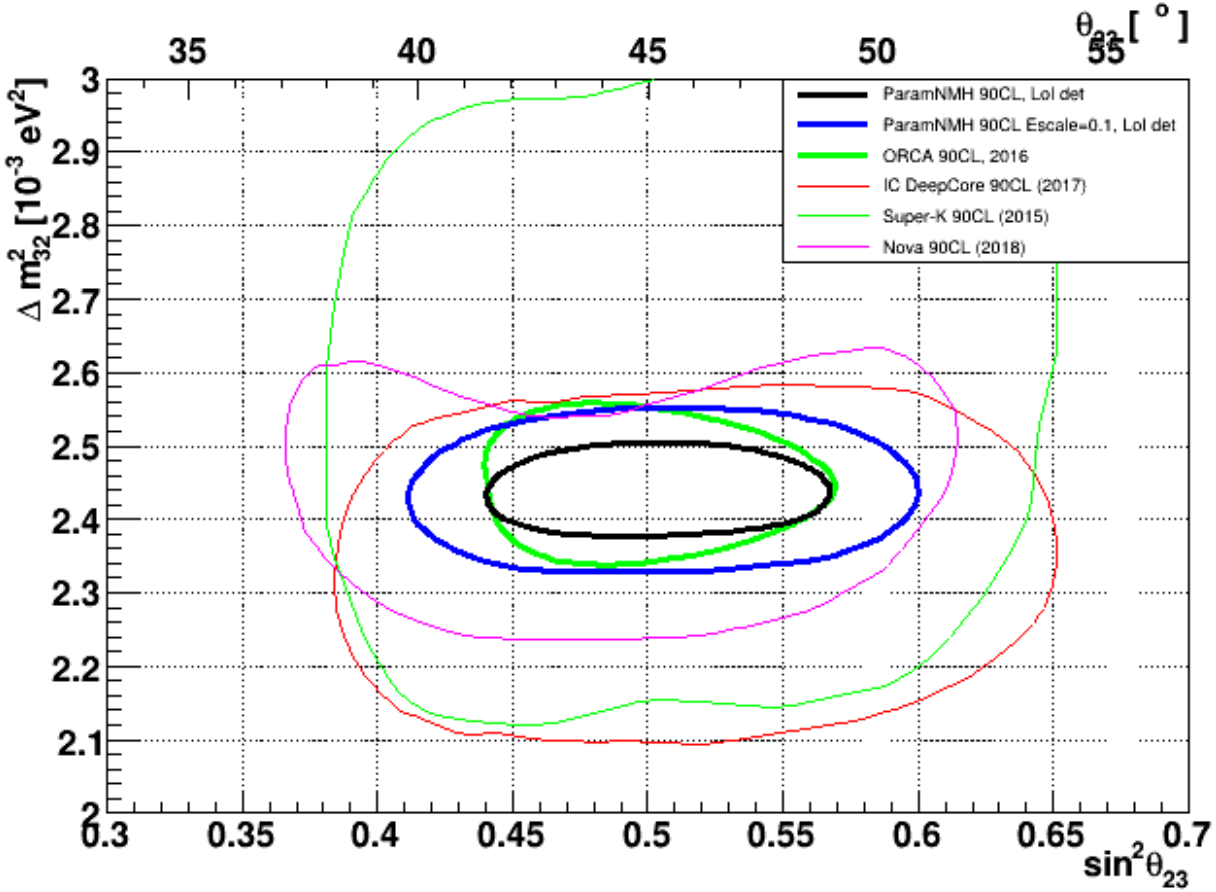
Contours update

Maximum angle th23



Detector resolution

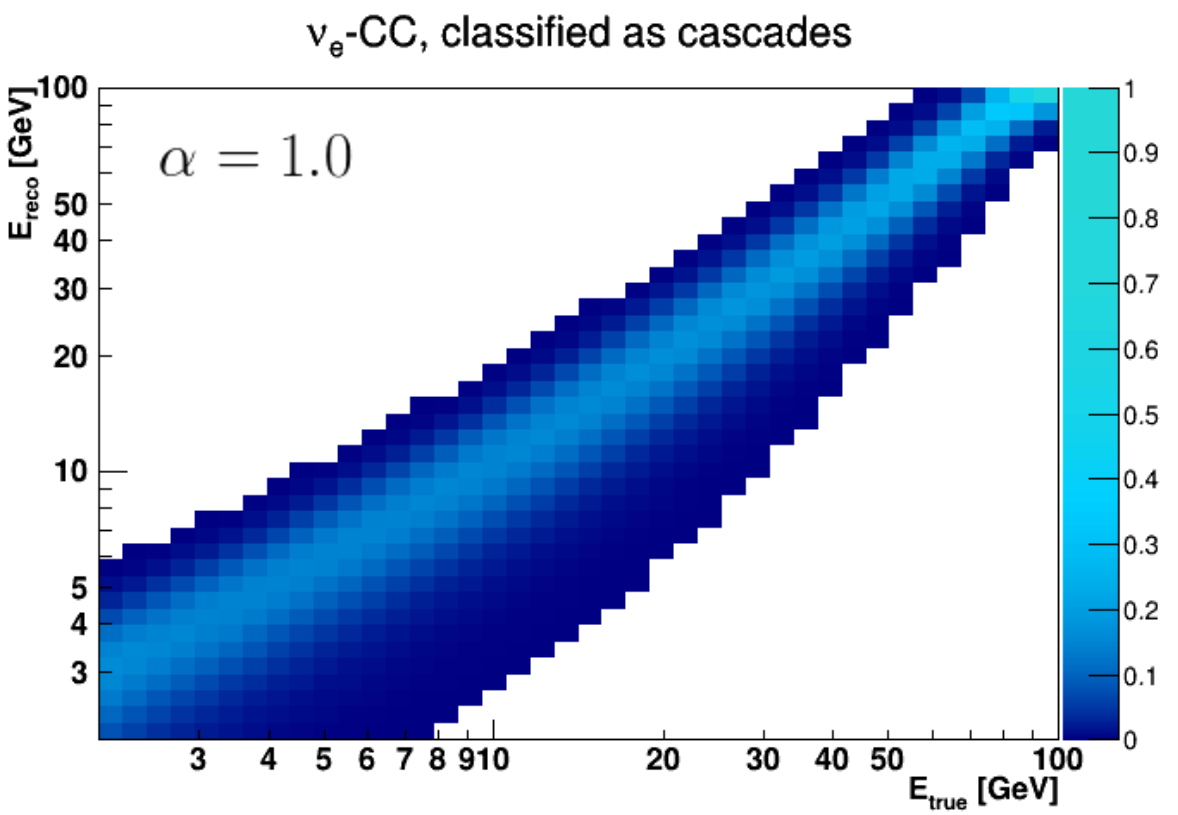
Resolution is some 3rd order polynomial

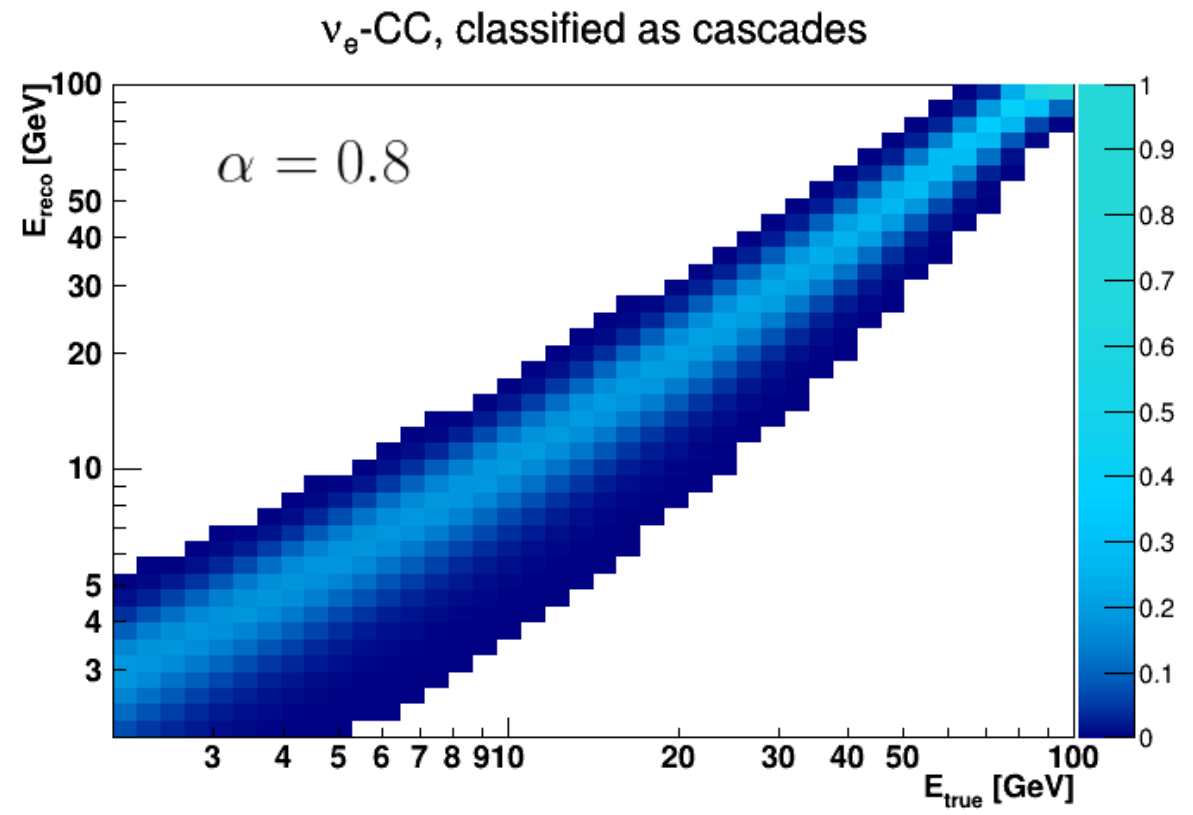
$$E_{mean} = f_3(E, a, b, c)$$

$$\sigma_E = g_3(E, d, e, f)$$

Change resolution with some factor alpha:

$$\sigma_E \mapsto \alpha\sigma_E$$





Detector resolution

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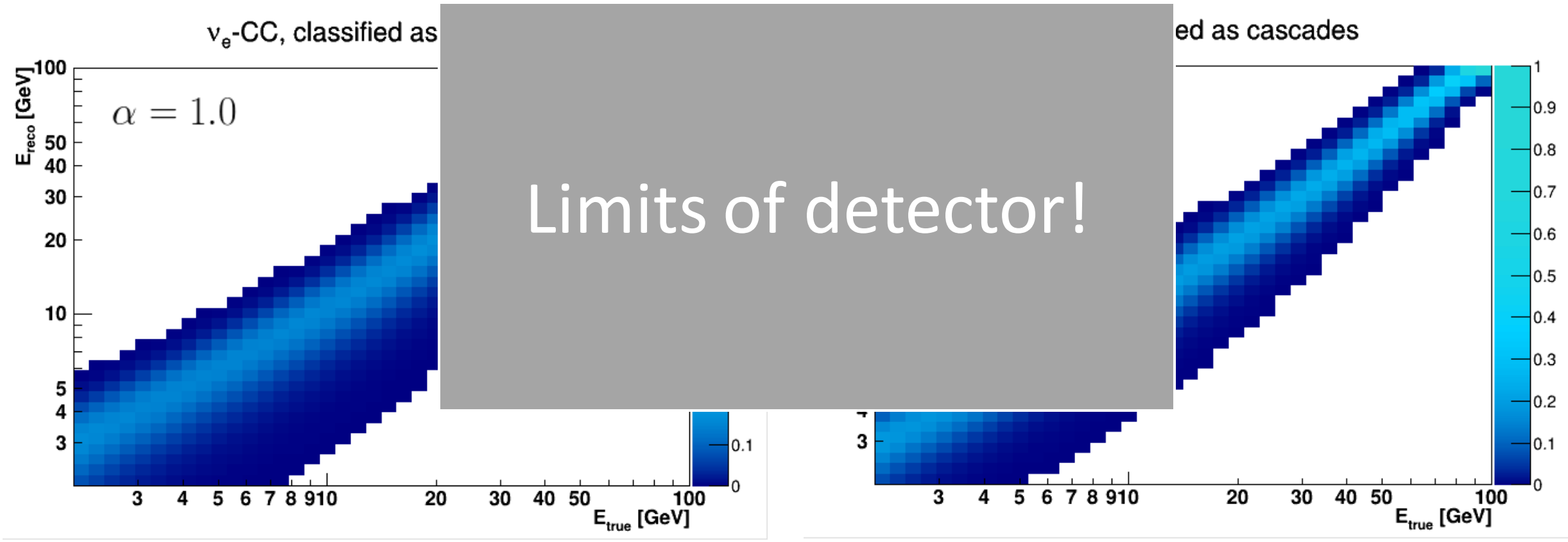
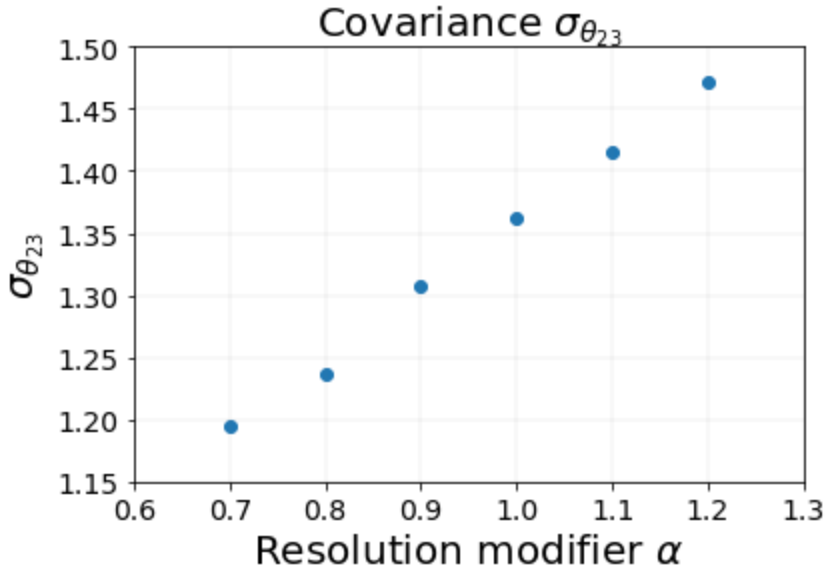
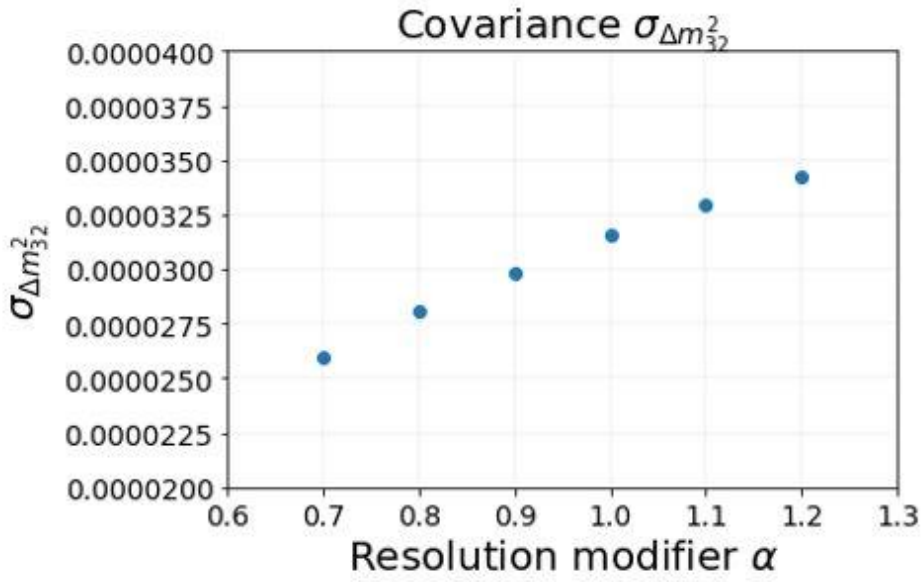


Energy resolution effect on parameters

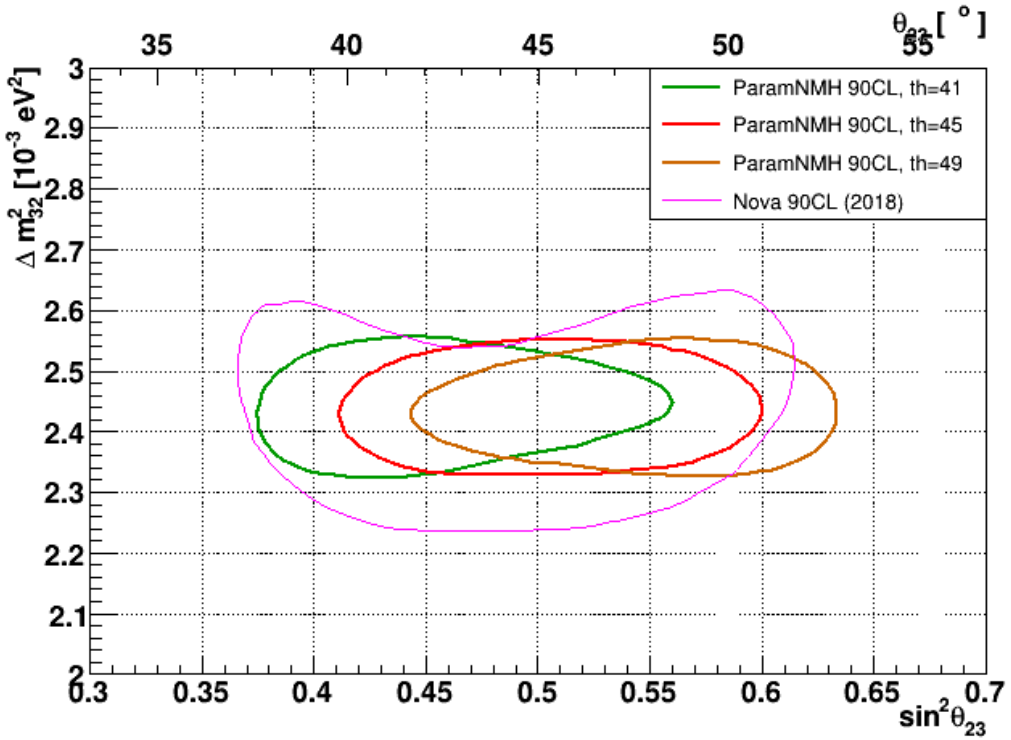


30% increase resolution ->
12% decrease th23
uncertainty

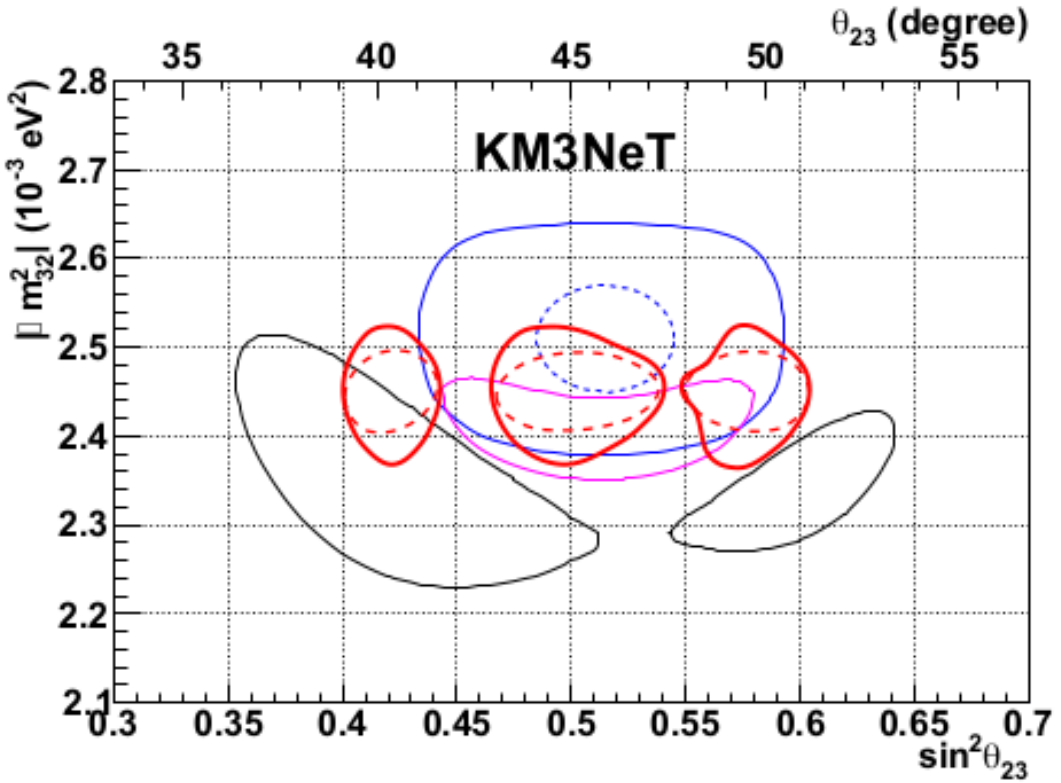


30% increase resolution ->
21% decrease mass. diff.
uncertainty

Octant

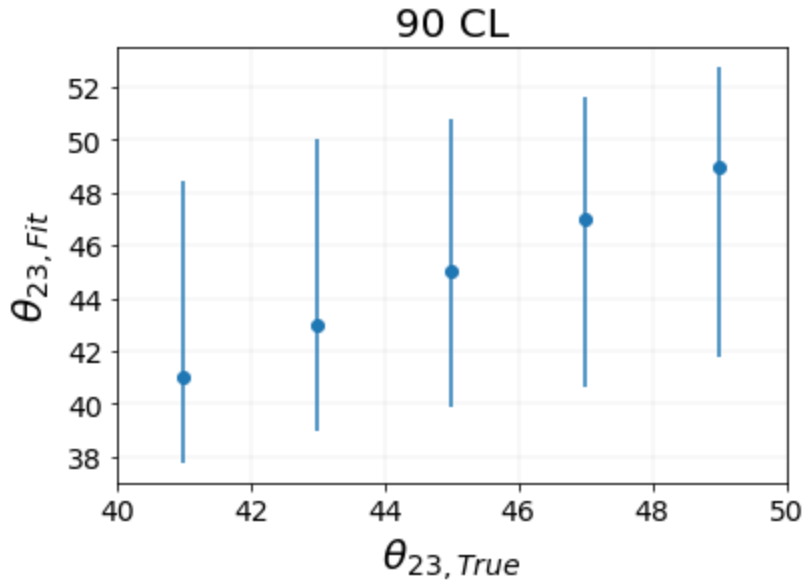


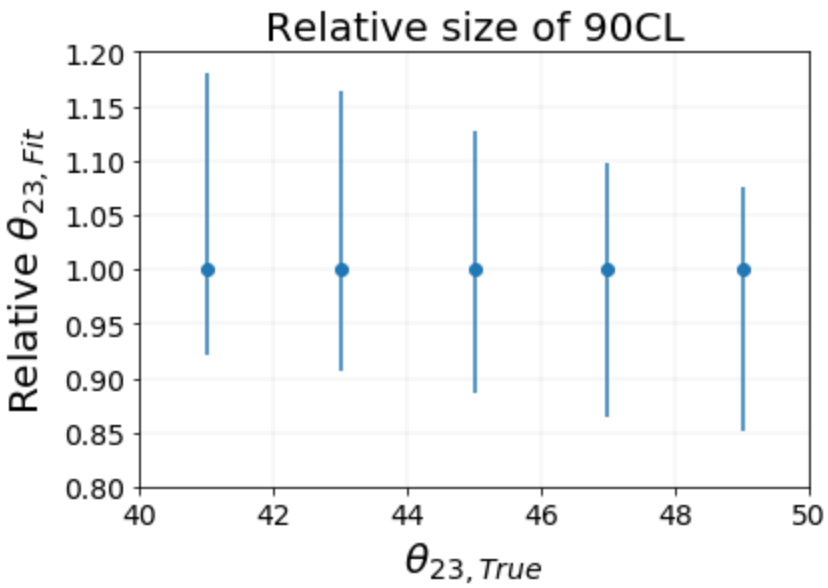
Energy uncertainty also used



Uncertainty on octant

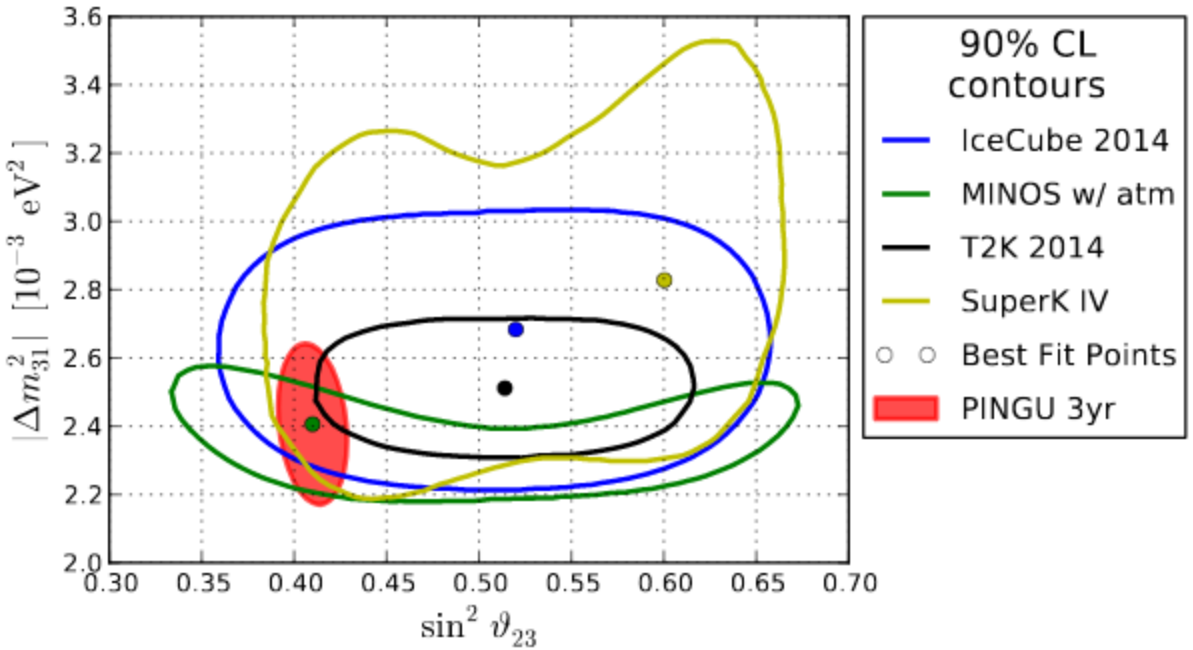
- Error bars are taken from 90CL contours at different True values
- Energy uncertainty on



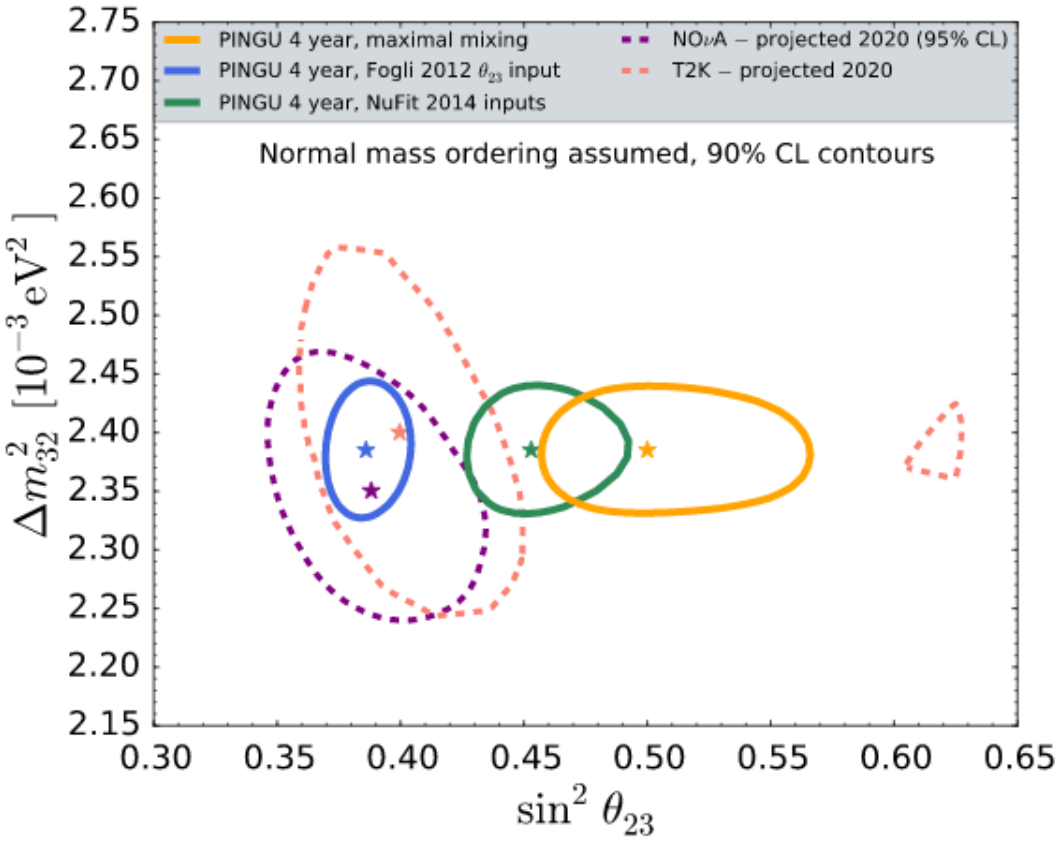


Backup

PINGU thesis L. Schulte (2015)



PINGU: A Vision (2017)



KM3NeT LoI (2016)