## Re-weighting of GENIE dials using the NUISANCE tool

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Table: nuiscomp 50k events

Execution time	Likelihood Joint FCN
20s	350.246
23s	350.246
24s	350.246
23s	350.246
23s	350.246
24s	350.246
25s	350.246
25s	350.246
22s	350.246
25s	350.246
26s	350.246
143s	337.662
242s	309.801
295s	337.248
	23s 24s 23s 23s 23s 24s 25s 25s 25s 25s 26s 143s 242s

## card

genie\_parameter < param > -1.0 -3.0 3.0 1.0 FIX

sample MINERvA\_CC1pip\_XSec\_1DTpi\_nu\_fluxcorr GENIE:/PATH/gntp.MINERvA\_fhc\_numu.CH.2500000.1.ghep.root sample MINERvA\_CC1pip\_XSec\_1Dth\_nu\_2017 GENIE:/PATH/gntp.MINERvA\_fhc\_numu.CH.2500000.1.ghep.root sample MINERvA\_CC1pip\_XSec\_1Dthmu\_nu\_2017 GENIE:/PATH/gntp.MINERvA\_fhc\_numu.CH.2500000.1.ghep.root sample MINERvA\_CC1pip\_XSec\_1Dthmu\_nu\_2017 GENIE:/PATH/gntp.MINERvA\_fhc\_numu.CH.2500000.1.ghep.root sample MINERvA\_CC1pip\_XSec\_1DQ2\_nu\_2017 GENIE:/PATH/gntp.MINERvA\_fhc\_numu.CH.2500000.1.ghep.root sample MINERvA\_CC1pip\_XSec\_1DQ2\_nu\_2017 GENIE:/PATH/gntp.MINERvA\_fhc\_numu.CH.2500000.1.ghep.root