

# Crazy flux fake data summary

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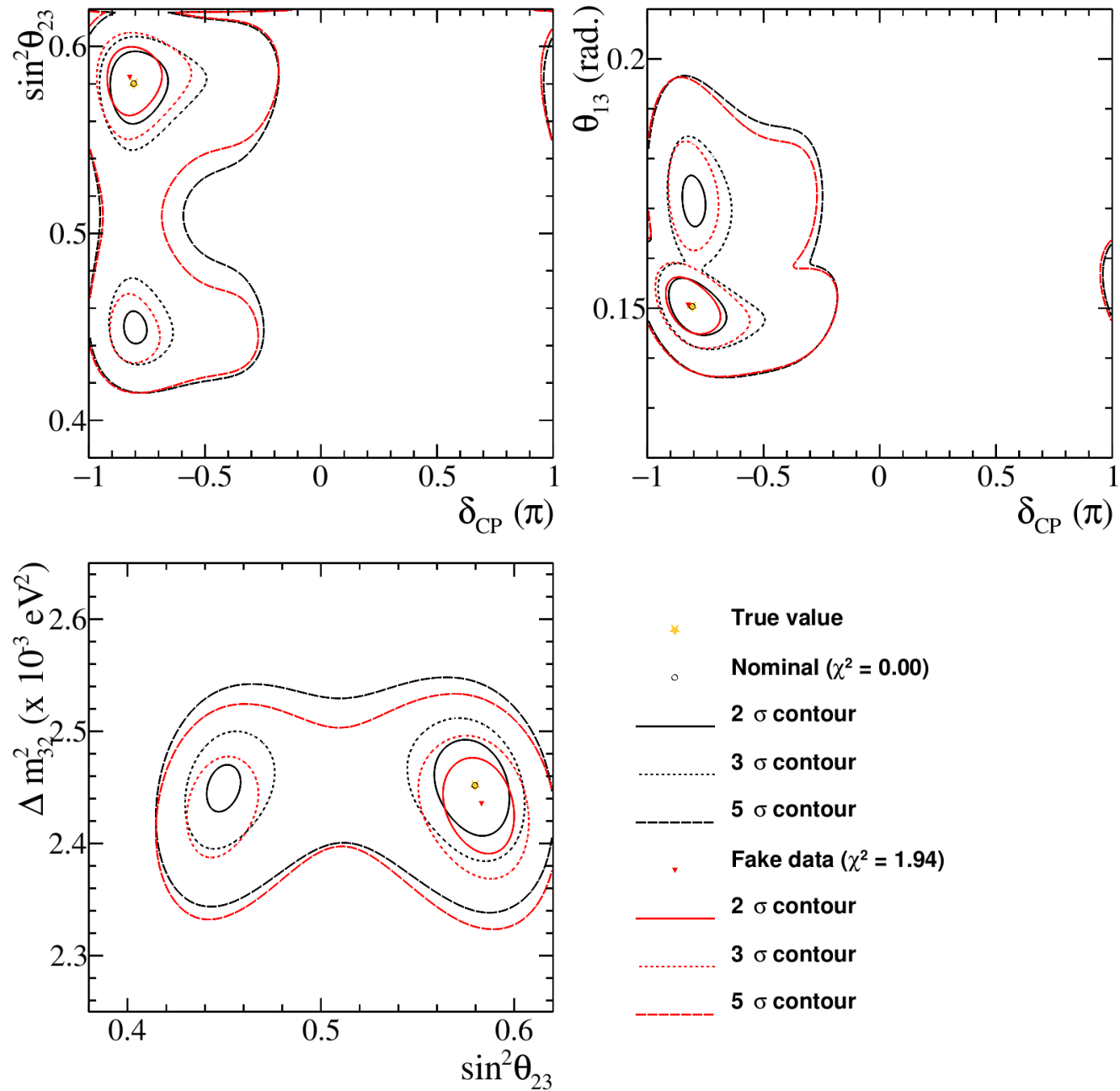
<sup>b</sup>  
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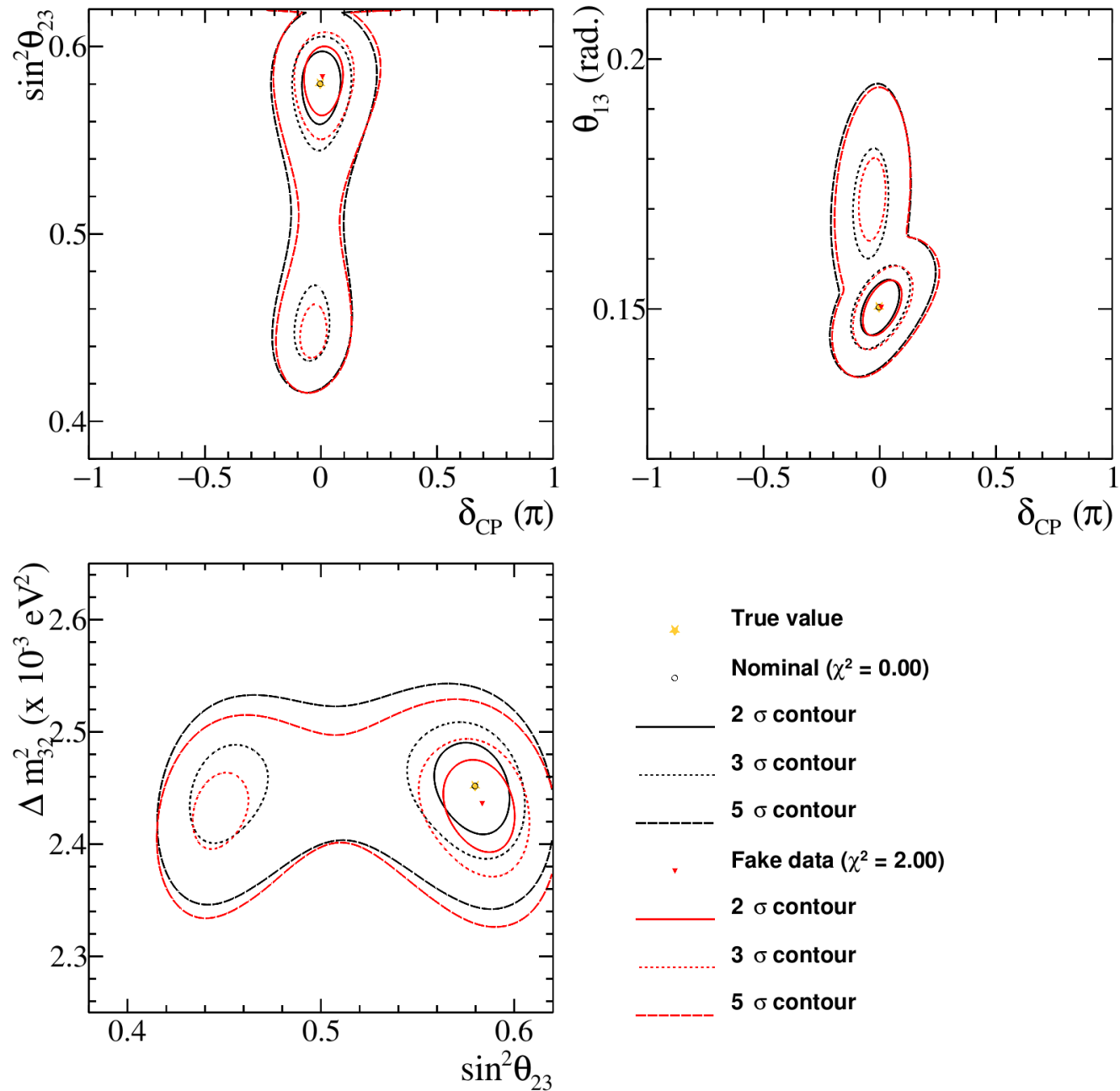
## Method

- ▶ All plots are FD-only, 15 years staged, no  $\theta_{13}$  penalty. A few different true OA parameter sets are used.
- ▶ Flux bias histogram from Guang's "crazy flux" study. Mimics a bias in the flux for the 50% of the time that the detector is off-axis for PRISM. Applied to FHC, RHC or both.
- ▶ Relatively small bias in  $\delta_{CP}$  (but probably enough to worry about) when applied to FHC or RHC alone, very small  $\chi^2$  penalty.
- ▶ Bias for  $\Delta m_{32}^2$  for all scenarios.
- ▶ I also threw in missing proton and Nuwro fake data sets for reference.

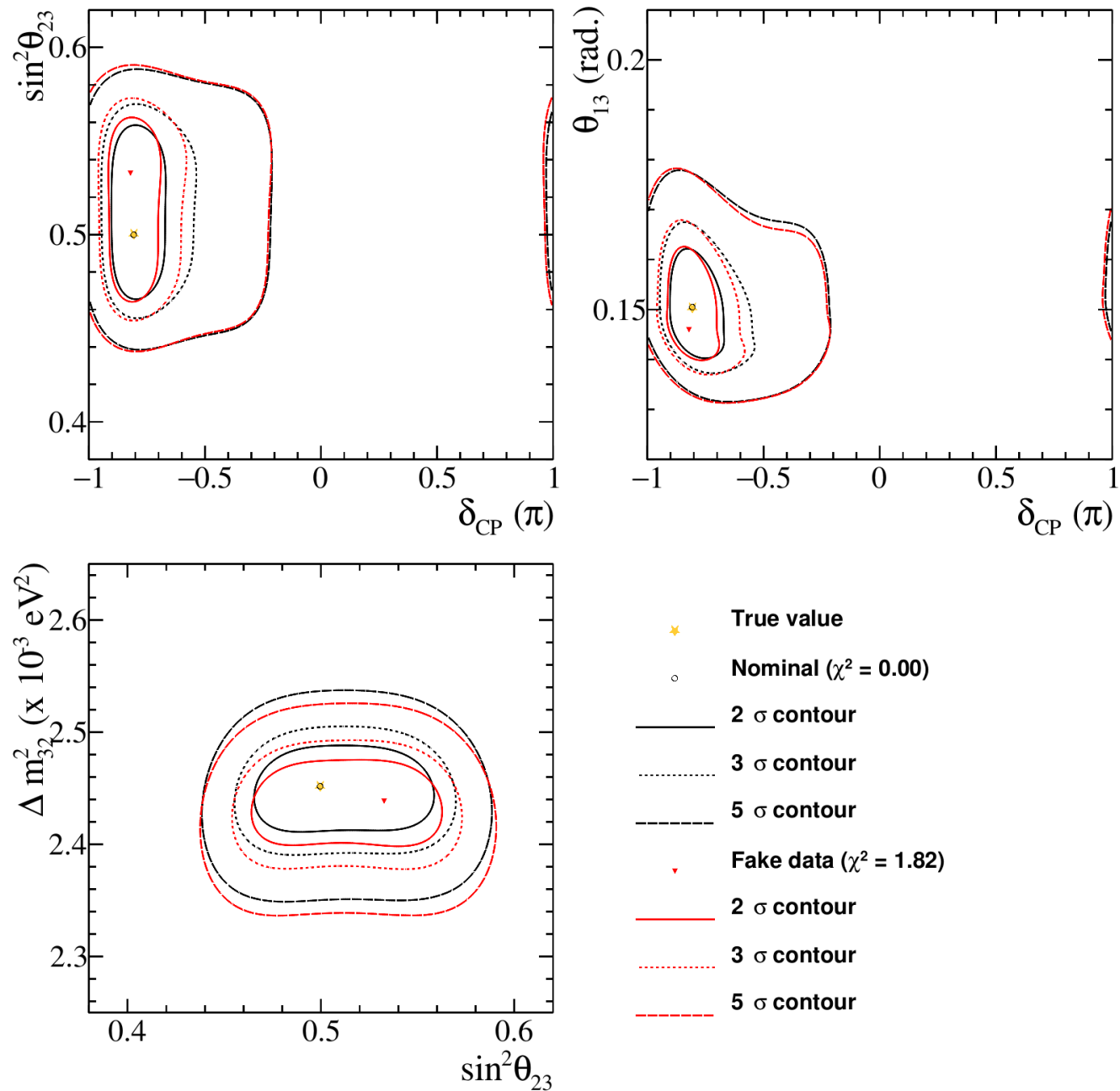
# CrazyFlux\_FHC, asimov0



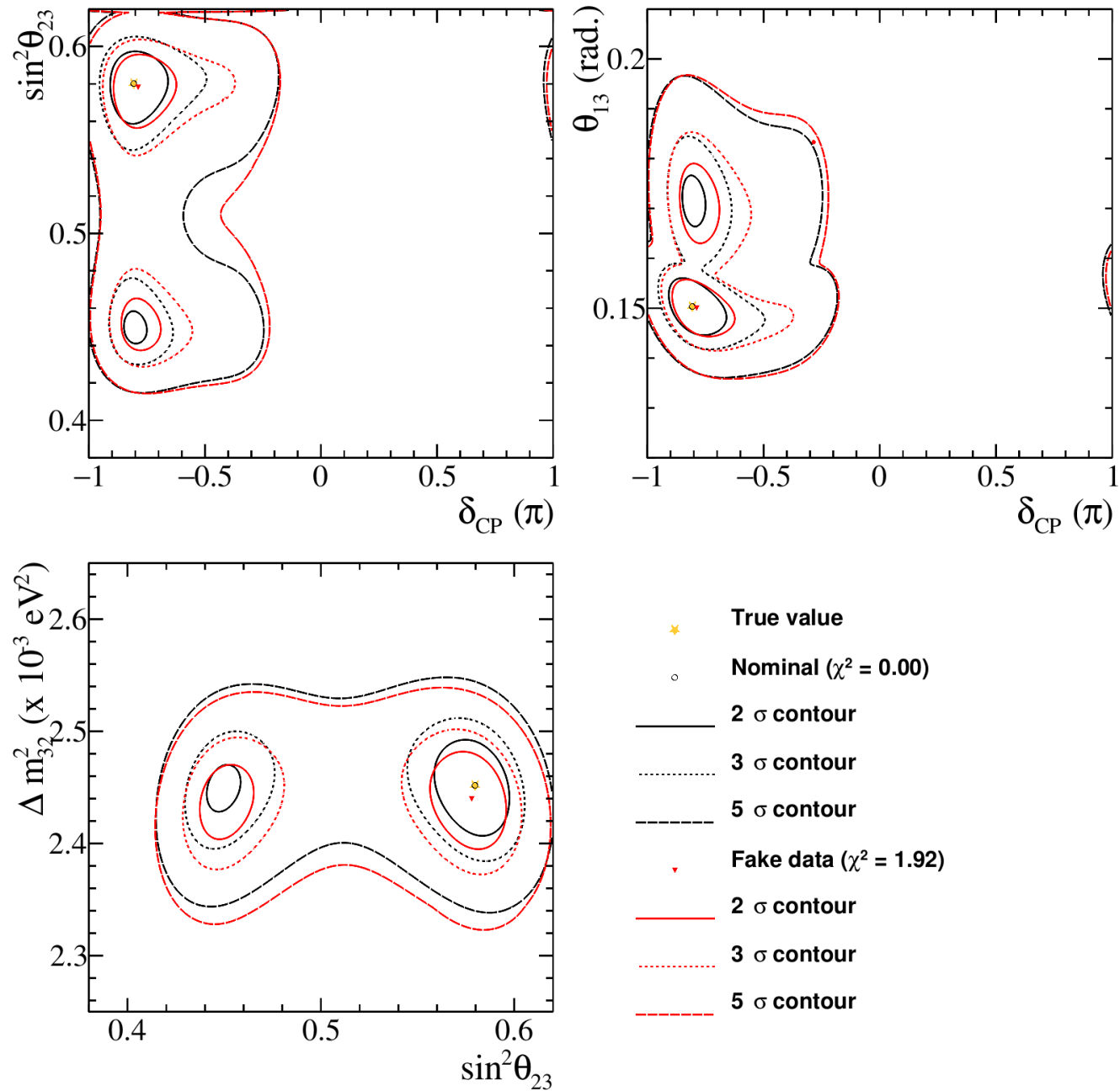
# CrazyFlux\_FHC, deltapi:0



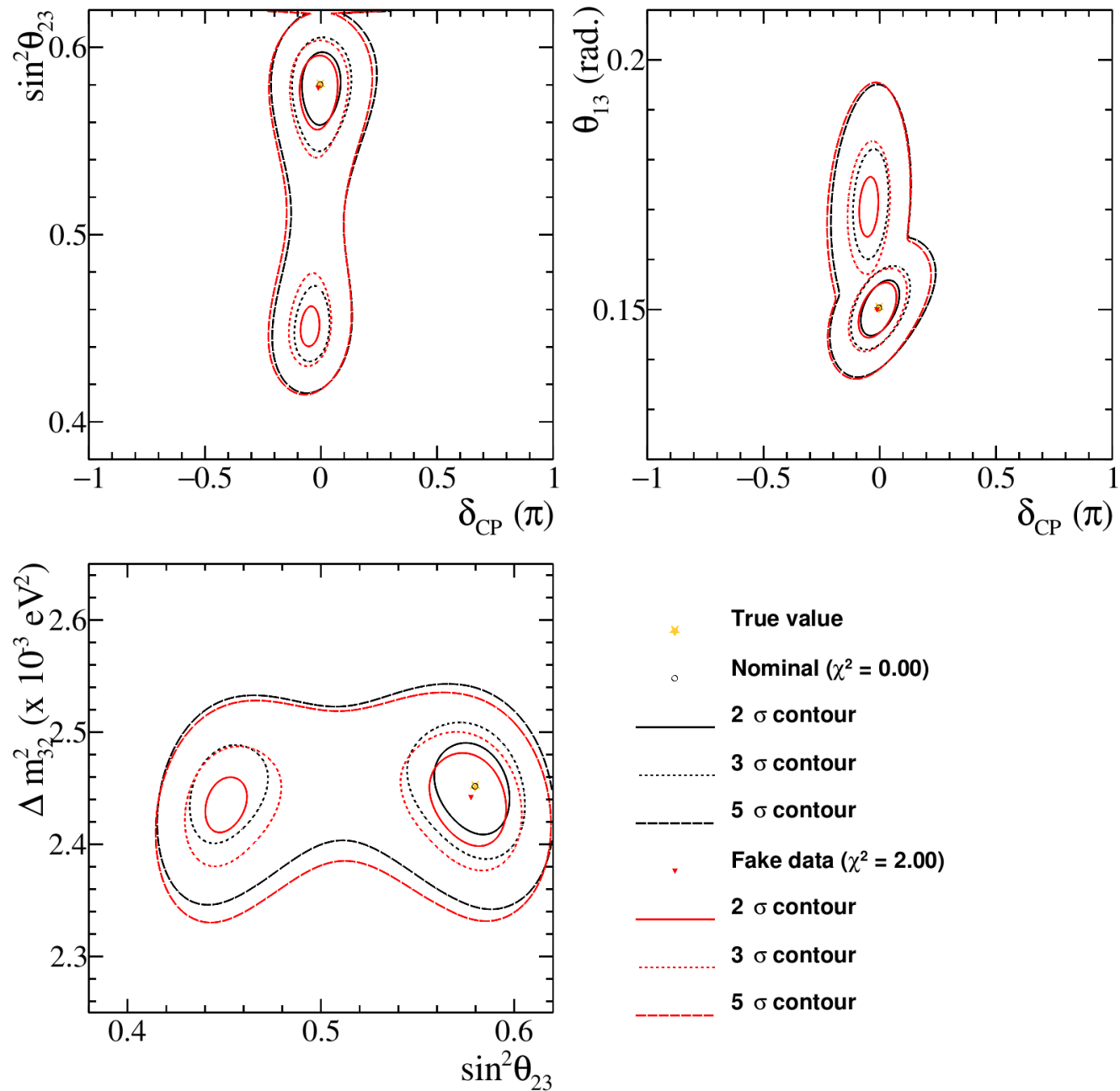
# CrazyFlux\_FHC, ssth23:0.5



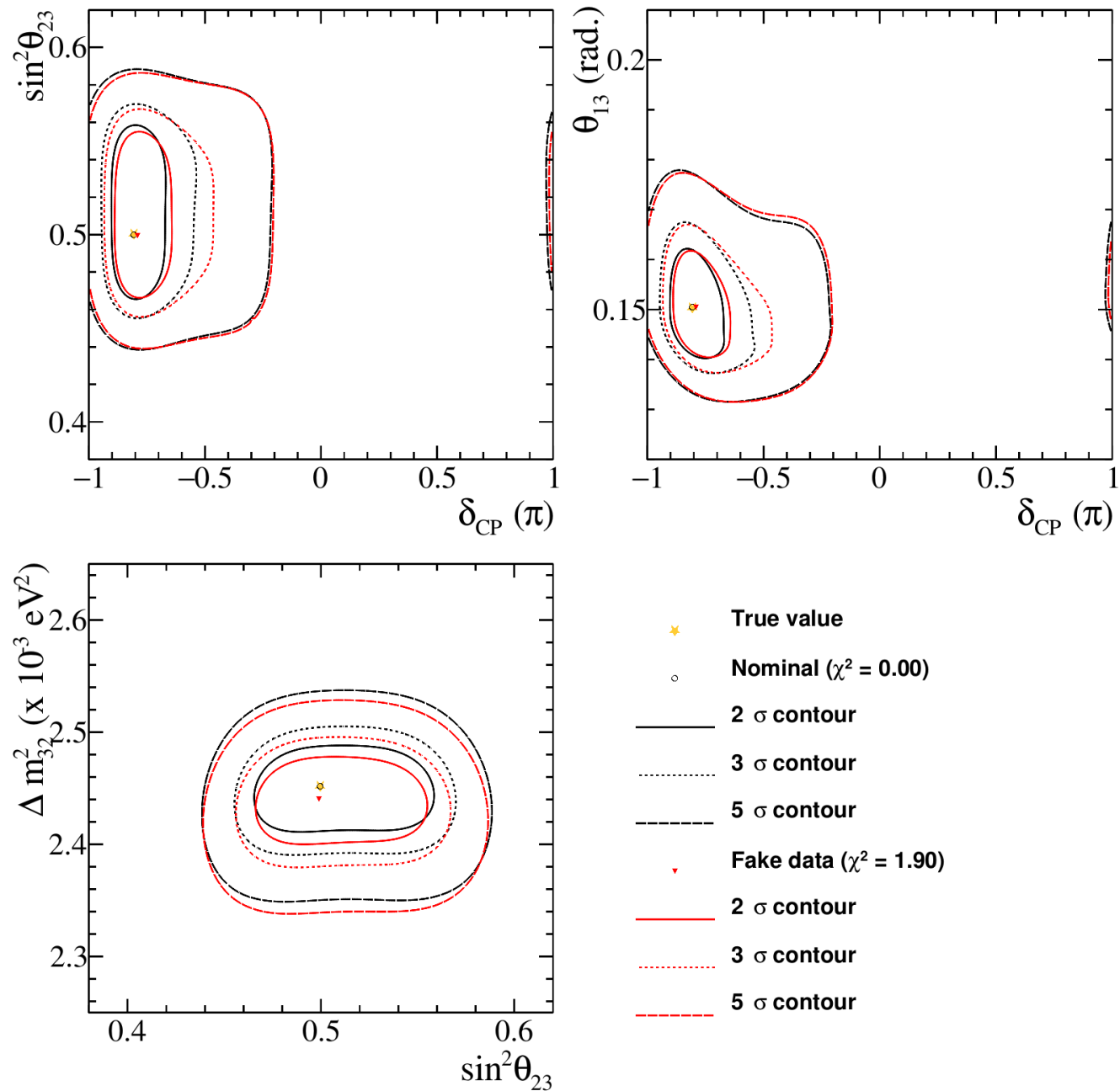
# CrazyFlux\_RHC, asimov0



# CrazyFlux\_RHC, deltapi:0

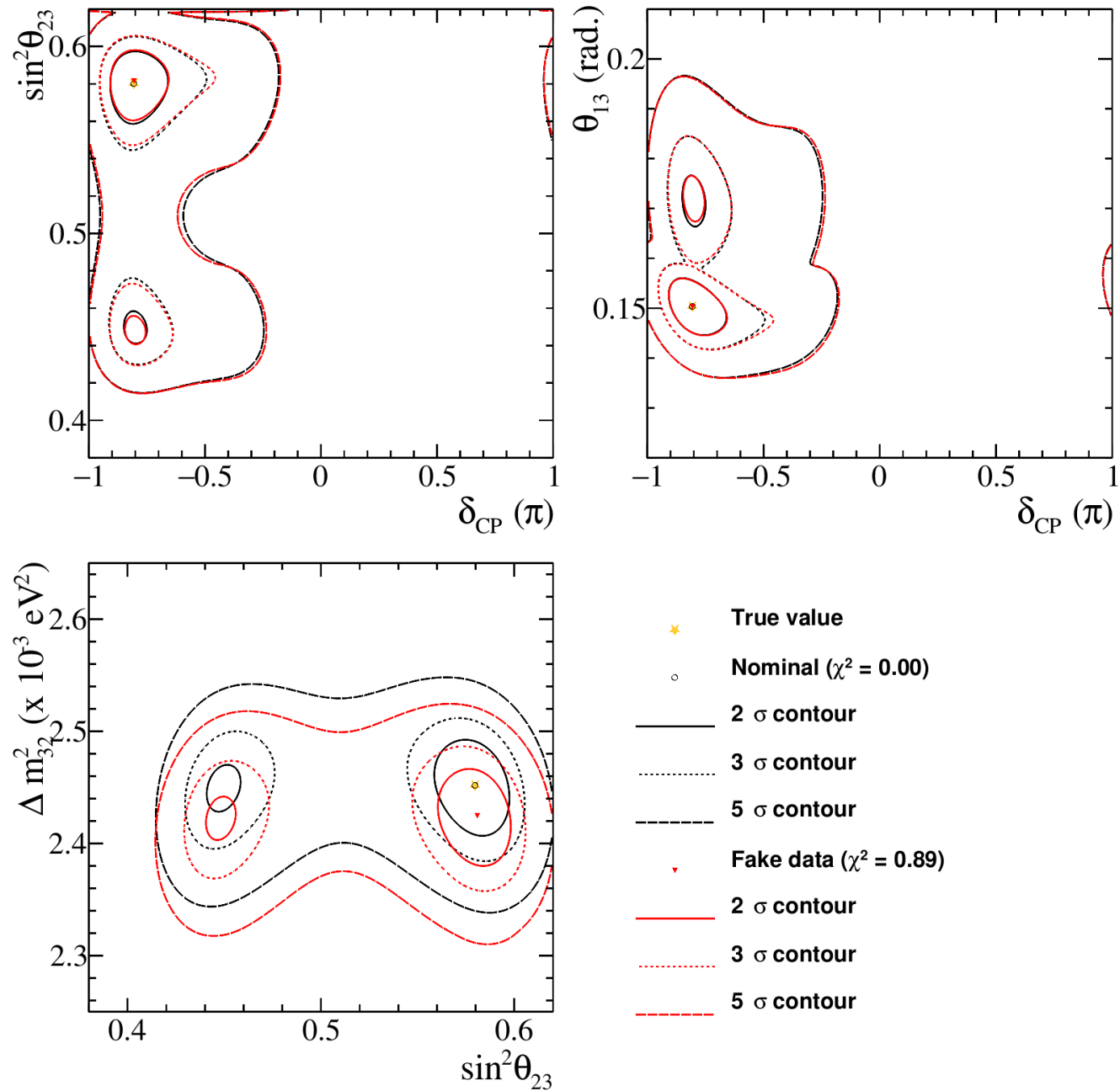


# CrazyFlux\_RHC, ssth23:0.5

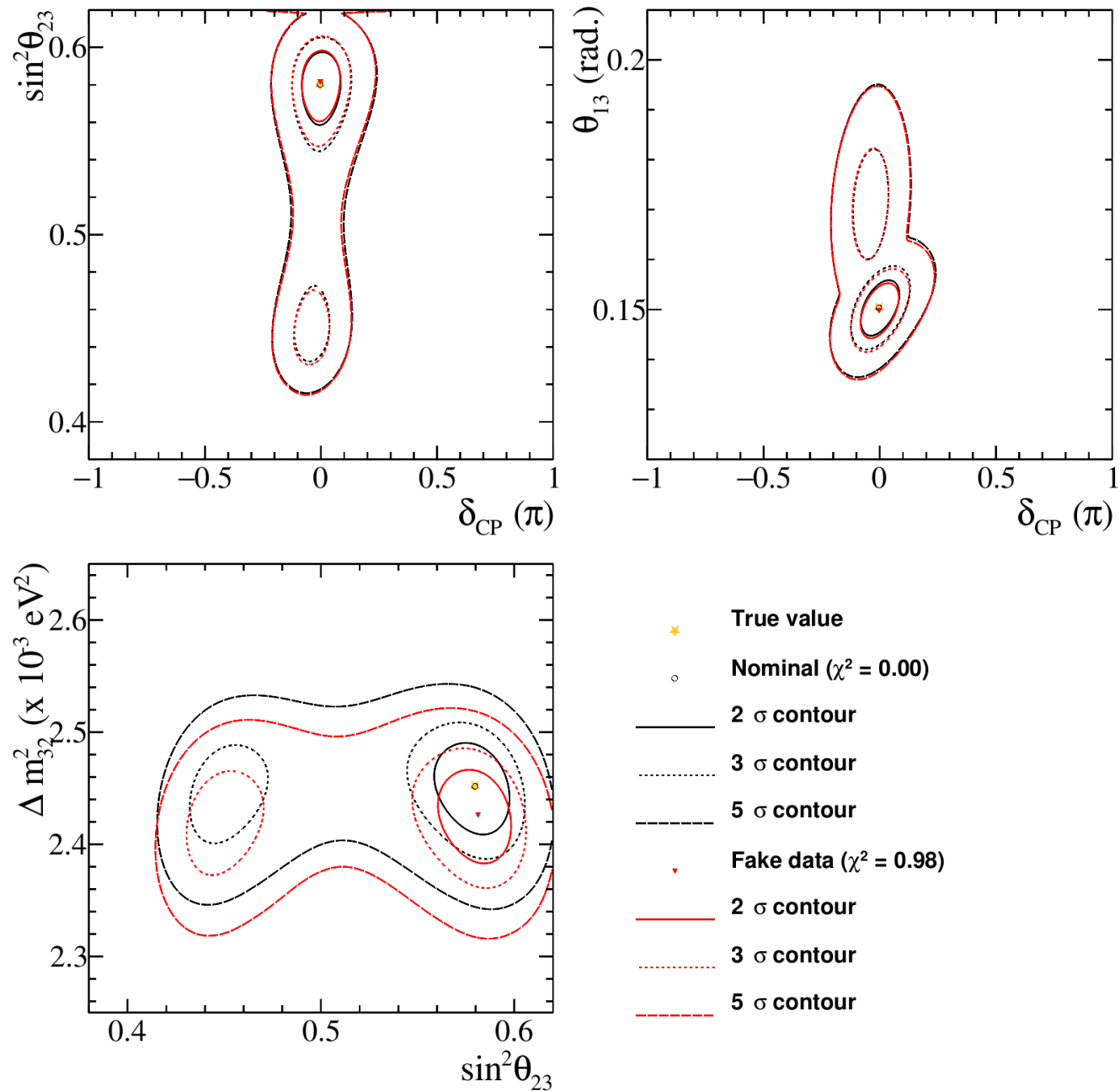




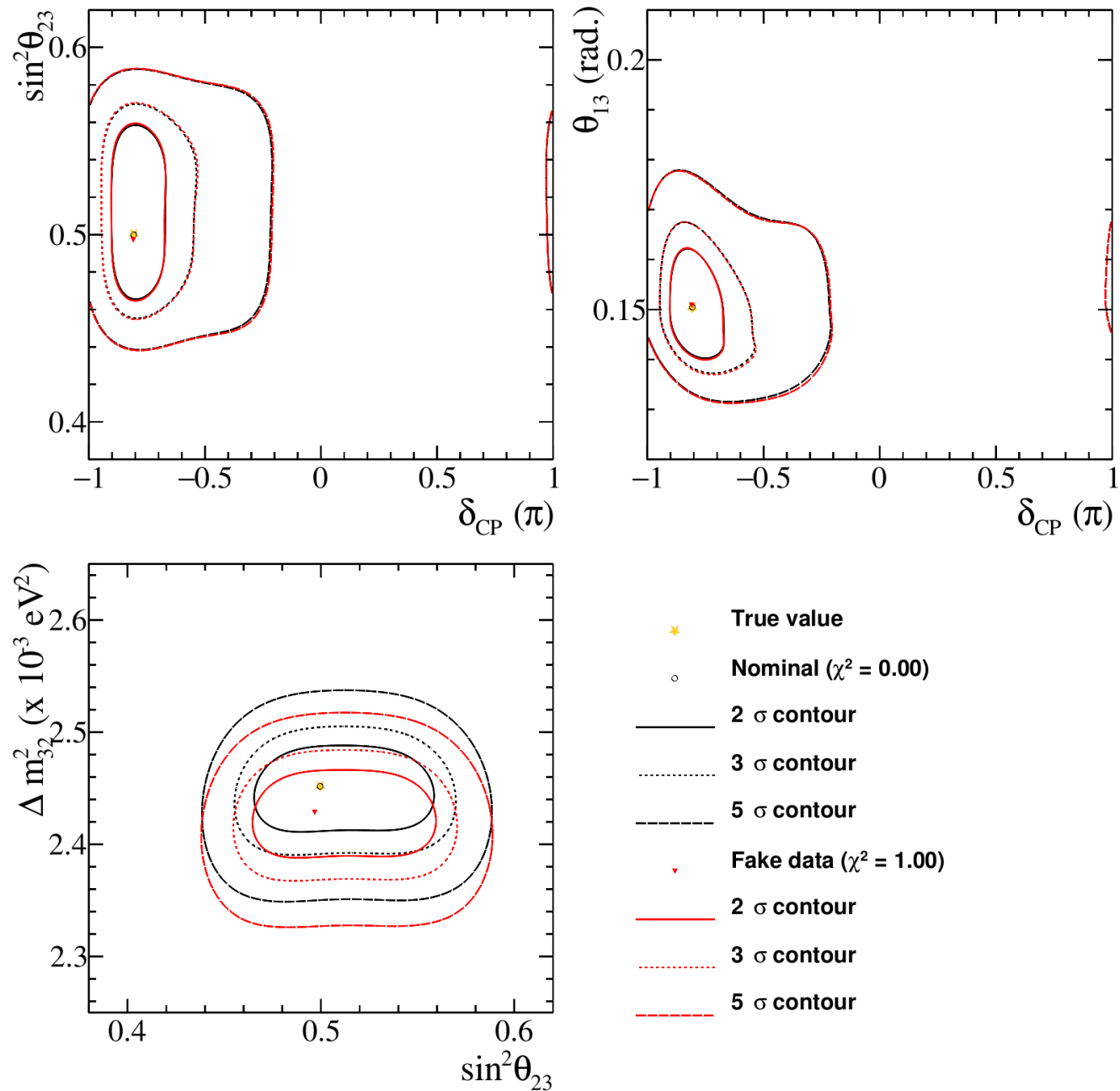
# CrazyFlux\_BOTH, asimov0



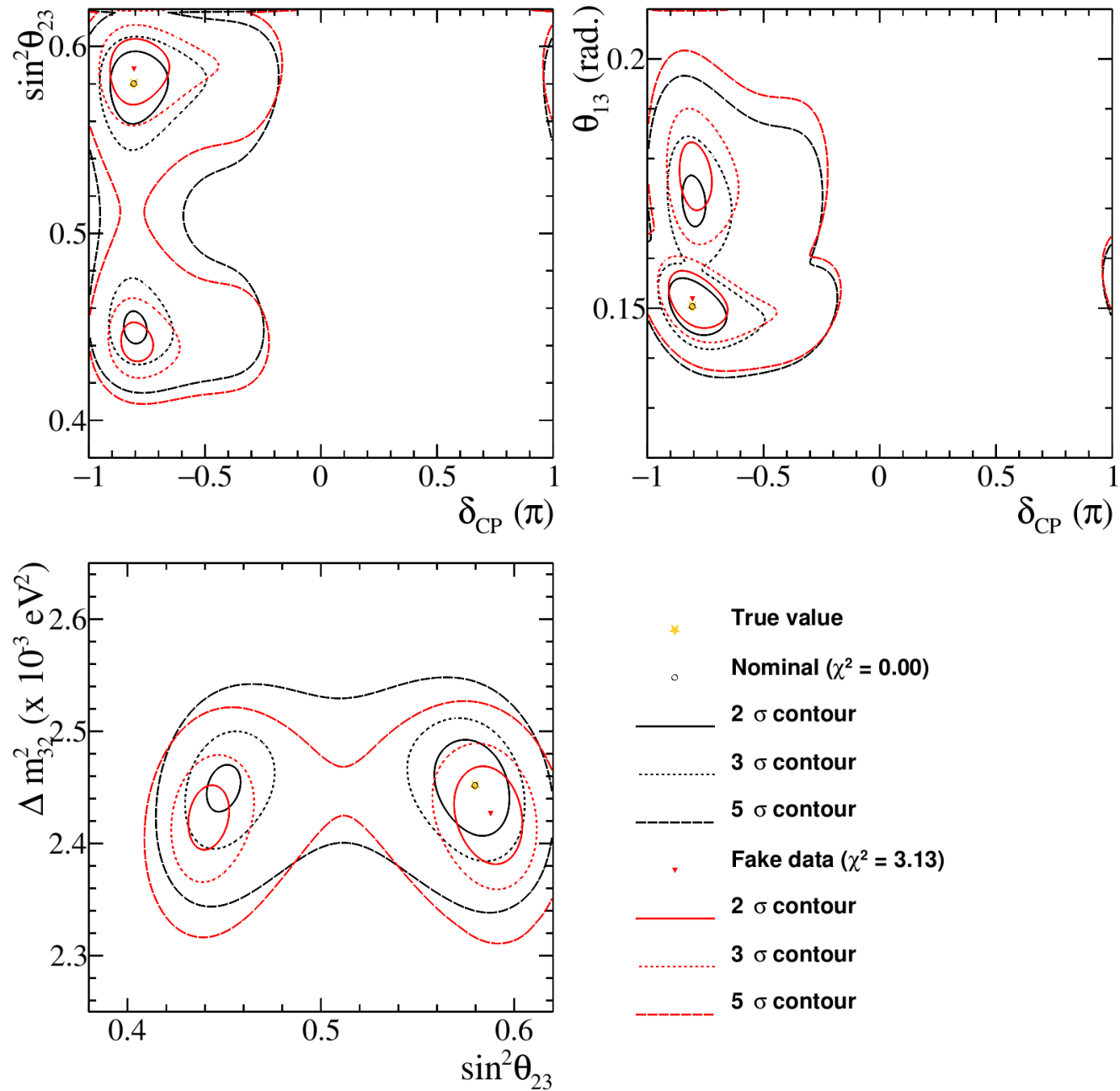
# CrazyFlux\_BOTH, deltapi:0



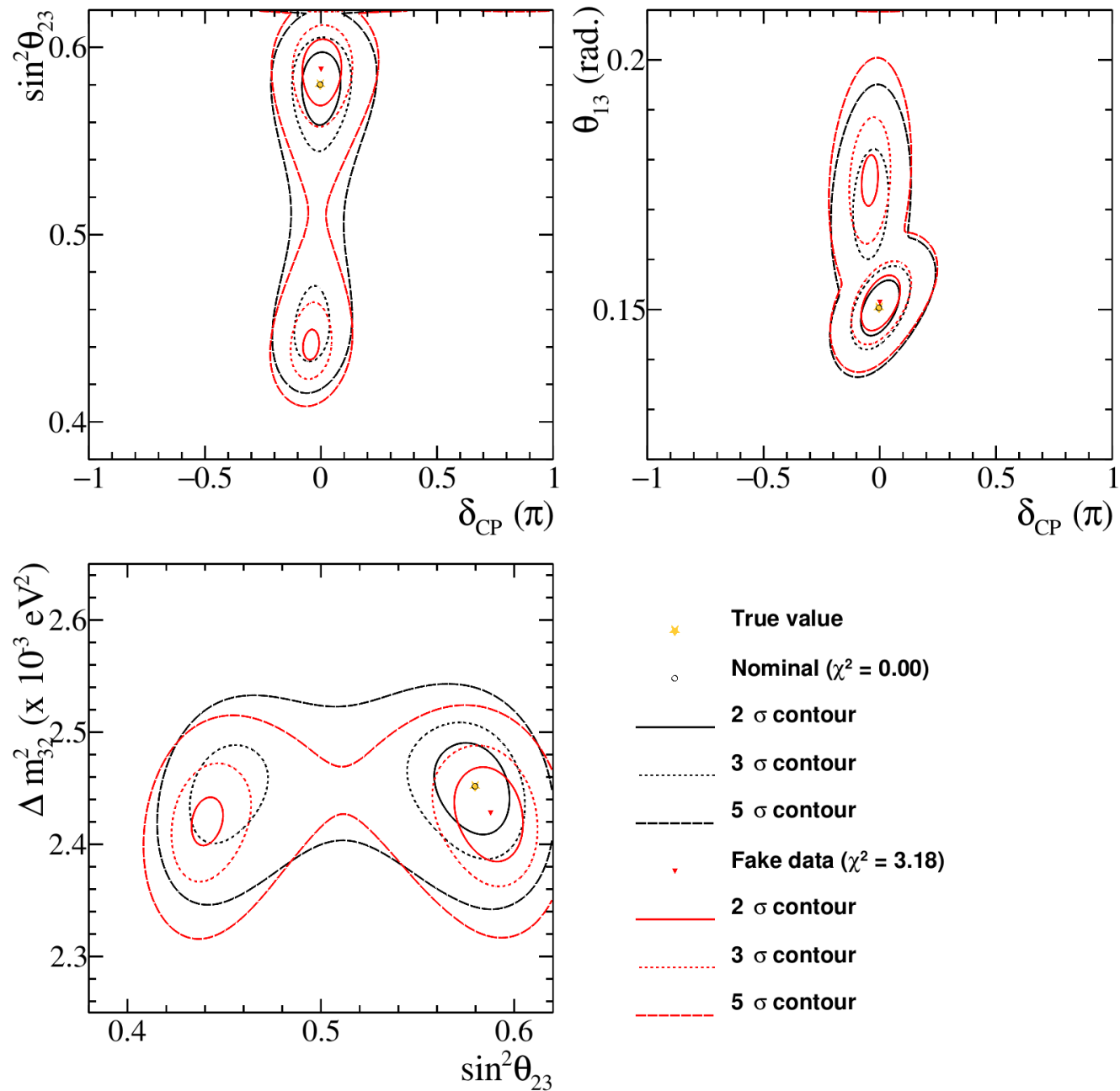
# CrazyFlux\_BOTH, ssth23:0.5



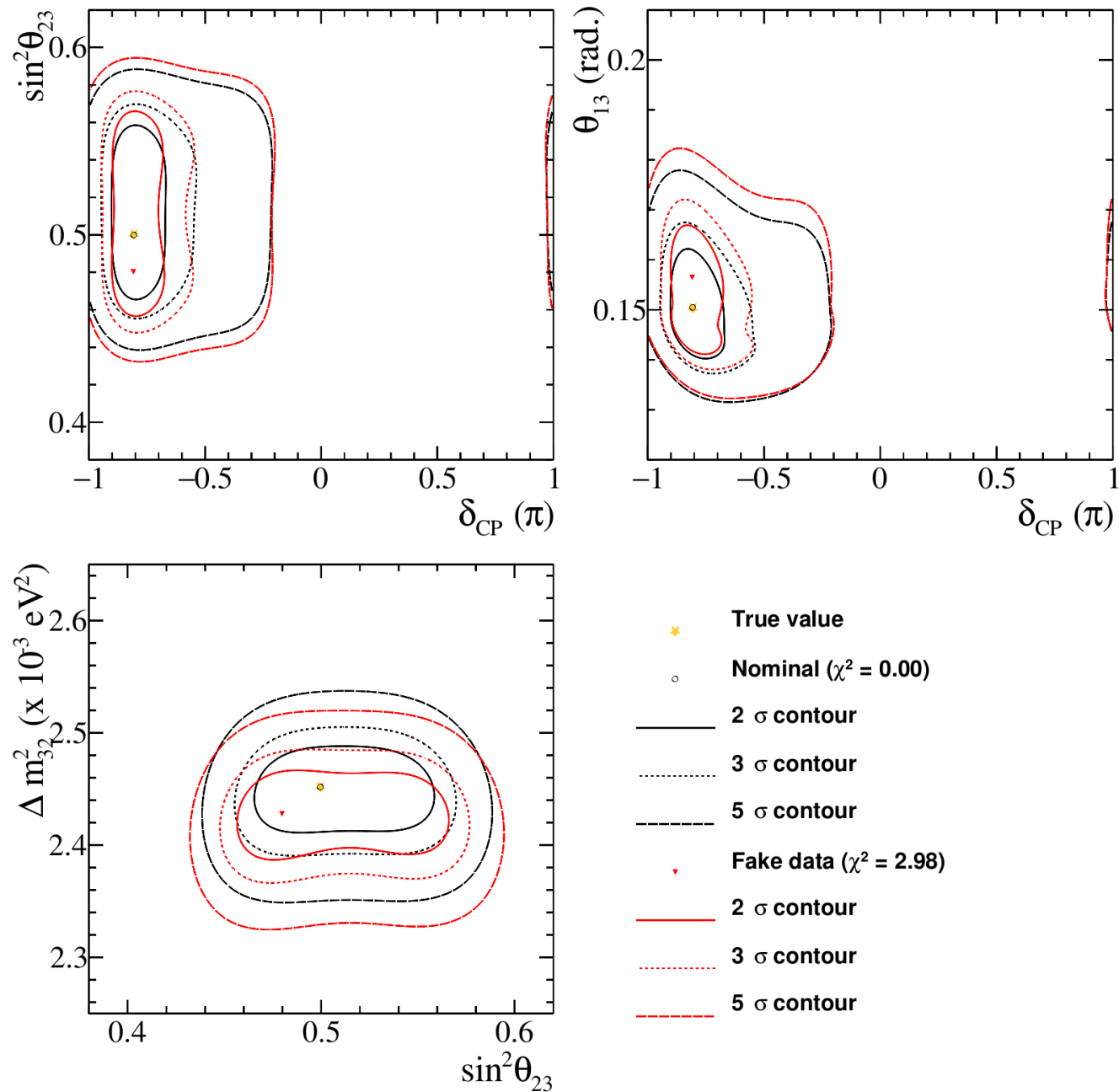
# MissingProtonFakeData, asimov0



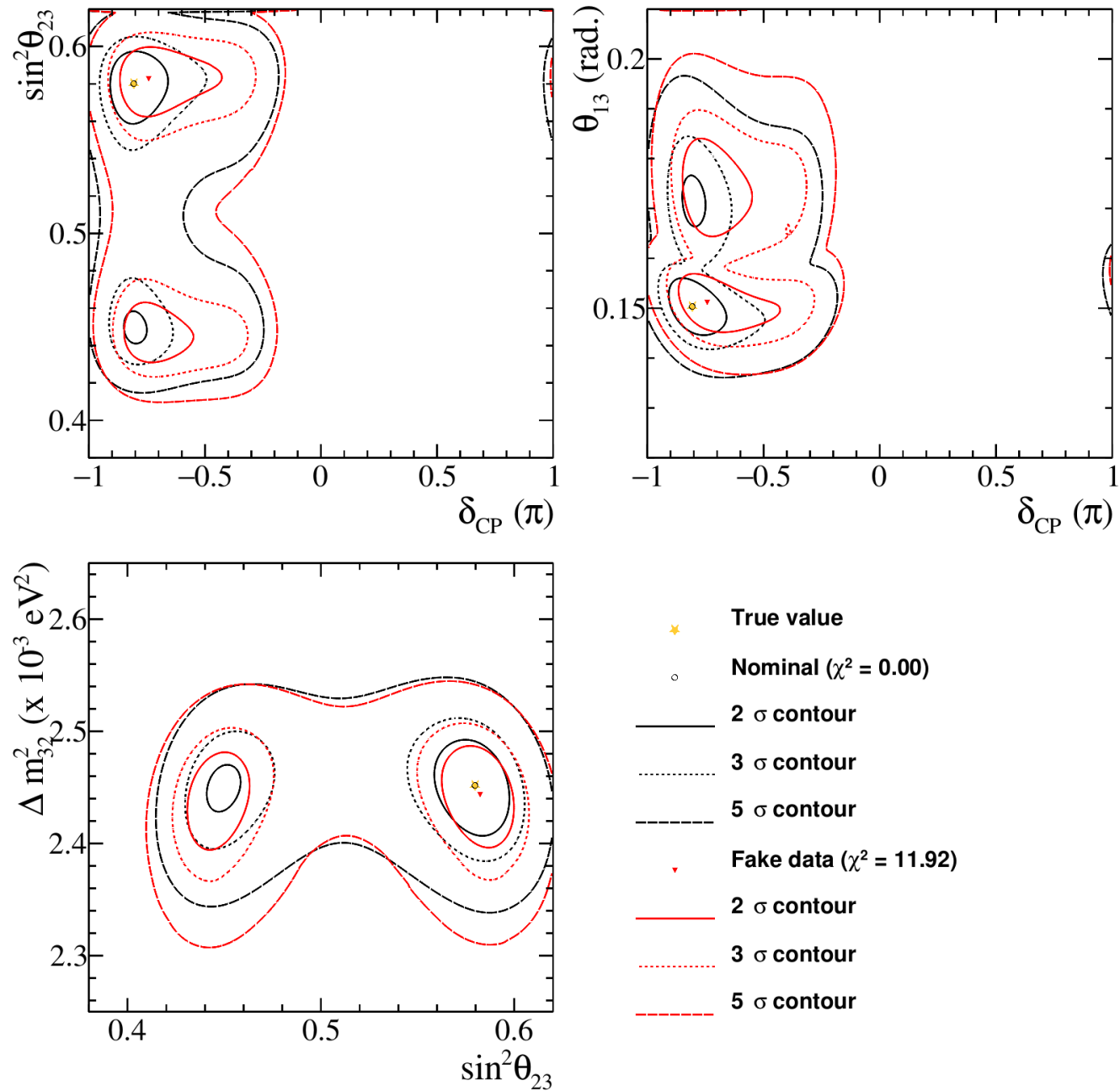
# MissingProtonFakeData, deltapi:0



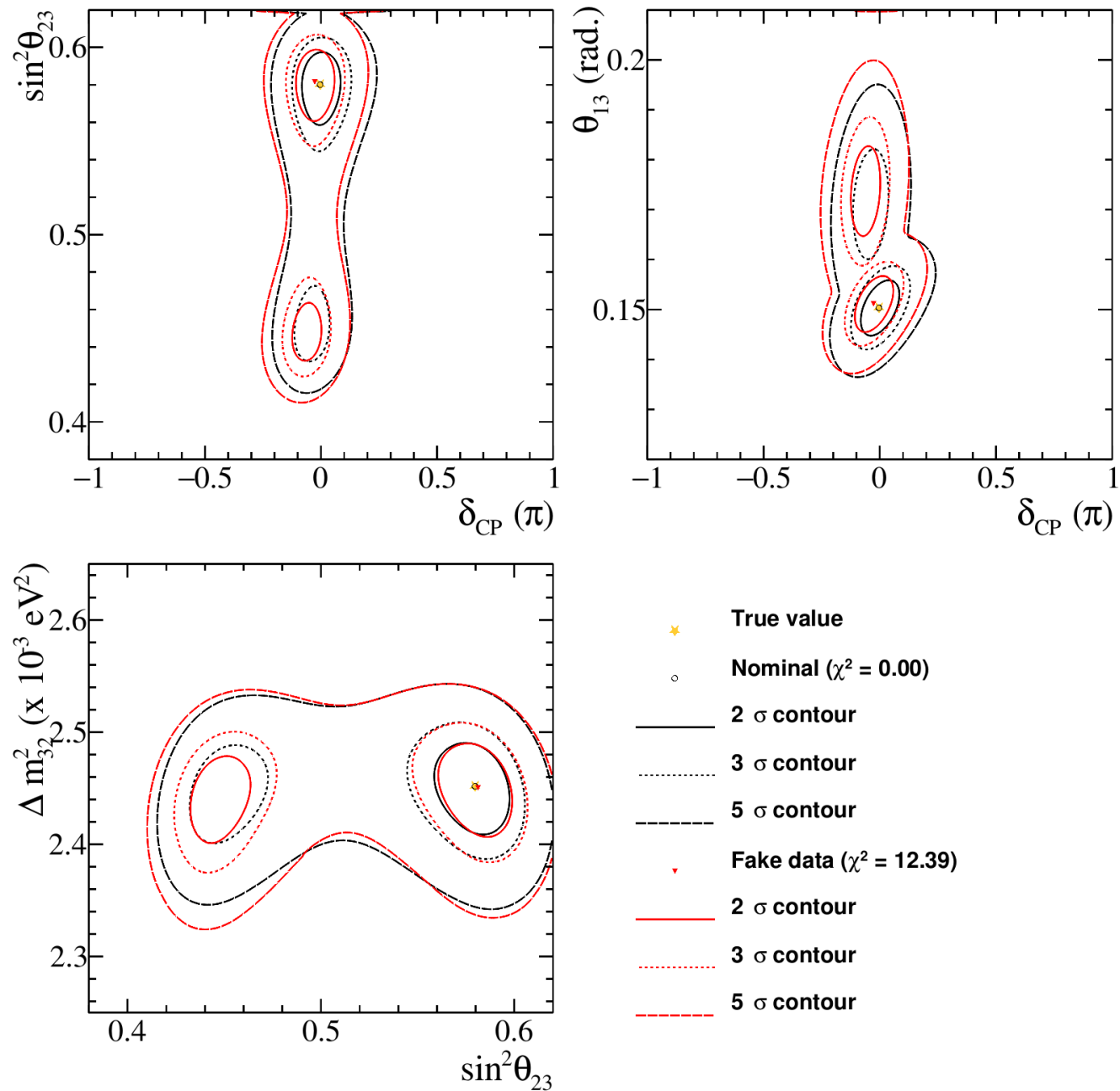
# MissingProtonFakeData, ssth23:0.5



# NuWroReweightFakeData, asimov0



# NuWroReweightFakeData, deltapi:0





# NuWroReweightFakeData, ssth23:0.5

