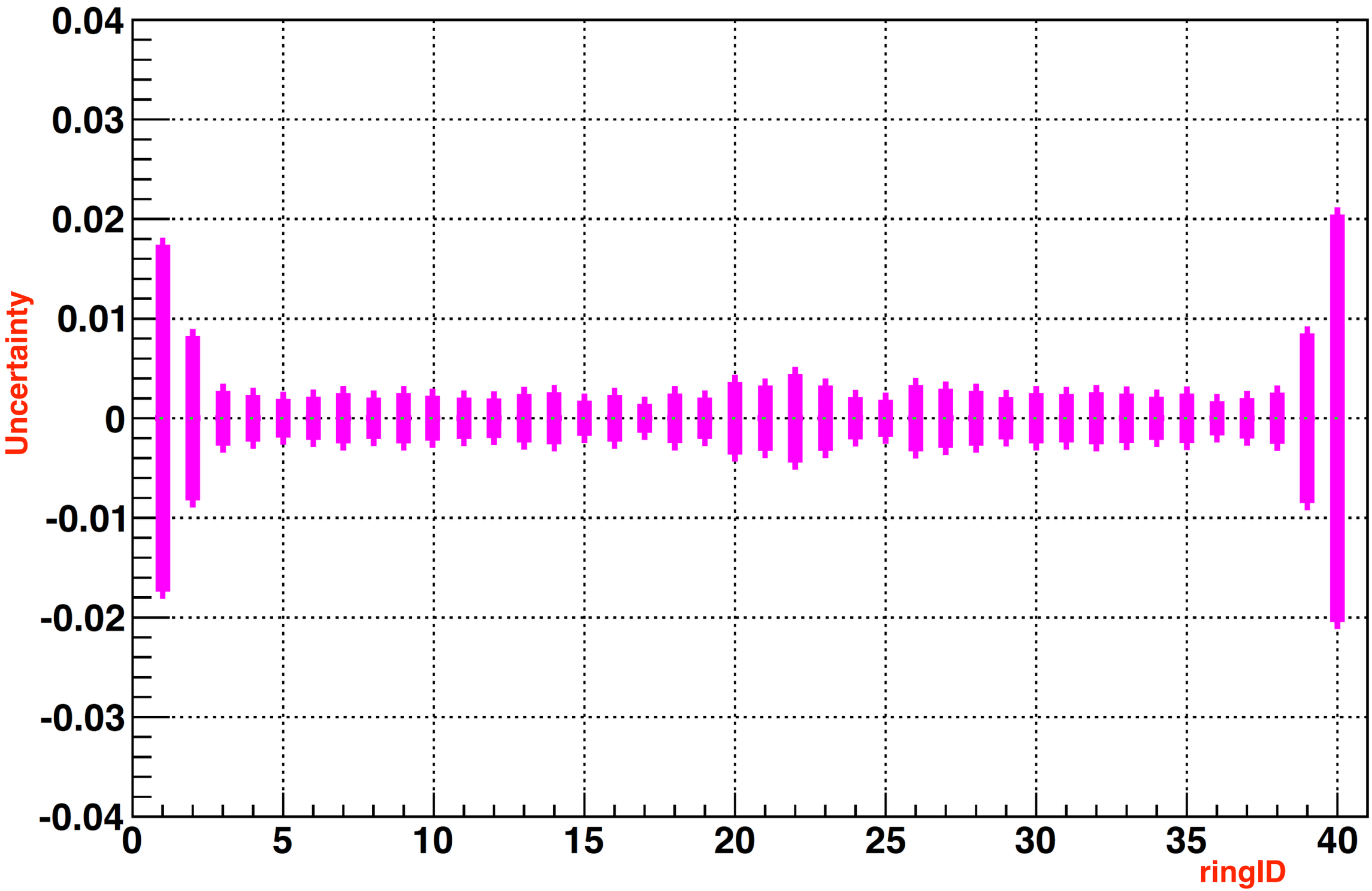
Contribution from Isolation cut to the uncertainty



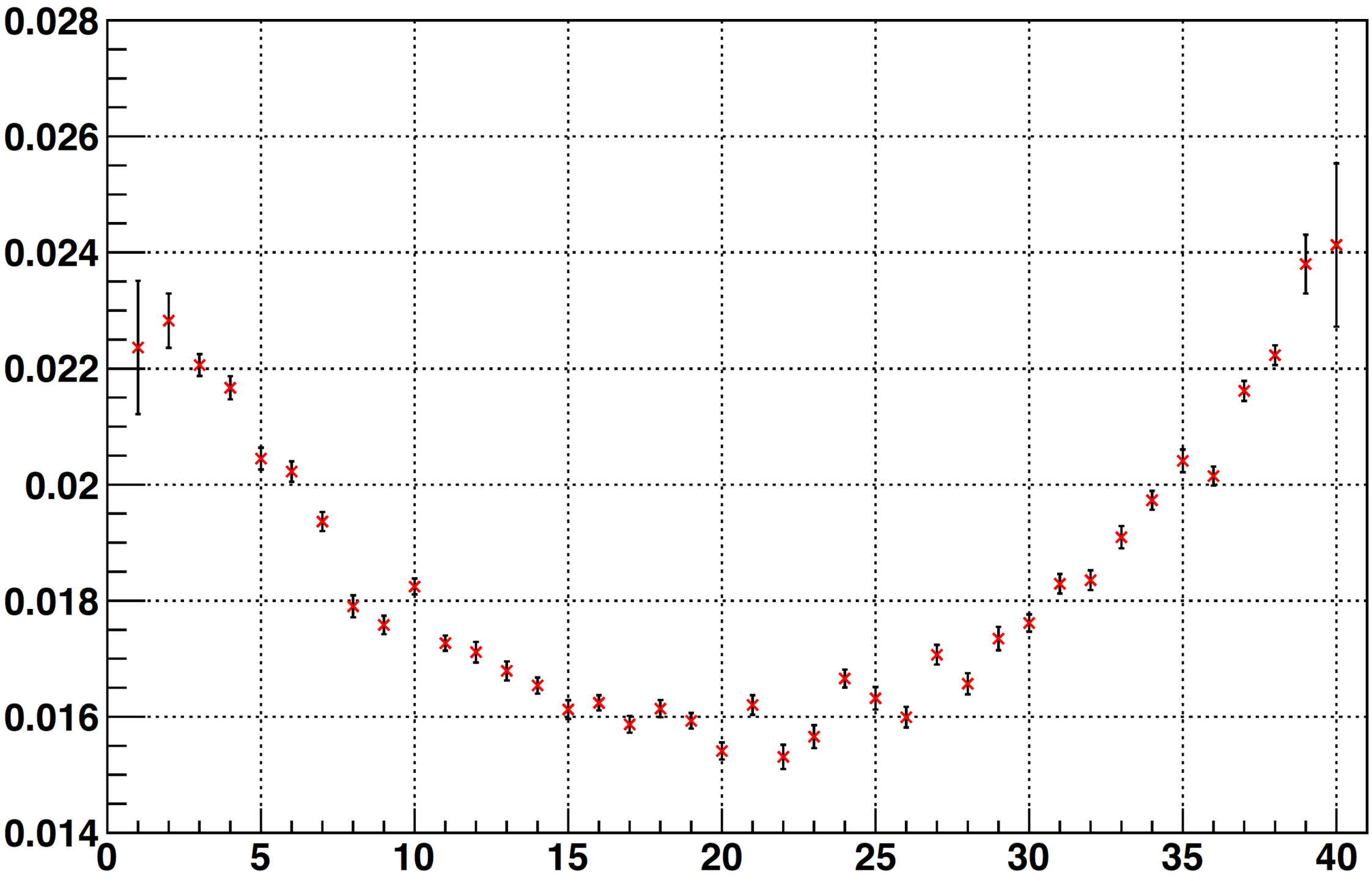
Uncertainty = ring RMS / ring Mean

Isolation cut changed from 0.5 to 0.6

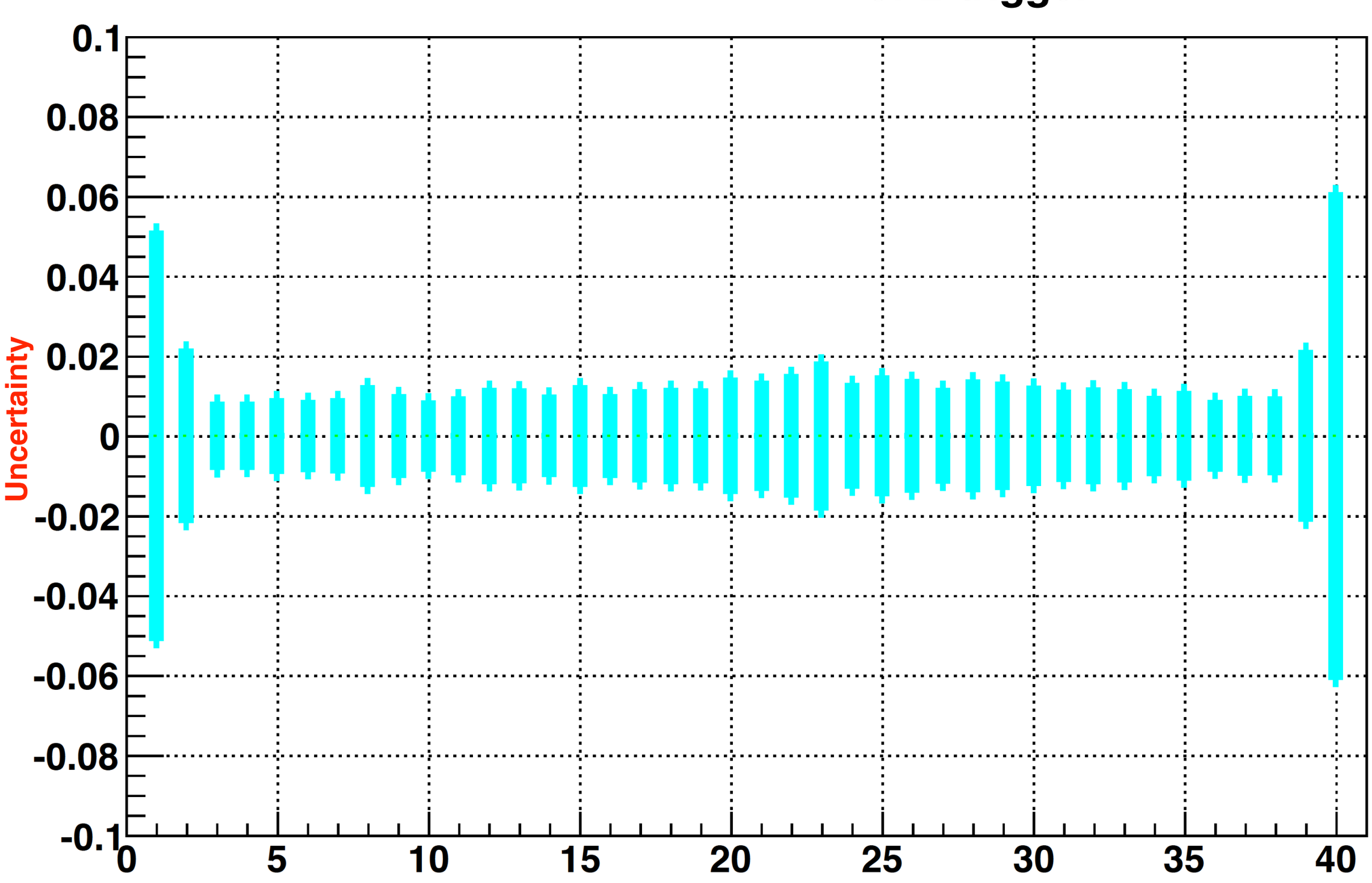
Contribution from Isolation cut to the uncertainty



Gain with central values and RMS - period1



Uncertainty = ring RMS / ring Mean

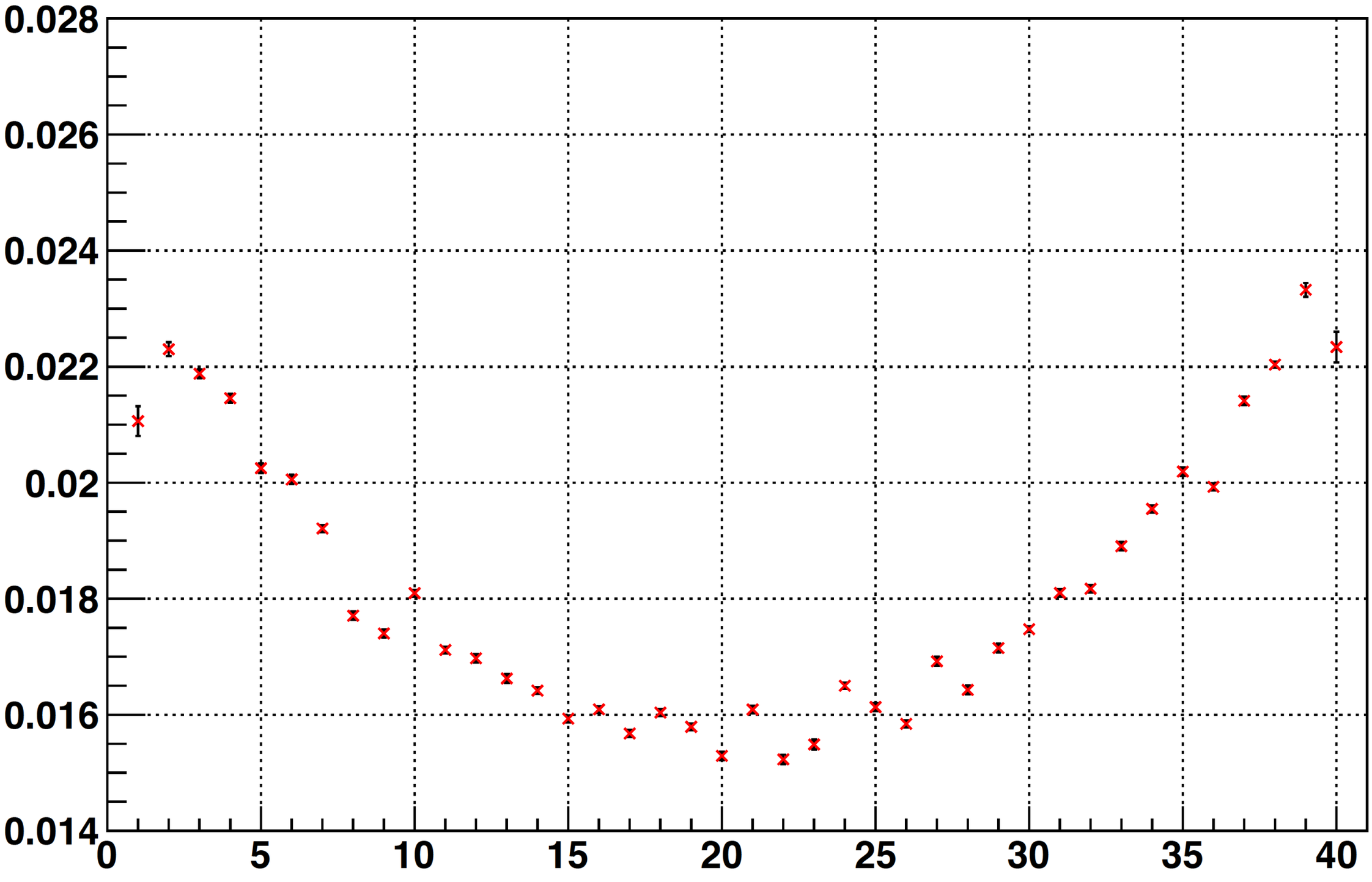


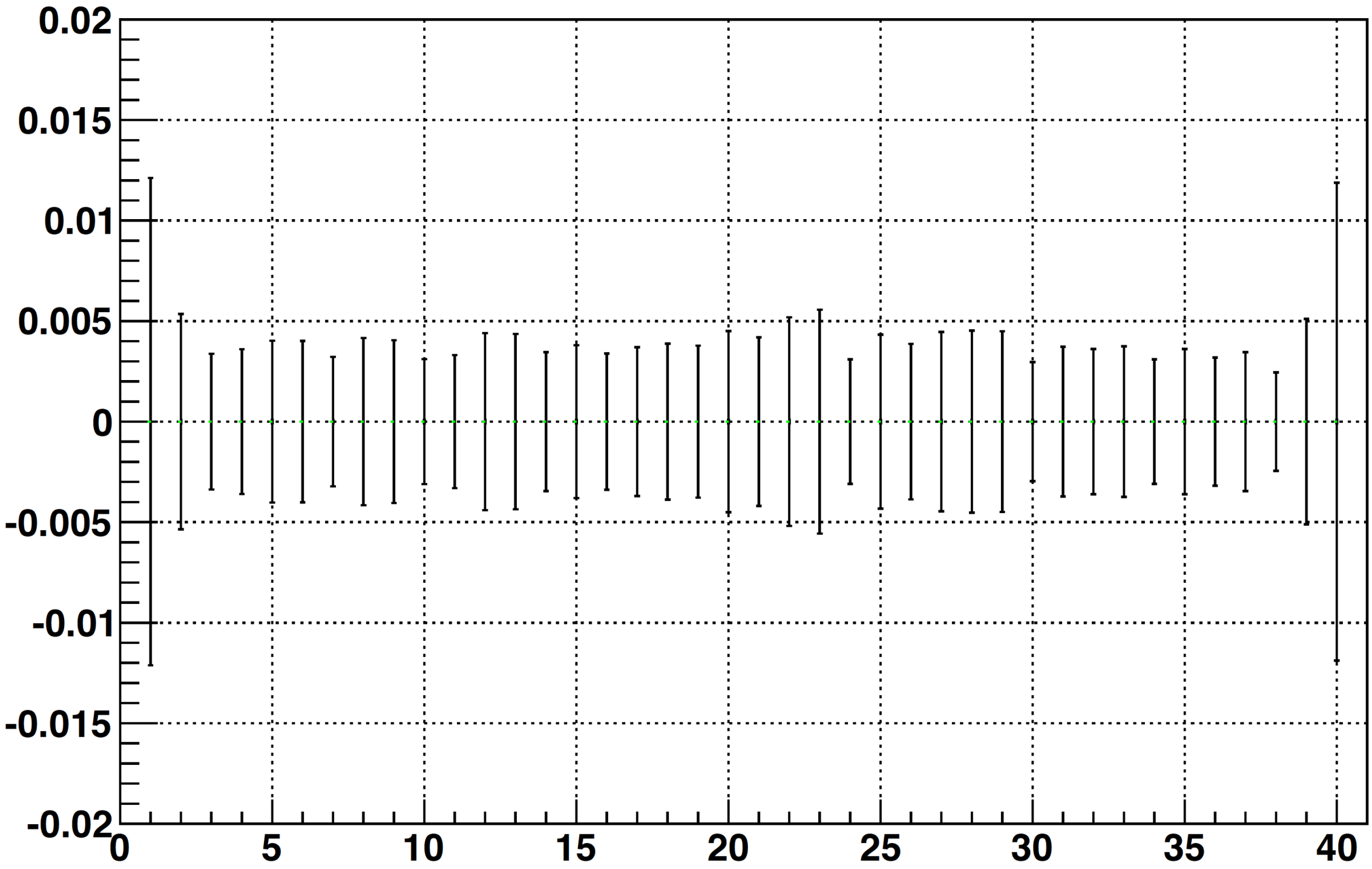
- Cut Set 2:

1) nsigmaPion, from 2.8 to 3.2 with step 0.1, 5 points
2) momemtum low cut, from 1.5 to 2.0 with step 0.1, 6 points
3) tower Track Dr, from 0.018 to 0.022, with step 0.001, 5 points
4) isolation cuts, from 0.85 to 0.9, with step 0.02, 3 points
5) electron cut from -1.0 to -1.5 , with step 0.2 , 3 points

Cut Set 2:

Gain with central values and RMS - period1 — new cut set



Uncertainty = ring RMS / ring Mean

Cut Set 2: