

Currently SNOMAN scales up the number of hit tubes for RSP in:

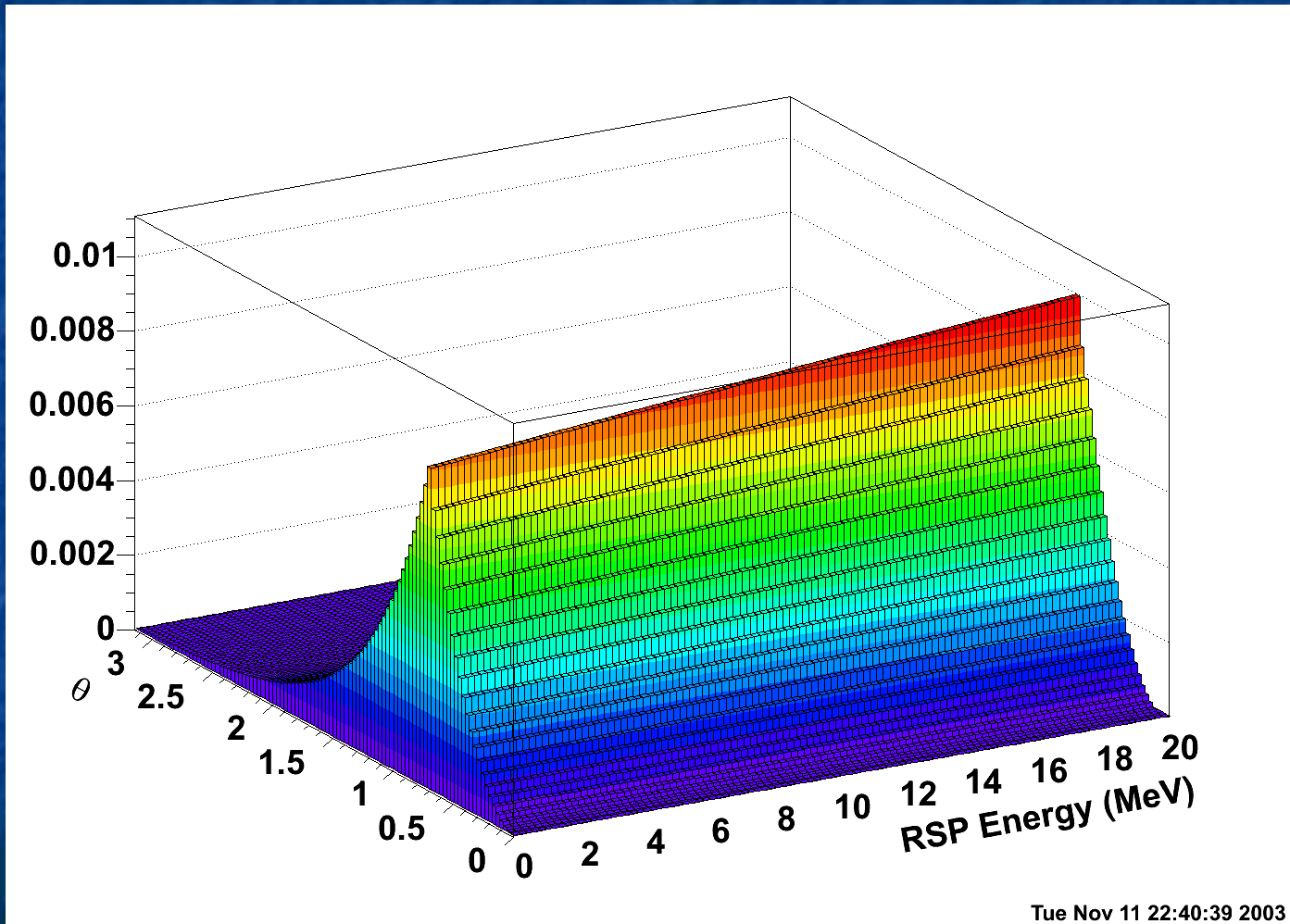
$$N_{eff} \rightarrow N_{eff} \frac{N_{all\ channels}}{N_{working}}$$

What is not accounted for is:

$$P_{ckv}(E_e) \frac{1}{r_{prime}^2} \hat{n} \cdot \vec{r}_{prime}$$

\mathcal{E}

$$P_{ckv}(E_e) =$$



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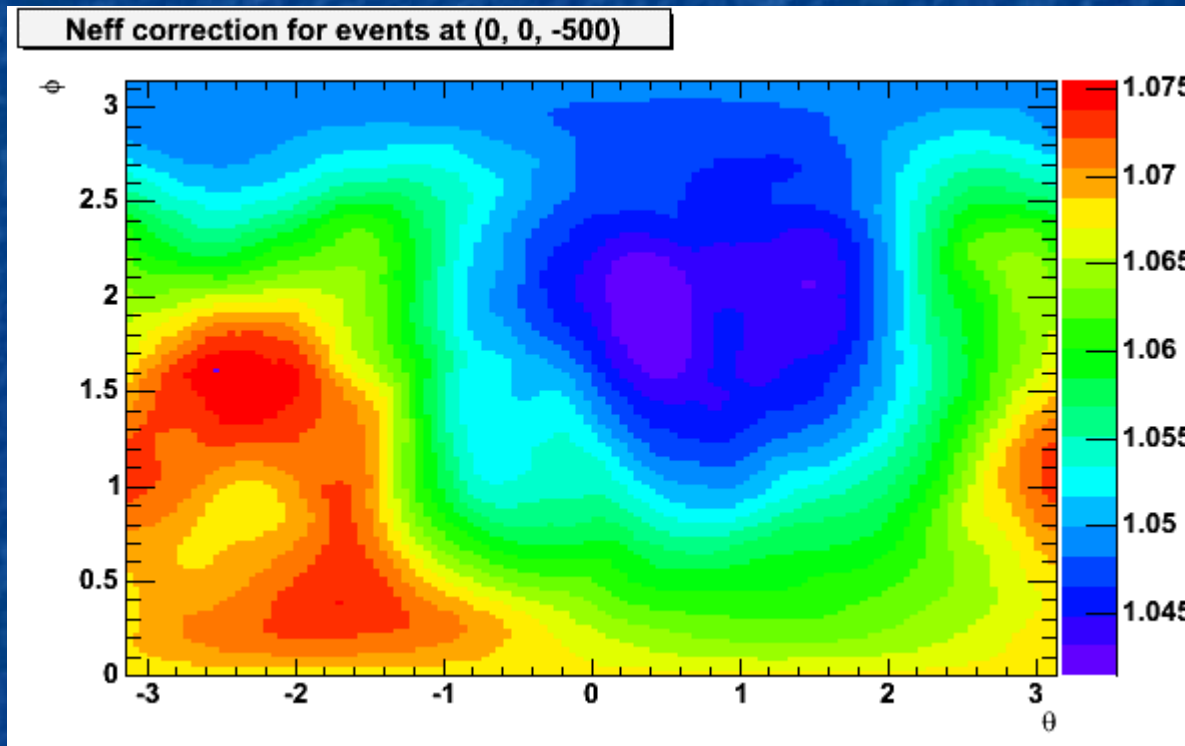
$$on = \sum_{\substack{\text{all normal} \\ \text{working tubes}}} P_{ckv} \frac{\hat{n} \vec{r}_{\text{prime}}}{r_{\text{prime}}^2} \varepsilon$$

$$off = \sum_{\substack{\text{all normal} \\ \text{non-working tubes}}} P_{ckv} \frac{\hat{n} \vec{r}_{\text{prime}}}{r_{\text{prime}}^2} \varepsilon$$

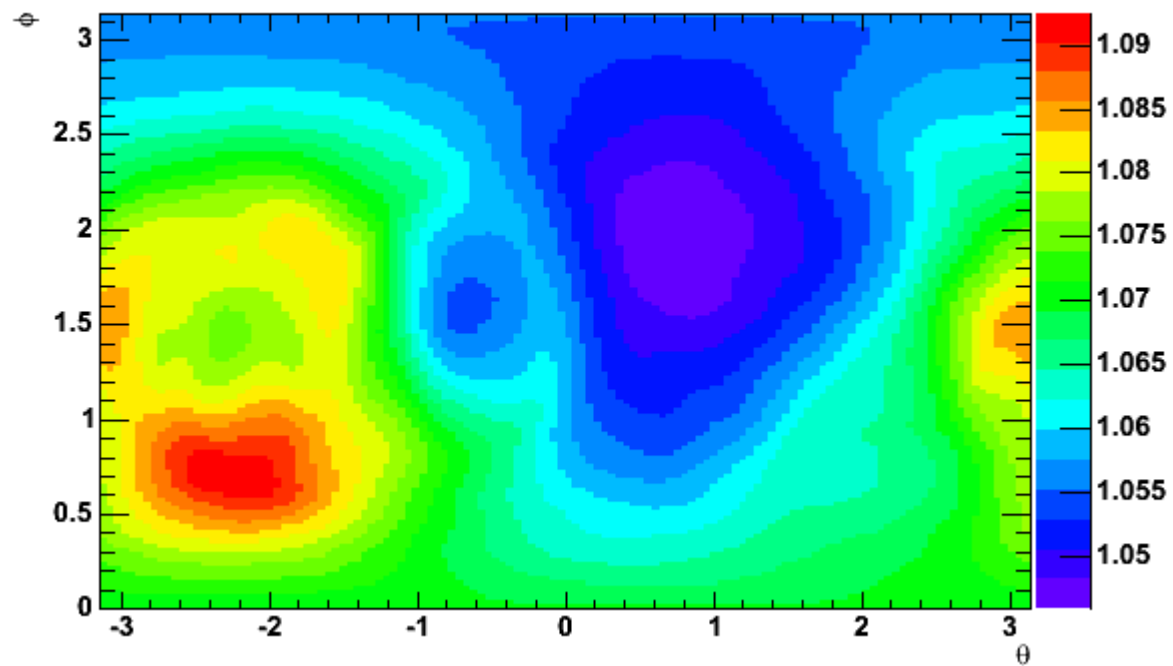
$$N_{eff} \rightarrow N_{eff} \frac{N_{\text{all channels}}}{N_{\text{working}}} \rightarrow N_{eff} \frac{on + off}{on}$$

For the run 21826 (^{16}N)

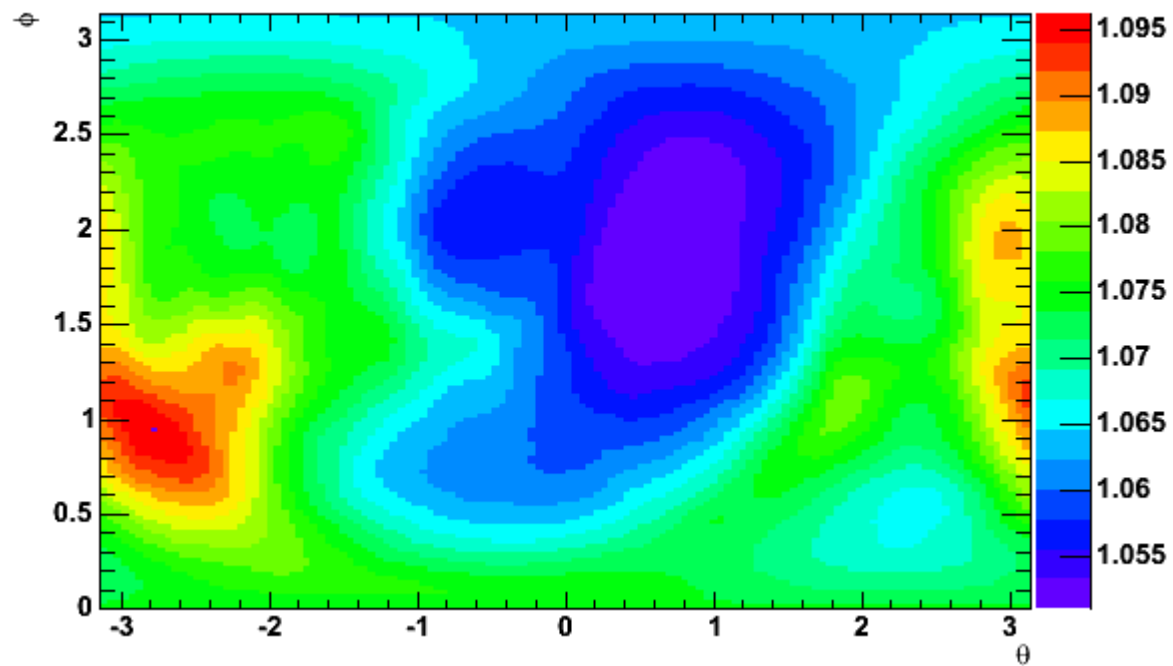
Going down the vertical axis



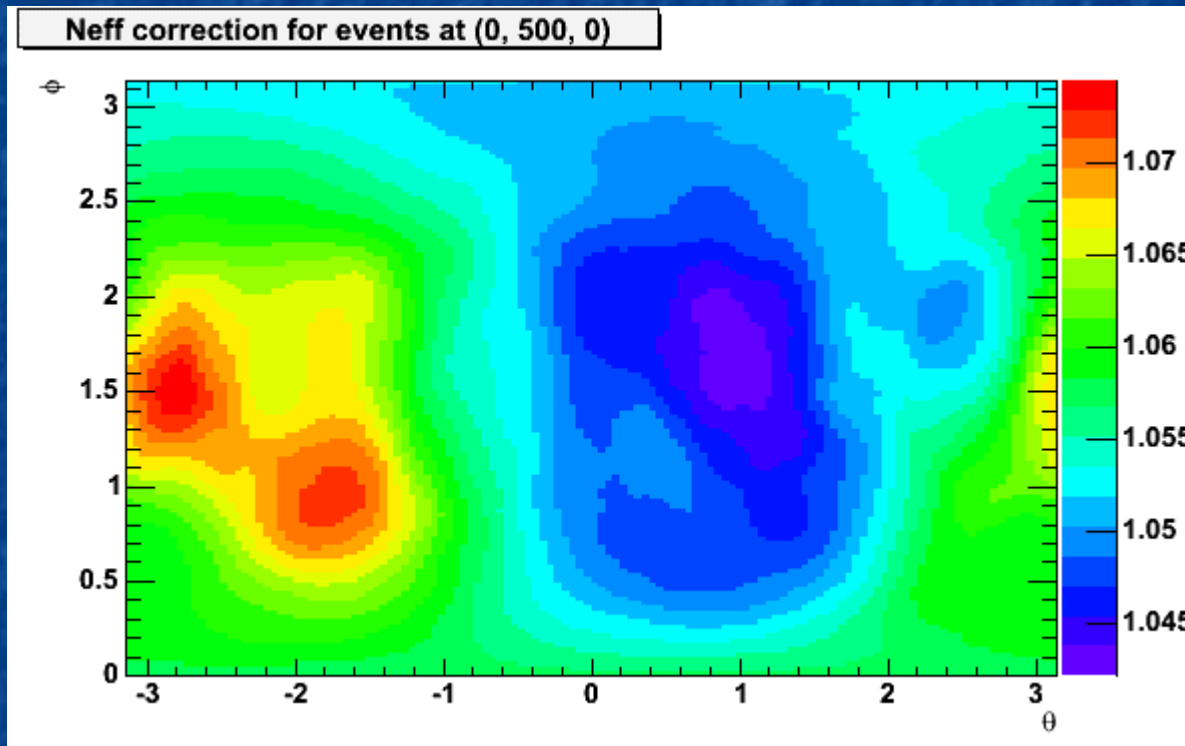
Neff correction for events at (0, 0, 0)



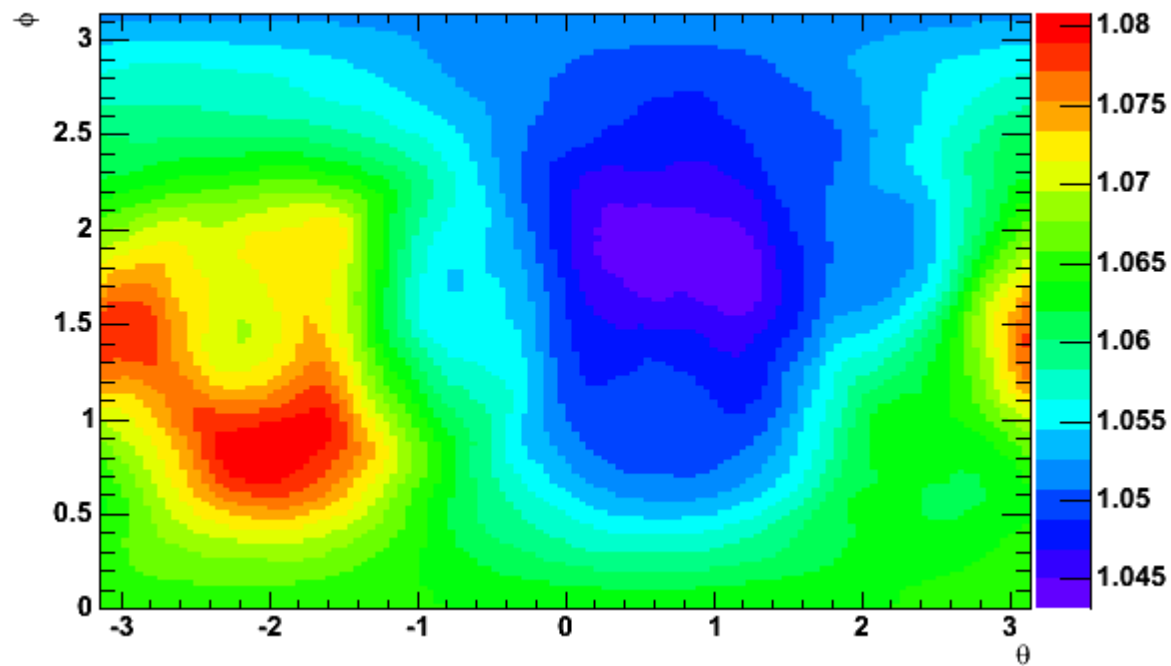
Neff correction for events at (0, 0, 500)



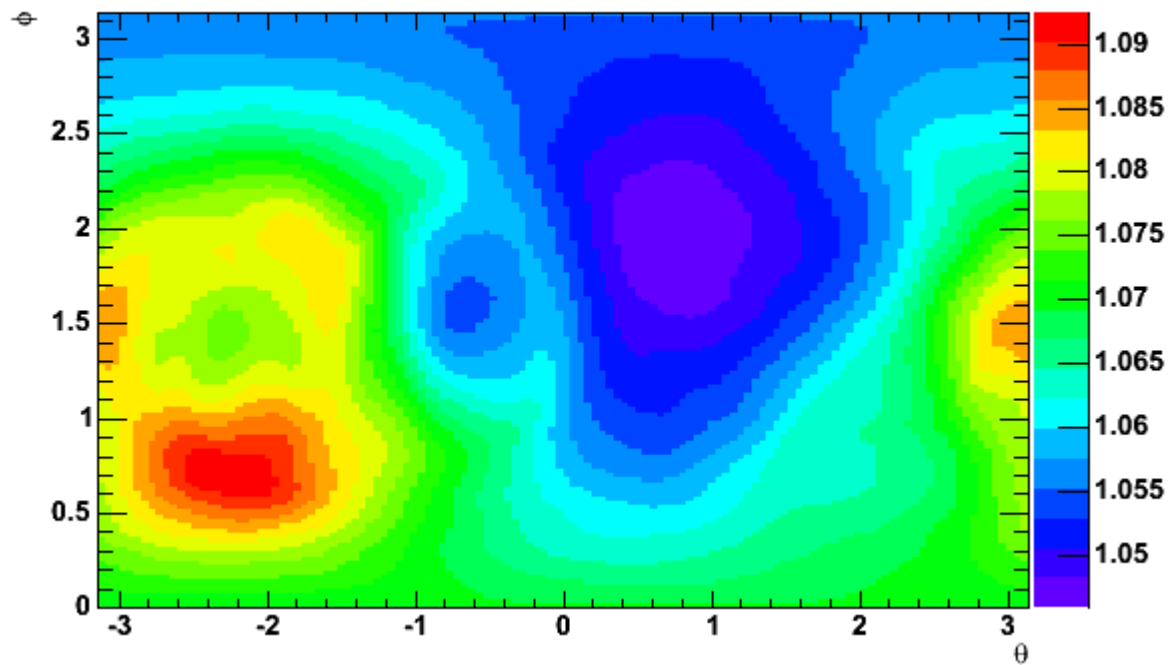
From + 've to - 've along the y-axis



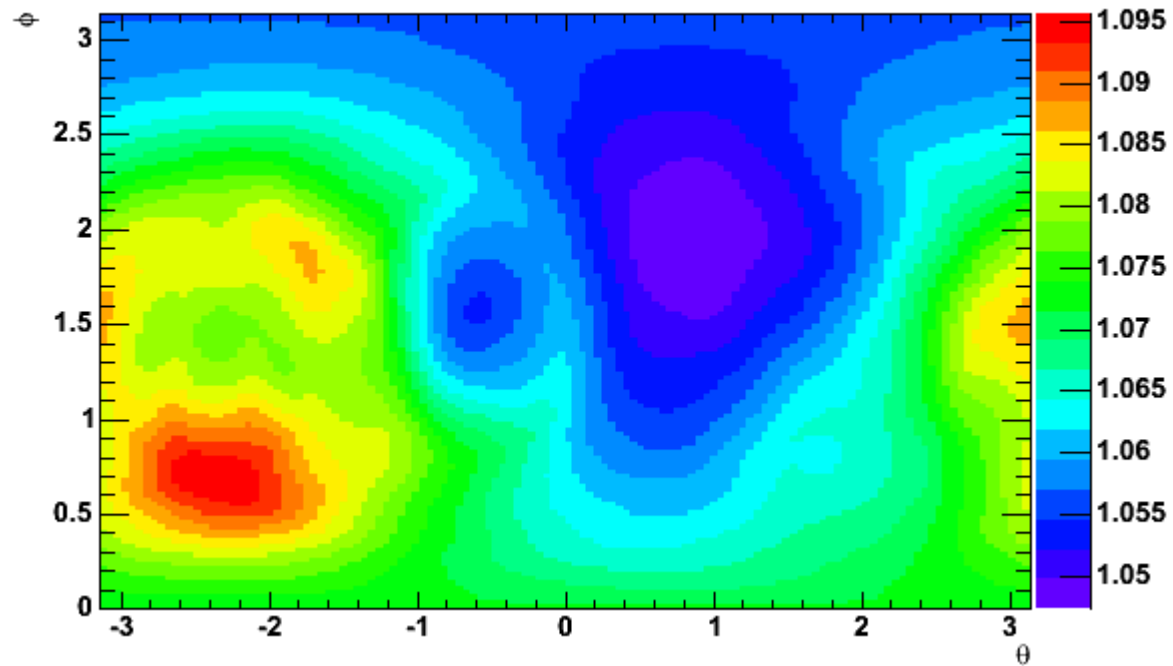
Neff correction for events at (0, 300, 0)



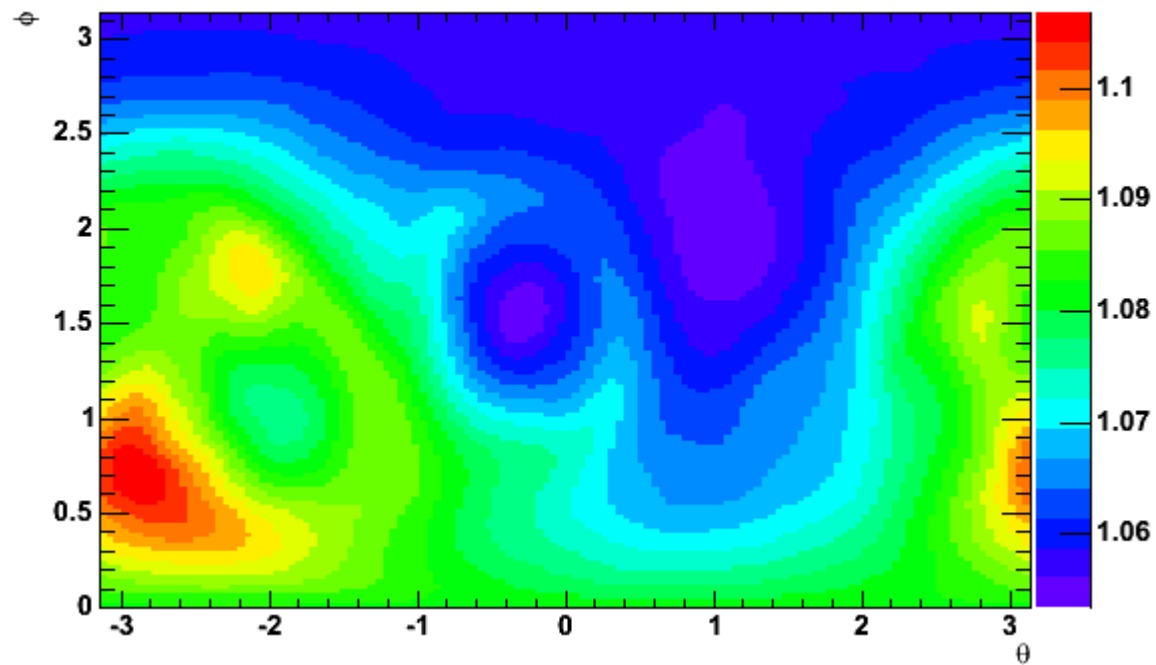
Neff correction for events at (0, 0, 0)



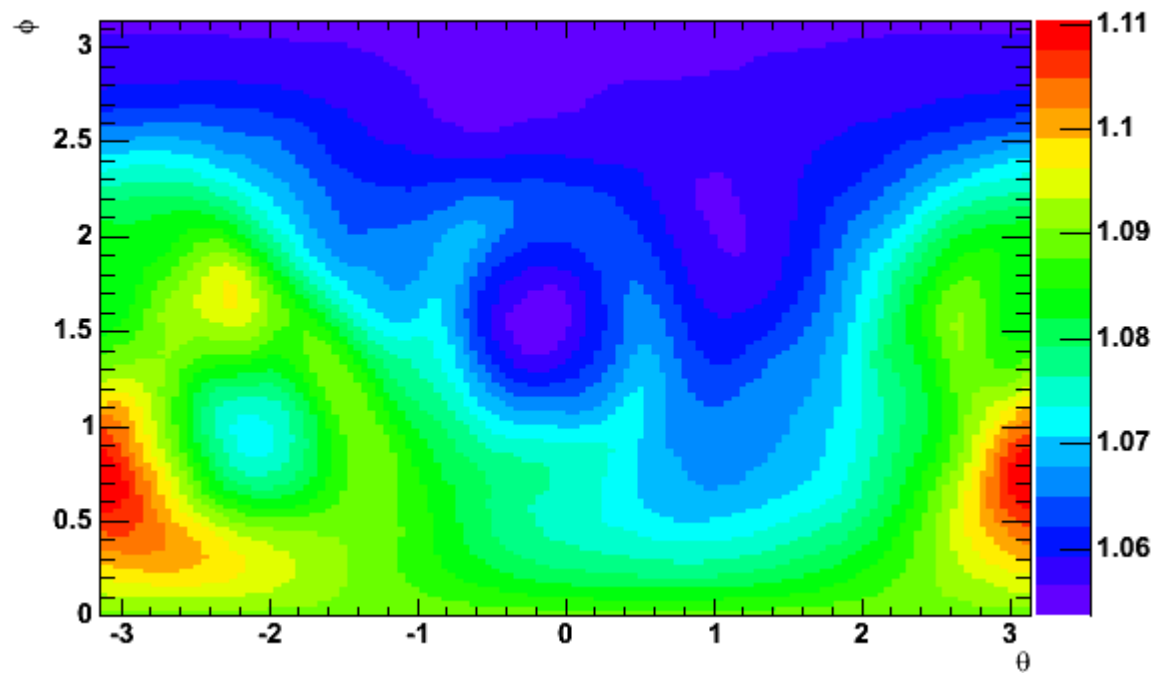
Neff correction for events at (0, -100, 0)



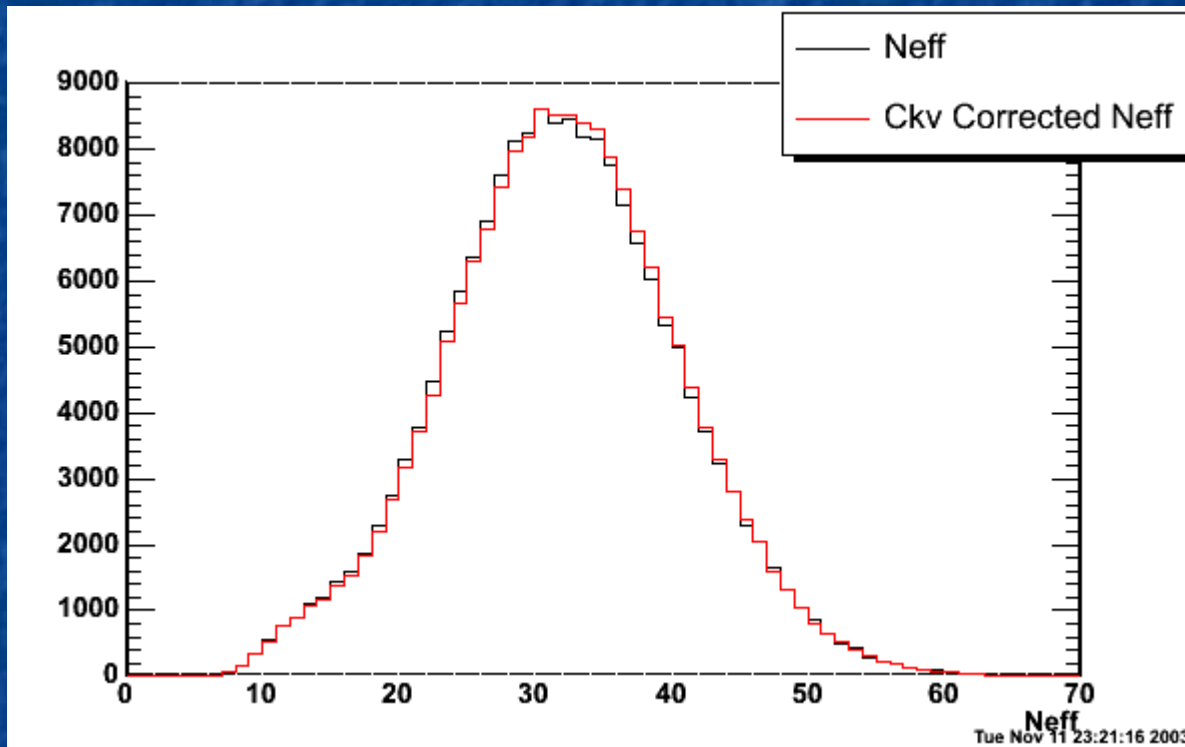
Neff correction for events at (0, -400, 0)

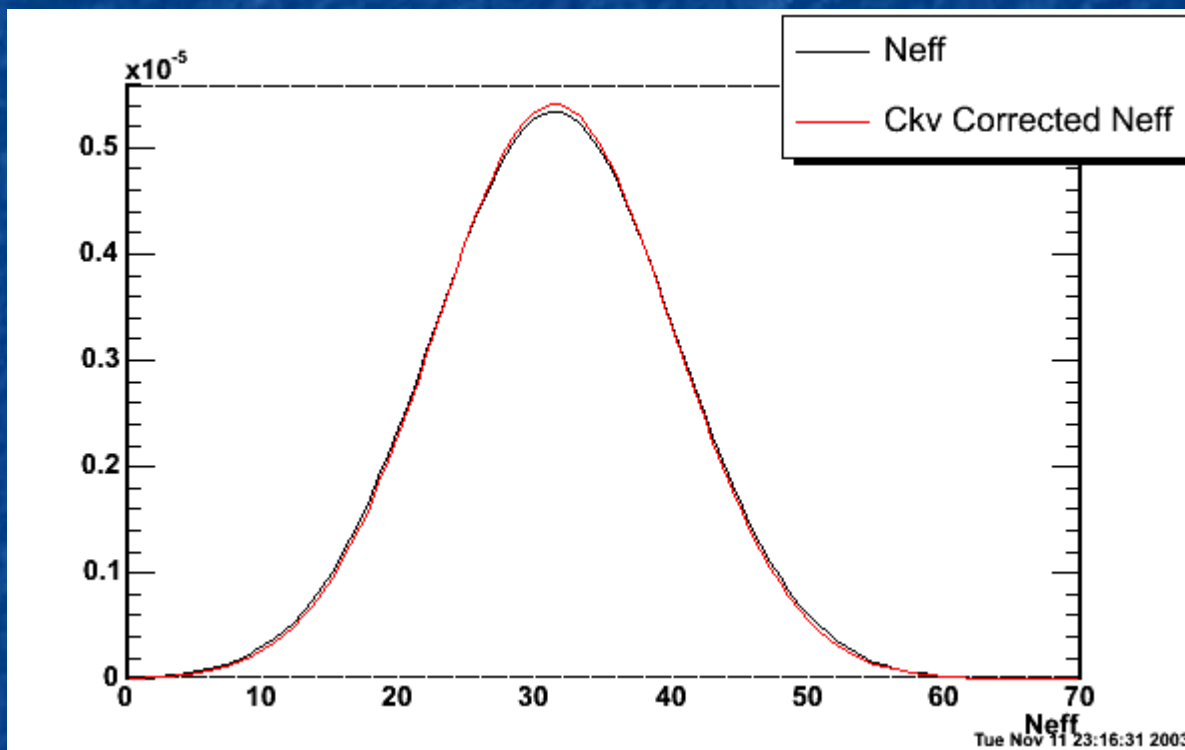


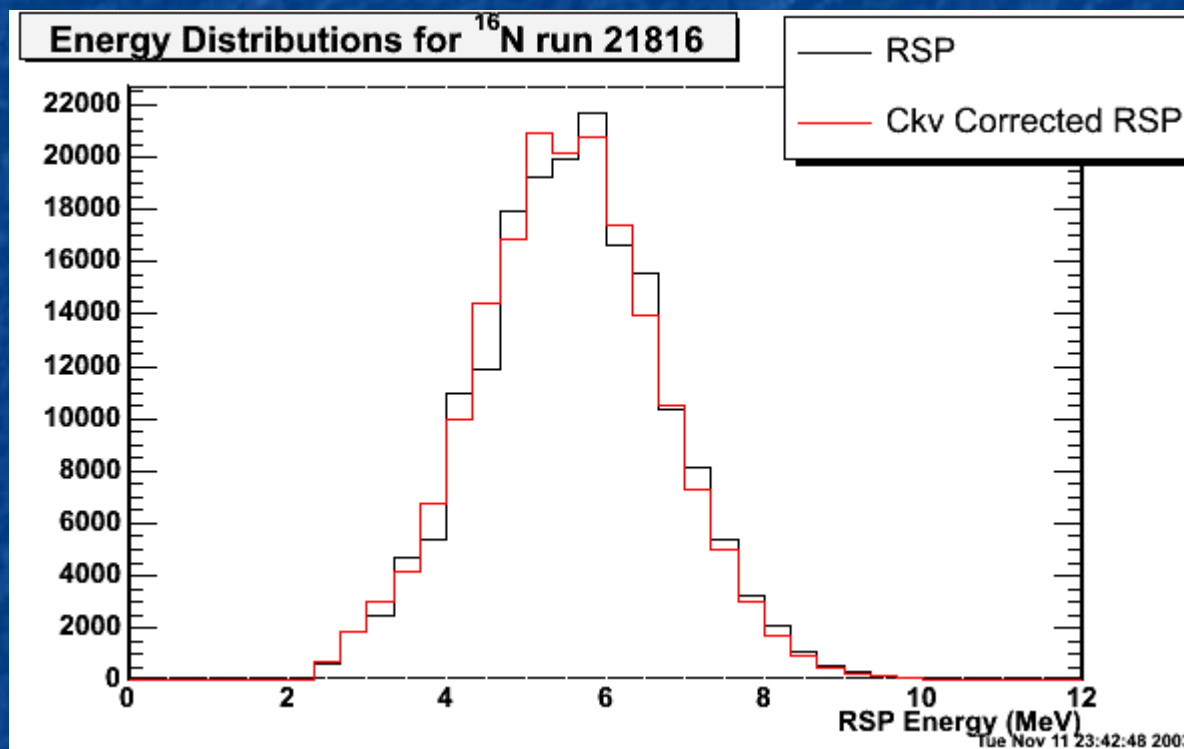
Neff correction for events at (0, -500, 0)



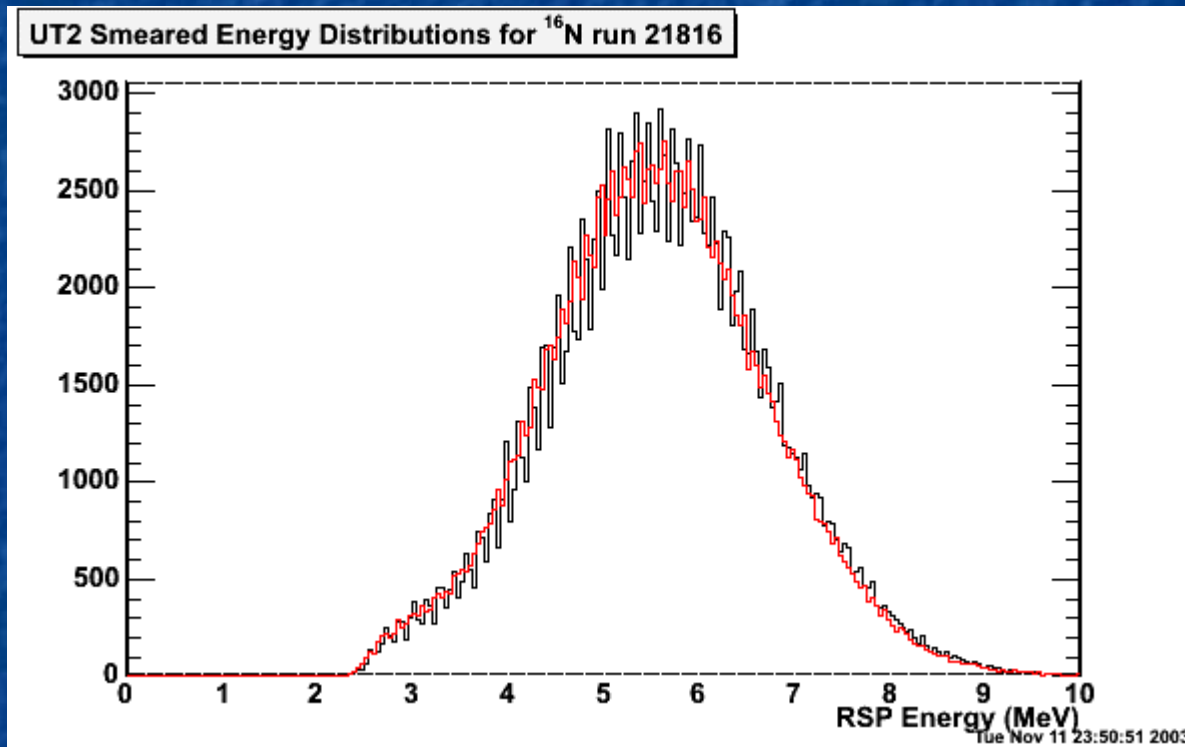
What does the correction look like applied
to ^{16}N run 21826???



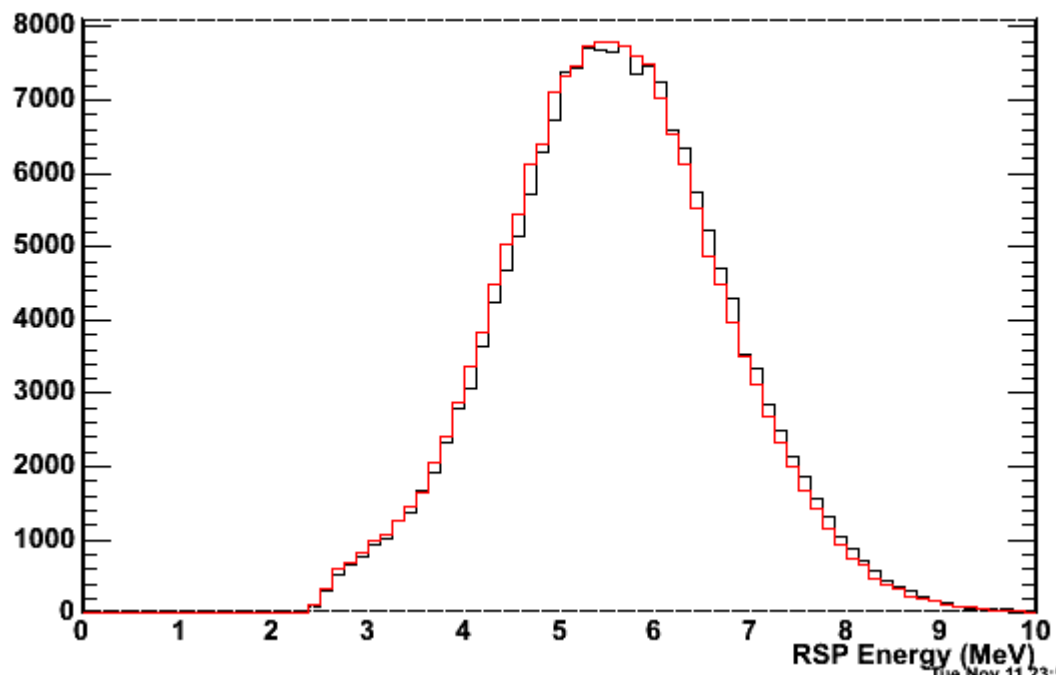




Does RSP still require smearing for binning finer than $\sim 0.5\text{MeV}$???

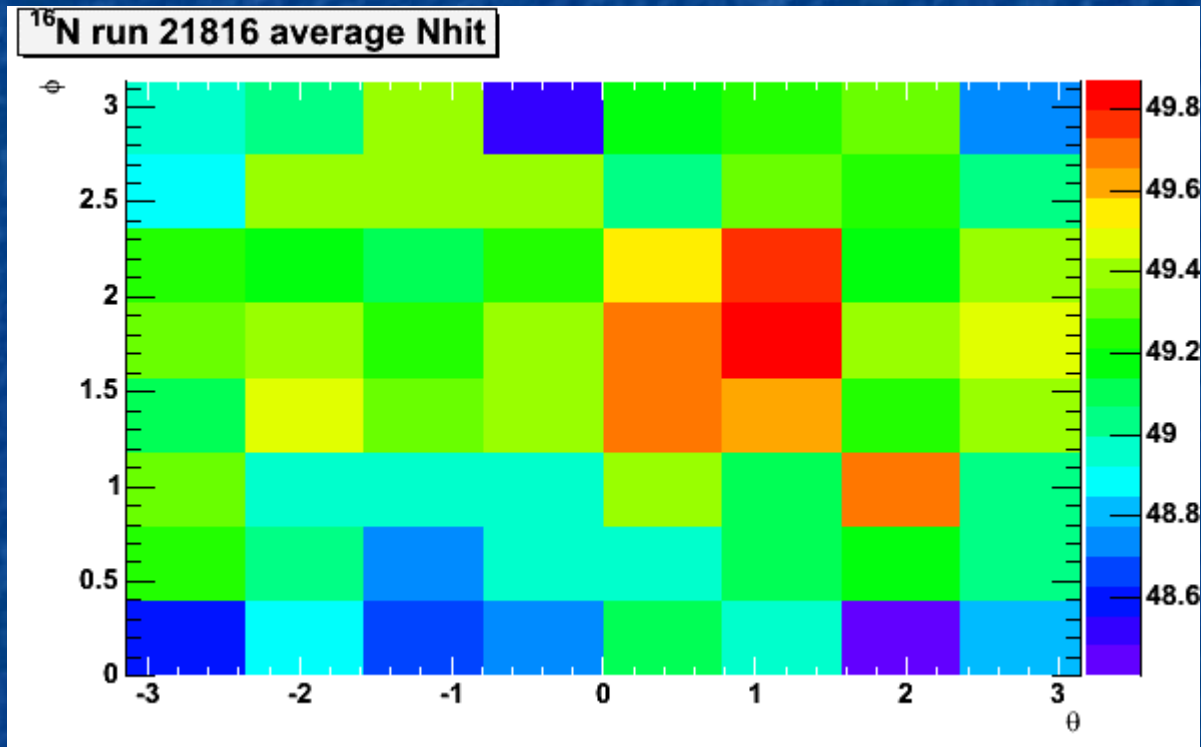


UT2 Smeared Energy Distributions for ^{16}N run 21816



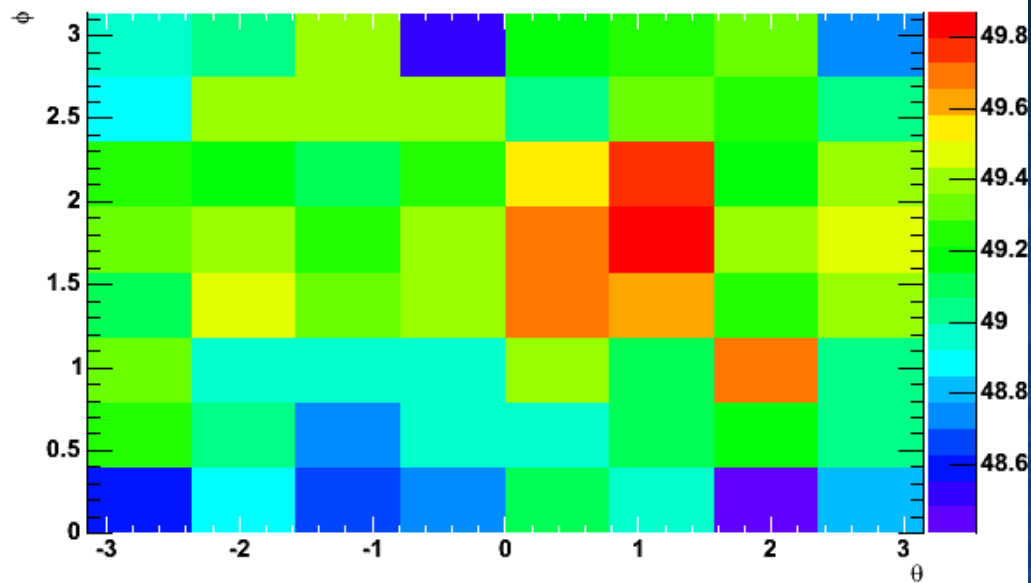
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For a central ^{16}N run the Nhit distribution should be anti-correlated with the point source correction map.

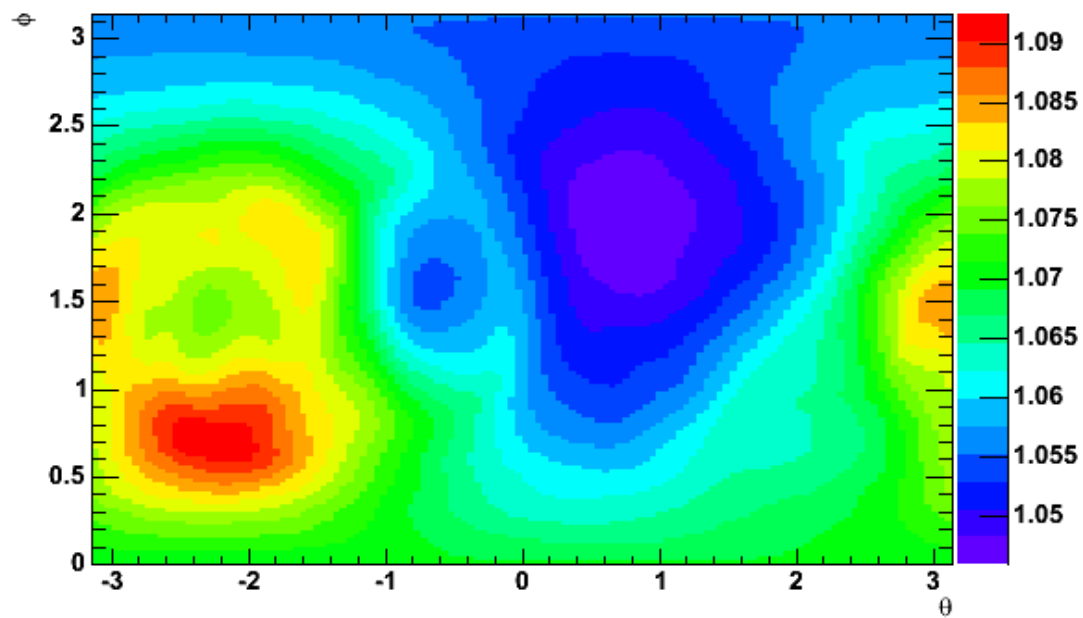


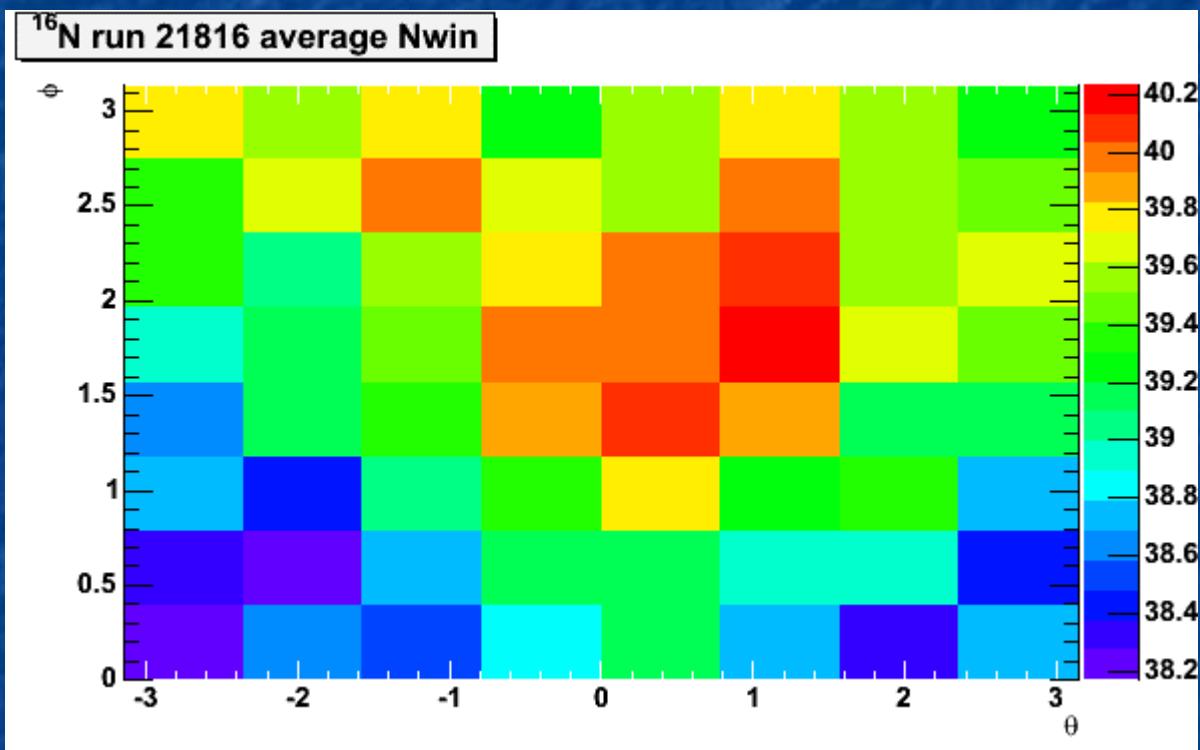
All of the following plots are for Nhits > 40

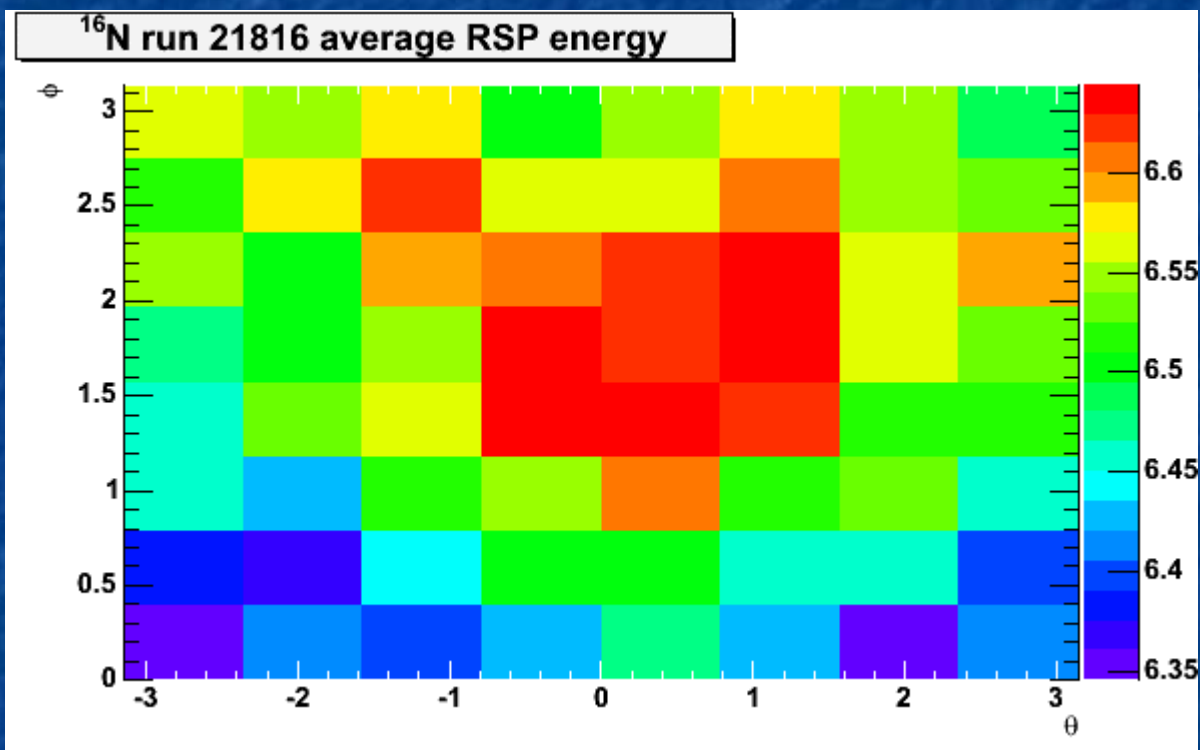
^{16}N run 21816 average Nhit

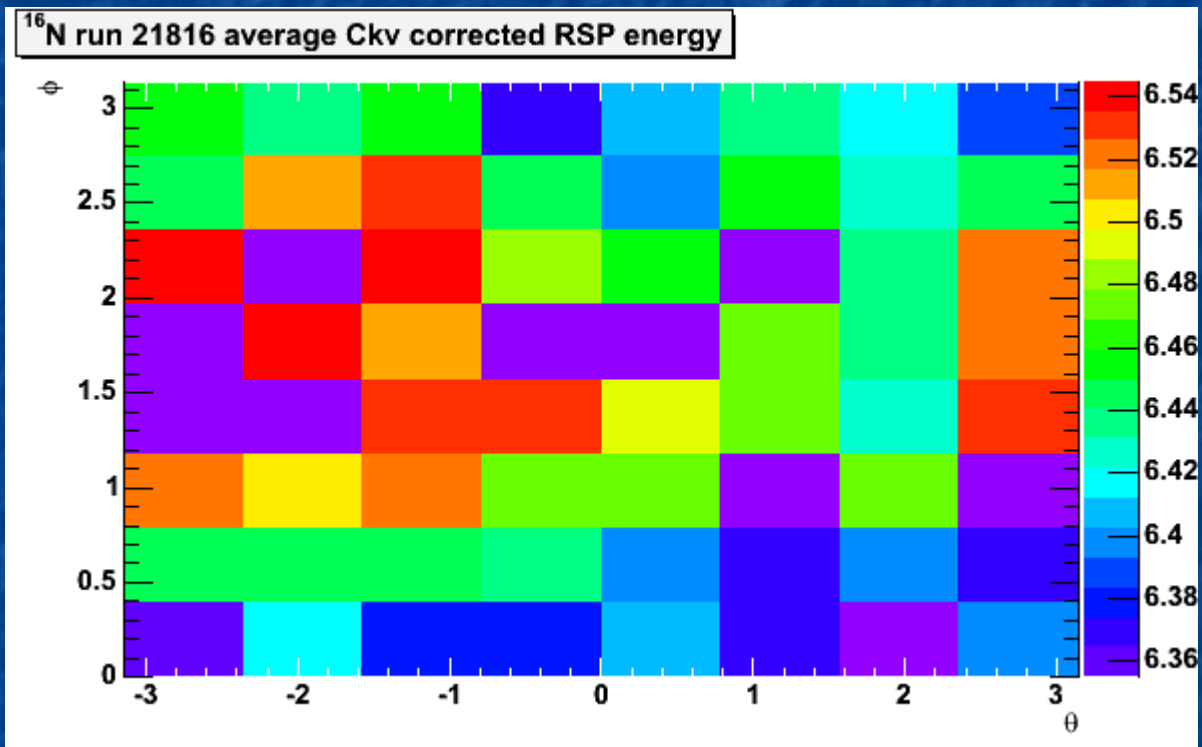


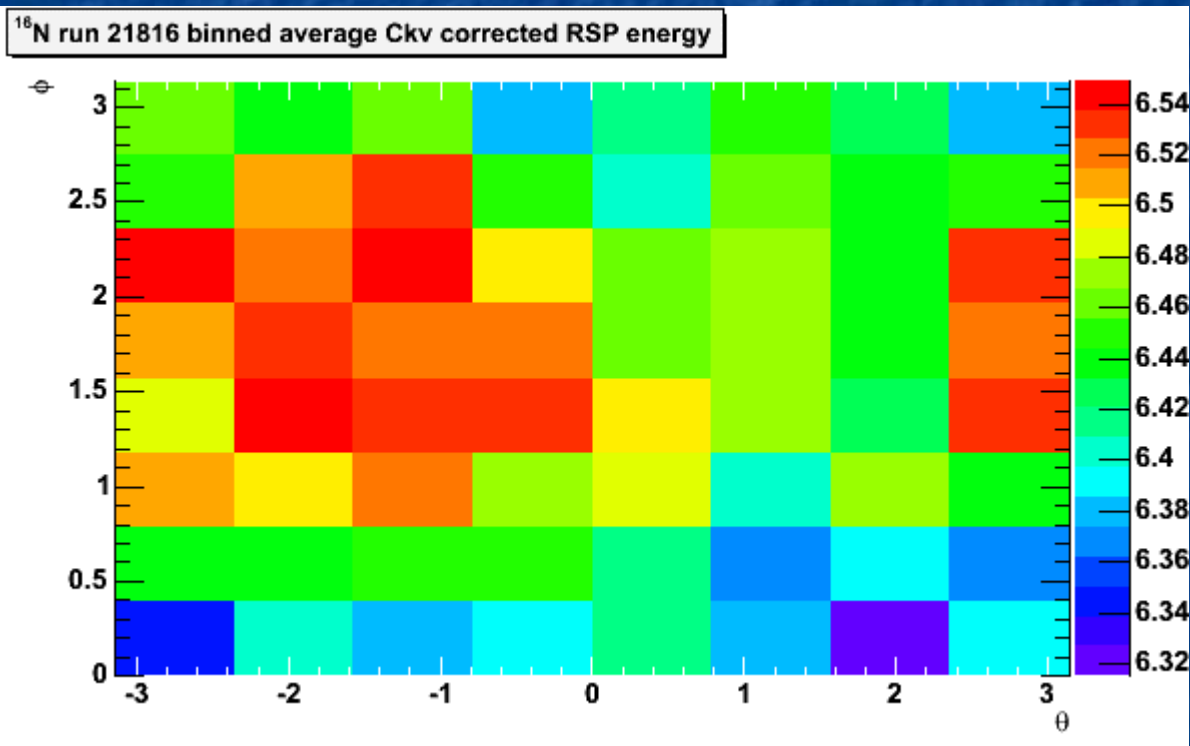
Neff correction for events at (0, 0, 0)











Ckv Correction as a function of Nhit

