

GENIE comparisons with T2K/ND280 CC 0π dataset

Dataset:

t2k_nd280_numucc0pi_2015

Models:

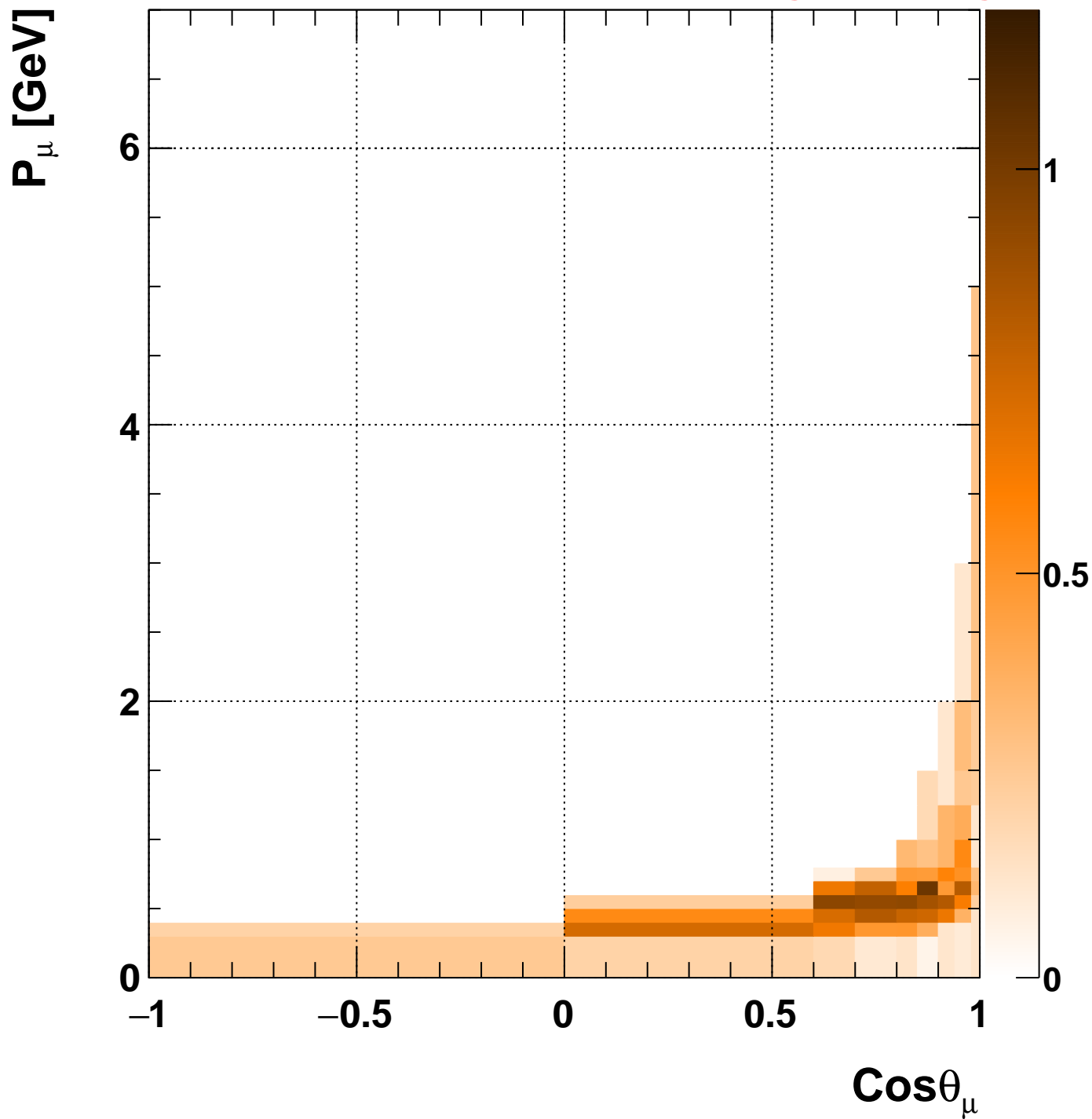
trunk/G00_00a

trunk/G00_00b

trunk/G16_01a

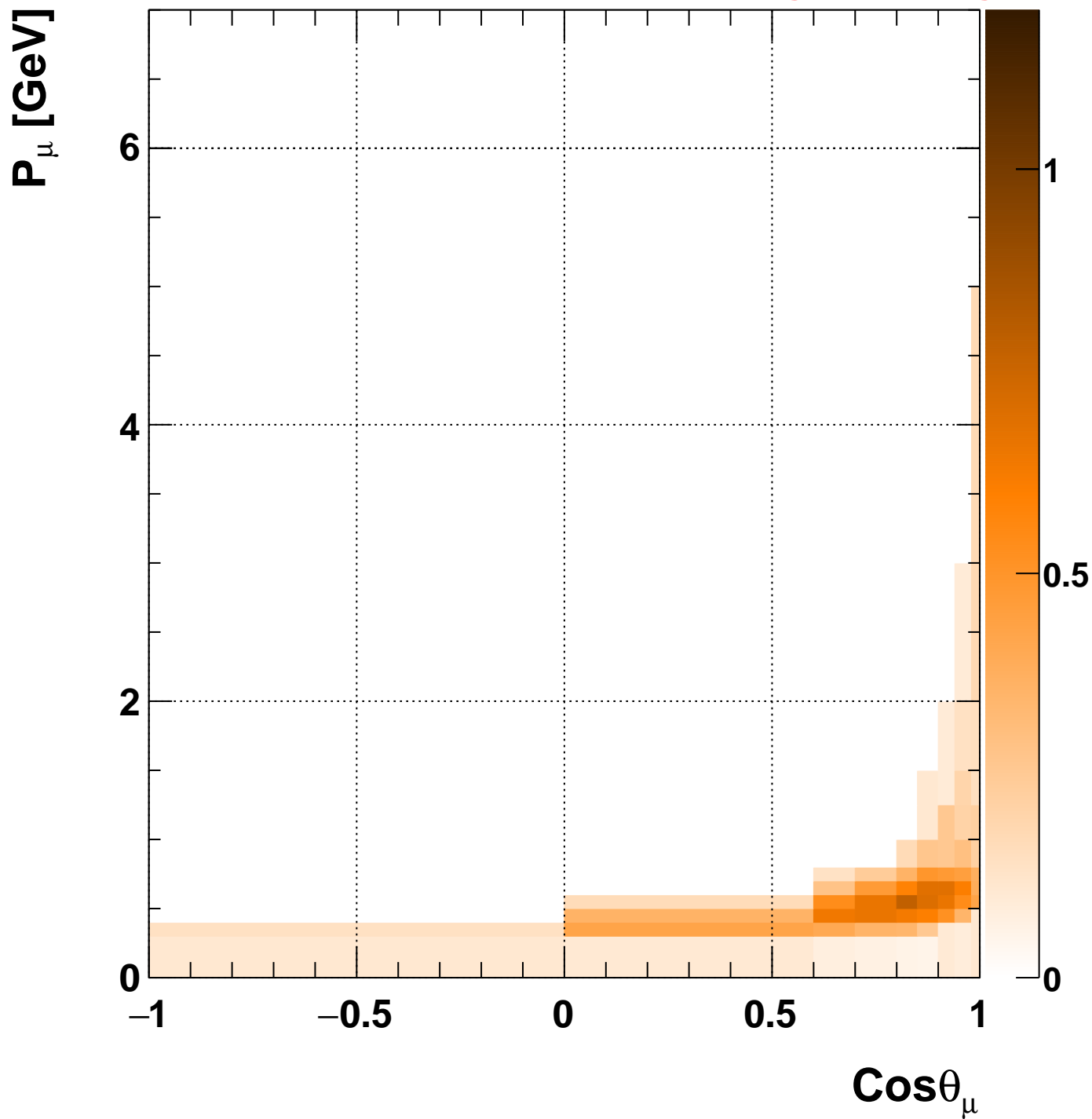
trunk/G16_02b

2016/11/22 12:39:47



$\frac{\partial^2 \sigma}{\partial \text{Cos} \theta_\mu \partial P_\mu} [10^{-38} \text{ cm}^2/\text{GeV/n}]$

Data: t2k_nd280_numucc0pi_2015



$\frac{\partial^2 \sigma}{\partial \text{Cos}\theta_\mu \partial P_\mu} [10^{-38} \text{ cm}^2/\text{GeV/n}]$

Pred: trunk:G00_00a:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015

VS

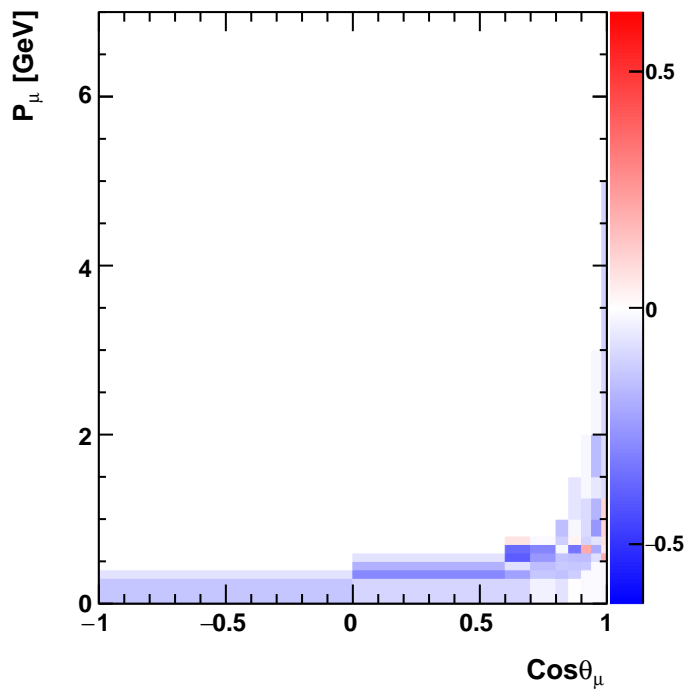
trunk:G00_00a:t2k_nd280_numu_fhc

$$\partial^2 \sigma / \partial \text{Cos} \theta_\mu \partial P_\mu$$

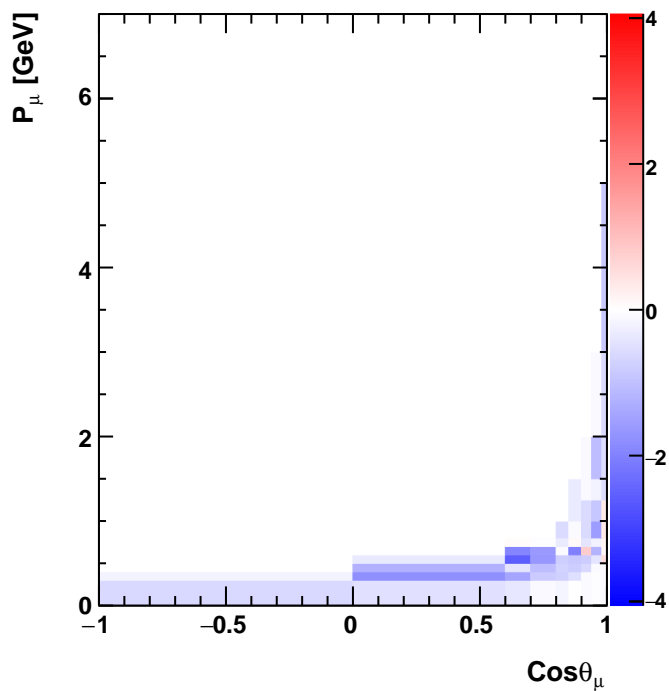
[$10^{-38} \text{ cm}^2/\text{GeV/n}$]

$\chi^2 = 43.2258/67 \text{ DoF}$

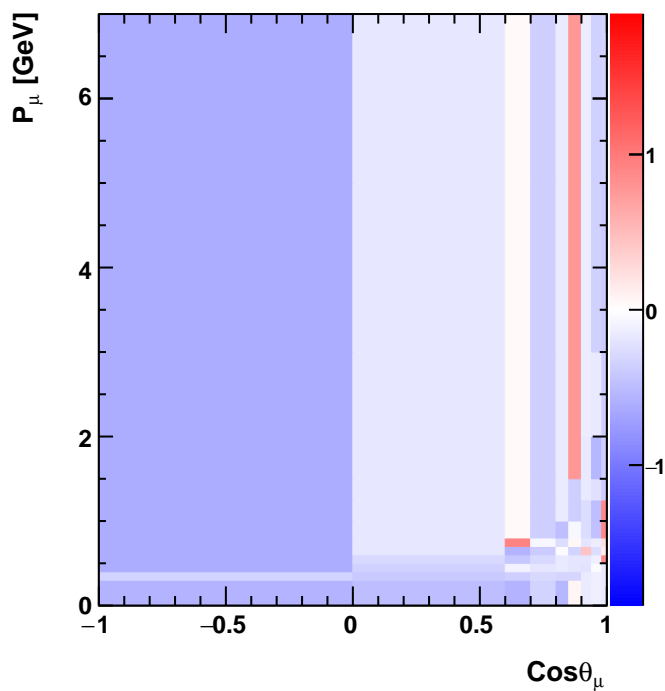
pred - data

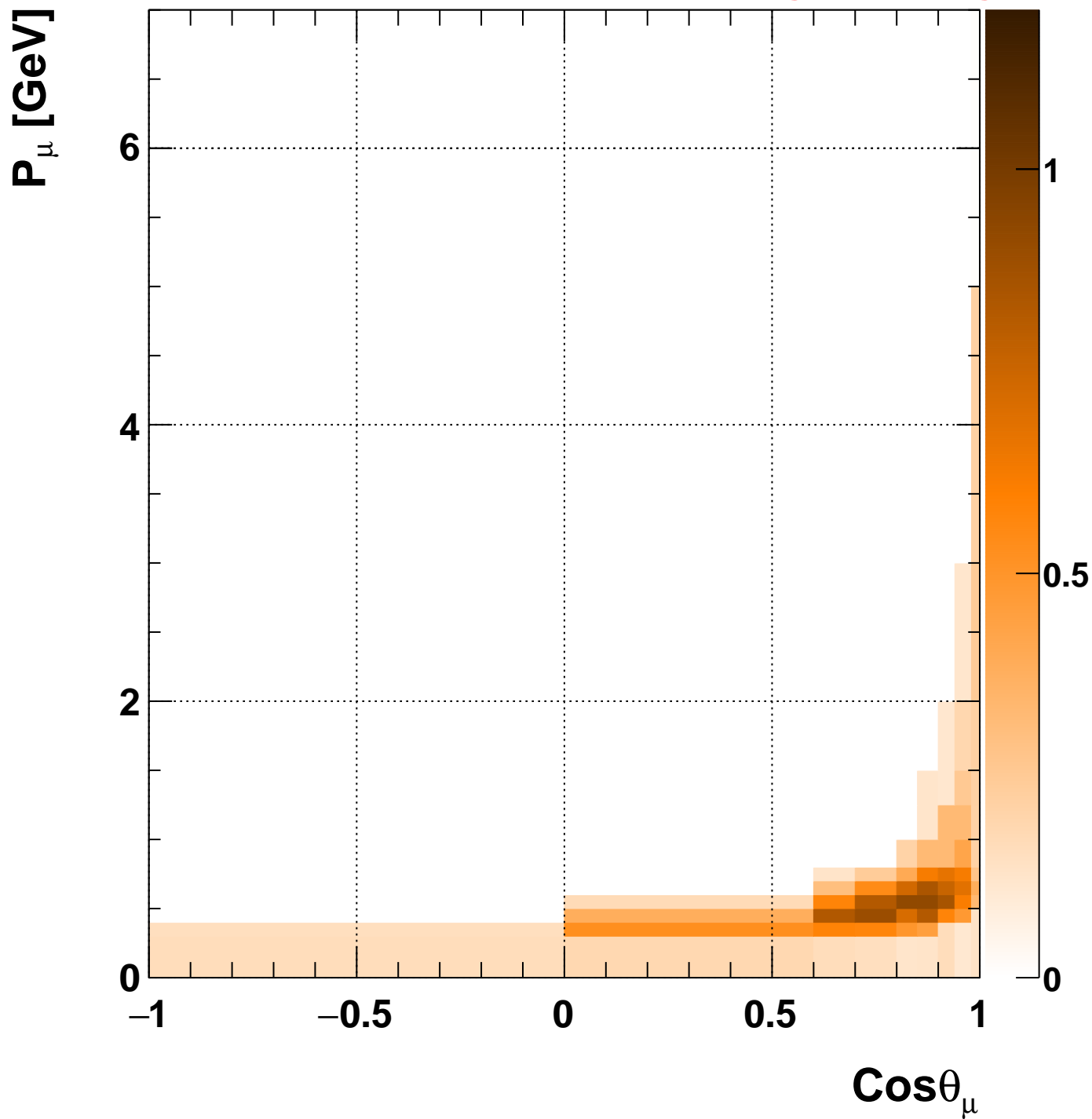


(pred - data)/ σ



(pred - data) / data





$\frac{\partial^2 \sigma}{\partial \text{Cos} \theta_\mu \partial P_\mu} [10^{-38} \text{ cm}^2/\text{GeV/n}]$

Pred: trunk:G00_00b:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015

VS

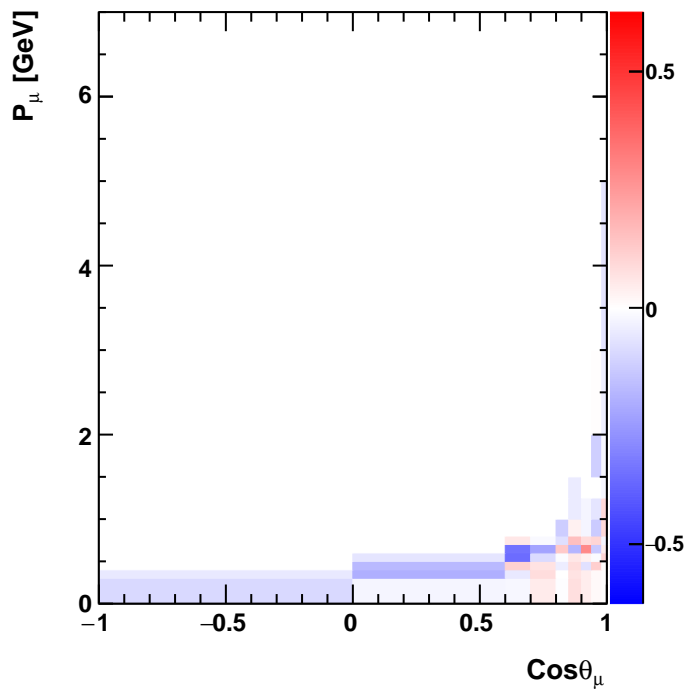
trunk:G00_00b:t2k_nd280_numu_fhc

$$\partial^2 \sigma / \partial \text{Cos} \theta_{\mu} \partial P_{\mu}$$

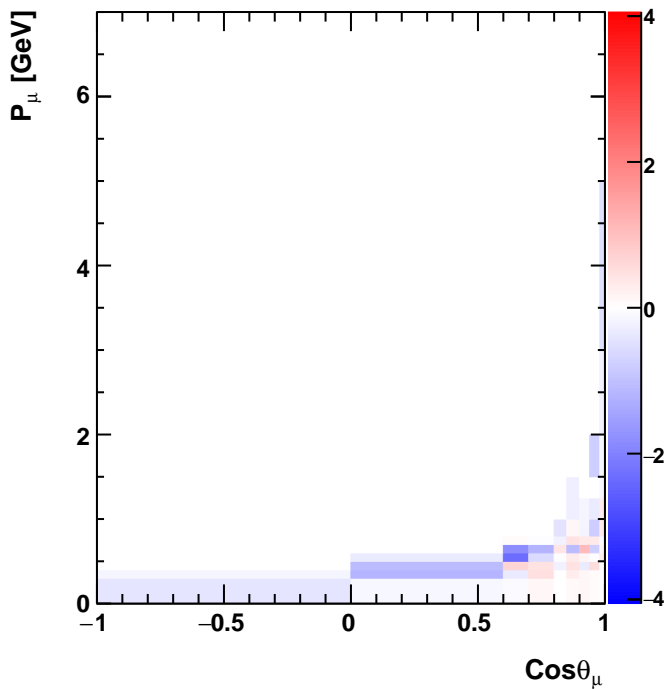
[10⁻³⁸ cm²/GeV/n]

$\chi^2 = 49.5983/67$ DoF

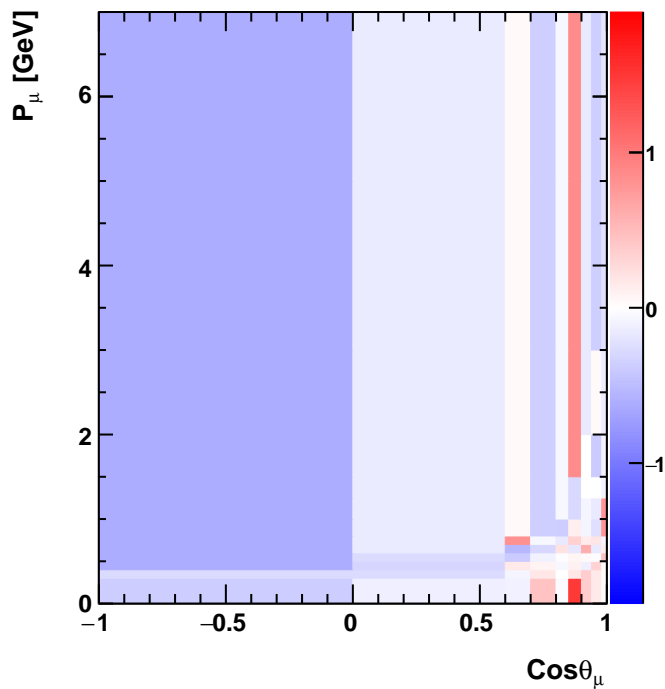
pred - data

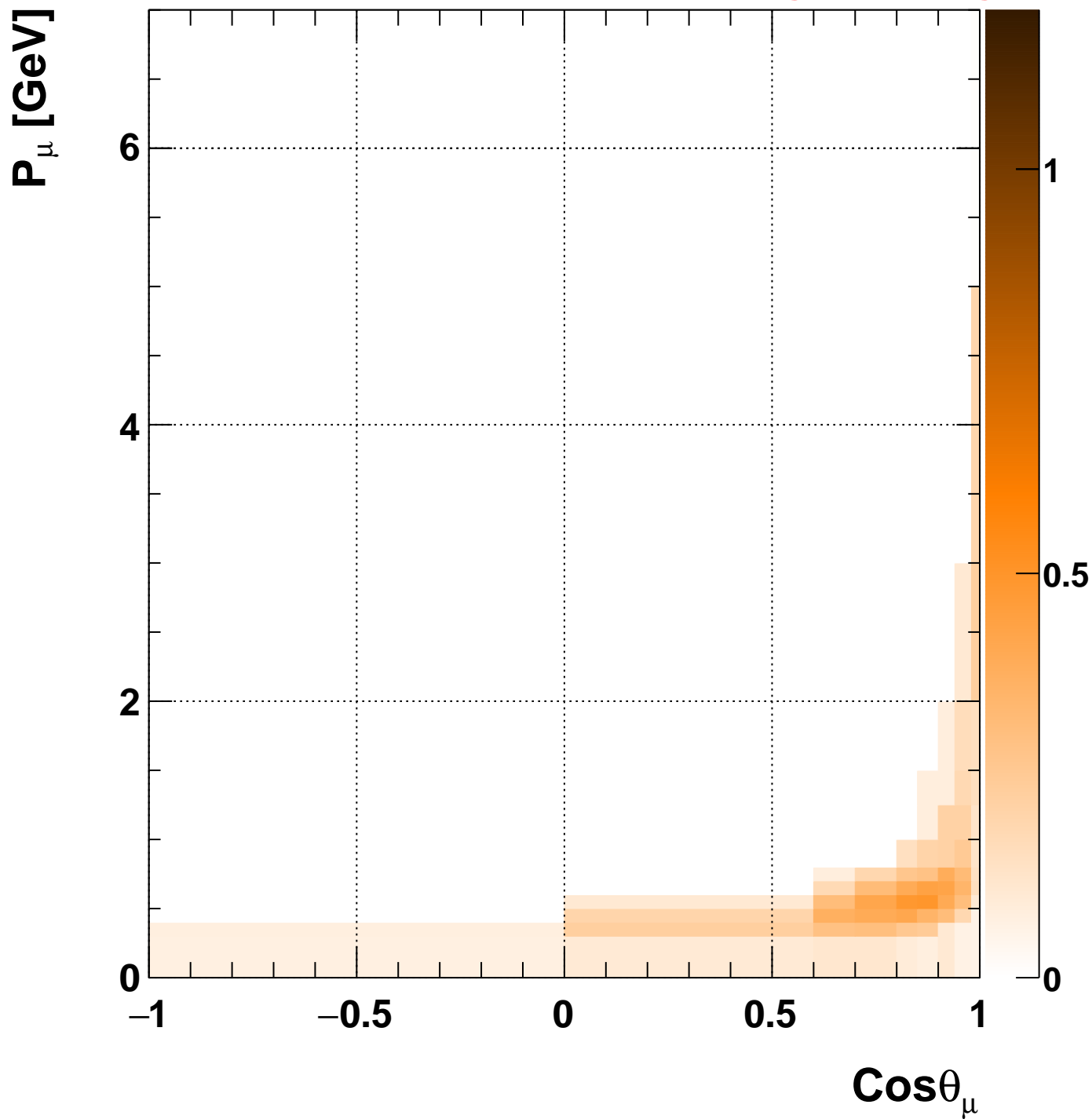


(pred - data)/ σ



(pred - data) / data





$\frac{\partial^2 \sigma}{\partial \text{Cos}\theta_\mu \partial P_\mu} [10^{-38} \text{ cm}^2/\text{GeV/n}]$

Pred: trunk:G16_01a:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015

VS

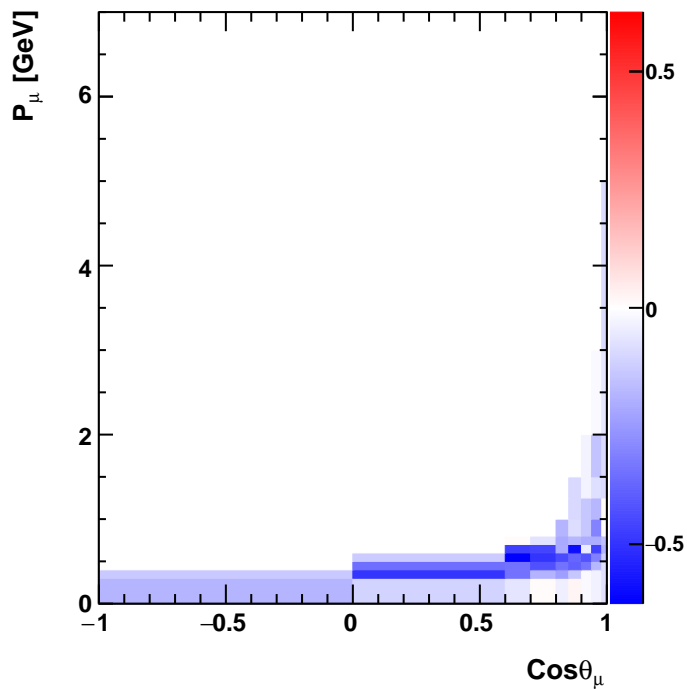
trunk:G16_01a:t2k_nd280_numu_fhc

$$\partial^2 \sigma / \partial \text{Cos}\theta_\mu / \partial P_\mu$$

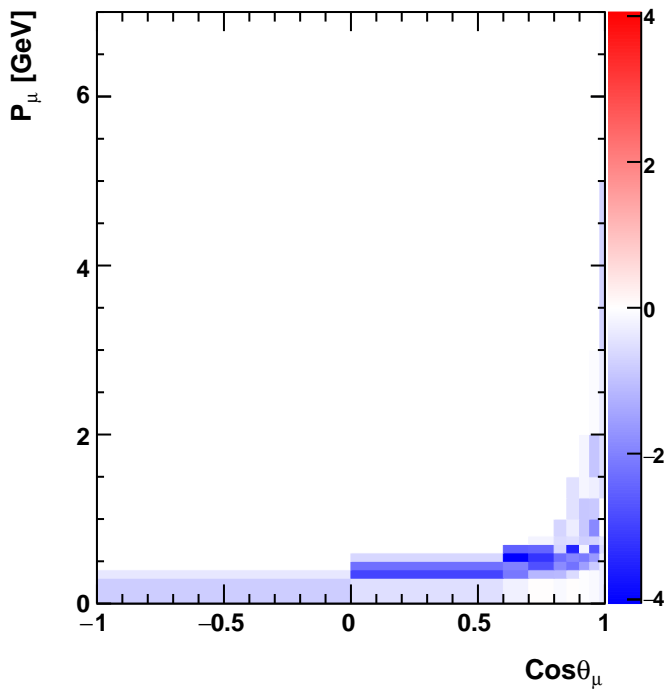
[10⁻³⁸ cm²/GeV/n]

$\chi^2 = 176.854/67$ DoF

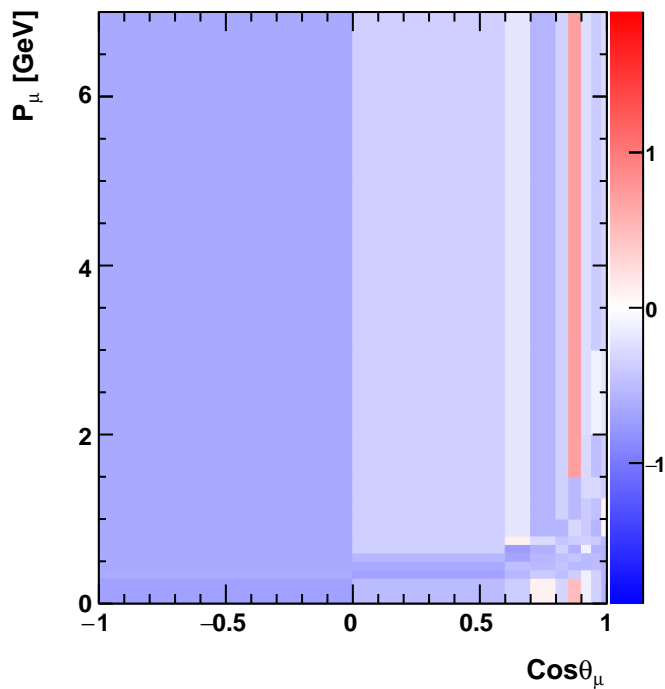
pred - data

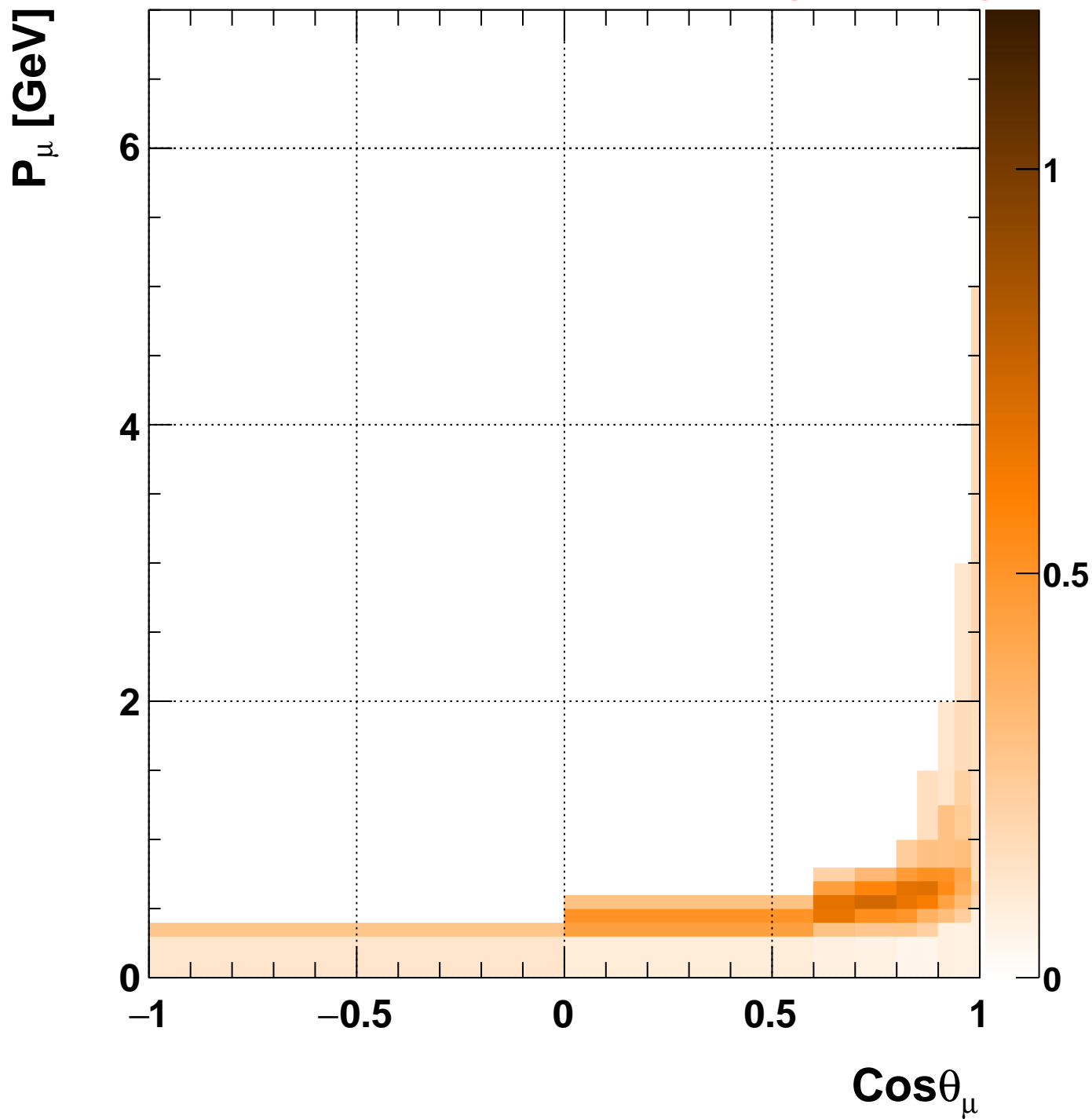


(pred - data)/ σ



(pred - data) / data





$\frac{\partial^2 \sigma}{\partial \text{Cos}\theta_\mu \partial P_\mu} [10^{-38} \text{ cm}^2/\text{GeV/n}]$

Pred: trunk:G16_02b:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015

VS

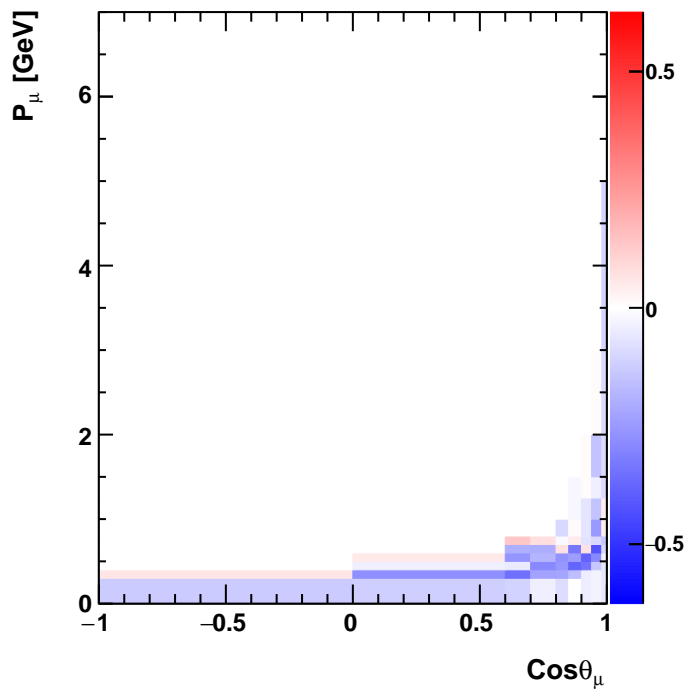
trunk:G16_02b:t2k_nd280_numu_fhc

$$\partial^2 \sigma / \partial \text{Cos}\theta_\mu / \partial P_\mu$$

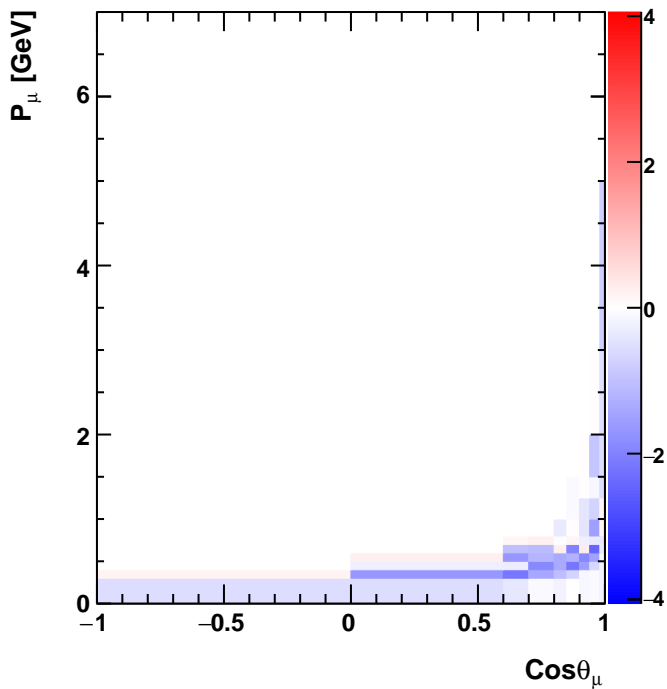
[$10^{-38} \text{ cm}^2/\text{GeV/n}$]

$\chi^2 = 87.0812/67 \text{ DoF}$

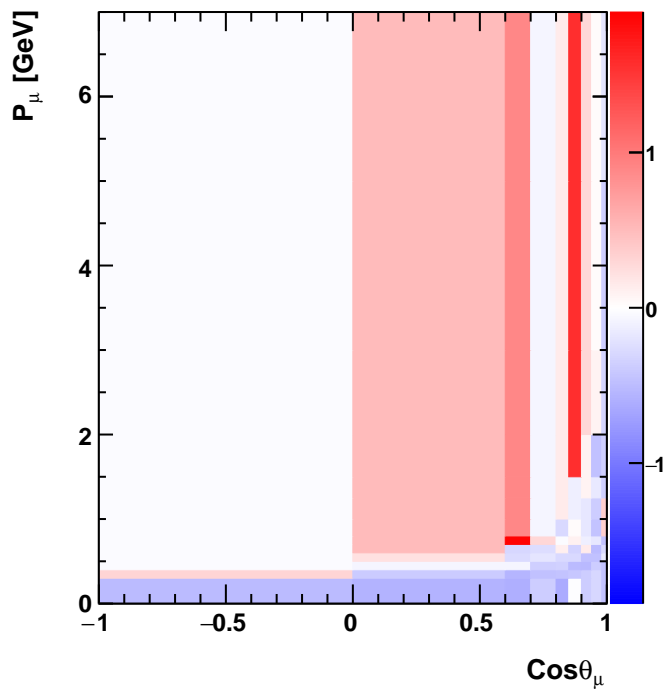
pred - data

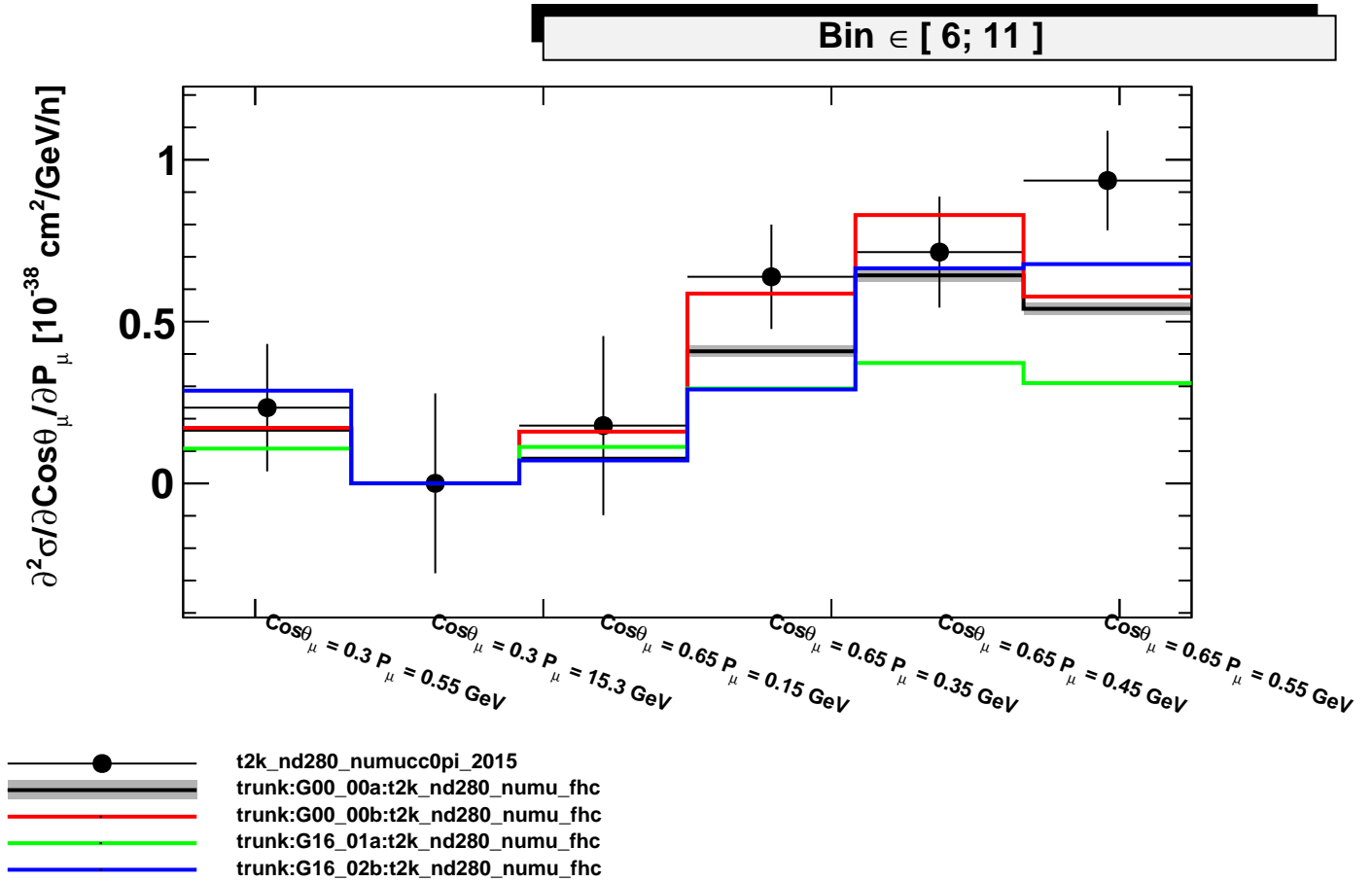
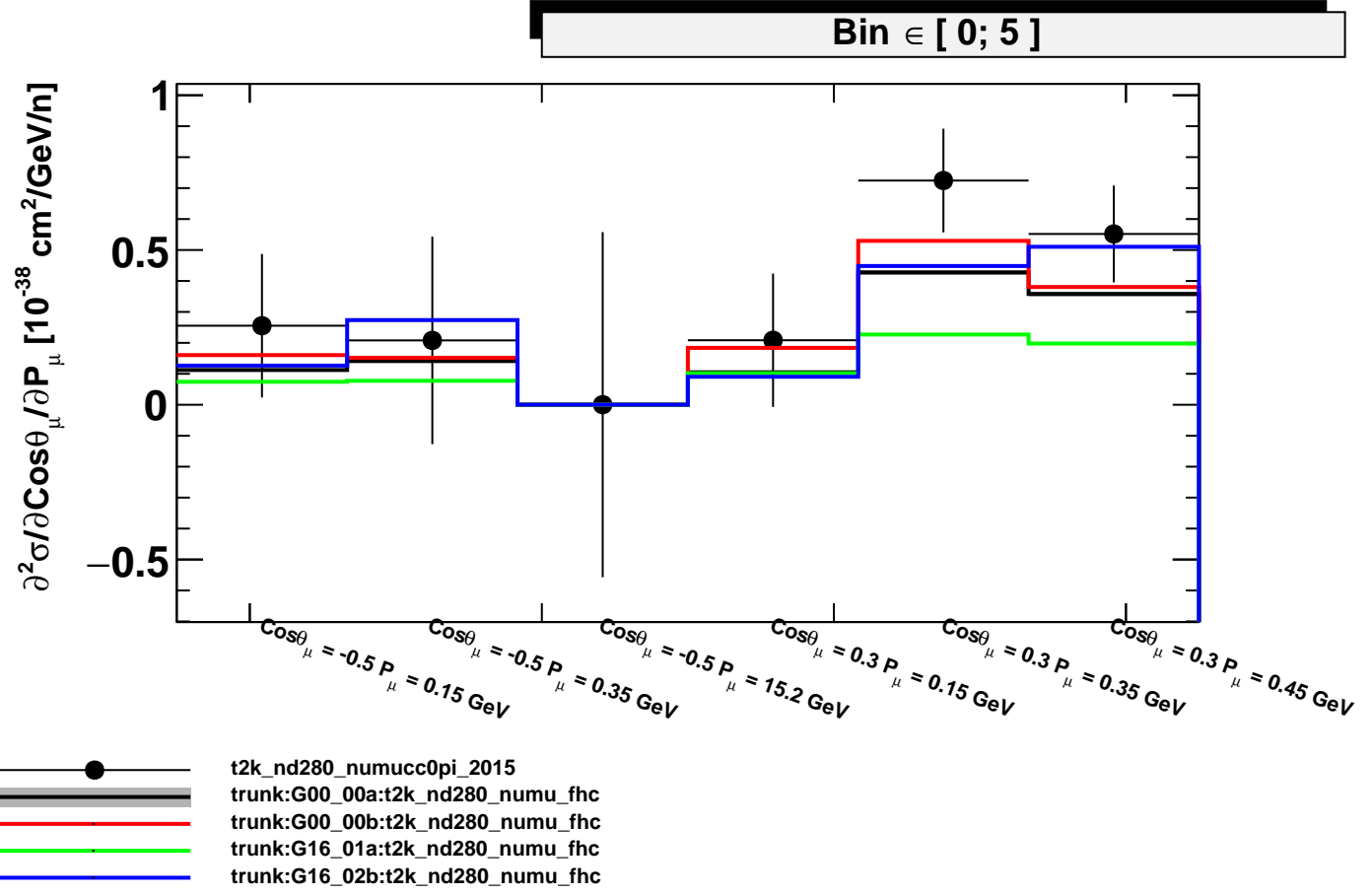


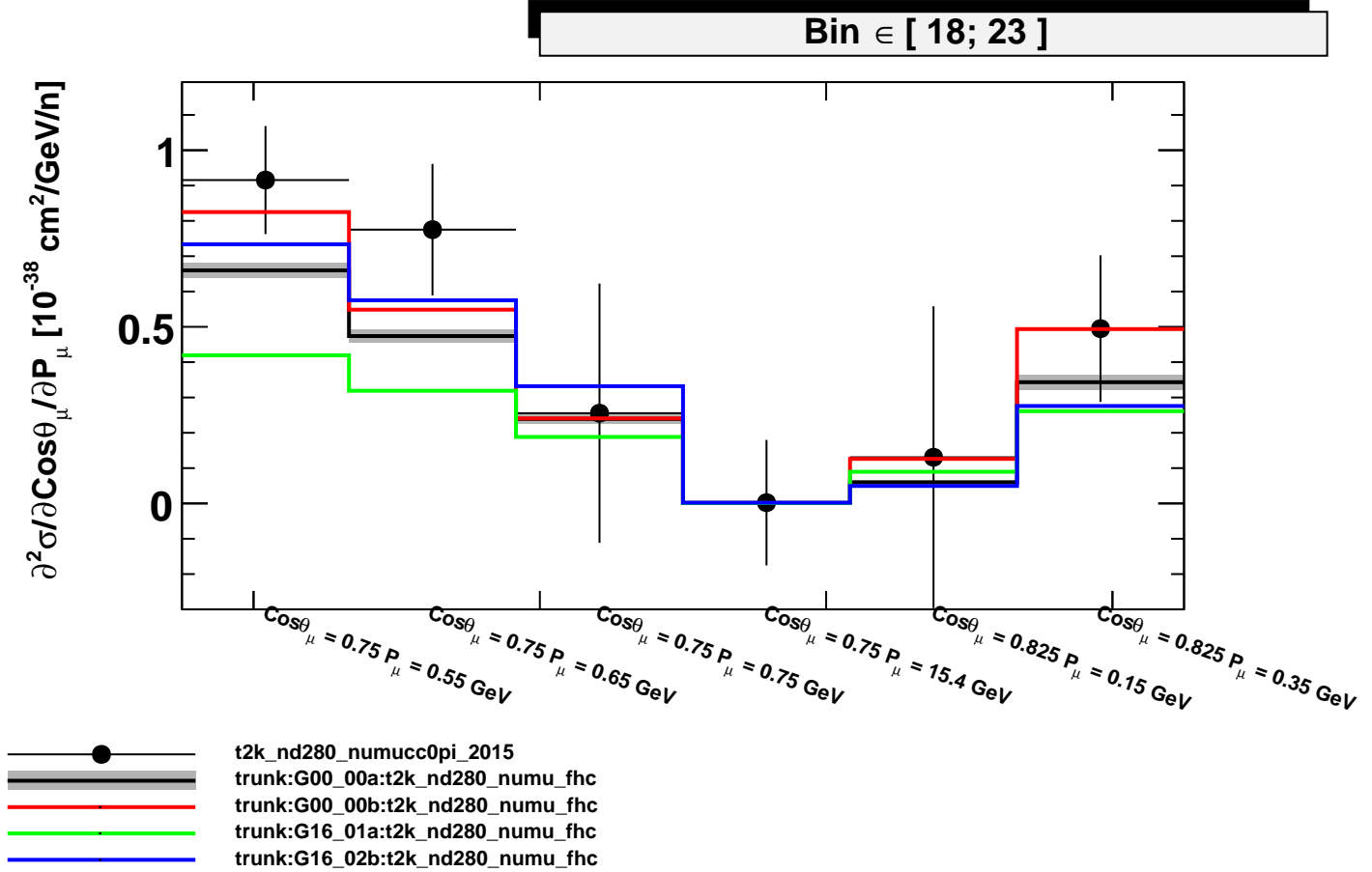
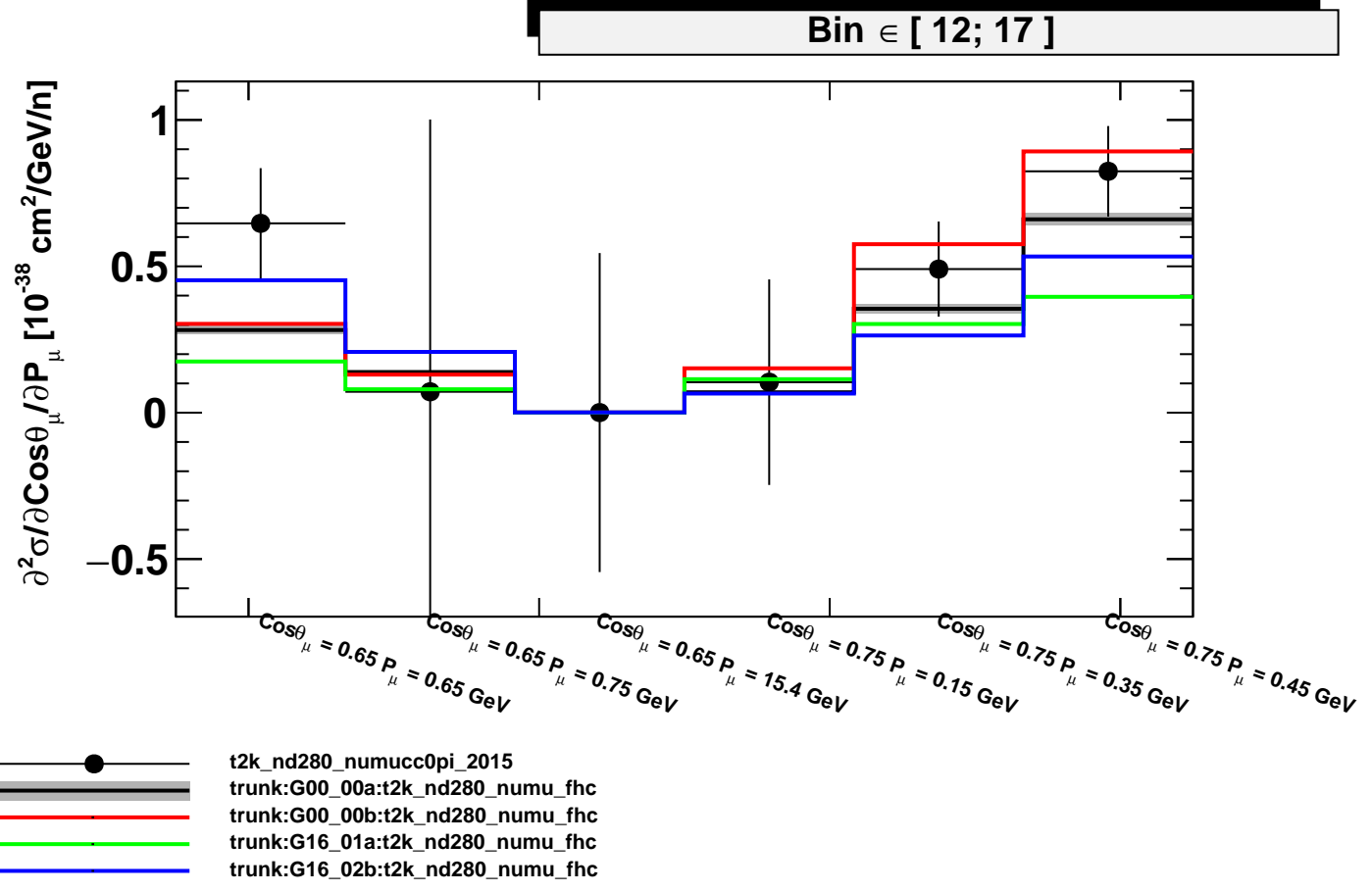
(pred - data)/ σ

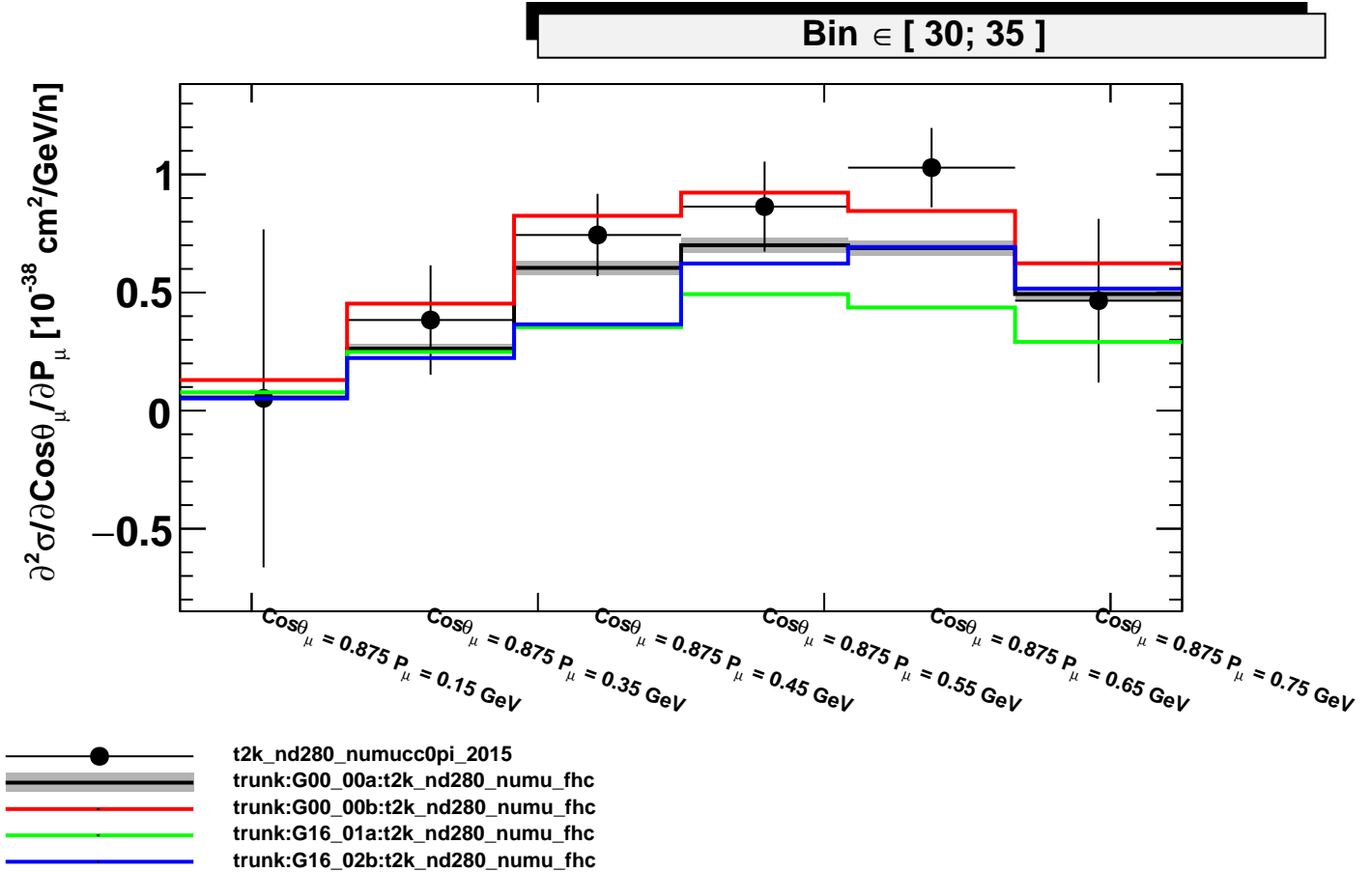
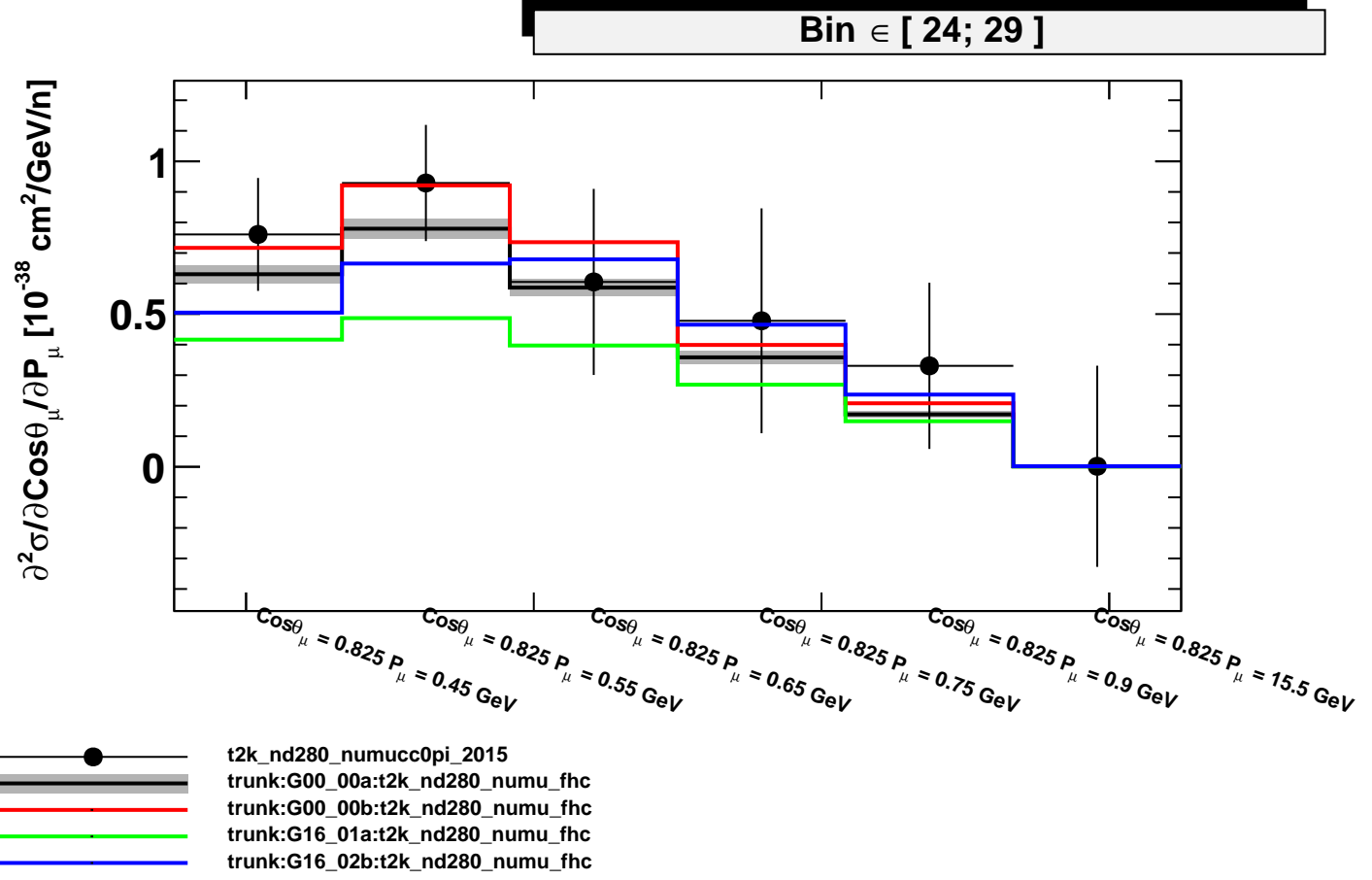


(pred - data) / data

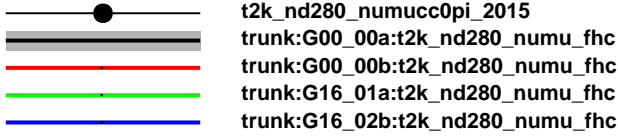
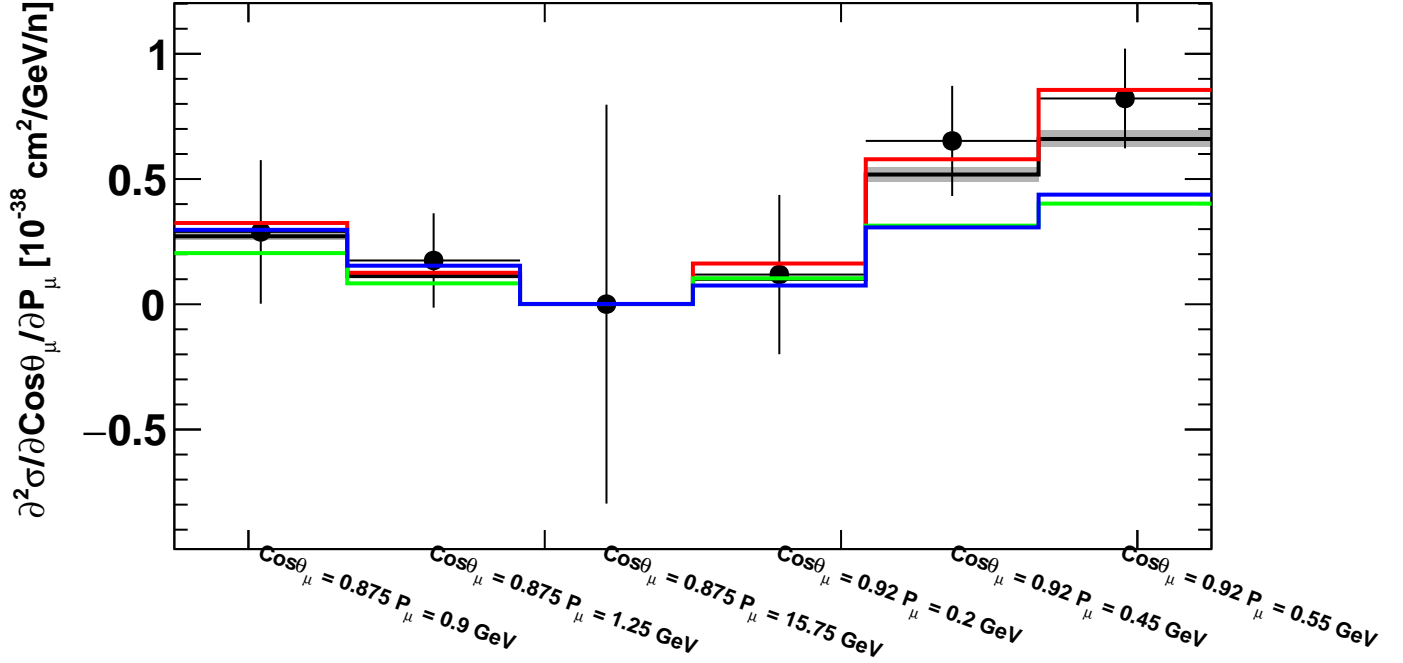




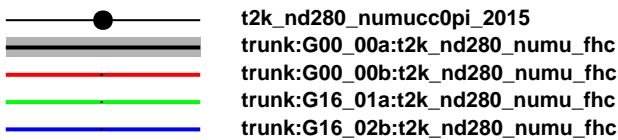
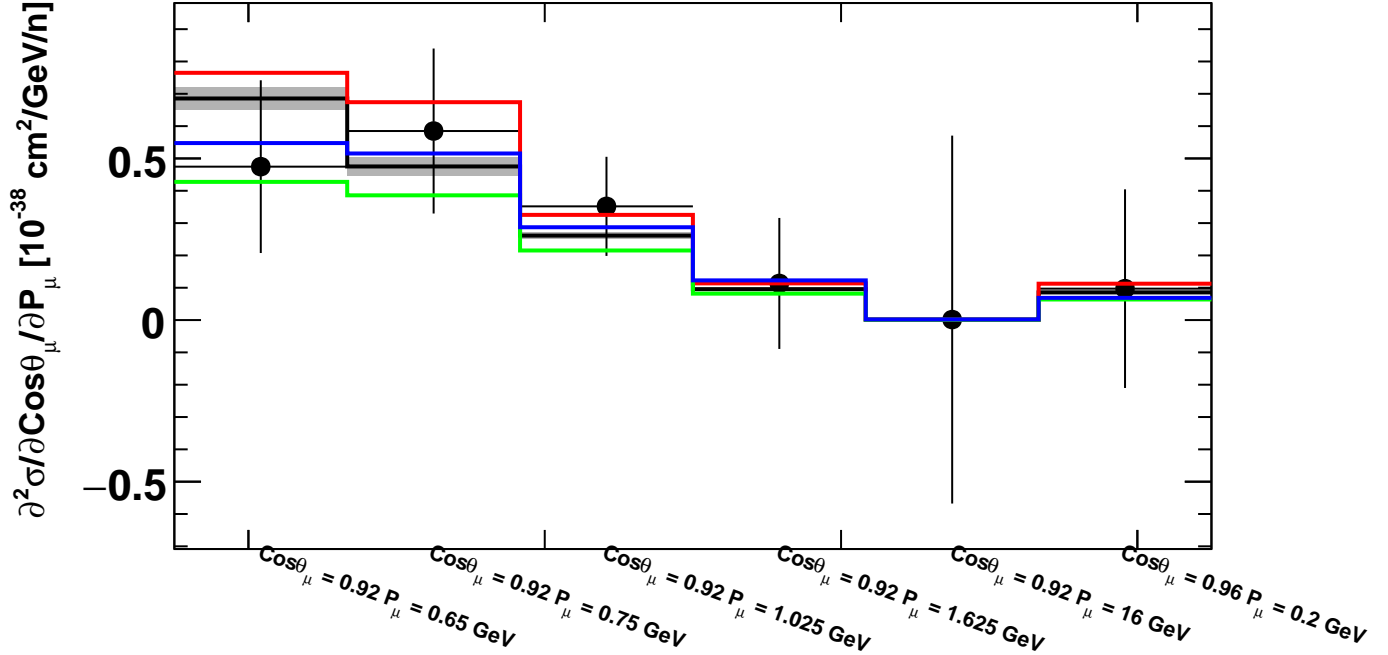


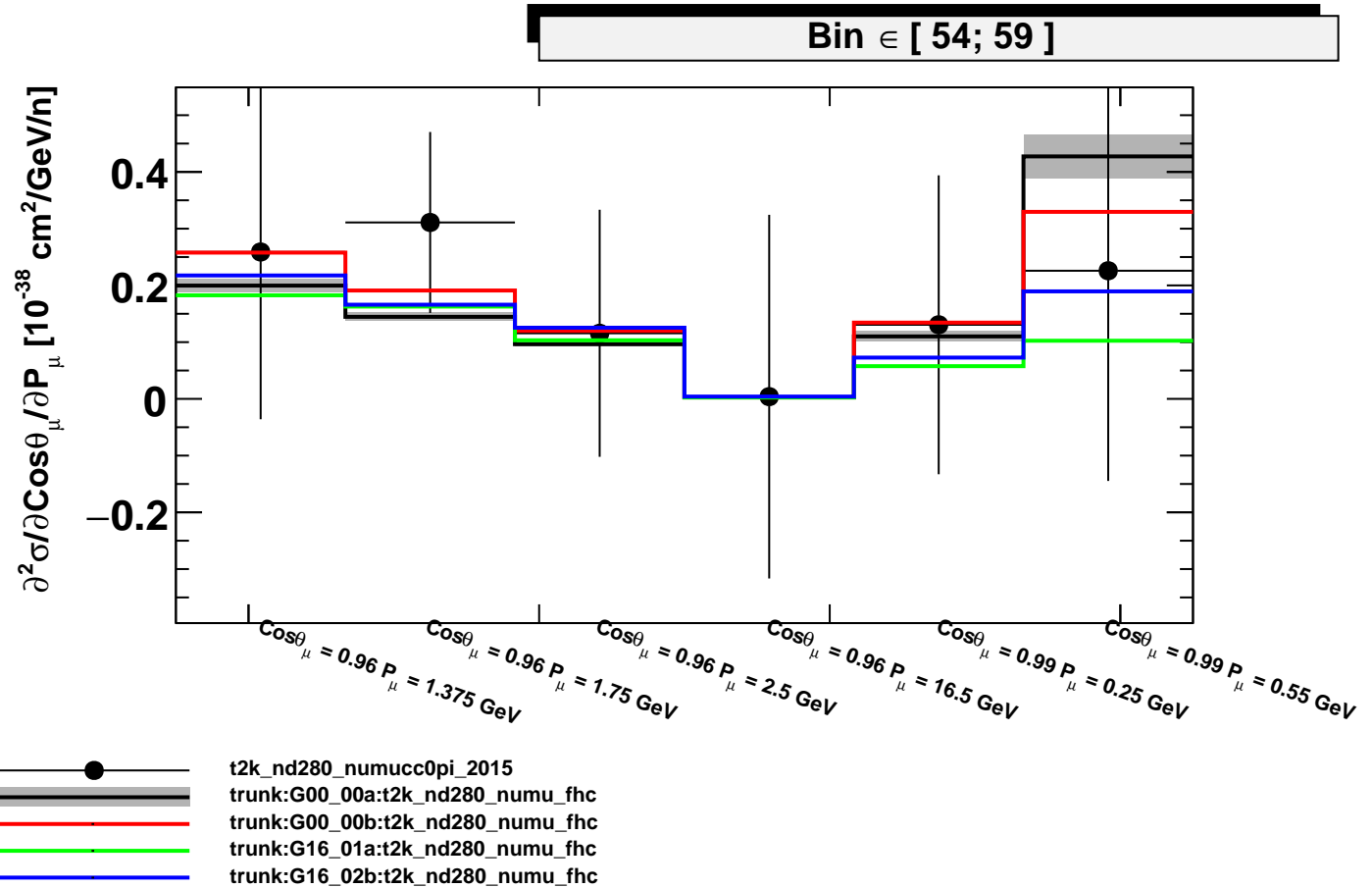
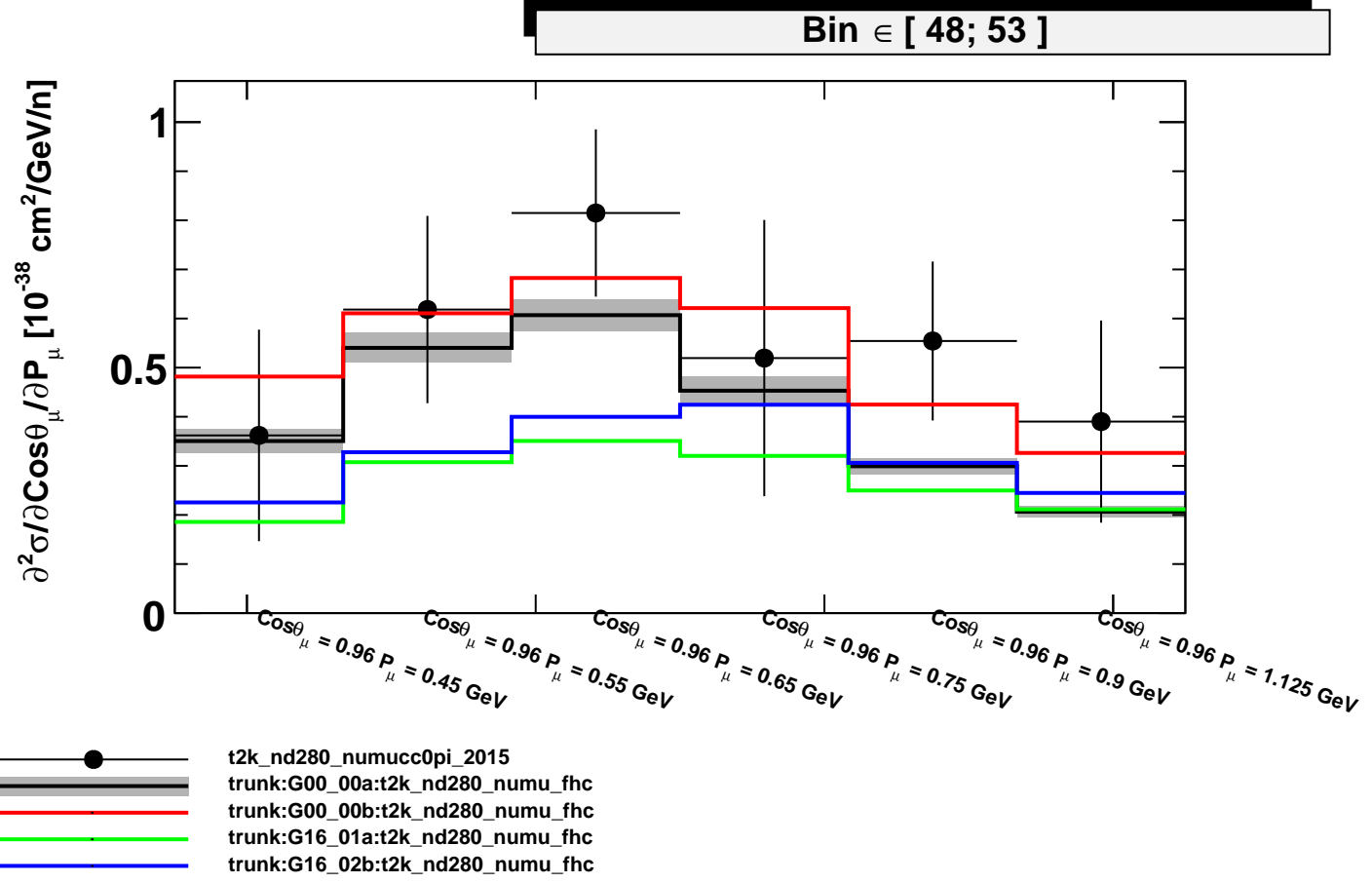


Bin \in [36; 41]



Bin \in [42; 47]





Bin \in [60; 66]

