

Group meeting
15/03/2018

ν cross sections at high energies

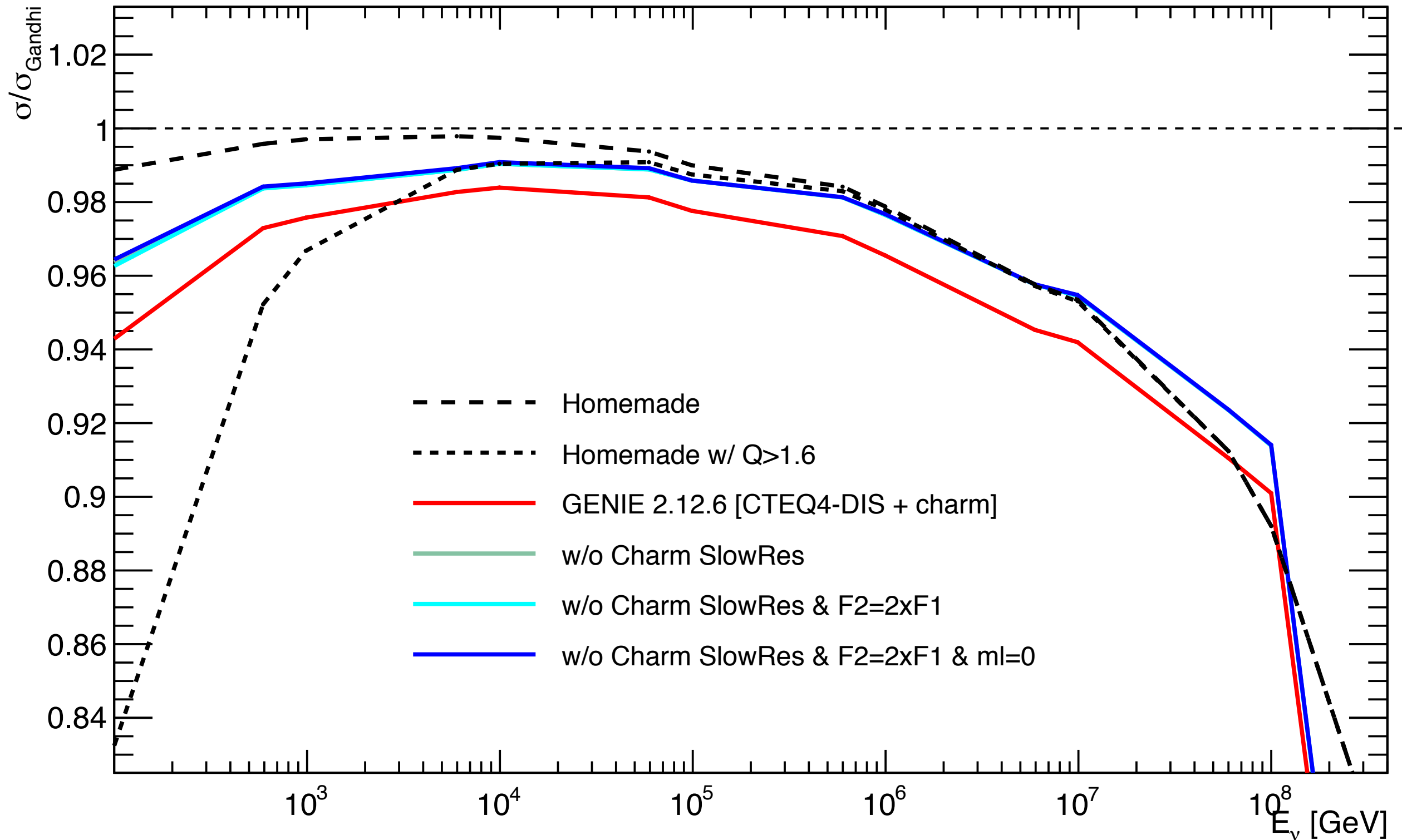
Alfonso Garcia



Nikhef

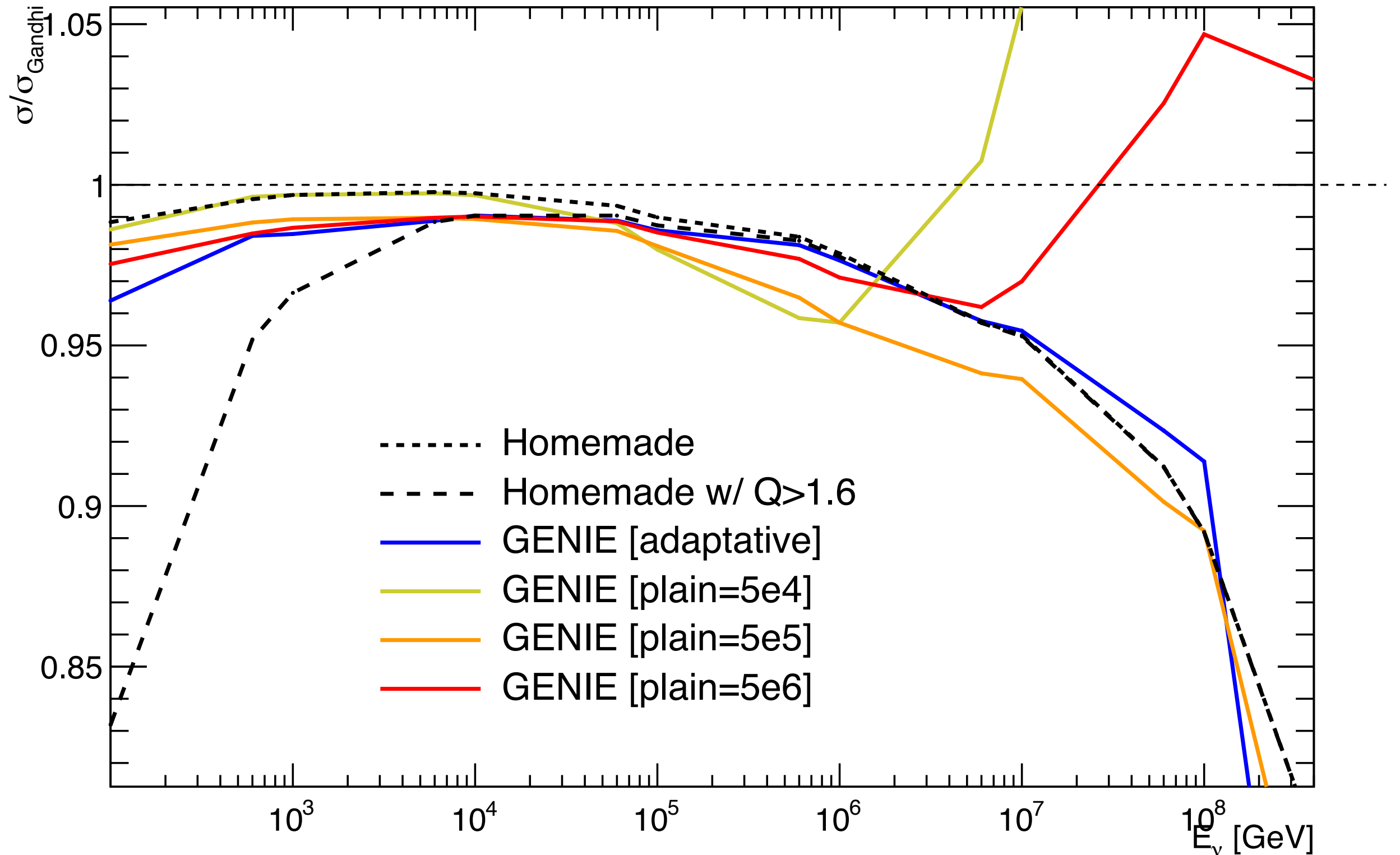
GENIE:

ν_μ cross section



GENIE:

ν_μ cross section



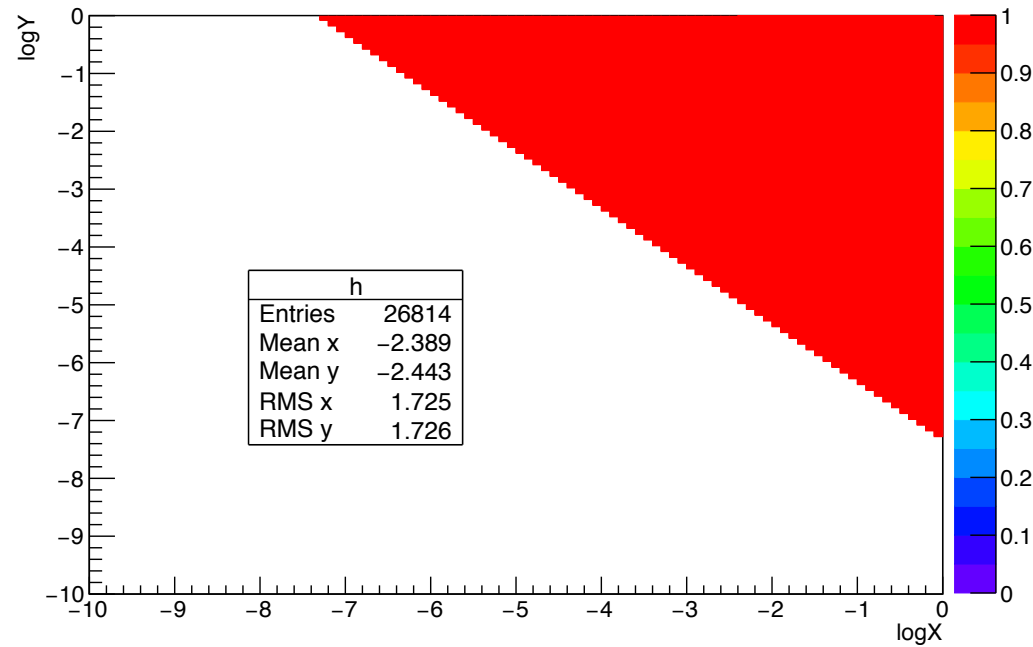
GENIE:

$$M_{\text{nucleon}} < W < \text{Sqrt}(s) - M_{\text{lepton}}$$

$$Q^2_{\text{max/min}} = 2E_{\text{nu}}[\text{Elepton}_{\text{min}} \pm \text{Mom}_{\text{lepton,min}}]$$

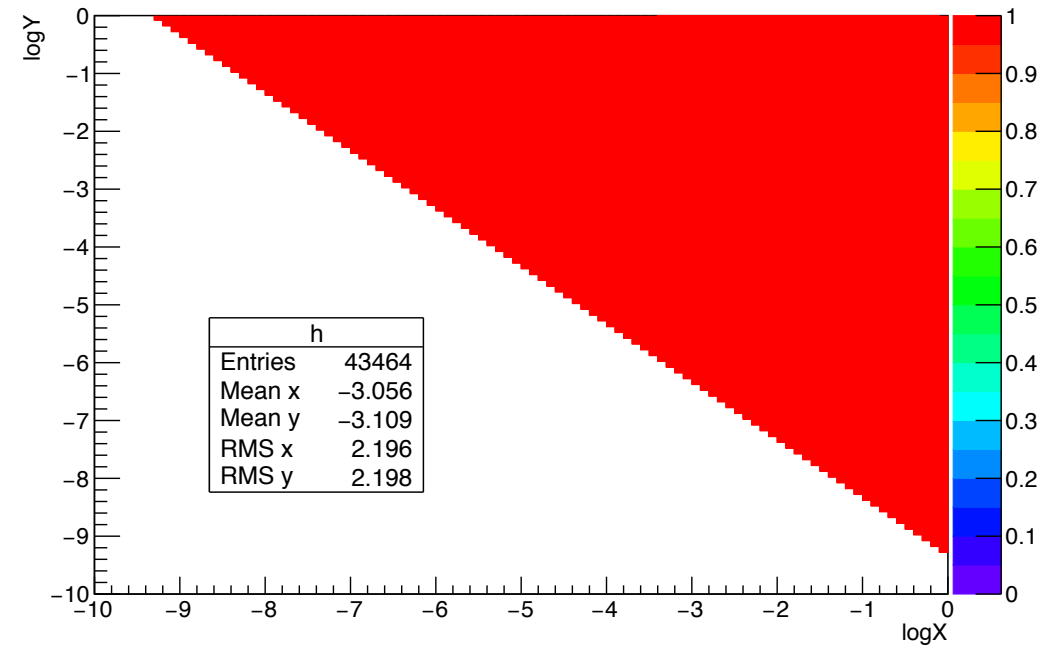
E = 1 TeV

Phase Space

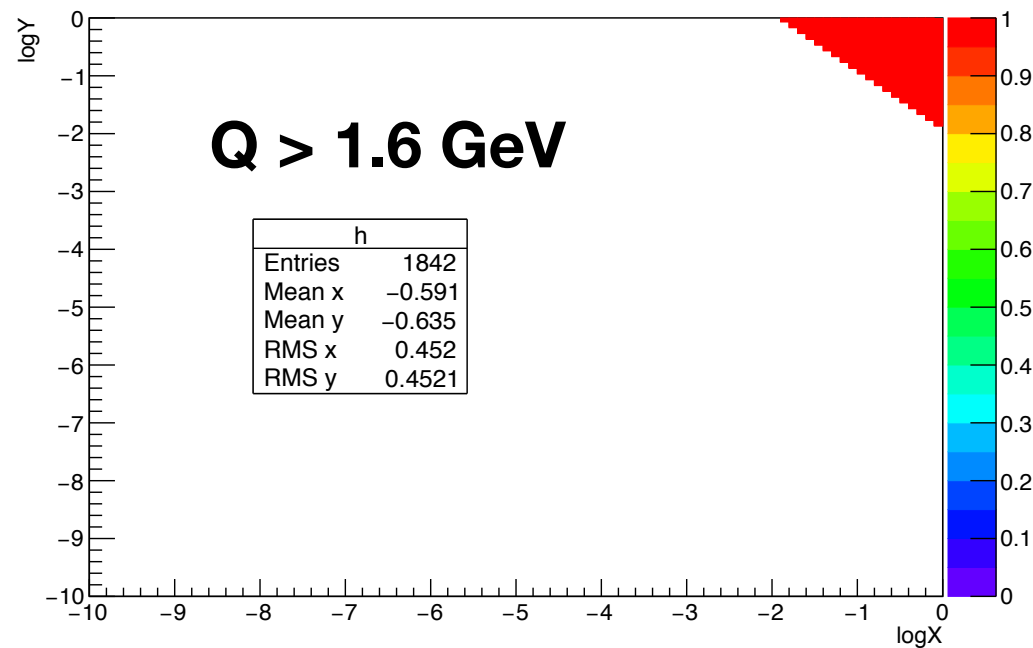


E = 100 TeV

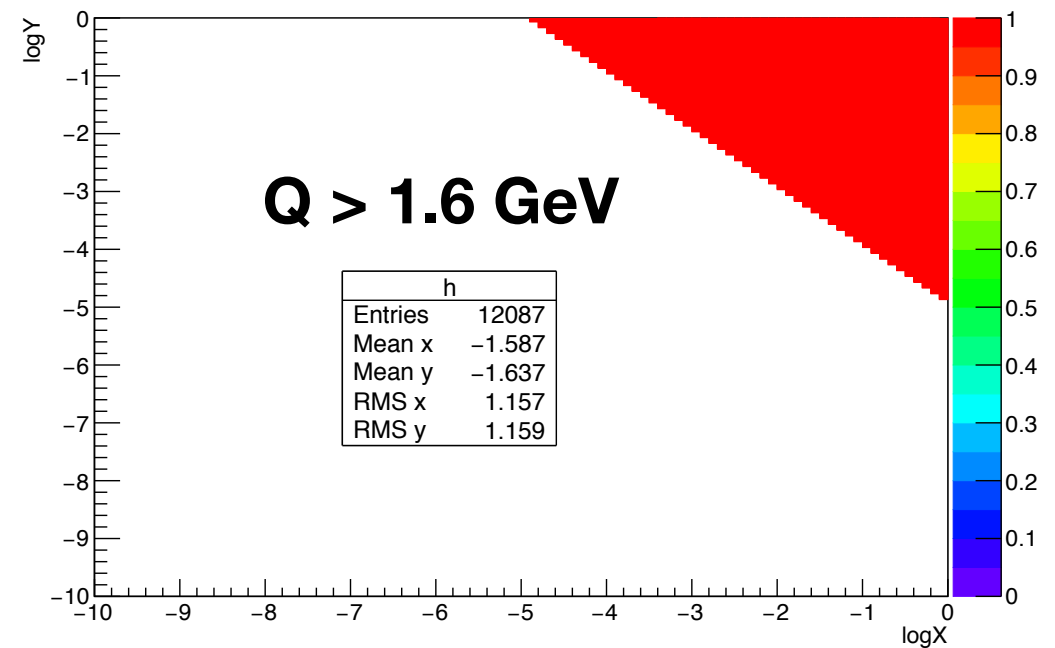
Phase Space



Phase Space



Phase Space



GENIE:

ν_μ cross section

