Update on quad results with source

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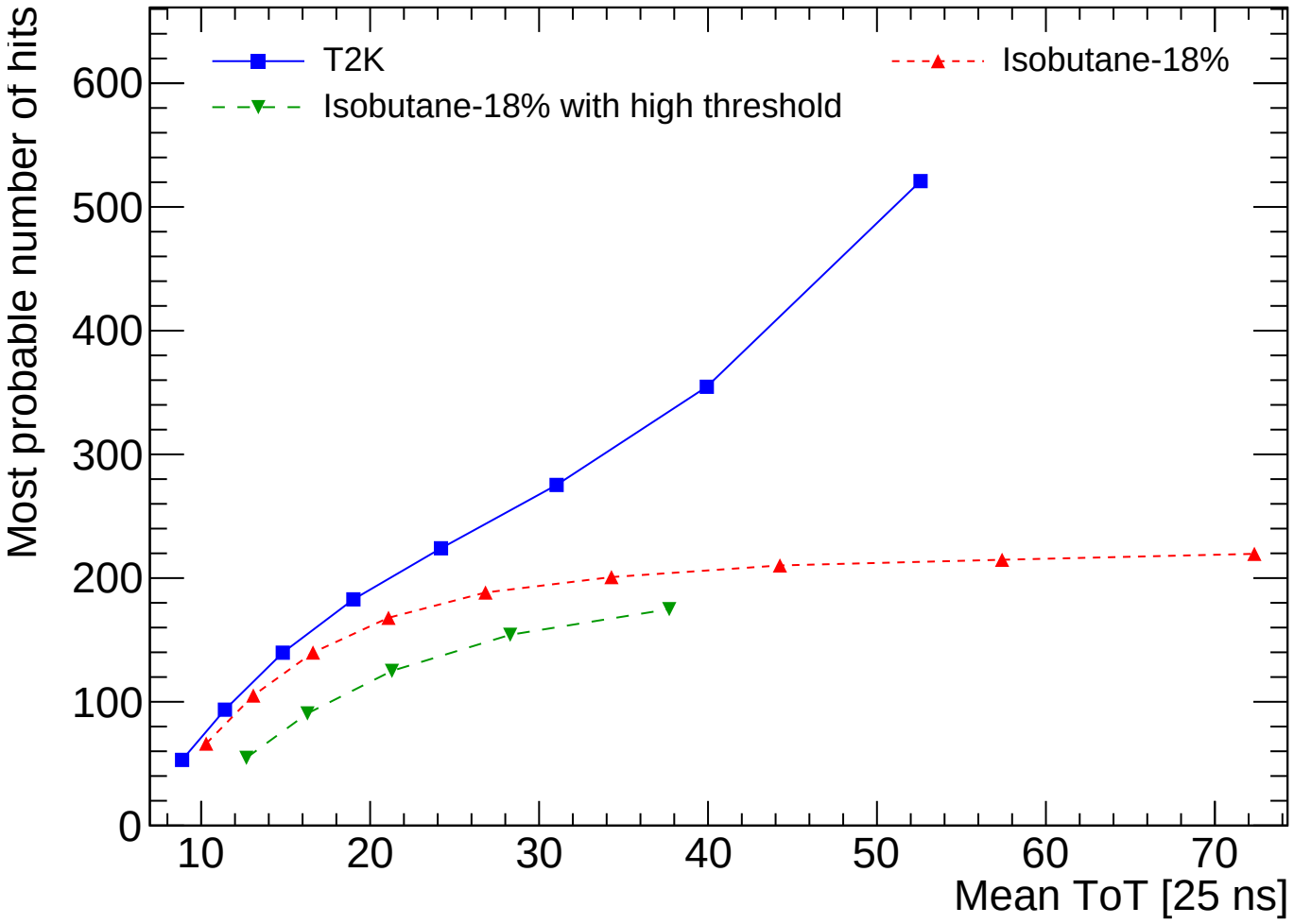
Lepcol meeting

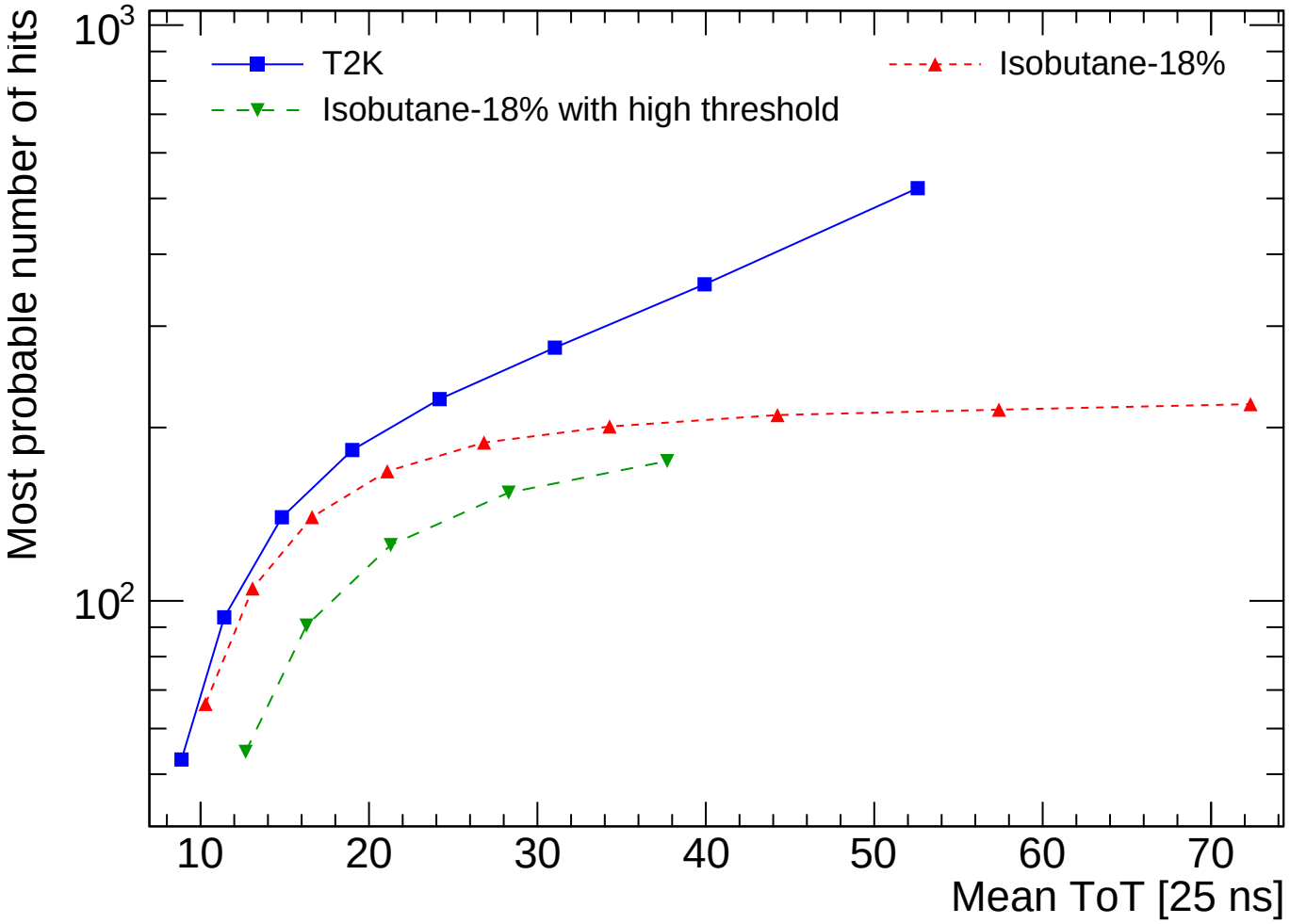
June 3, 2019

Number of hits



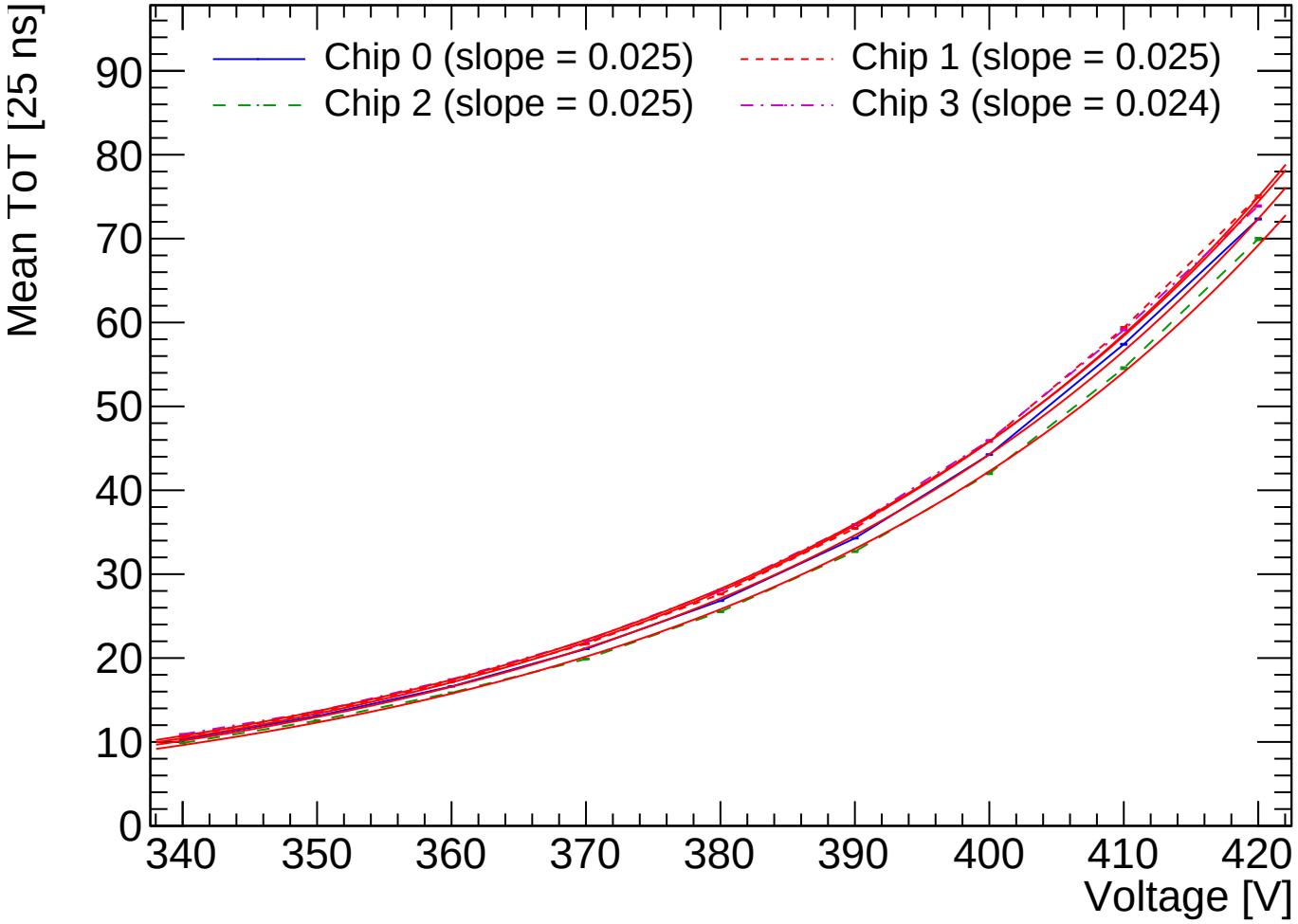
Number of hits

in log scale



Slope of gain

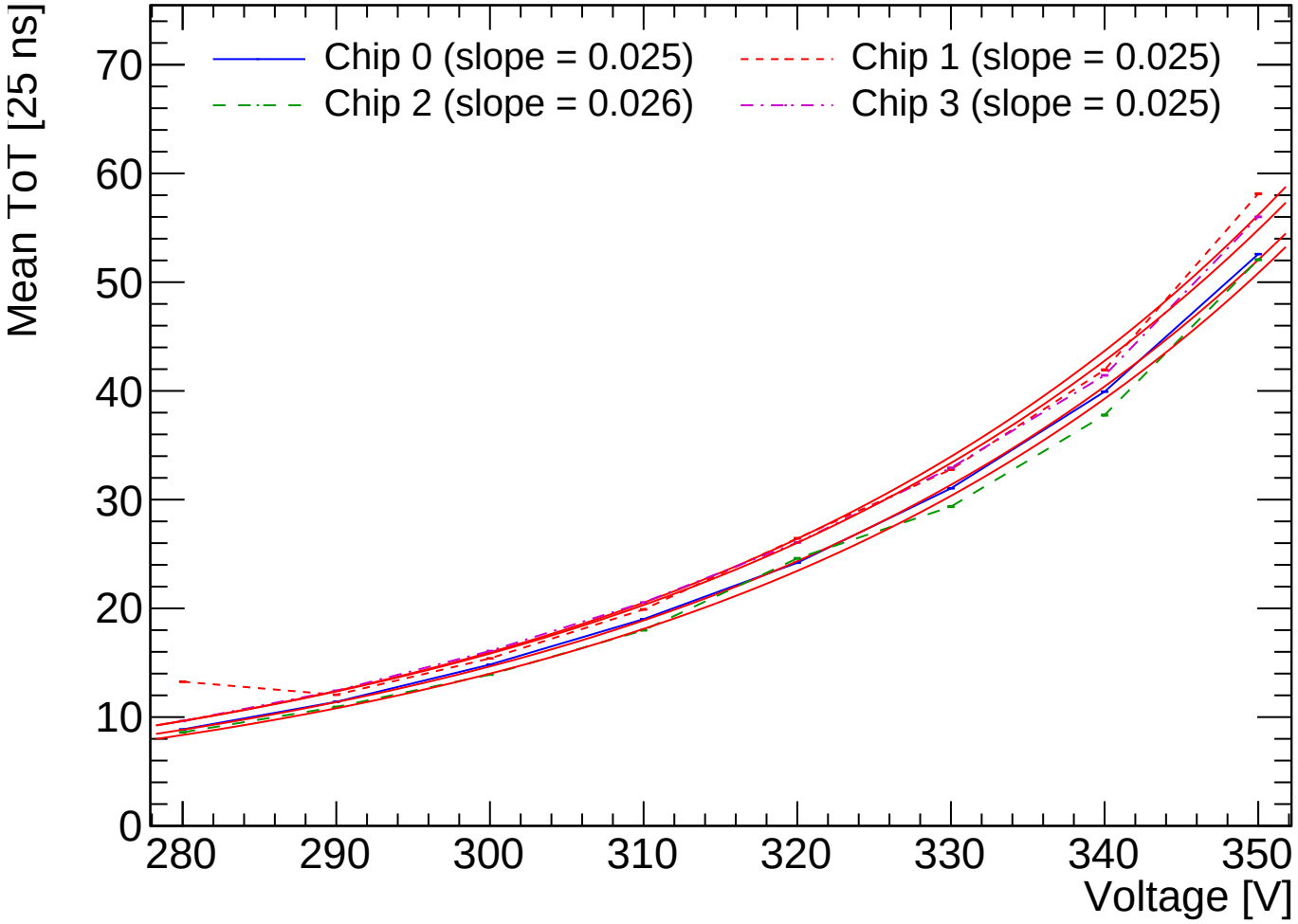
Isobutane 18%



Voltage increase to double ToT (gain) is $\log 2/0.025 = 28$ V

Slope of gain

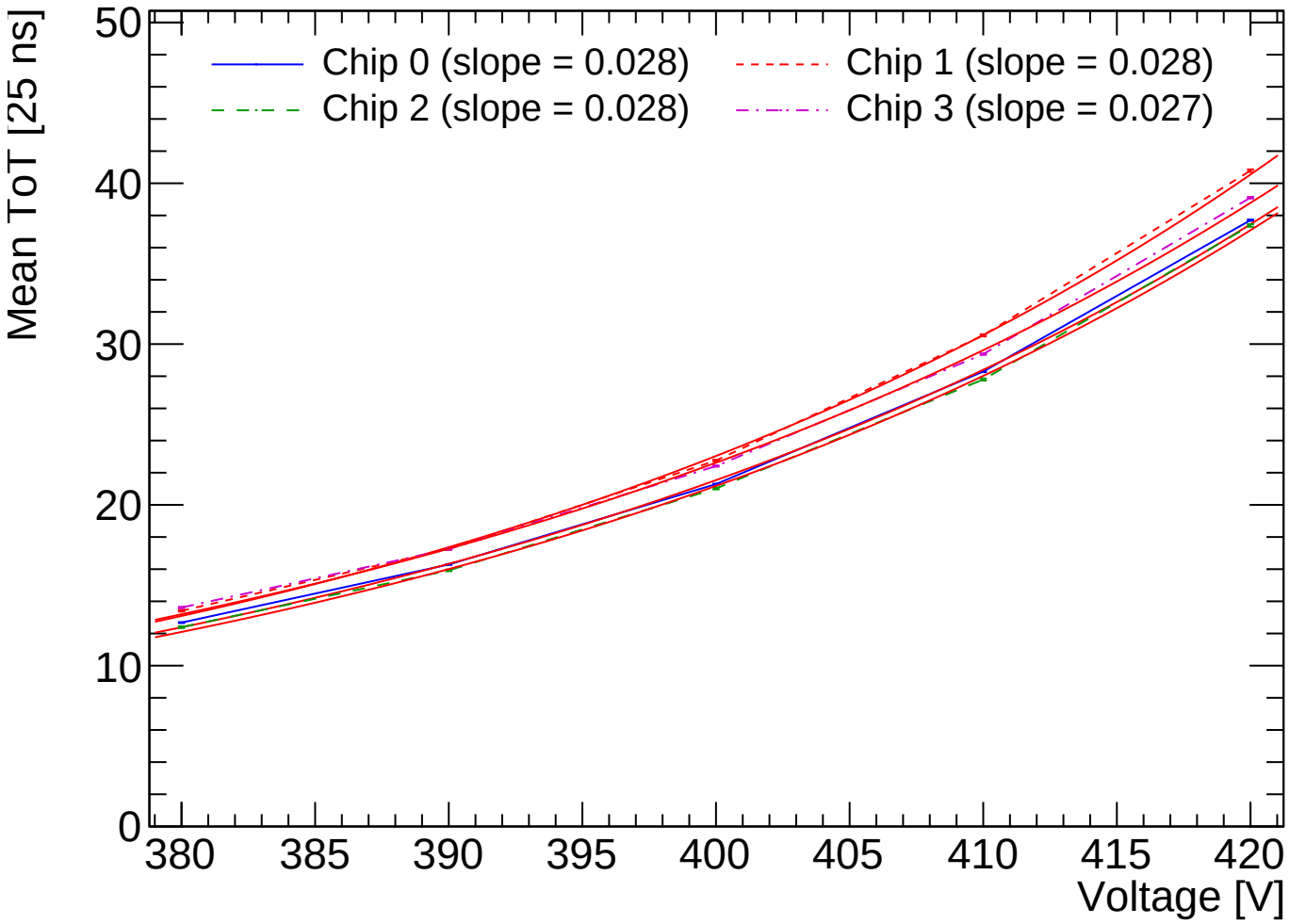
T2K



Voltage increase to double ToT (gain) is $\log 2/0.025 = 28$ V

Slope of gain

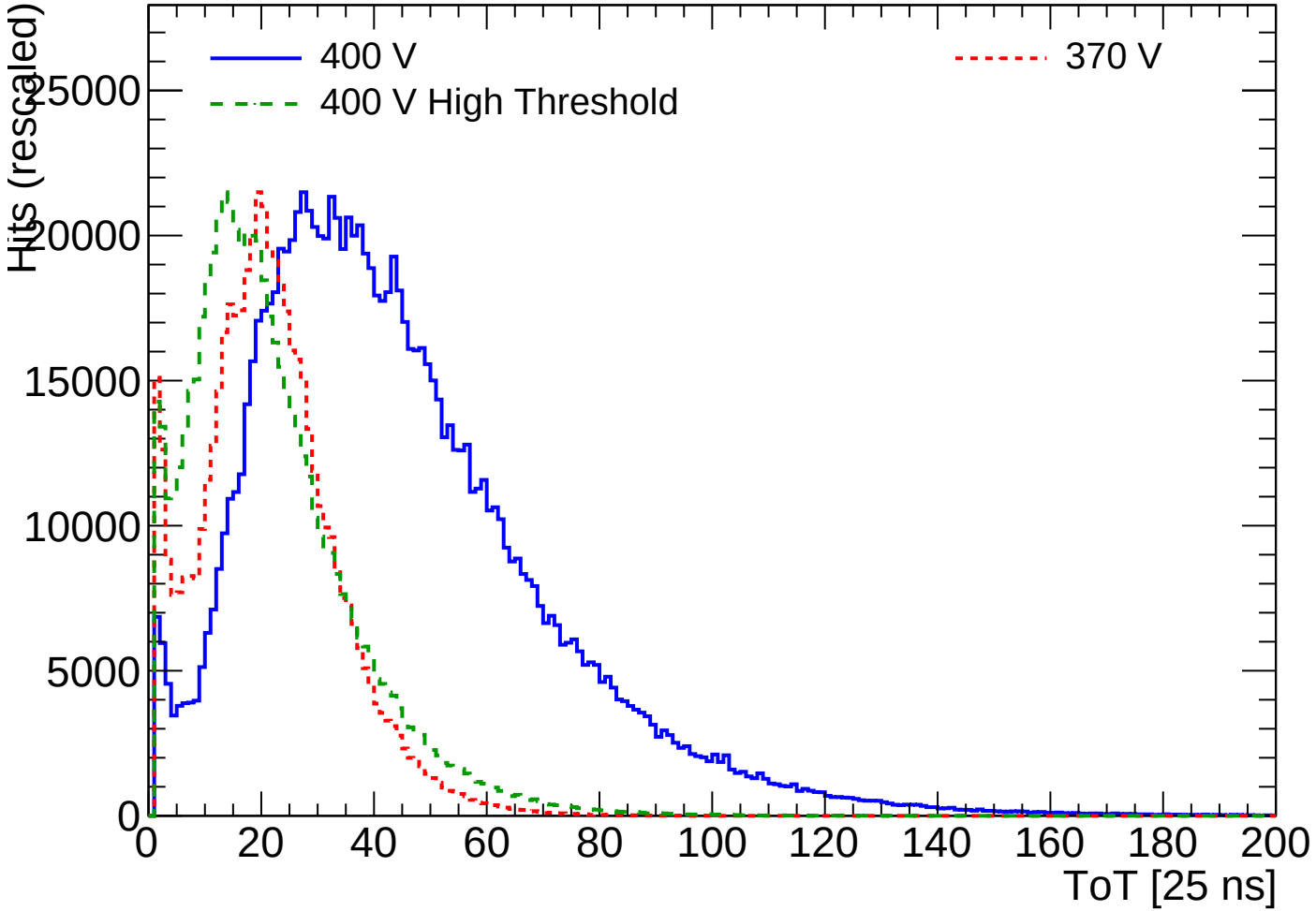
Isobutane 18% high threshold



Voltage increase to double ToT (gain) is $\log 2/0.025 = 25$ V

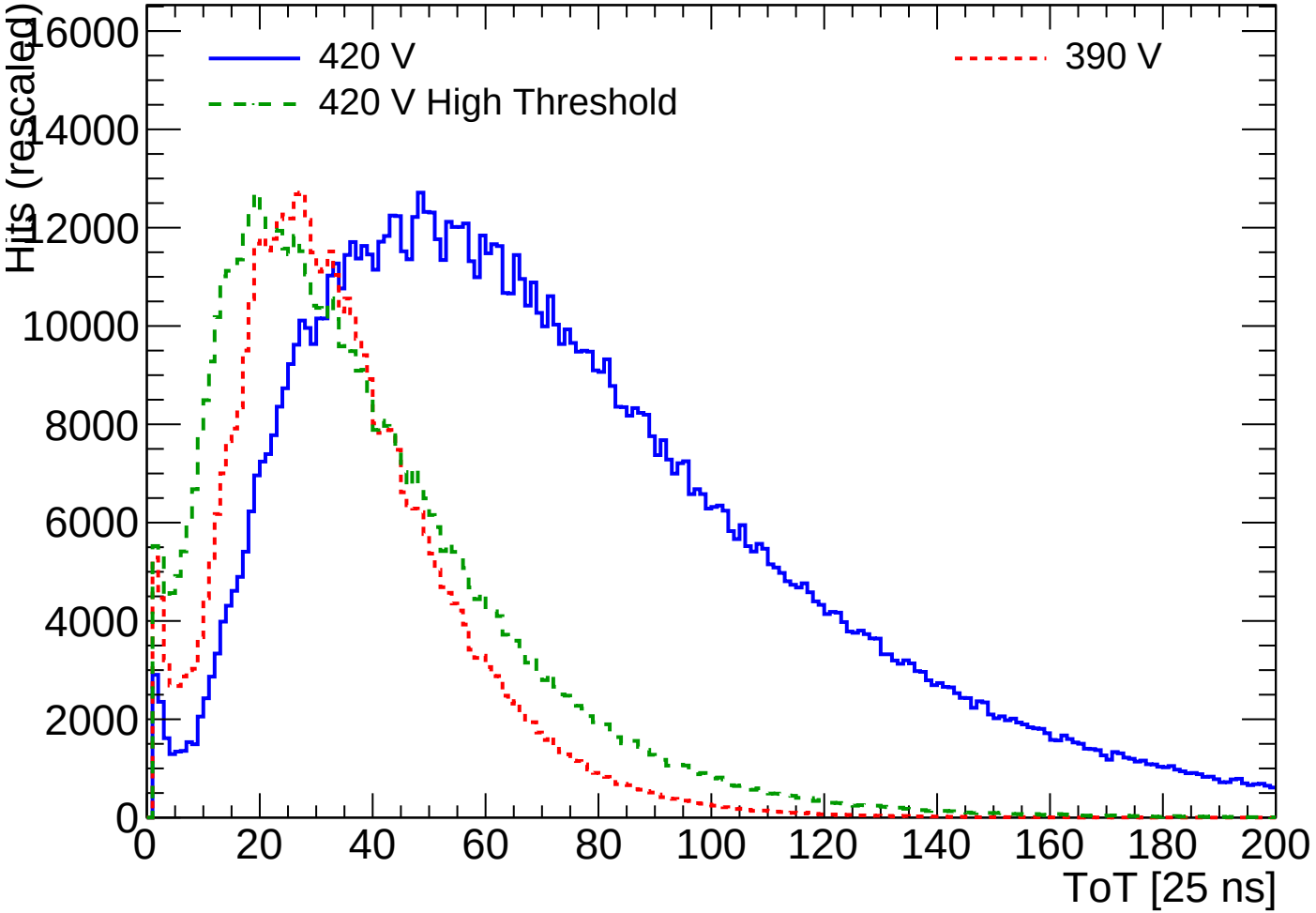
ToT shape

Isobutane at 400 V



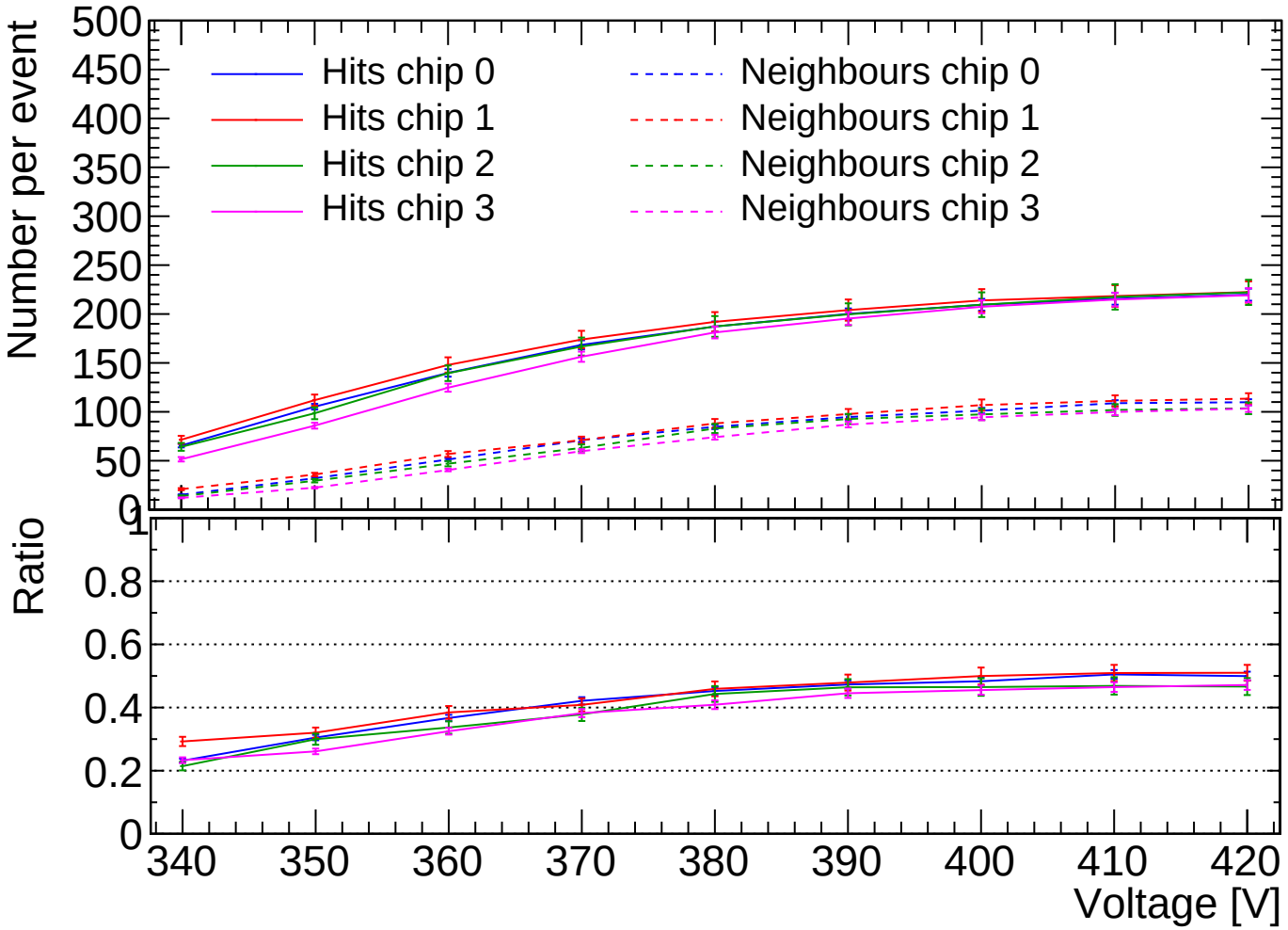
ToT shape

Isobutane at 420 V



Number of hits and neighbours

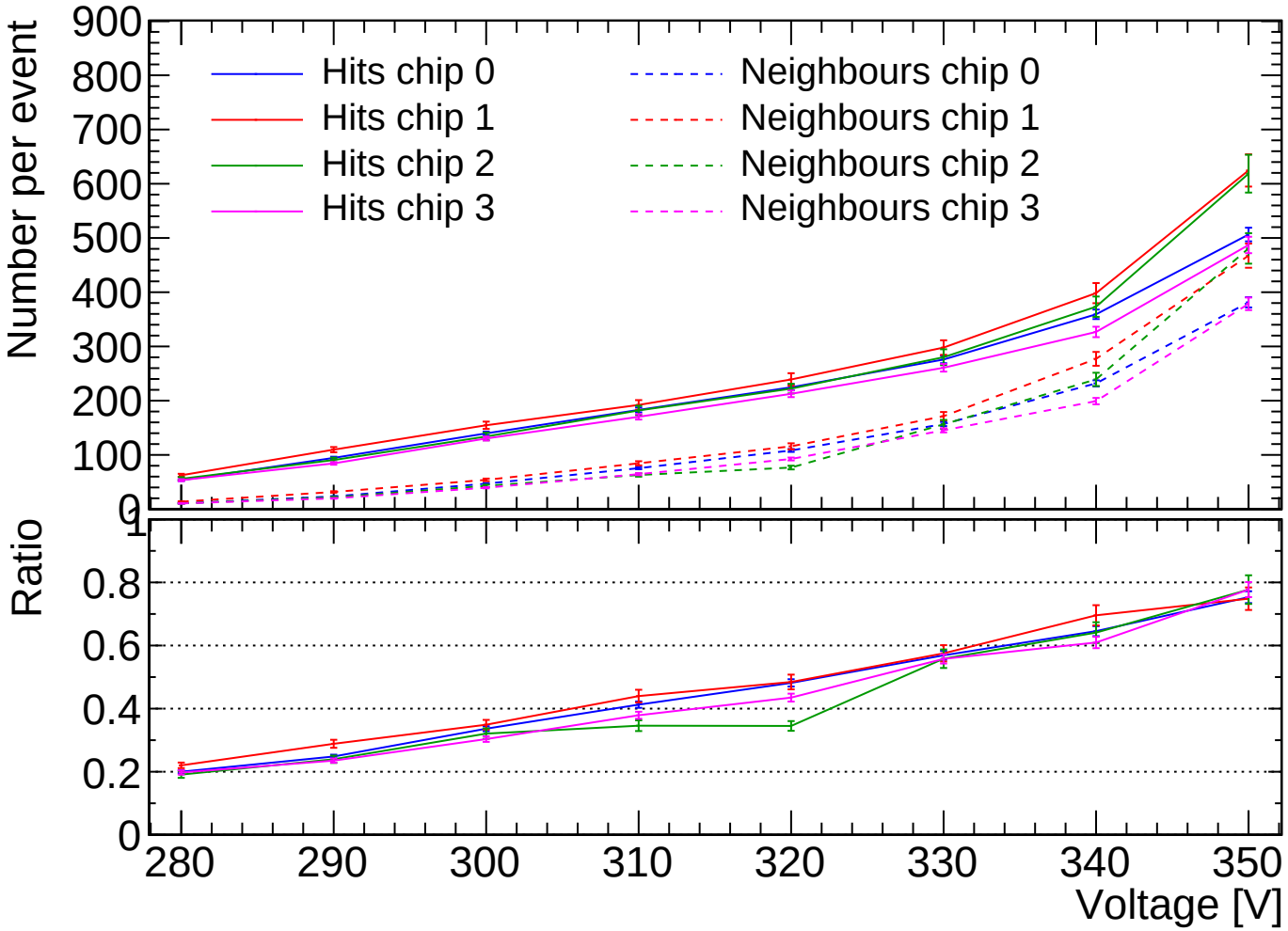
Isobutane 18%



The number of hits that have one of the four direct neighbours

Number of hits and neighbours

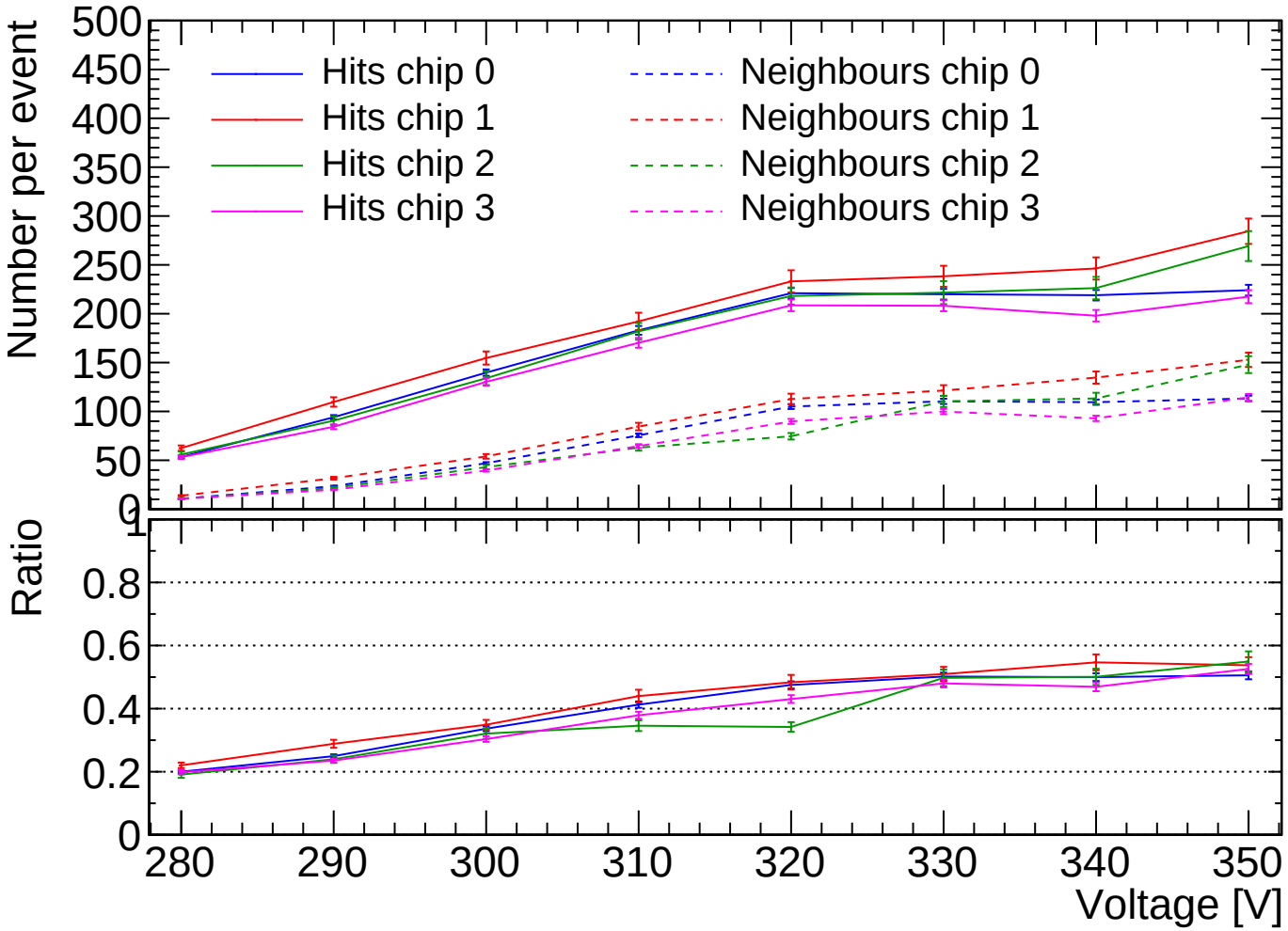
T2K



The number of hits that have one of the four direct neighbours

Number of hits and neighbours

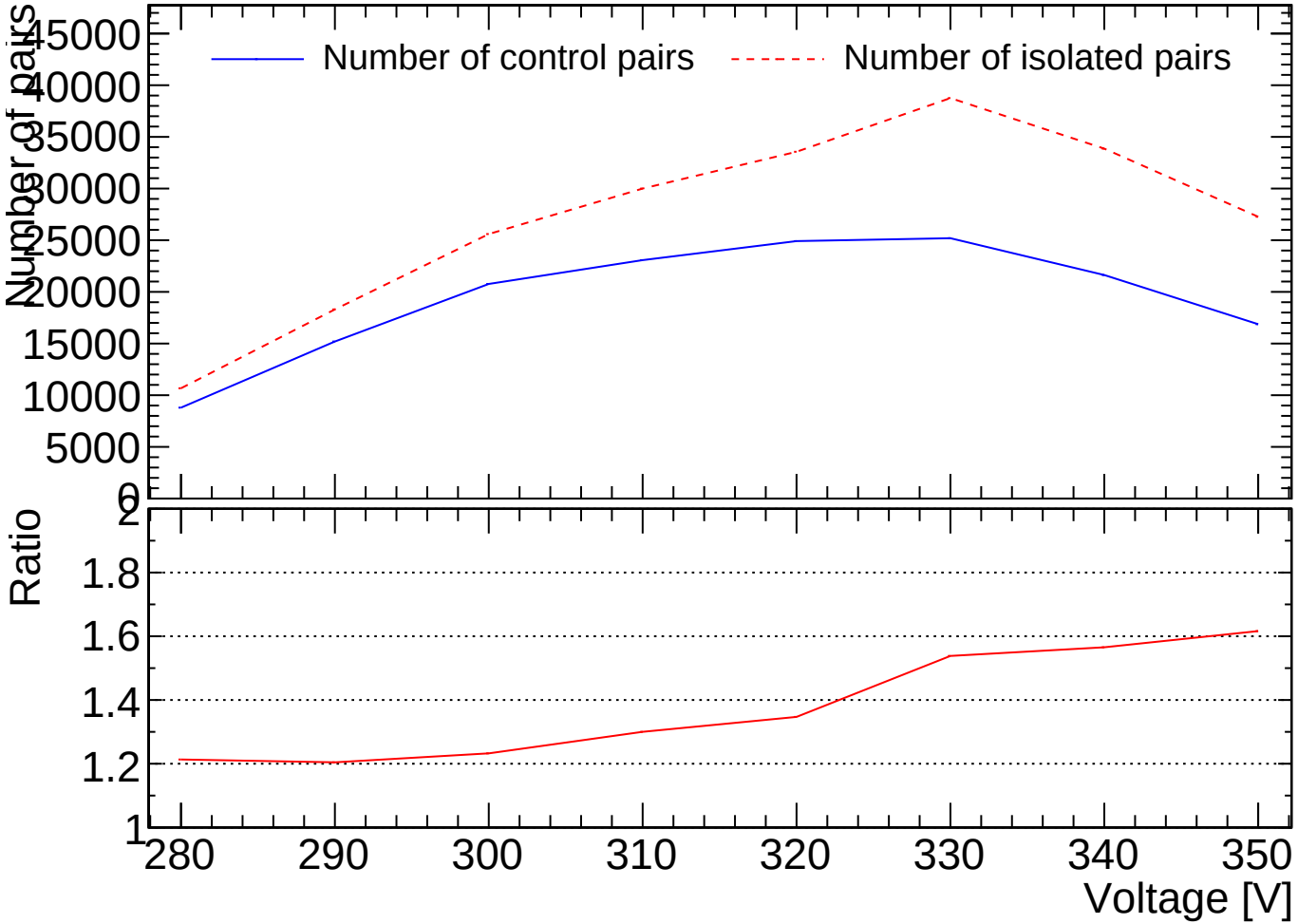
T2K after dropping hits



Drop hits is such that the number of hits is ∼220 on chip 0

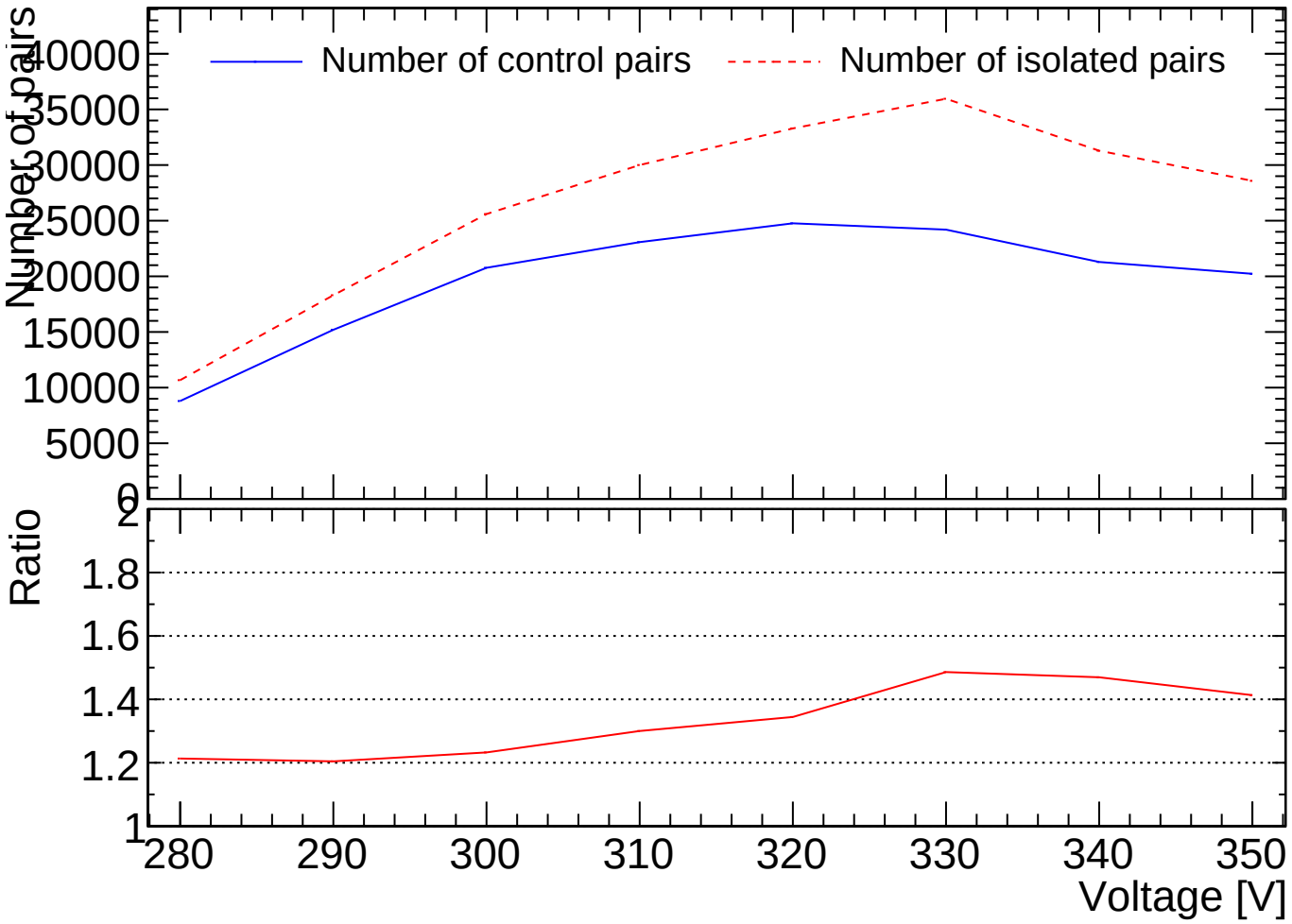
Topological cross talk analysis

T2K gas



Topological cross talk analysis

T2K gas after dropping hits



Increase is less above 330 V, but doesn't fall back to the level of 320 V.