GENIE Comparison

Datasets:

miniboone_nuccqe_2010

miniboone_nubarccqe_2013

t2k_nd280_numucc0pi_2015_rps

t2k_nd280_numucc0pi_2015

t2k_nd280_numucc_2013

Models:

master/G18_02a_00_000

RESFix/G18_02a_00_000

2019/11/05 13:39:10

Dataset:

miniboone_nuccqe_2010

Models:

master/G18_02a_00_000 χ^2 = 669 / 137 DoF

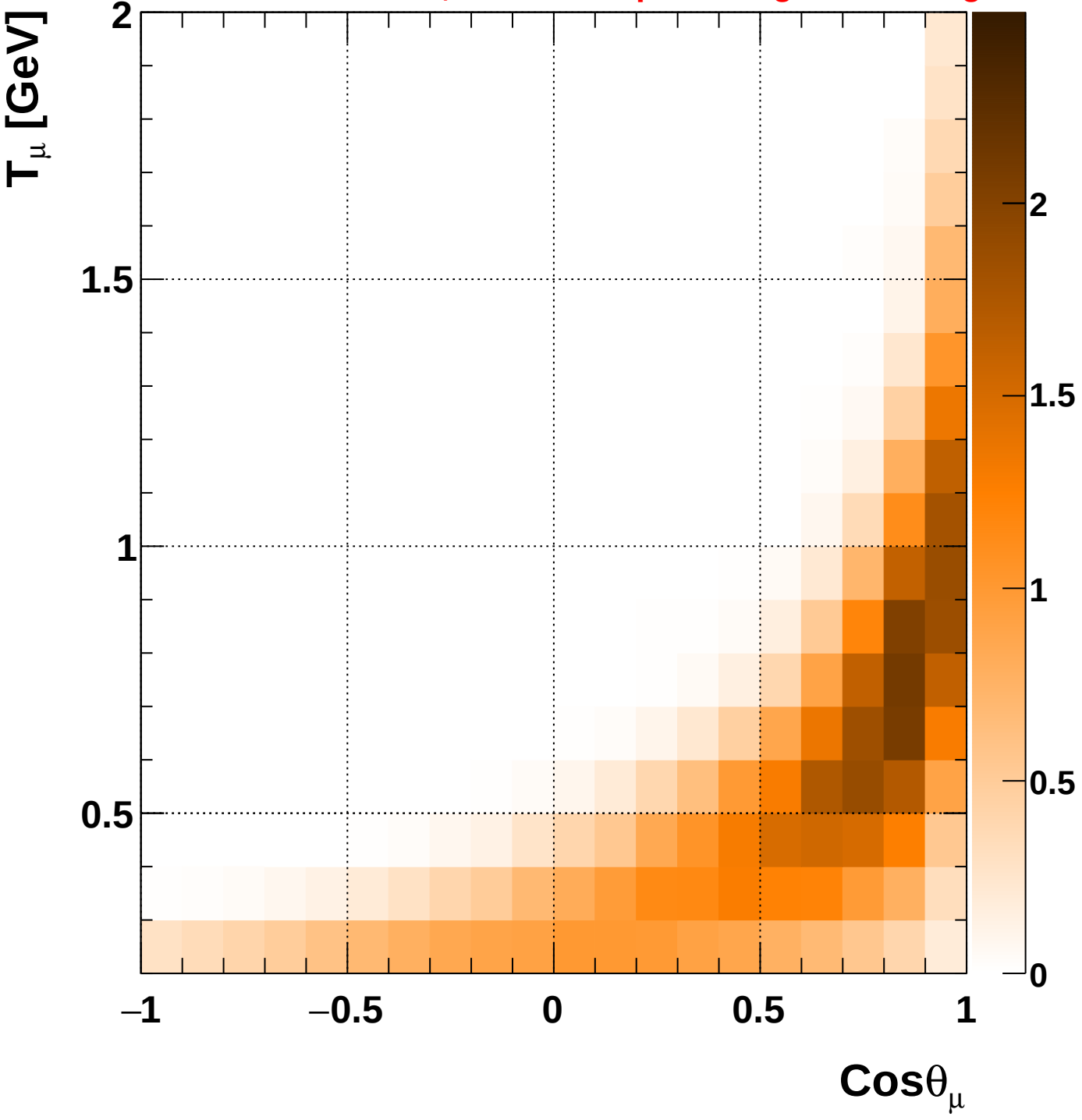
RESFix/G18_02a_00_000 χ^2 = 650 / 137 DoF

Plot:

$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_μ /∂ T$_\mu$

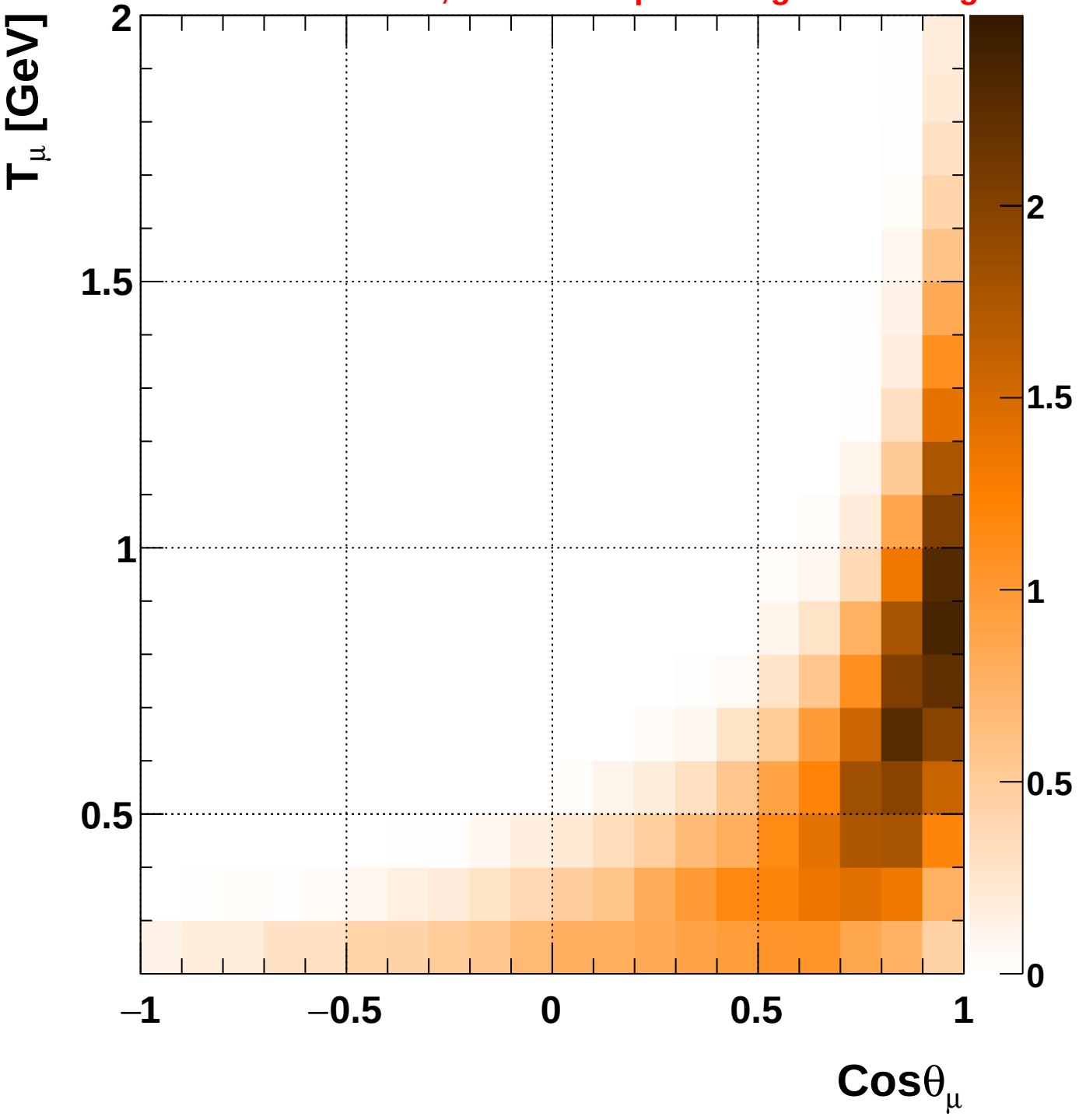
137 DoF, χ^2 = 669 650

2019/11/05 13:39:10



$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial\ \text{Cos}\theta_\mu/\partial\ T_\mu$ [10^{-38} cm^2/GeV/n]

Data: miniboone_nuccqe_2010



$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial\ \mathrm{Cos}\theta_\mu/\partial\ T_\mu$ [10^{-38} cm^2/GeV/n]

Pred: master:G18_02a_00_000:miniboone_fhc

miniboone_nuccqe_2010

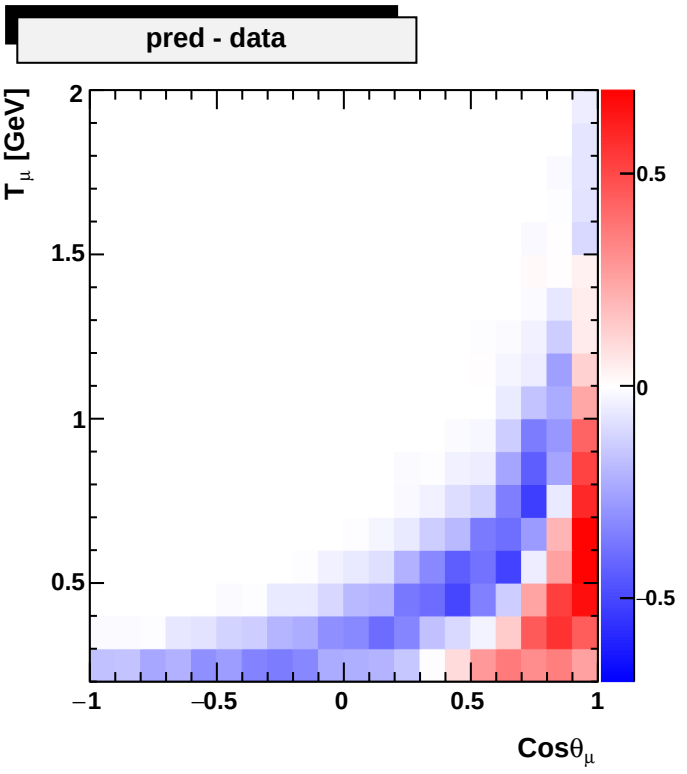
VS

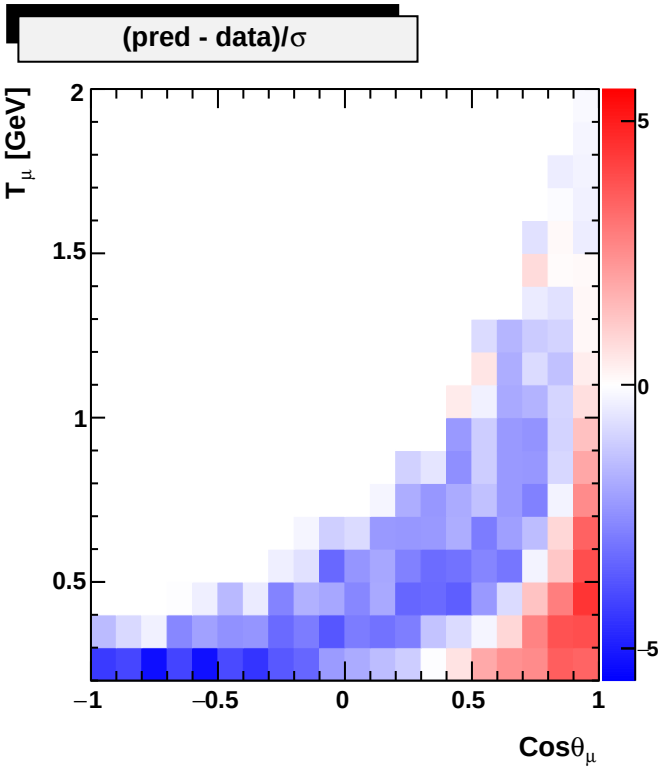
master:G18_02a_00_000:miniboone_fhc

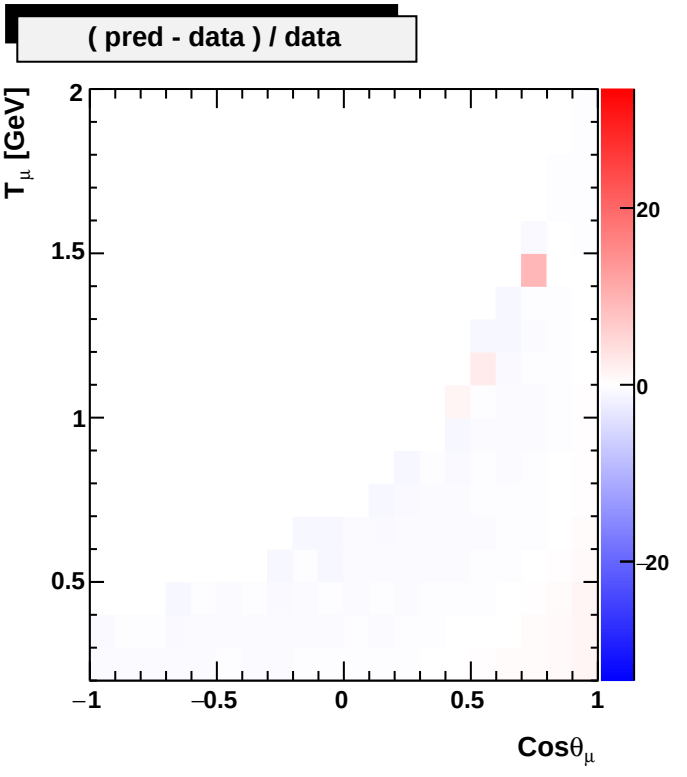
$\partial^2\sigma(\nu_\mu$ **CC 0**$\pi)/\partial$ **Cos**θ_μ/∂ **T**$_\mu$

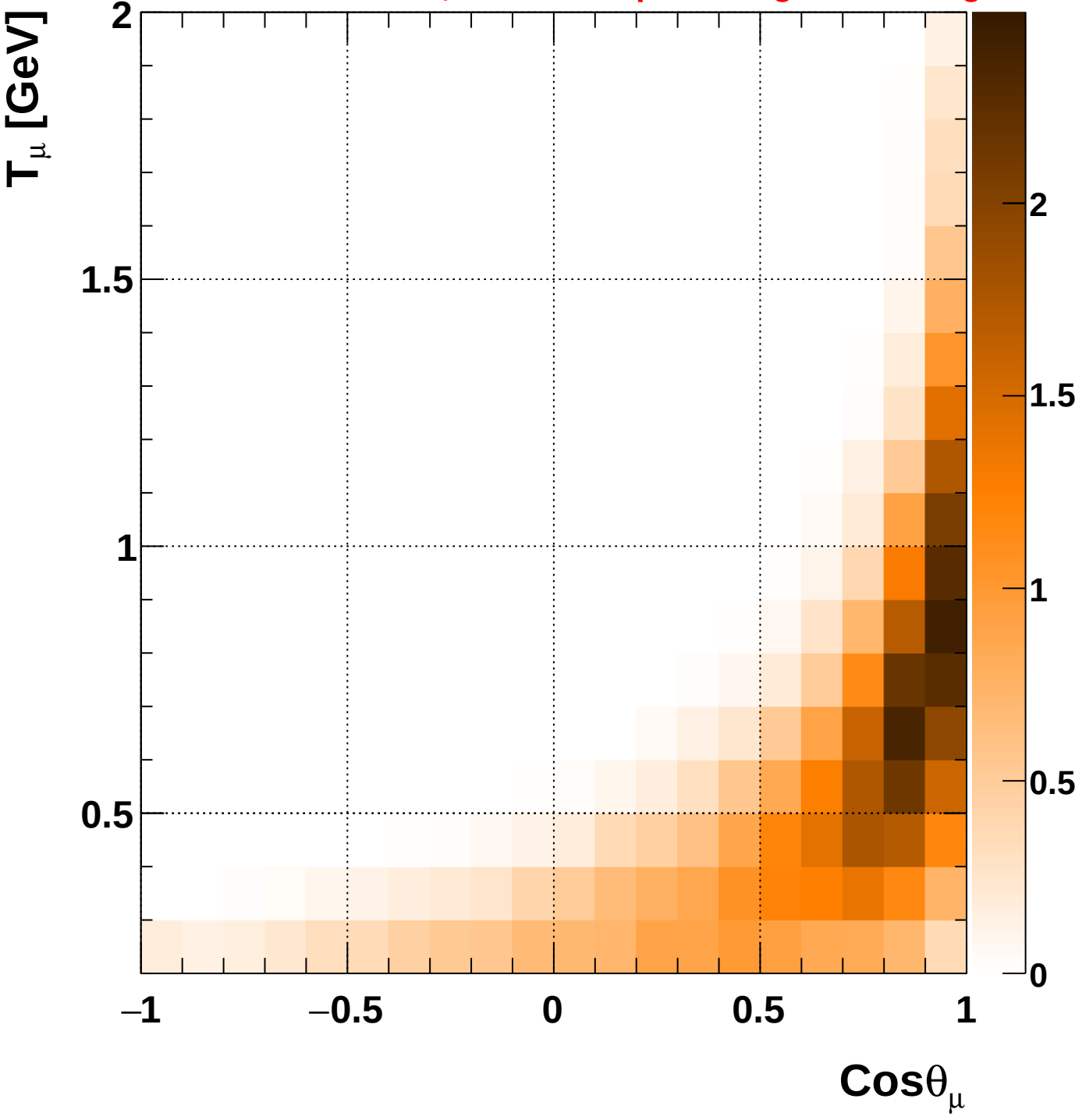
[10^{-38} **cm**^{2}**/GeV/n]**

χ^2 **= 669.095/137 DoF**









$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial\ \mathrm{Cos}\theta_\mu/\partial\ T_\mu$ [10^{-38} cm^2/GeV/n]

Pred: RESFix:G18_02a_00_000:miniboone_fhc

miniboone_nuccqe_2010

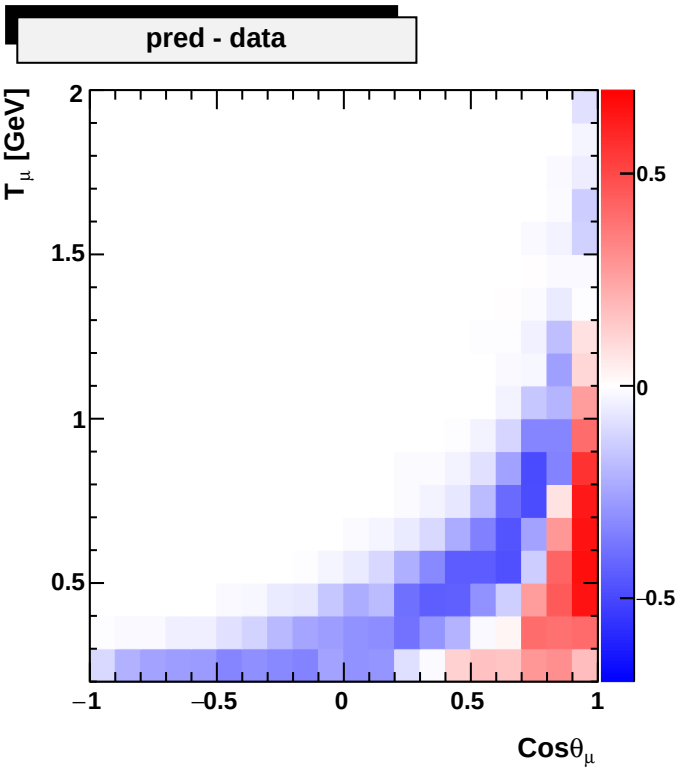
VS

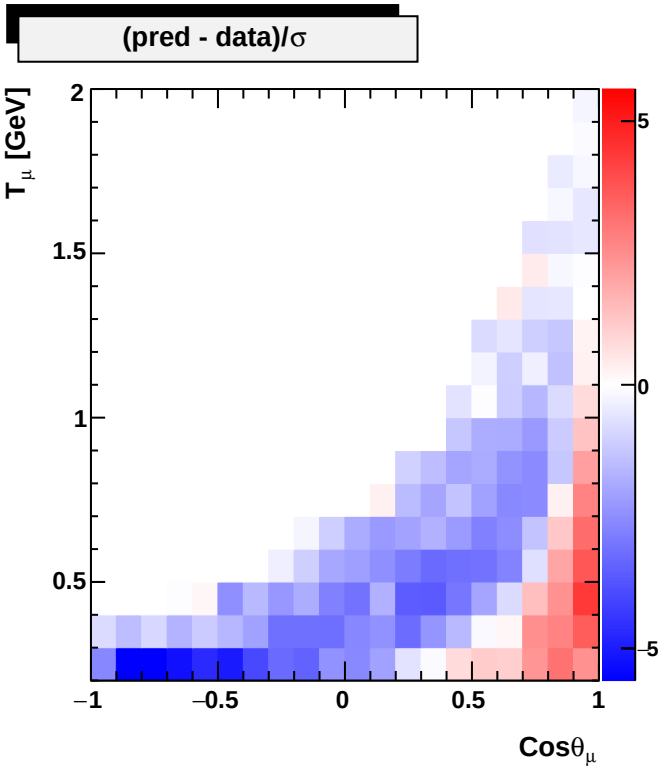
RESFix:G18_02a_00_000:miniboone_fhc

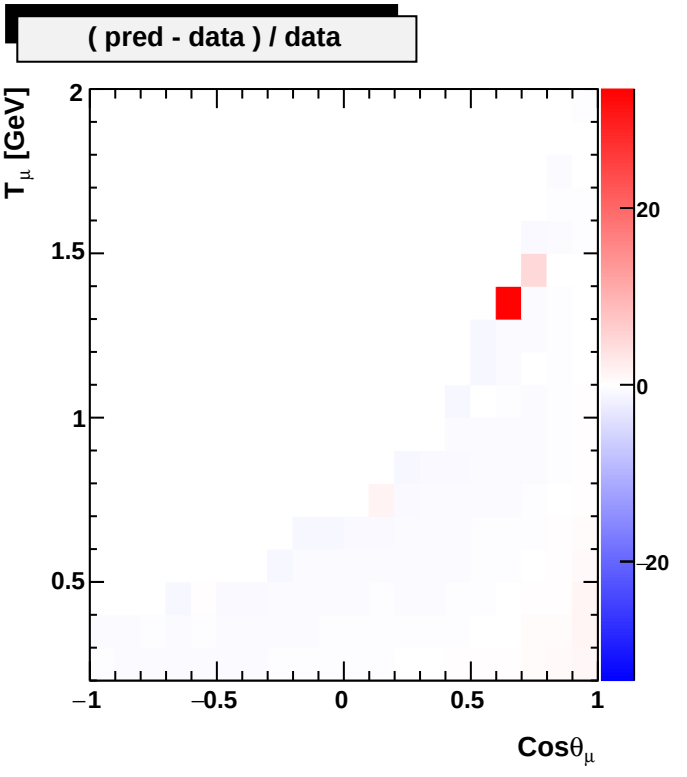
$\partial^2\sigma(\nu_\mu$ **CC 0**$\pi)/\partial$ **Cos**θ_μ/∂ **T**$_\mu$

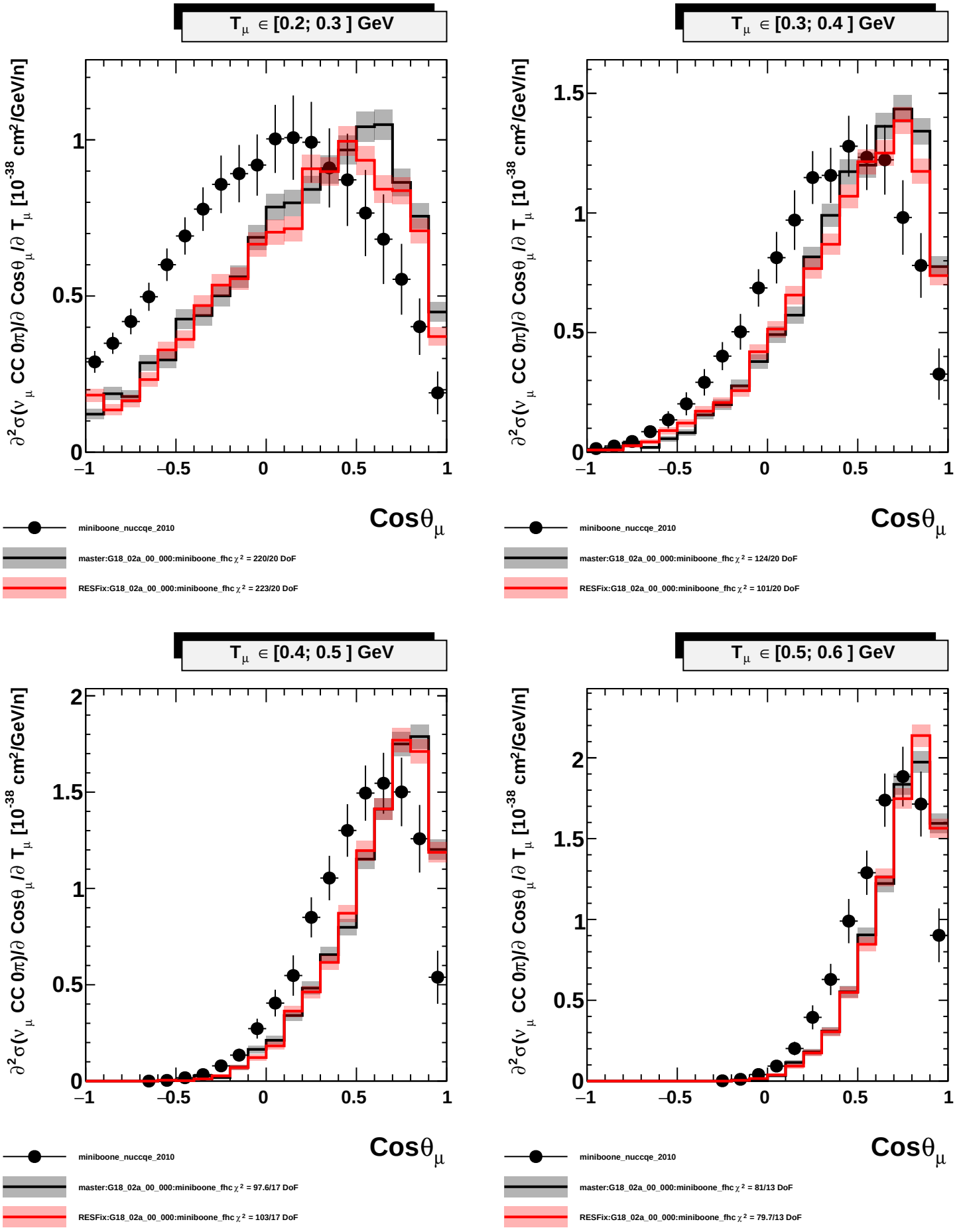
[10^{-38} **cm**^{2}**/GeV/n]**

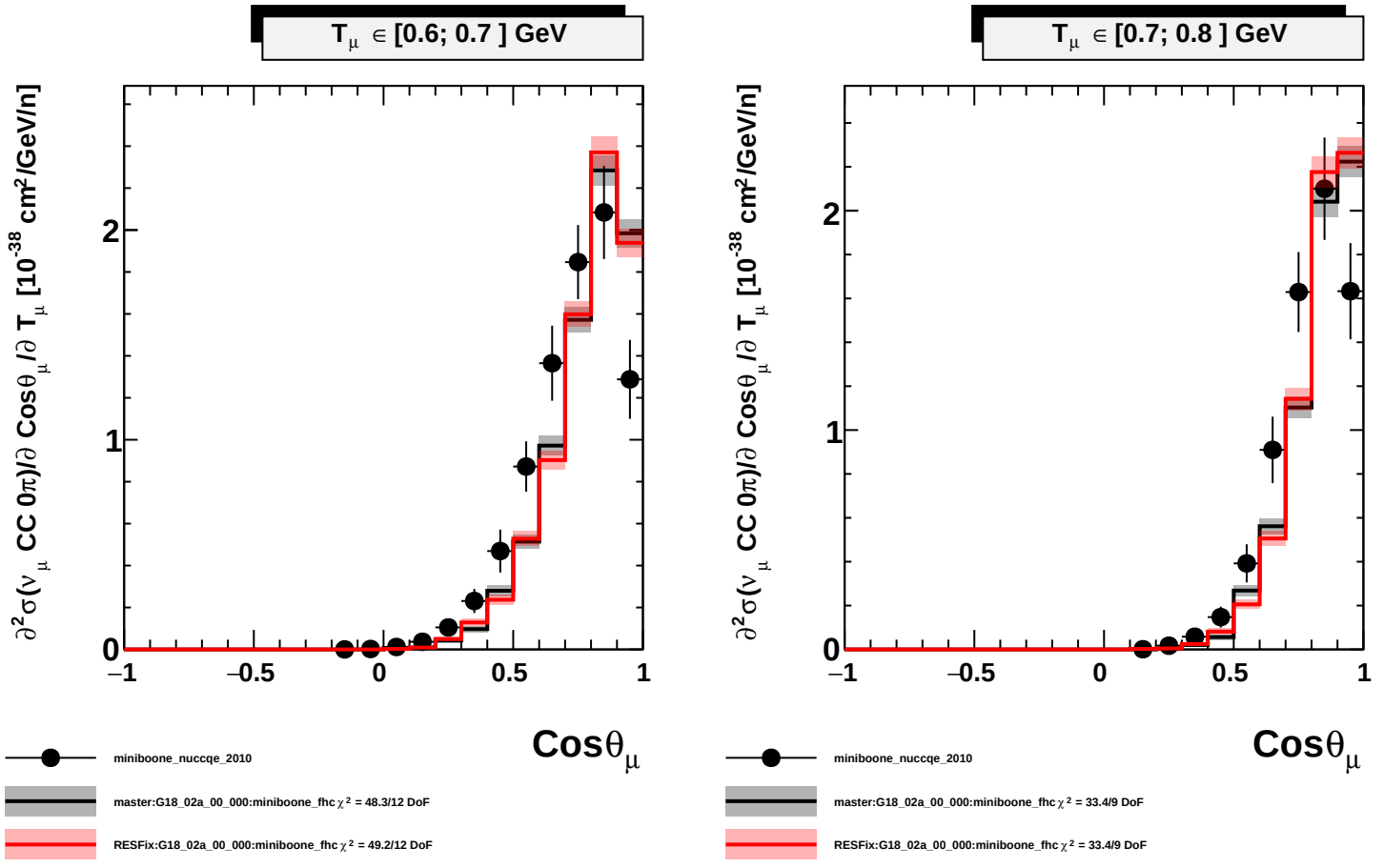
χ^2 **= 649.539/137 DoF**

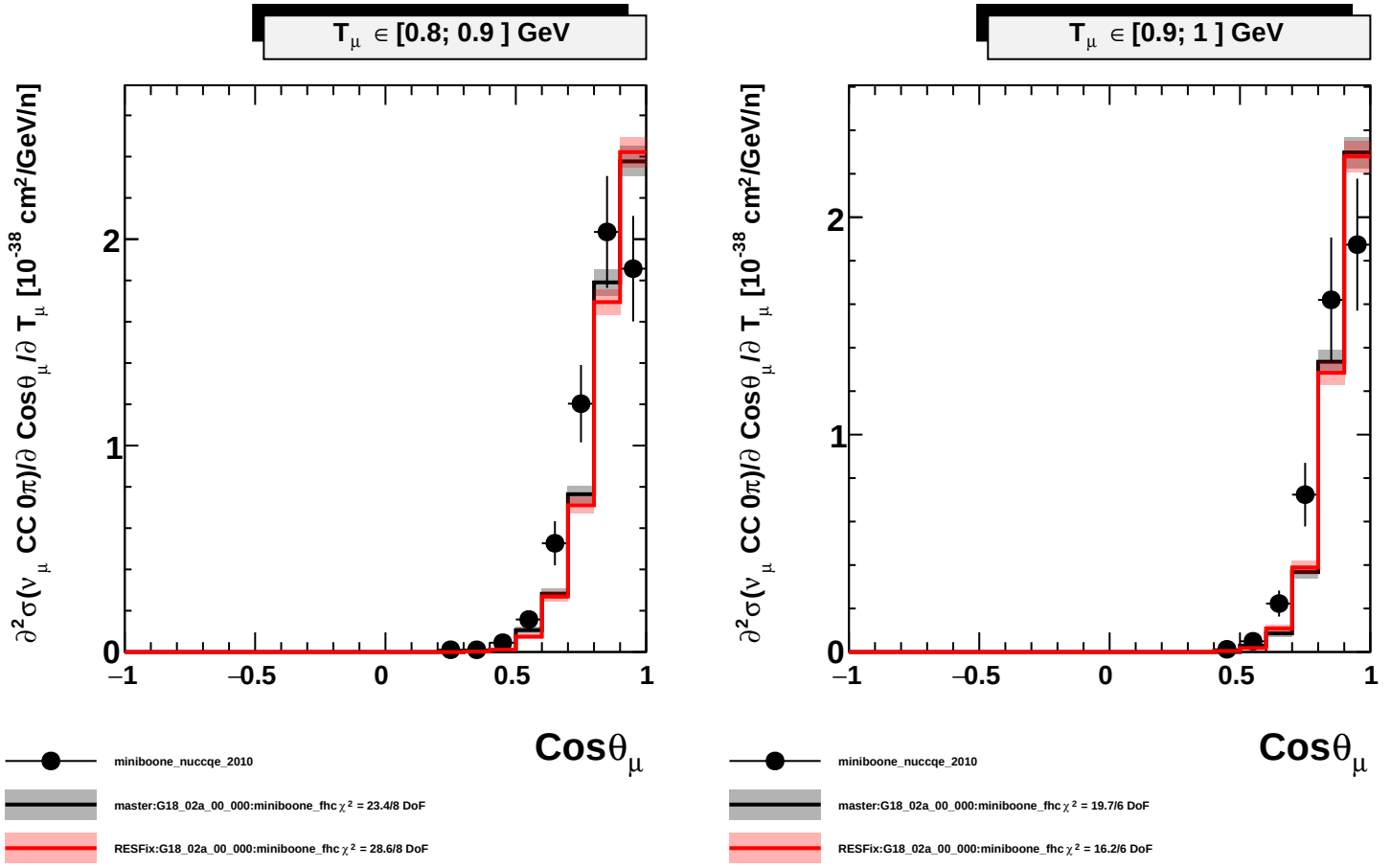


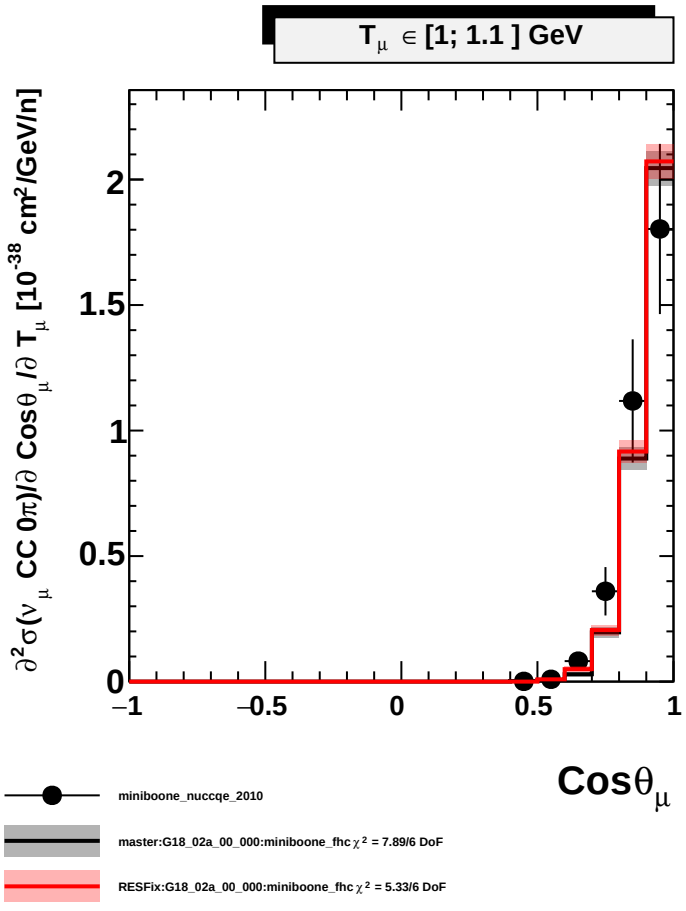


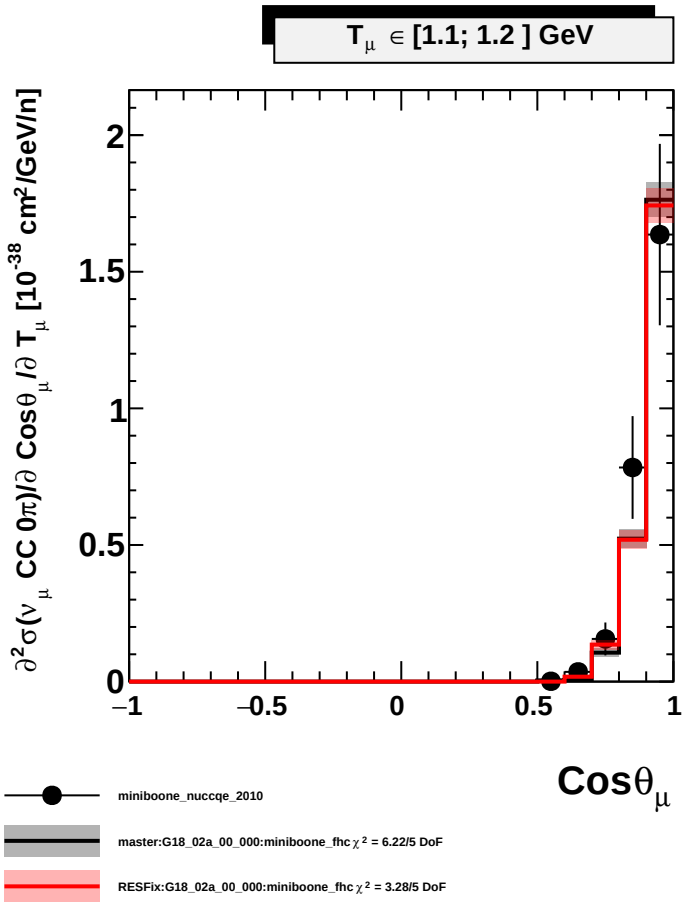


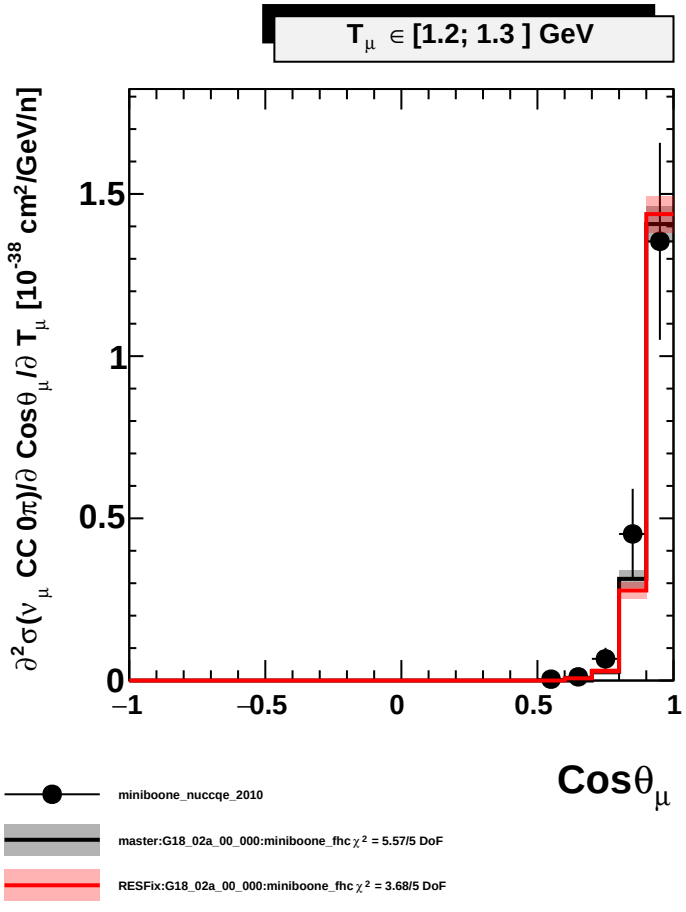

$T_\mu \in$ [0.2; 0.3] GeV
$T_\mu \in$ [0.3; 0.4] GeV
$T_\mu \in$ [0.4; 0.5] GeV
$T_\mu \in$ [0.5; 0.6] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ^-}/∂ T_{μ^-} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 220/20 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 223/20 DoF
master:G18_02a_00_000:miniboone_fhc χ^2 = 124/20 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 101/20 DoF
master:G18_02a_00_000:miniboone_fhc χ^2 = 97.6/17 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 103/17 DoF
master:G18_02a_00_000:miniboone_fhc χ^2 = 81/13 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 79.7/13 DoF

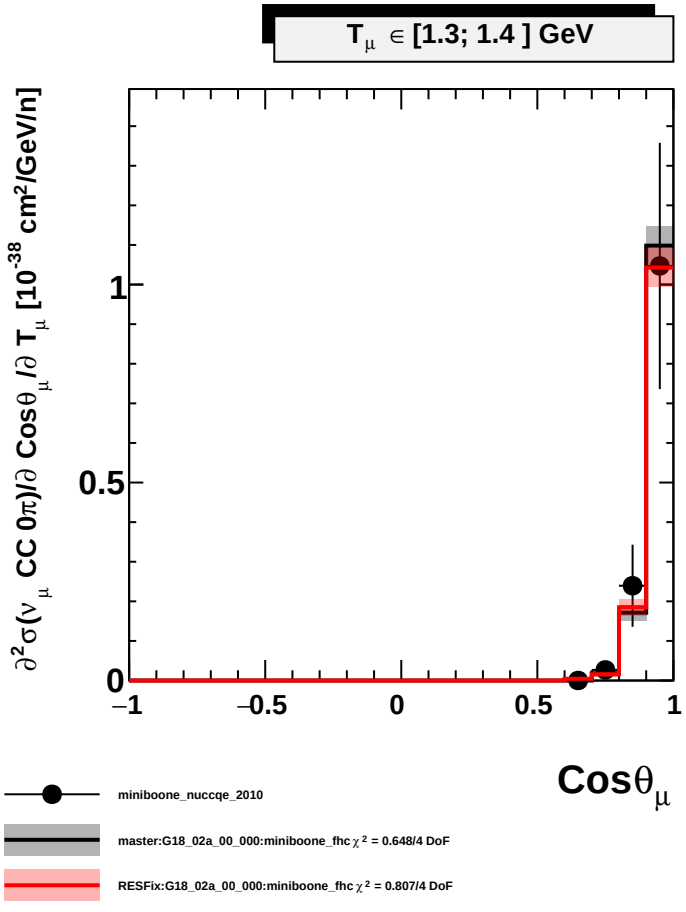

$T_\mu \in$ [0.6; 0.7] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T_{μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 48.3/12 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 49.2/12 DoF
$T_\mu \in$ [0.7; 0.8] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T_{μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 33.4/9 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 33.4/9 DoF

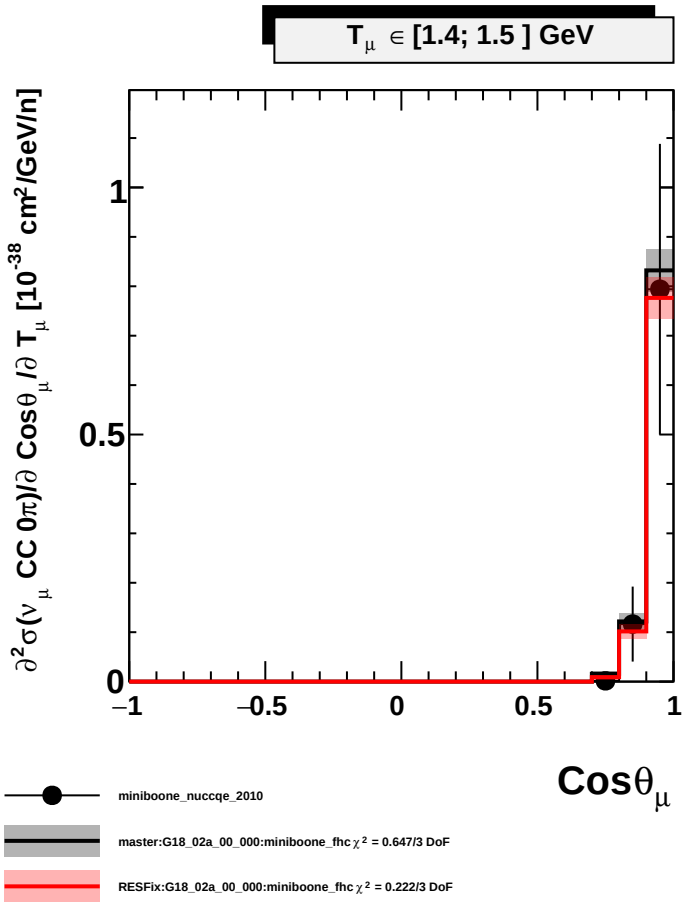

$T_\mu \in$ [0.8; 0.9] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T_{μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 23.4/8 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 28.6/8 DoF
$T_\mu \in$ [0.9; 1] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T_{μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 19.7/6 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 16.2/6 DoF

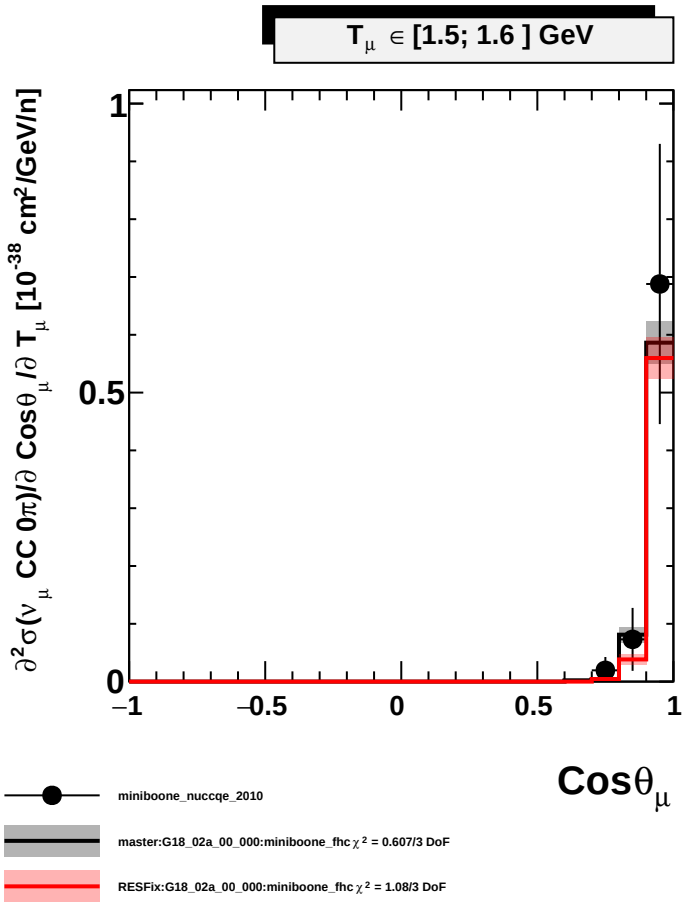

$T_\mu \in$ [1; 1.1] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ $T_{\mu^-\pi^+}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 7.89/6 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 5.33/6 DoF

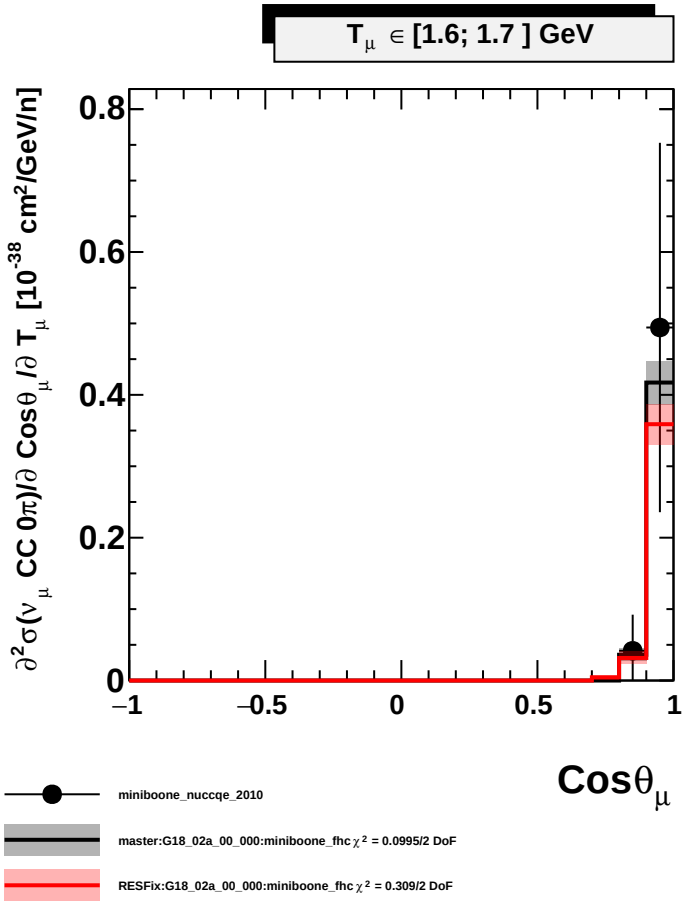

$T_\mu \in$ [1.1; 1.2] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ $T_{\mu^-\pi^+}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 6.22/5 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 3.28/5 DoF

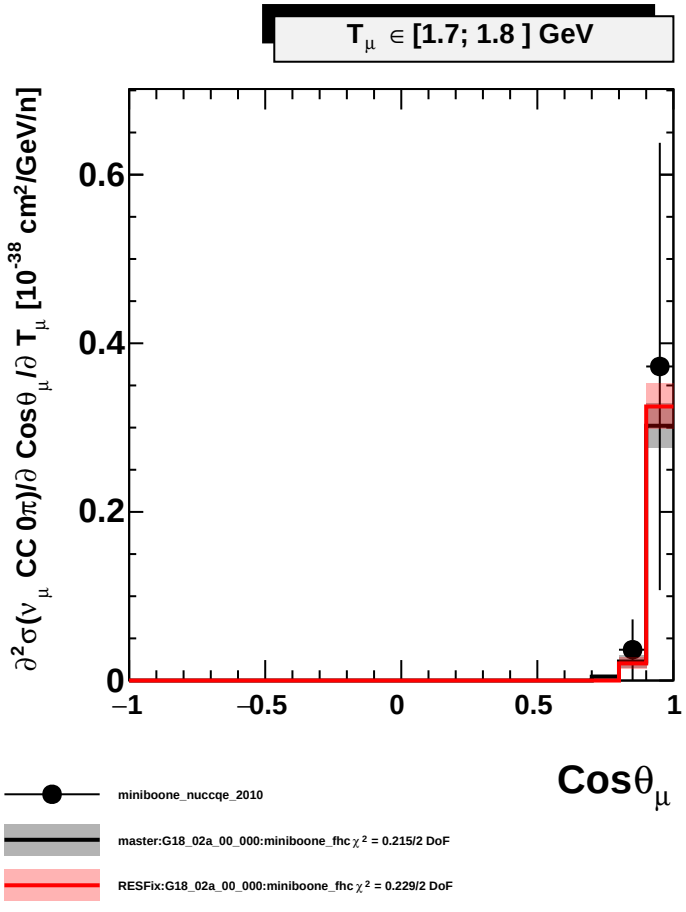

$T_\mu \in$ [1.2; 1.3] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ $T_{\mu^-\pi^+}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 5.57/5 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 3.68/5 DoF

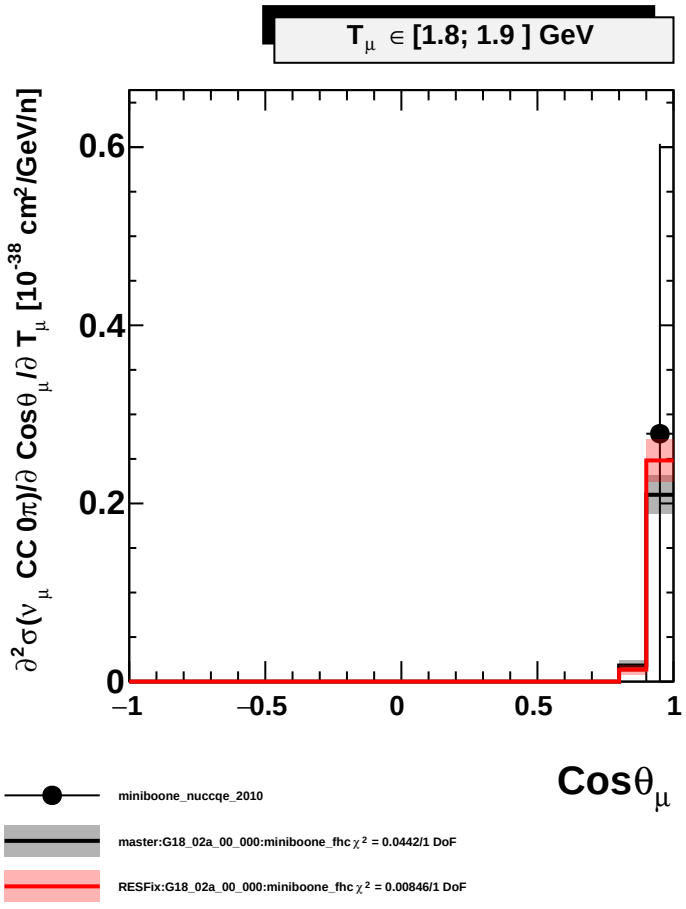

$T_\mu \in$ [1.3; 1.4] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ $T_{\mu^-\pi^+}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.648/4 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 0.807/4 DoF

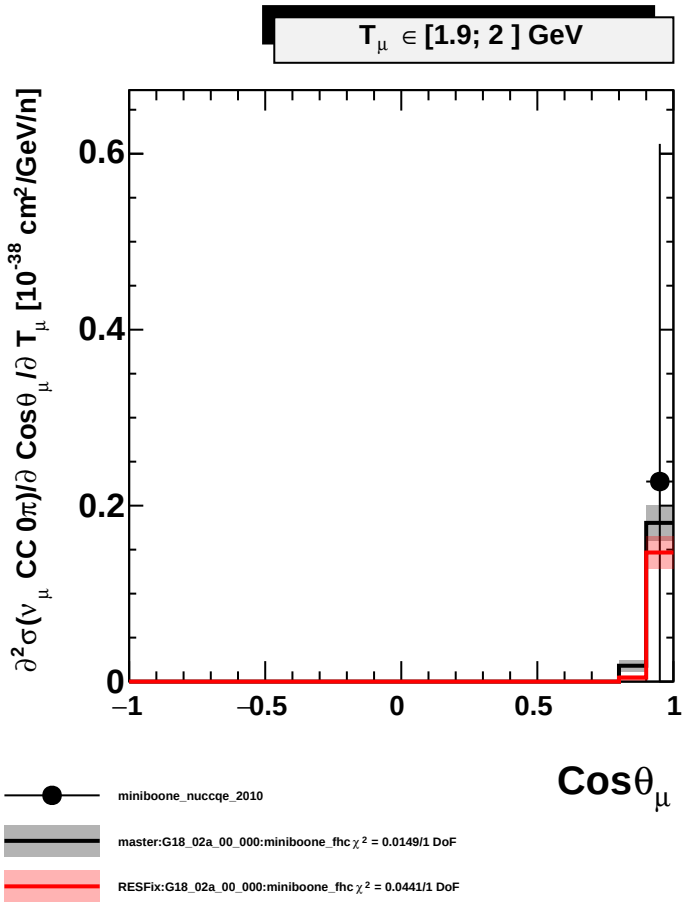

$T_\mu \in [1.4; 1.5]$ GeV
$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial$ Cos$\theta_{\mu}/\partial T_{\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.647/3 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 0.222/3 DoF

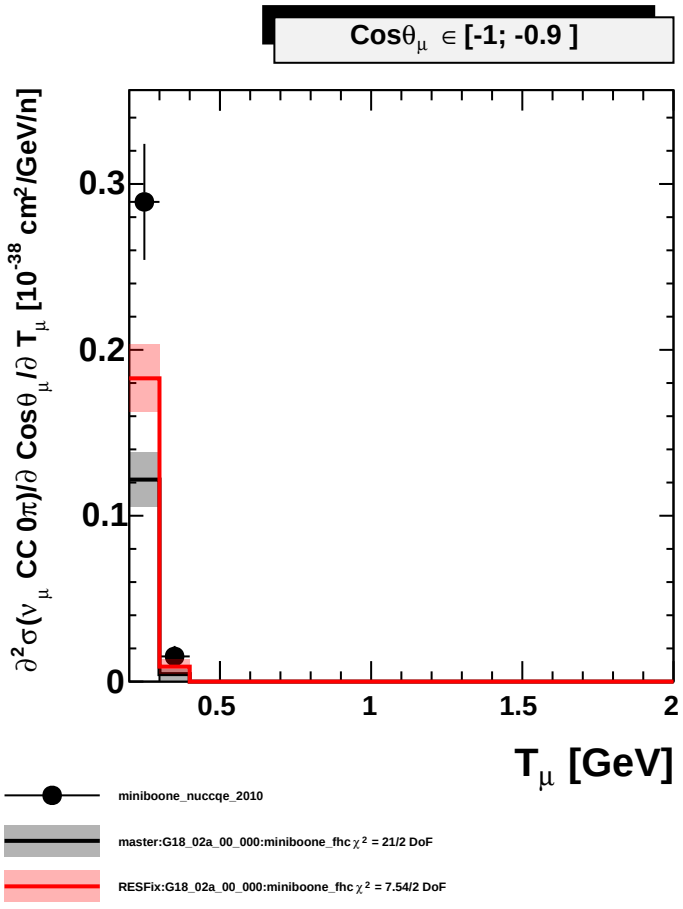

$T_\mu \in [1.5; 1.6]$ GeV
$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial$ Cos$\theta_{\mu}/\partial T_{\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.607/3 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 1.08/3 DoF

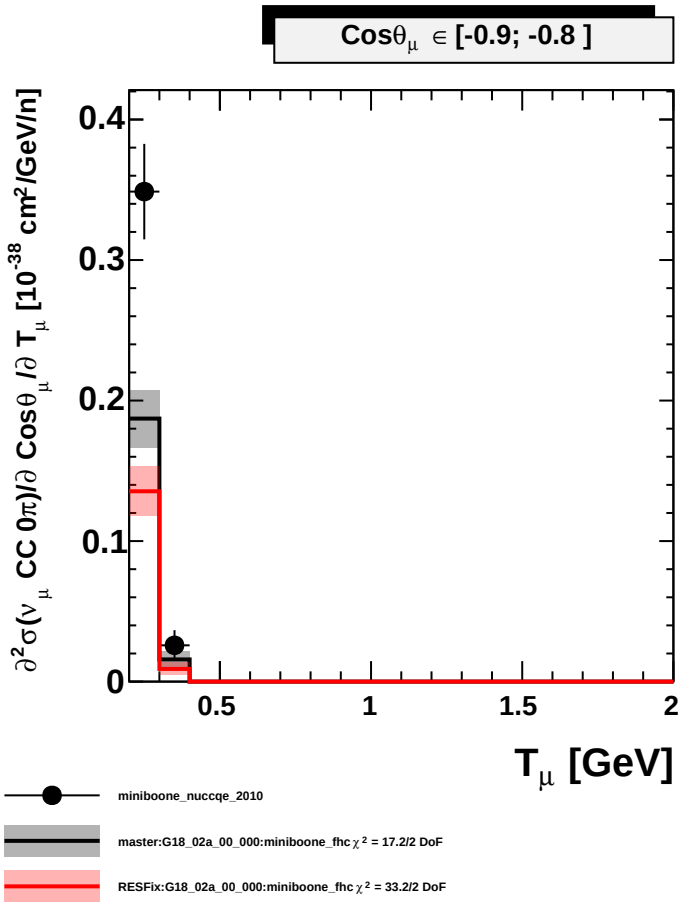

$T_\mu \in [1.6; 1.7]$ GeV
$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial$ Cos$\theta_{\mu}/\partial T_{\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.0995/2 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 0.309/2 DoF

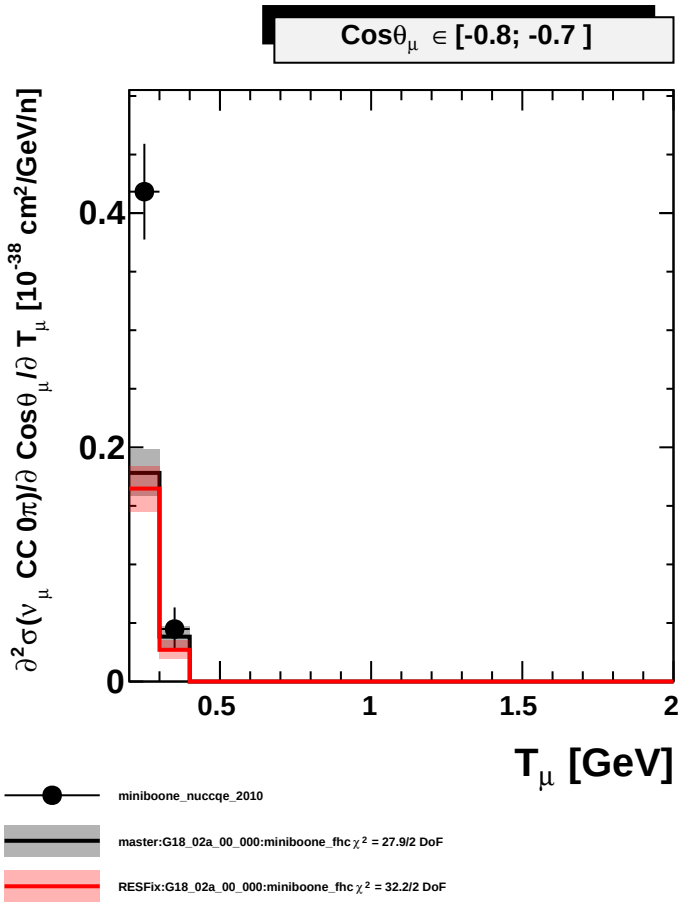

$T_\mu \in [1.7; 1.8]$ GeV
$\partial^2\sigma(\nu_\mu$ CC $0\pi)/\partial$ Cos$\theta_{\mu}/\partial T_{\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.215/2 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 0.229/2 DoF

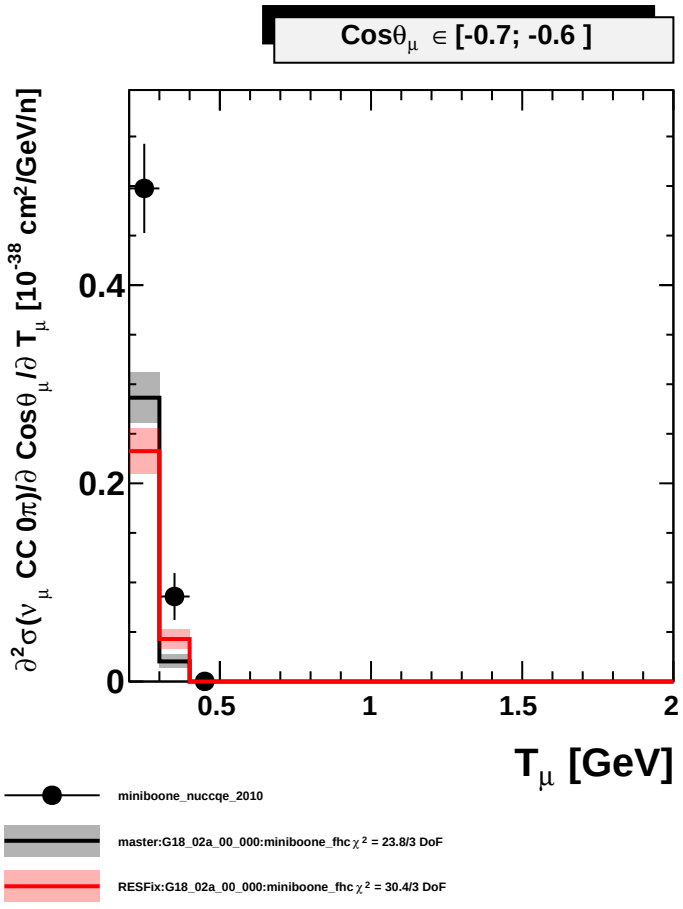

$T_\mu \in$ [1.8; 1.9] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_μ [10^{-38} cm^2/GeV/n]
0.6
0.4
0.2
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.0442/1 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 0.00846/1 DoF

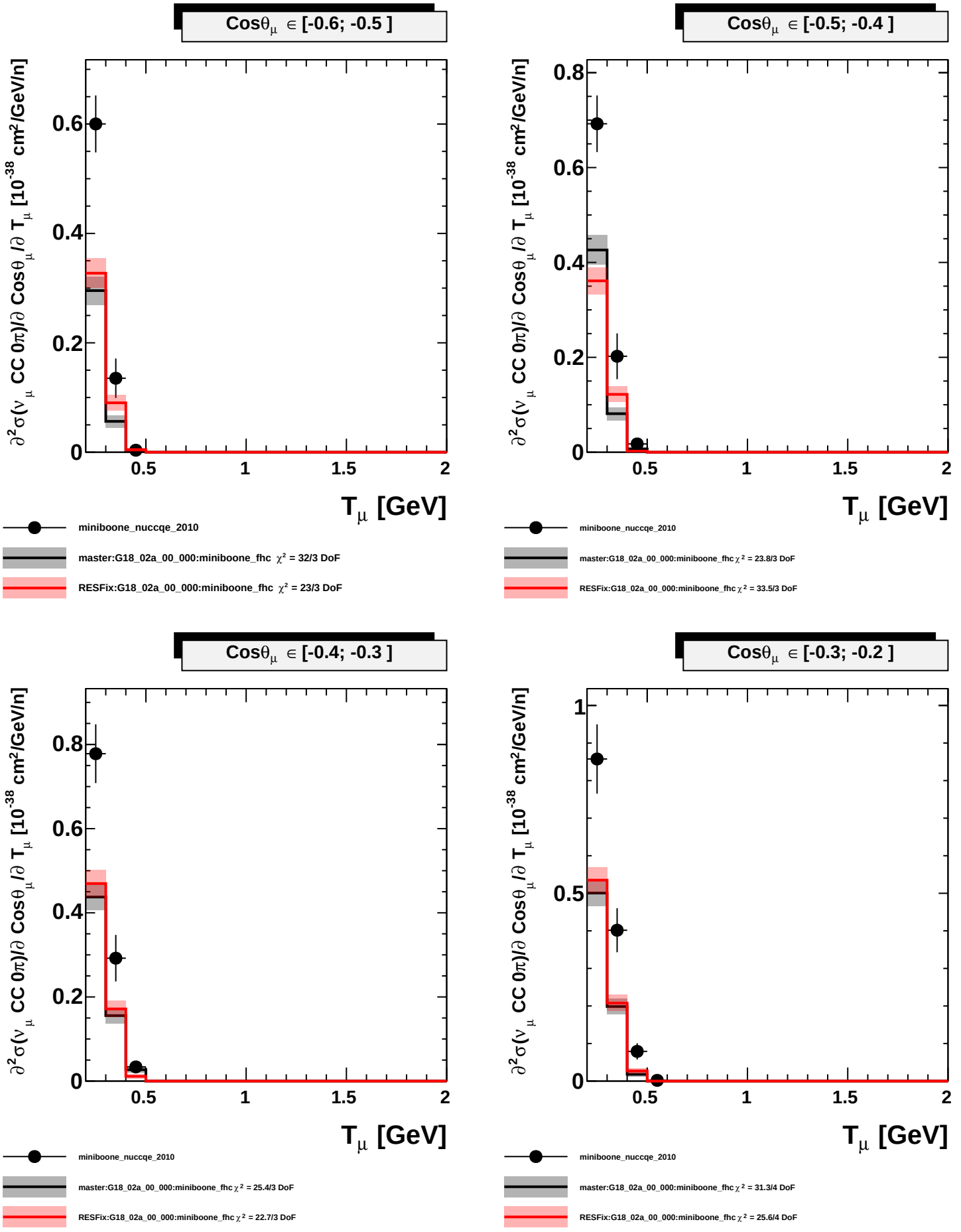

$T_\mu \in$ [1.9; 2] GeV
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_μ [10^{-38} cm^2/GeV/n]
0.6
0.4
0.2
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 0.0149/1 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 0.0441/1 DoF

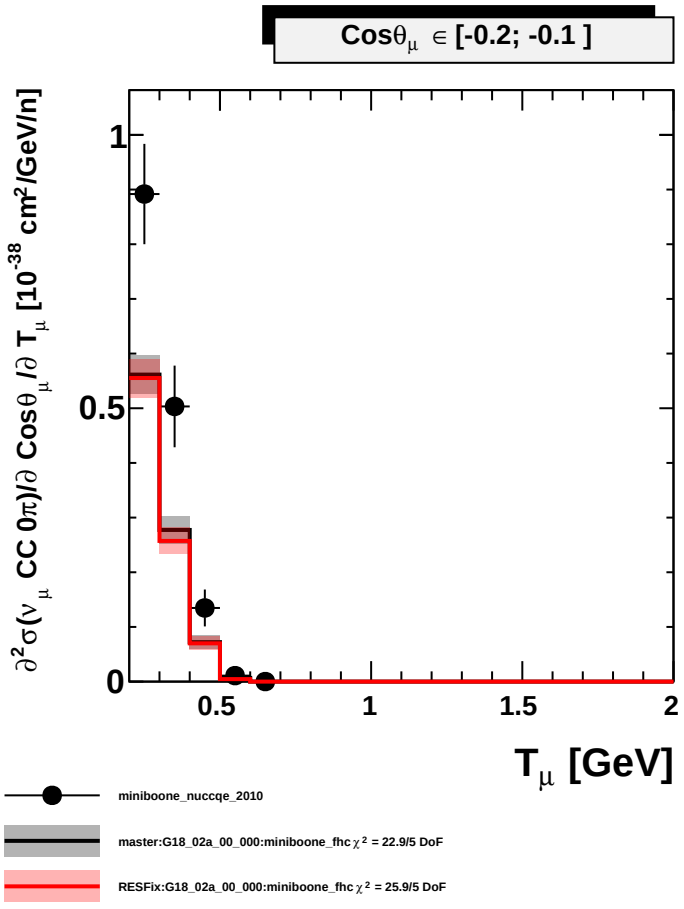

Cosθ$_\mu$ ∈ [-1; -0.9]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T$_{\mu}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 21/2 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 7.54/2 DoF

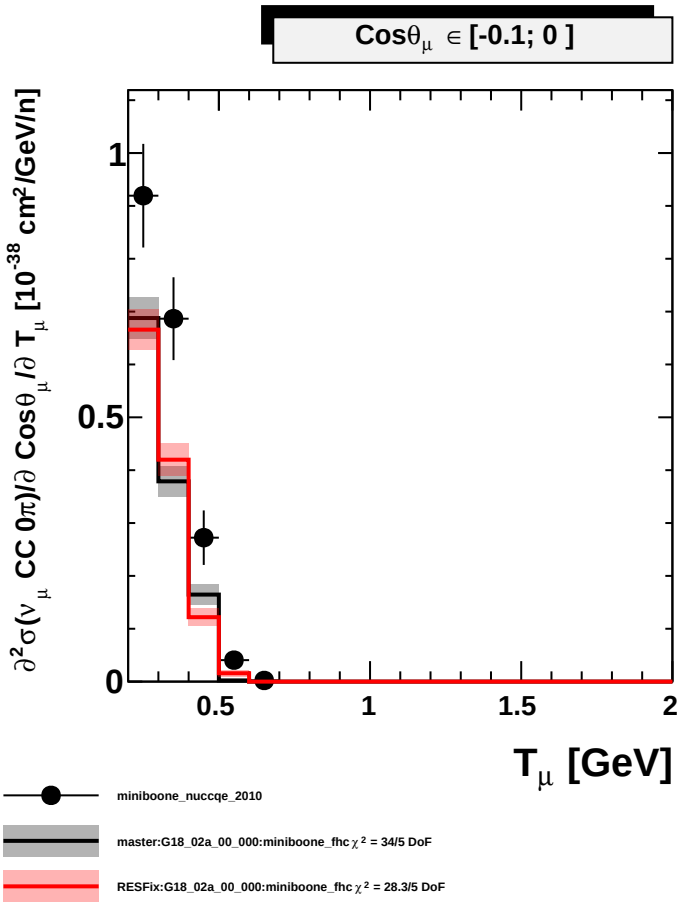

Cosθ$_\mu$ ∈ [-0.9; -0.8]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T$_{\mu}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 17.2/2 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 33.2/2 DoF

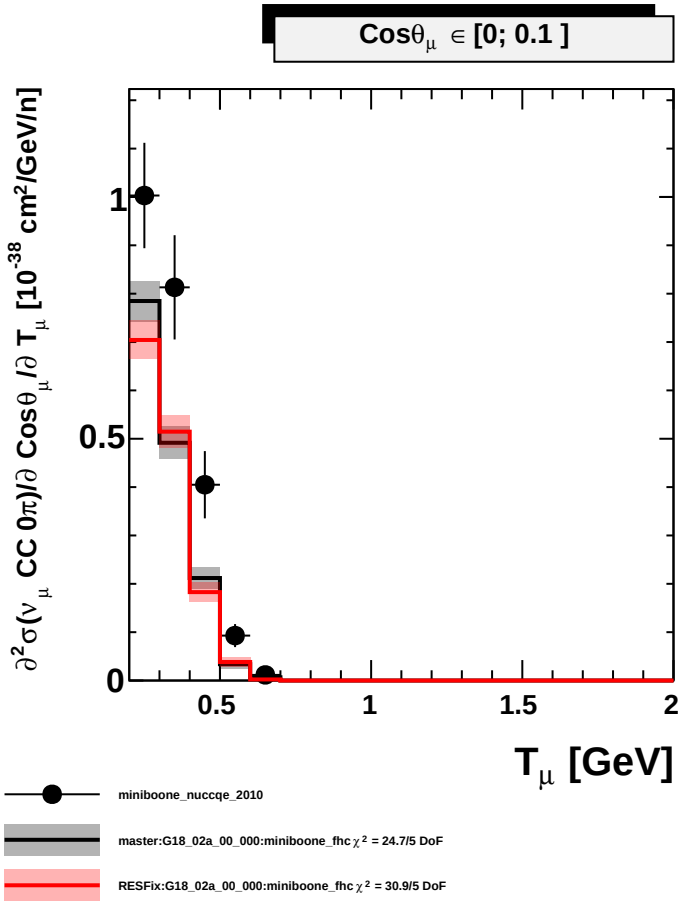

Cosθ$_\mu$ ∈ [-0.8; -0.7]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T$_{\mu}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 27.9/2 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 32.2/2 DoF

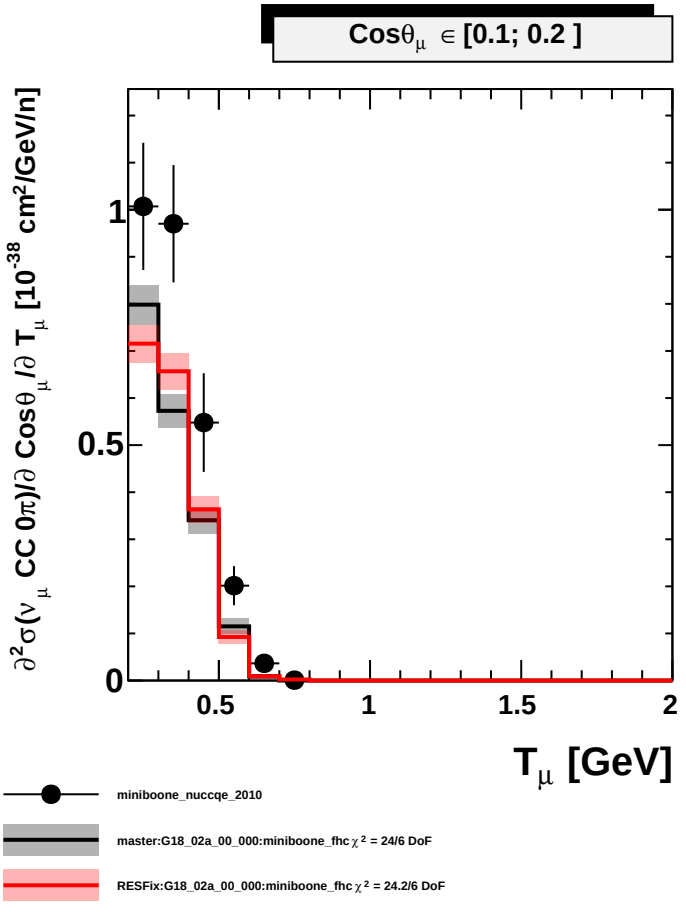

Cosθ$_\mu$ ∈ [-0.7; -0.6]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ_{μ} /∂ T$_{\mu}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 23.8/3 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 30.4/3 DoF

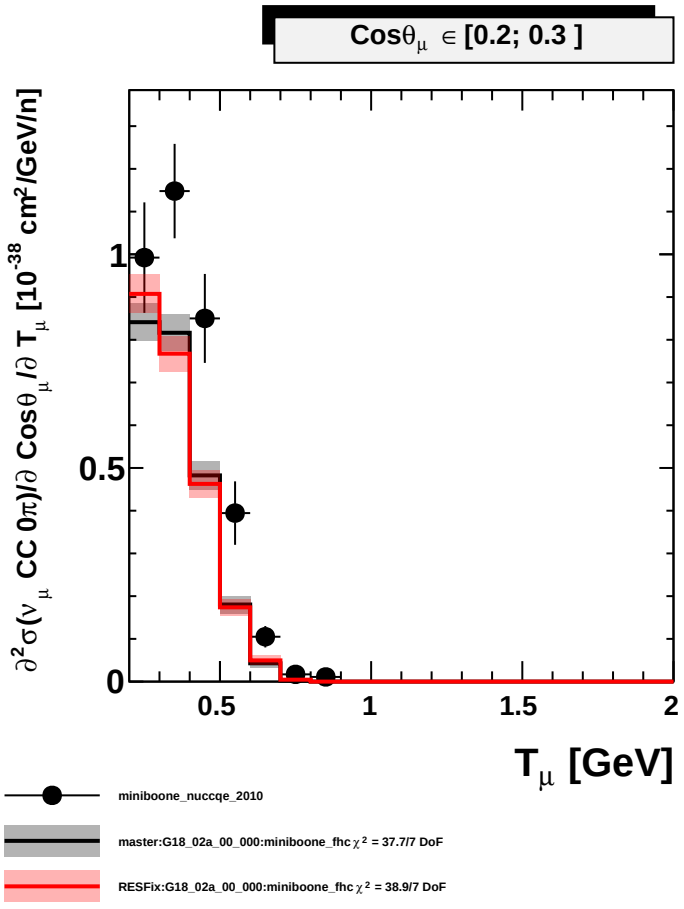

Cosθμ ∈ [-0.6; -0.5]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 32/3 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 23/3 DoF
Cosθμ ∈ [-0.5; -0.4]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 23.8/3 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 33.5/3 DoF
Cosθμ ∈ [-0.4; -0.3]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 25.4/3 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 22.7/3 DoF
Cosθμ ∈ [-0.3; -0.2]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 31.3/4 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 25.6/4 DoF

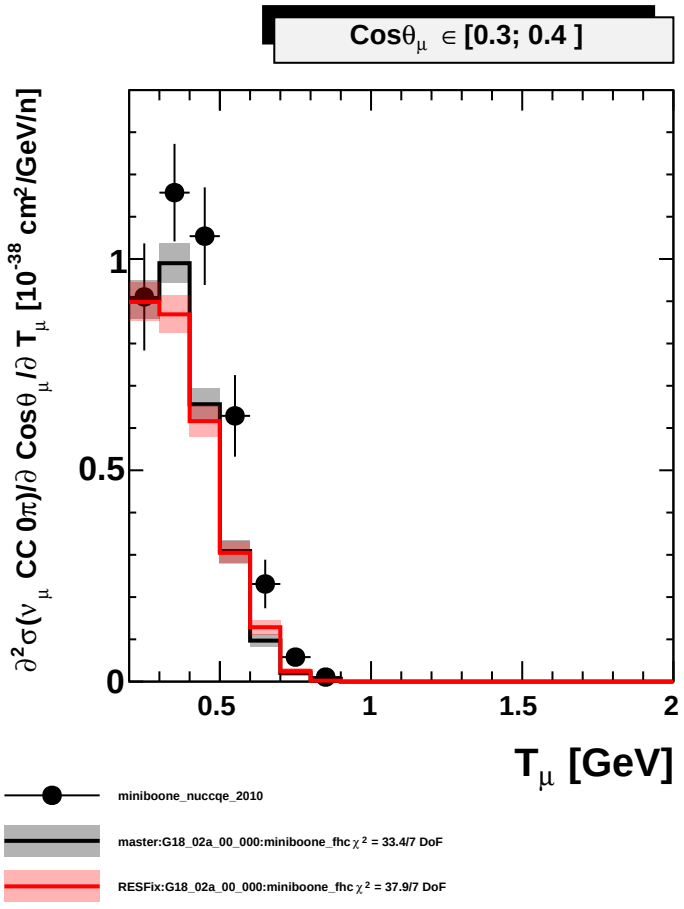

Cosθμ ∈ [-0.2; -0.1]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 22.9/5 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 25.9/5 DoF

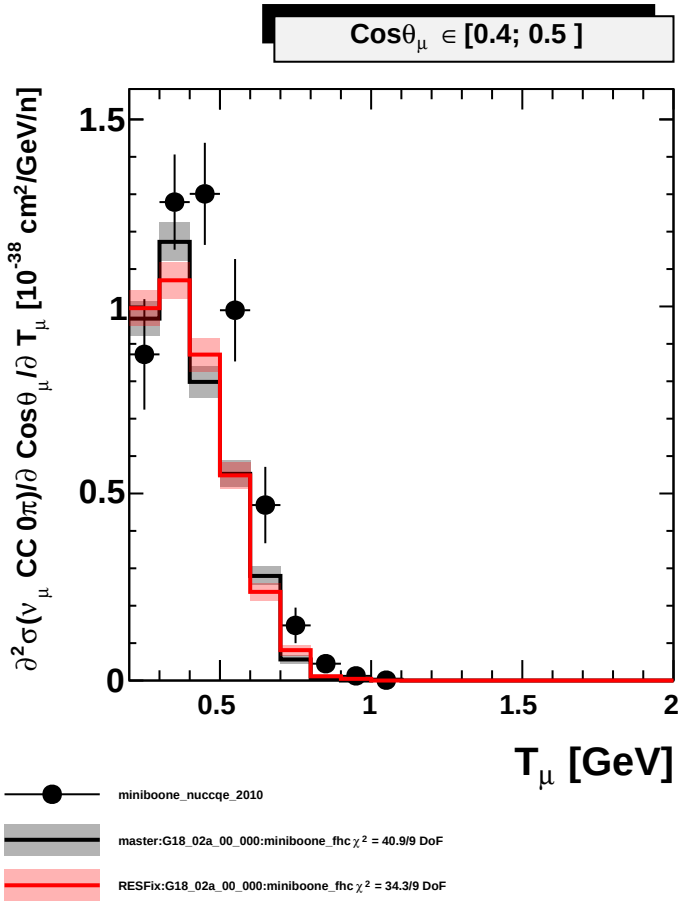

Cosθμ ∈ [-0.1; 0]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 34/5 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 28.3/5 DoF

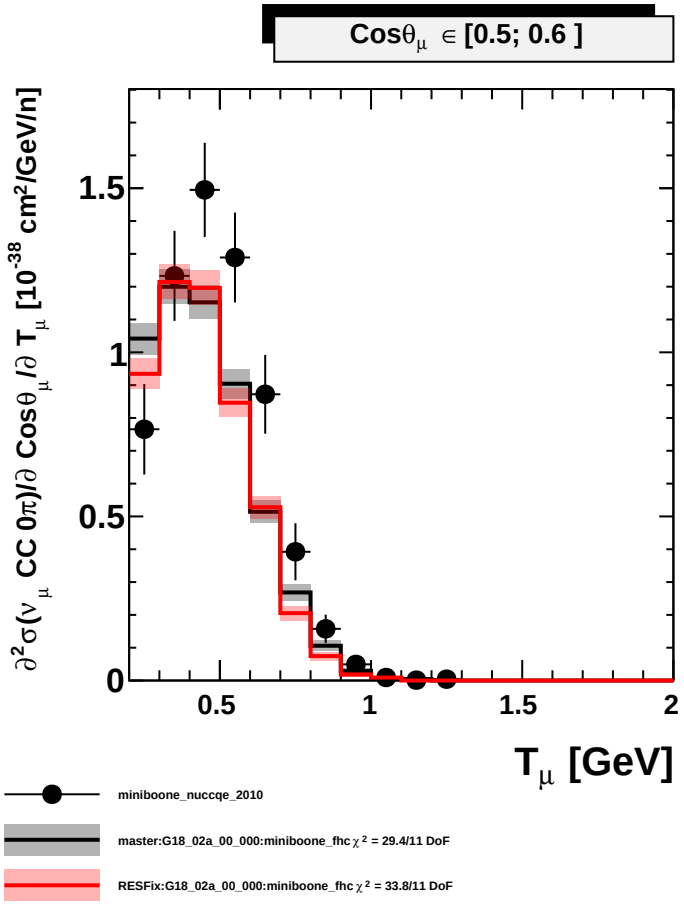

Cosθμ ∈ [0; 0.1]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 24.7/5 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 30.9/5 DoF

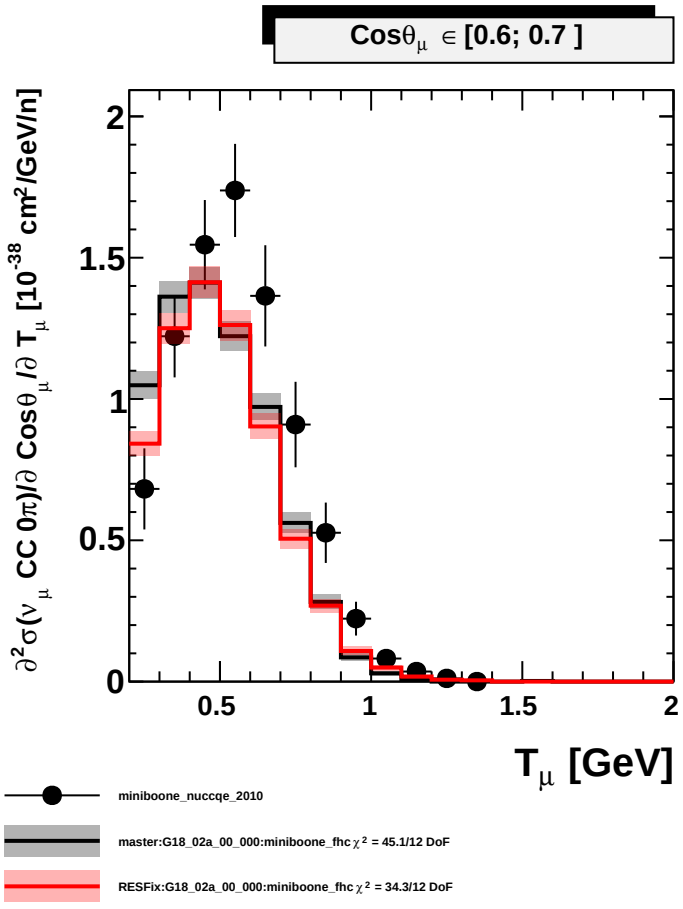

Cosθμ ∈ [0.1; 0.2]
∂²σ(νμ CC 0π)/∂ Cosθμπ/∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 24/6 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 24.2/6 DoF

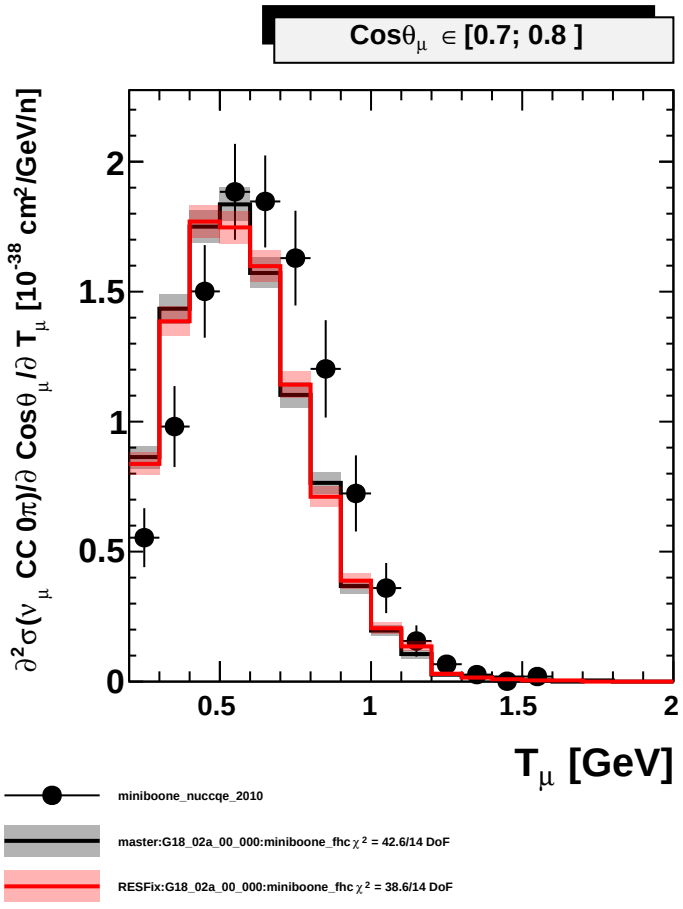

Cosθμ ∈ [0.2; 0.3]
∂²σ(νμ CC 0π)/∂ Cosθμπ /∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 37.7/7 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 38.9/7 DoF

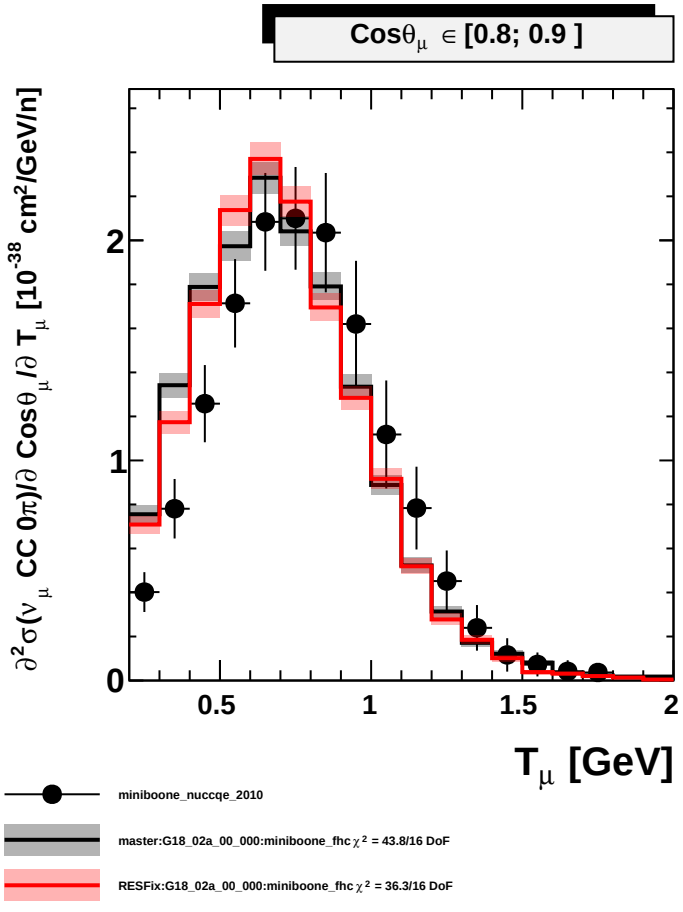

Cosθμ ∈ [0.3; 0.4]
∂²σ(νμ CC 0π)/∂ Cosθμπ /∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 33.4/7 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 37.9/7 DoF

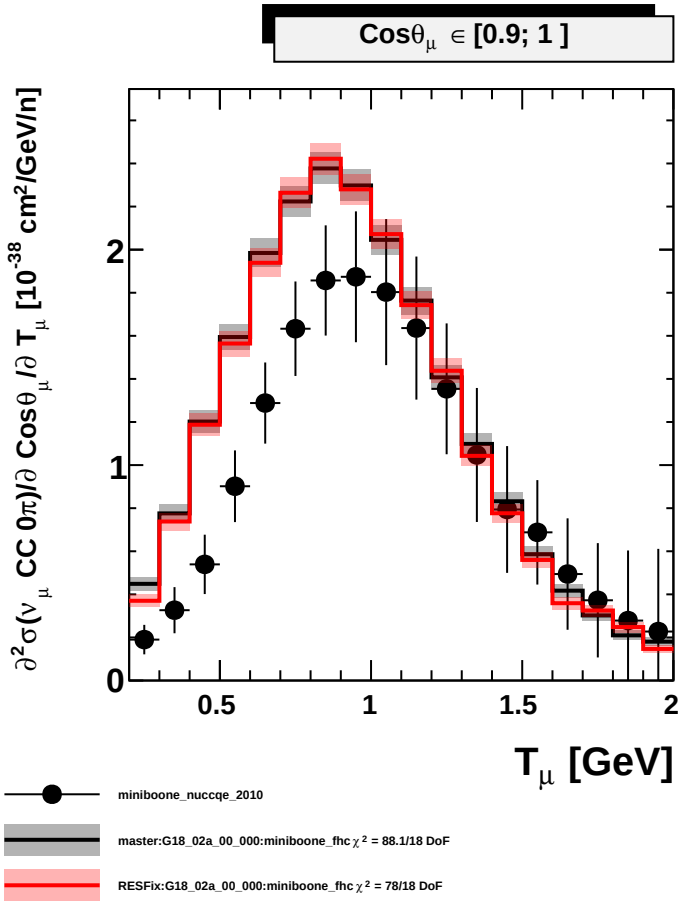

Cosθμ ∈ [0.4; 0.5]
∂²σ(νμ CC 0π)/∂ Cosθμπ /∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 40.9/9 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 34.3/9 DoF


Cosθμ ∈ [0.5; 0.6]
∂²σ(νμ CC 0π)/∂ Cosθμπ /∂ Tμπ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ² = 29.4/11 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ² = 33.8/11 DoF


Cosθ$_\mu$ ∈ [0.6; 0.7]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ /∂ T$_{\mu^-}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 45.1/12 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 34.3/12 DoF


Cosθ$_\mu$ ∈ [0.7; 0.8]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ /∂ T$_{\mu^-}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 42.6/14 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 38.6/14 DoF


Cosθ$_\mu$ ∈ [0.8; 0.9]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ /∂ T$_{\mu^-}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 43.8/16 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 36.3/16 DoF


Cosθ$_\mu$ ∈ [0.9; 1]
$\partial^2\sigma(\nu_\mu$ CC 0π)/∂ Cosθ /∂ T$_{\mu^-}$ [10^{-38} cm^2/GeV/n]
T$_\mu$ [GeV]
miniboone_nuccqe_2010
master:G18_02a_00_000:miniboone_fhc χ^2 = 88.1/18 DoF
RESFix:G18_02a_00_000:miniboone_fhc χ^2 = 78/18 DoF

Dataset:

miniboone_nubarccqe_2013

Models:

master/G18_02a_00_000 χ^2 = 124 / 78 DoF

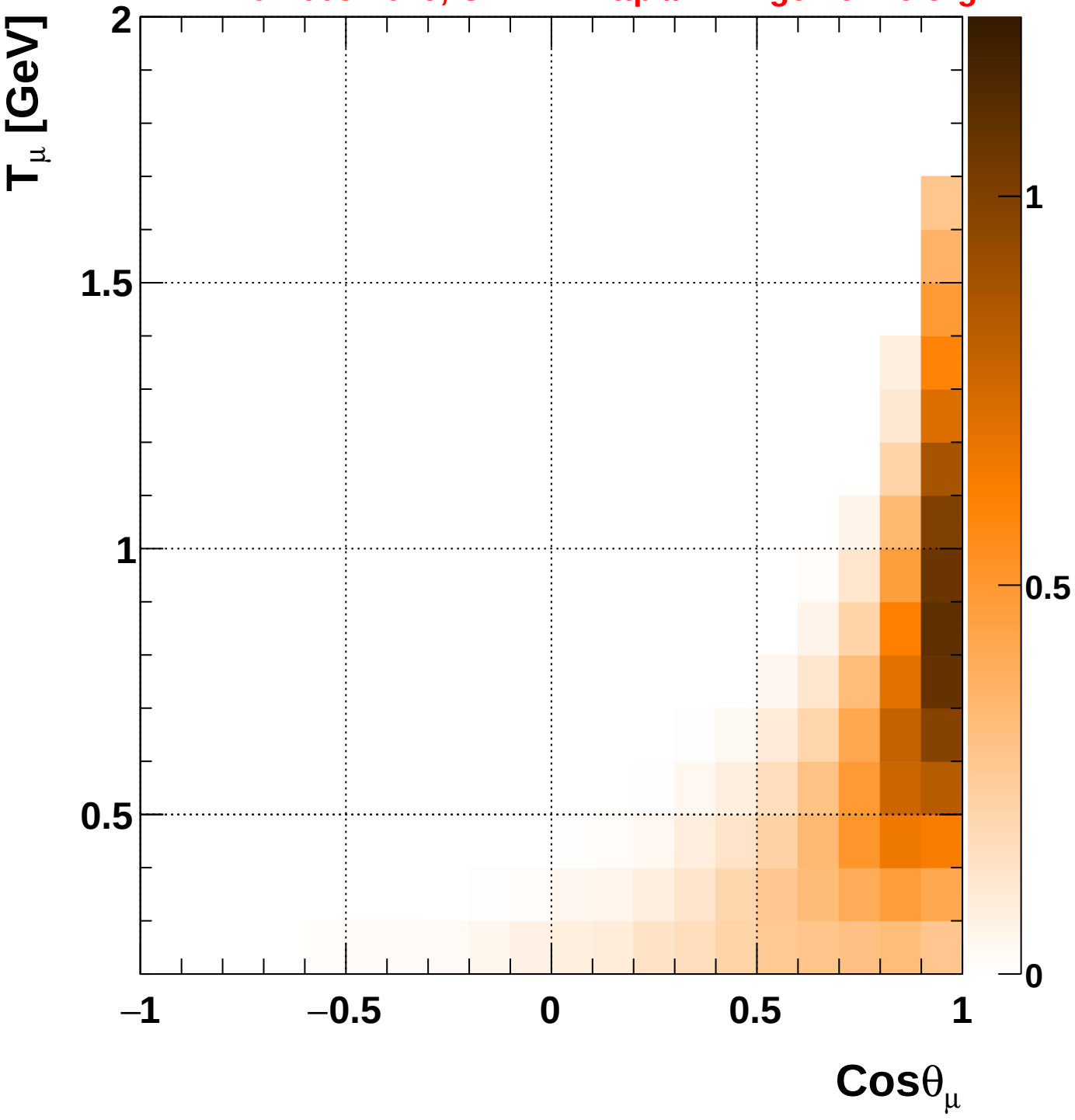
RESFix/G18_02a_00_000 χ^2 = 116 / 78 DoF

Plot:

$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T$_\mu$

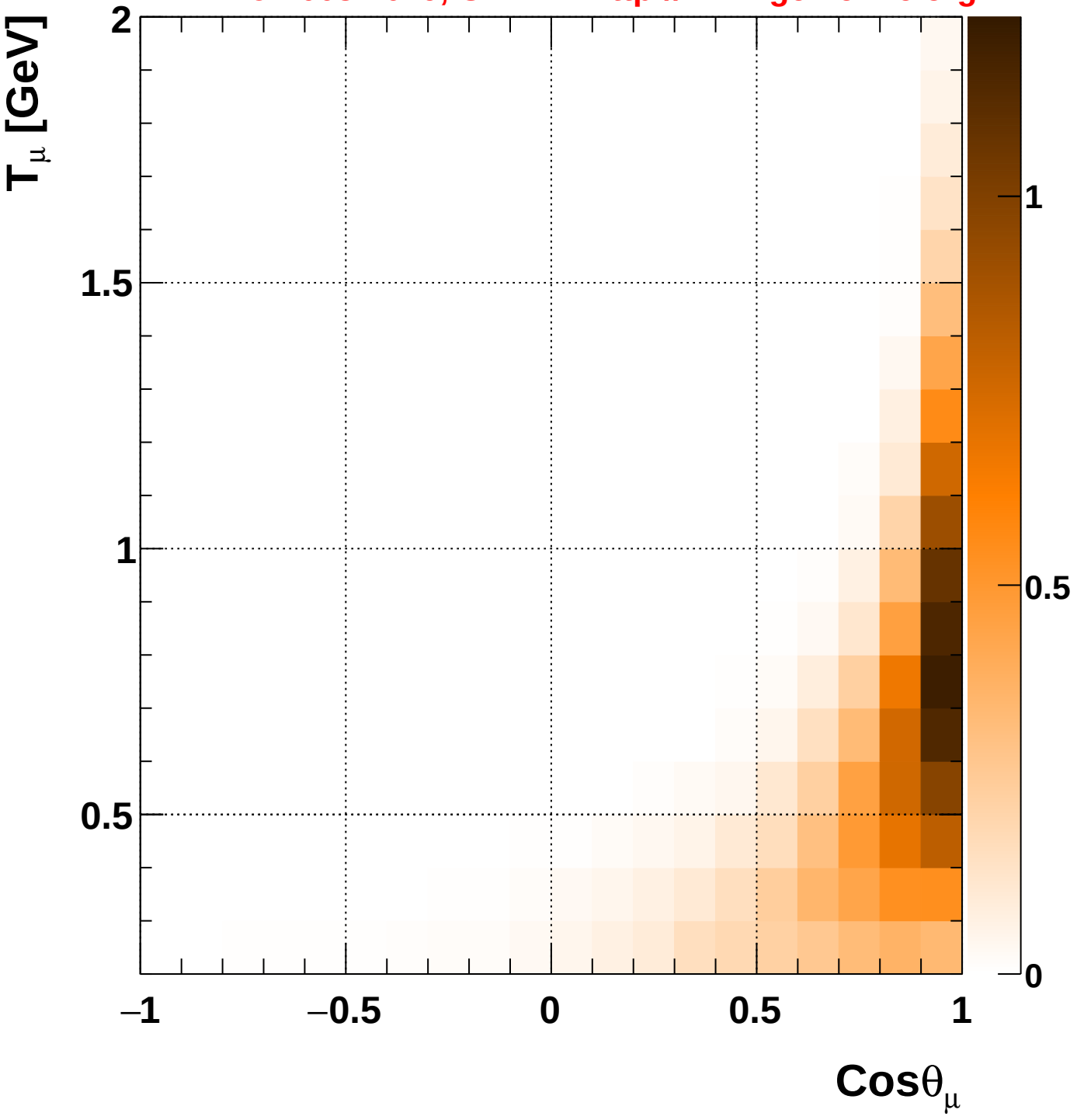
78 DoF, χ^2 = 124 116

2019/11/05 13:39:10



$\partial^2\sigma(\overline{\nu}_\mu$ CC $0\pi)/\partial\ \mathrm{Cos}\theta_\mu/\partial\ T_\mu$ [10^{-38} cm^2/GeV/n]

Data: miniboone_nubarccqe_2013



$\partial^2\sigma(\overline{\nu}_\mu$ CC $0\pi)/\partial\ \mathrm{Cos}\theta_\mu/\partial\ T_\mu$ [10^{-38} cm^2/GeV/n]

Pred: master:G18_02a_00_000:miniboone_rhc

miniboone_nubarccqe_2013

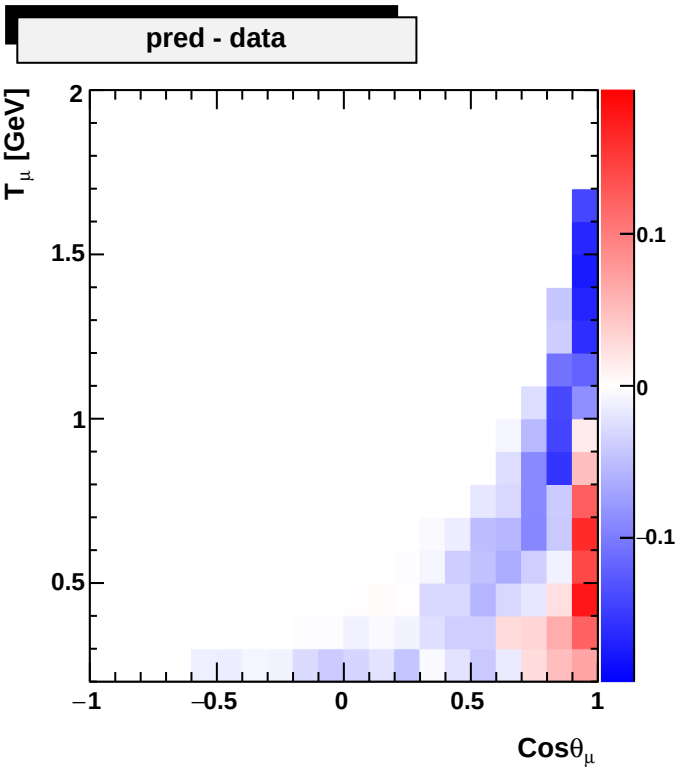
VS

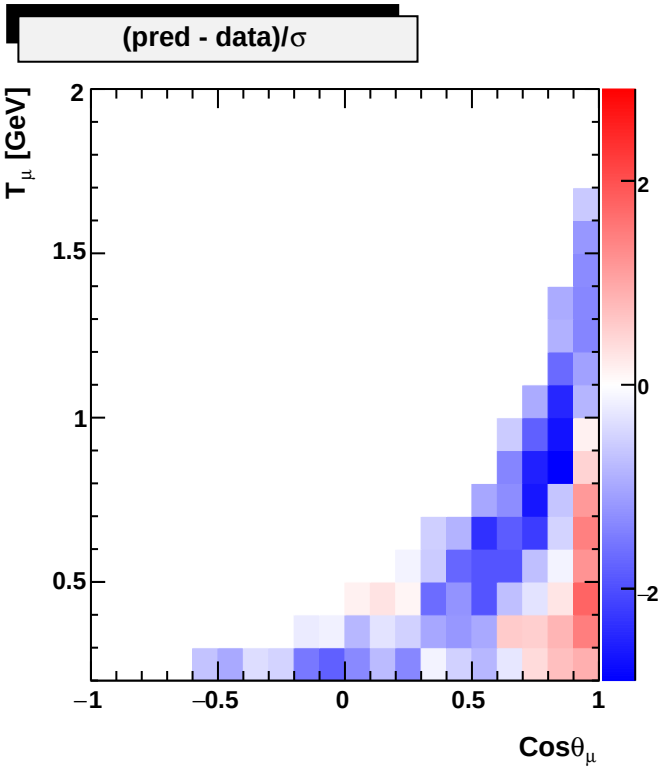
master:G18_02a_00_000:miniboone_rhc

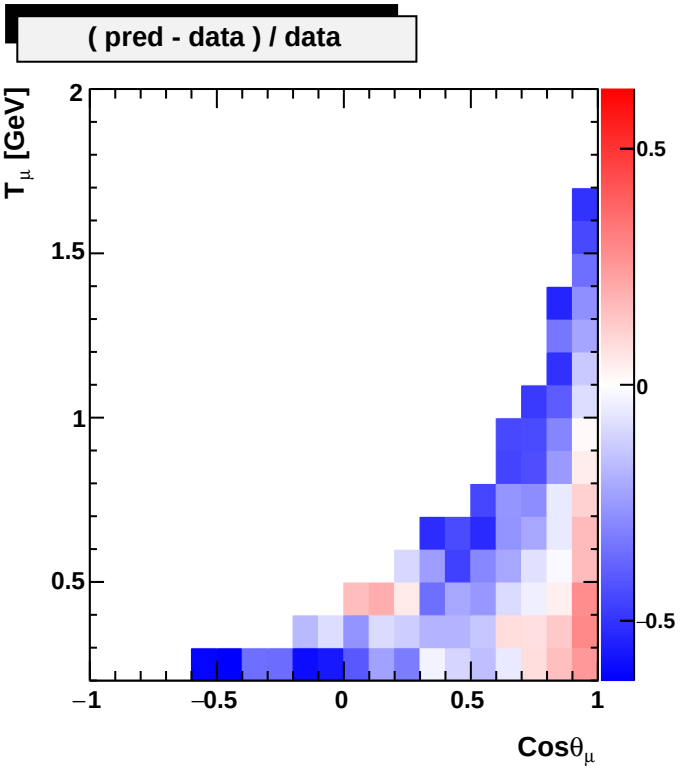
$\partial^2\sigma(\overline{\nu}_\mu$ **CC 0**π**)/**∂ **Cos**θ_μ**/**∂ **T**$_\mu$

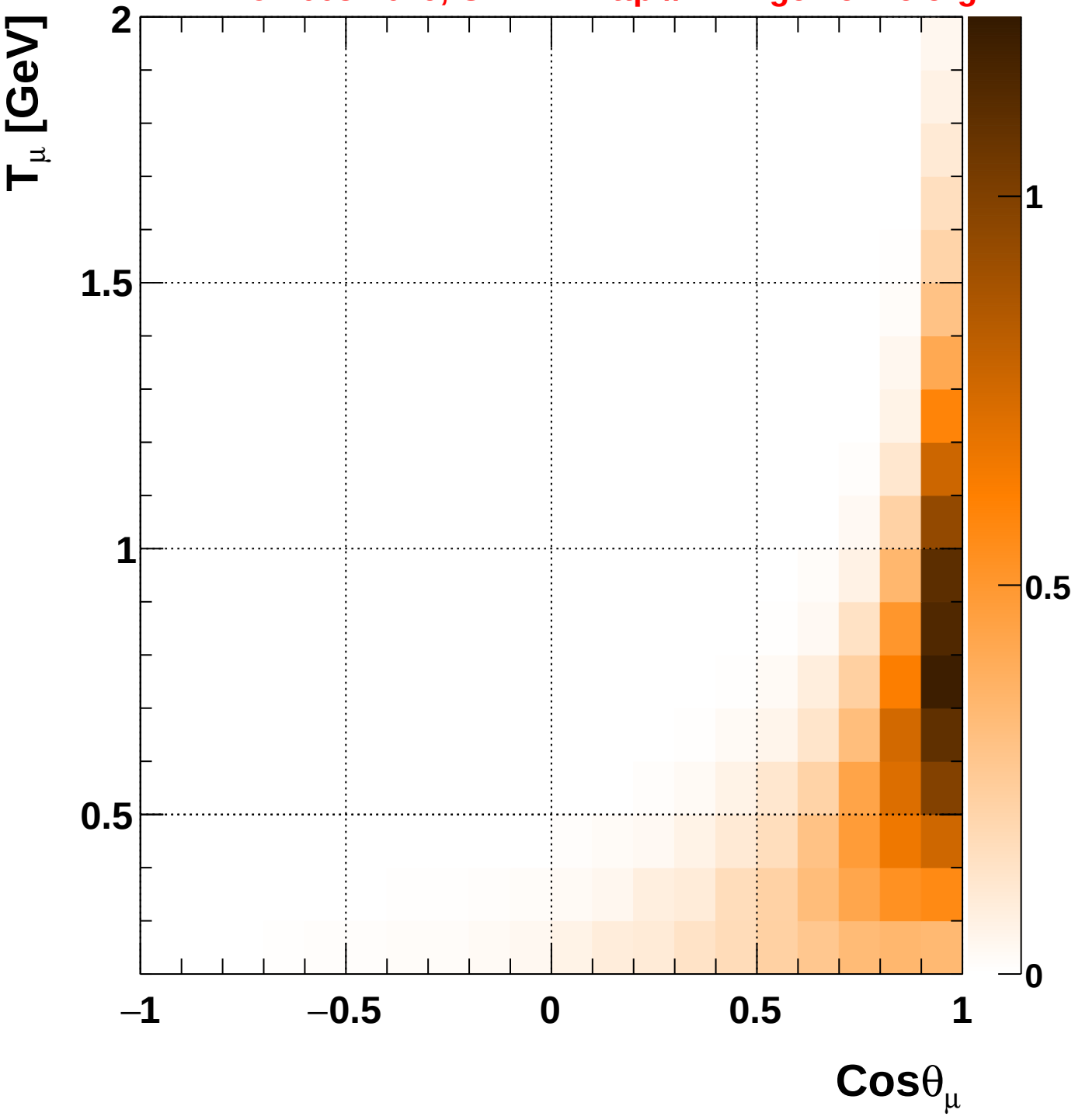
[10^{-38} **cm**^{2}**/GeV/n]**

χ^2 **= 124.269/78 DoF**









$\partial^2\sigma(\overline{\nu}_\mu$ CC $0\pi)/\partial\ \text{Cos}\theta_\mu/\partial\ T_\mu$ [10^{-38} cm^2/GeV/n]

Pred: RESFix:G18_02a_00_000:miniboone_rhc

miniboone_nubarccqe_2013

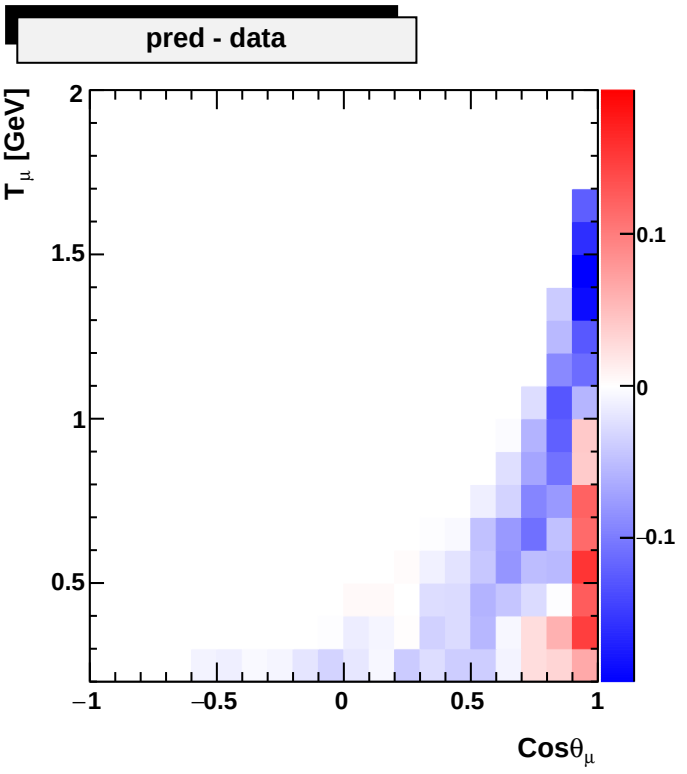
VS

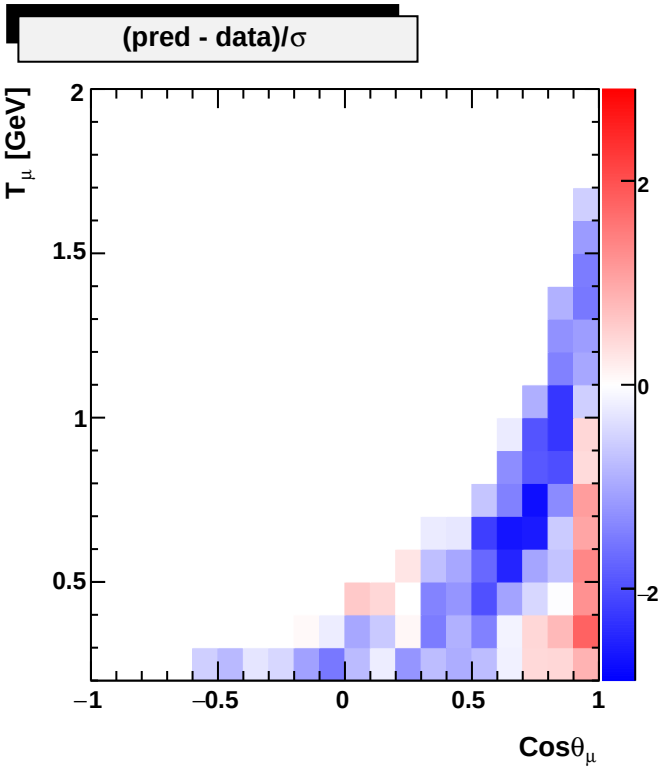
RESFix:G18_02a_00_000:miniboone_rhc

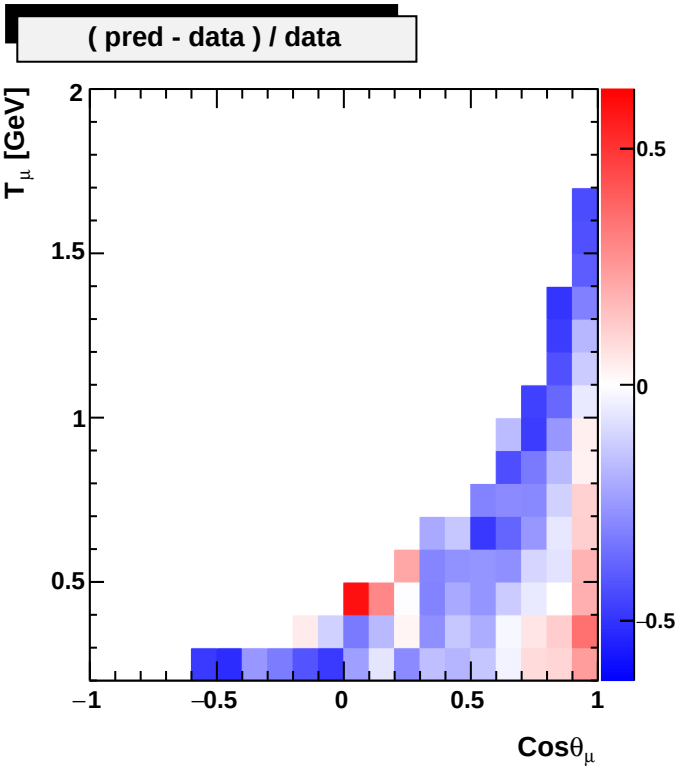
$\partial^2\sigma(\overline{\nu}_\mu$ **CC 0**$\pi)/\partial$ **Cos**θ_μ/∂ **T**$_\mu$

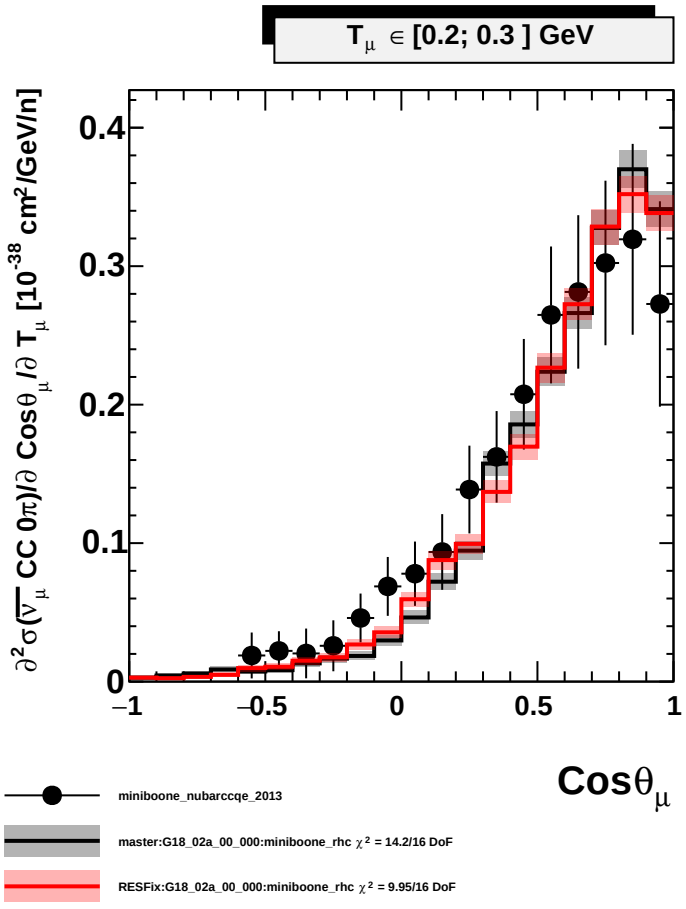
[10^{-38} **cm**^{2}**/GeV/n]**

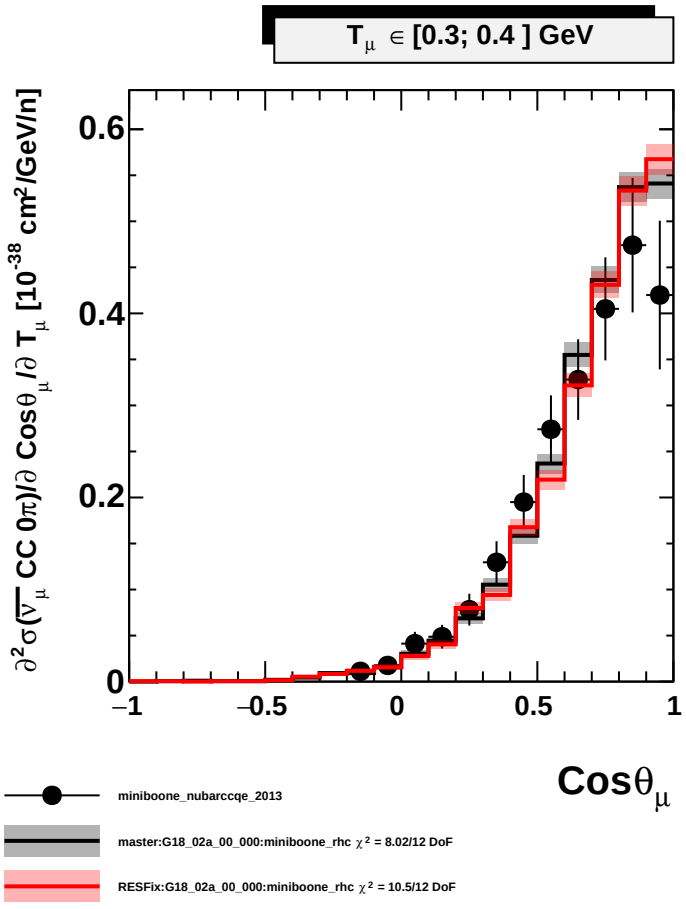
χ^2 **= 115.934/78 DoF**

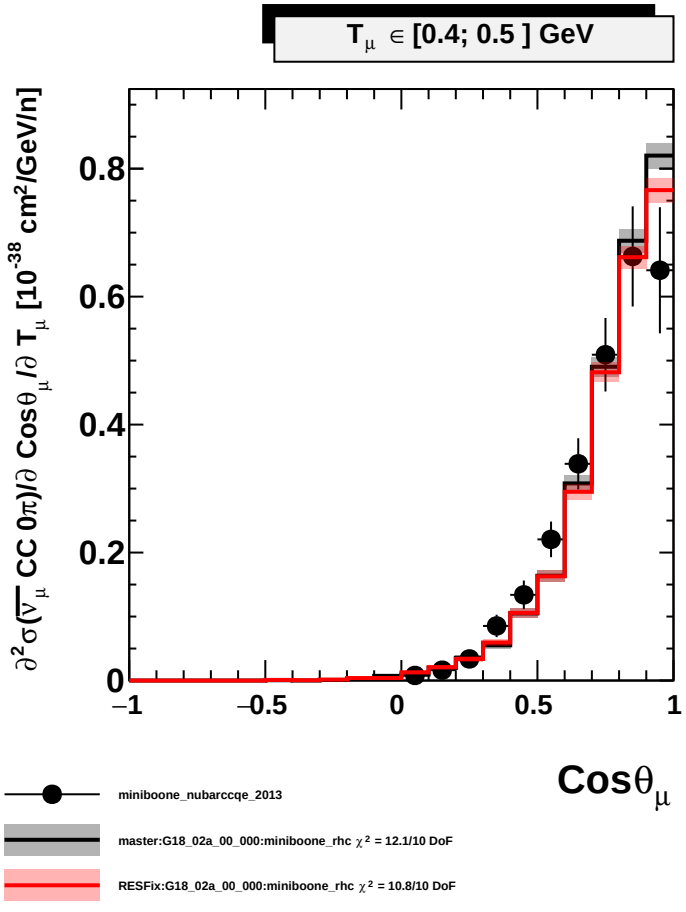


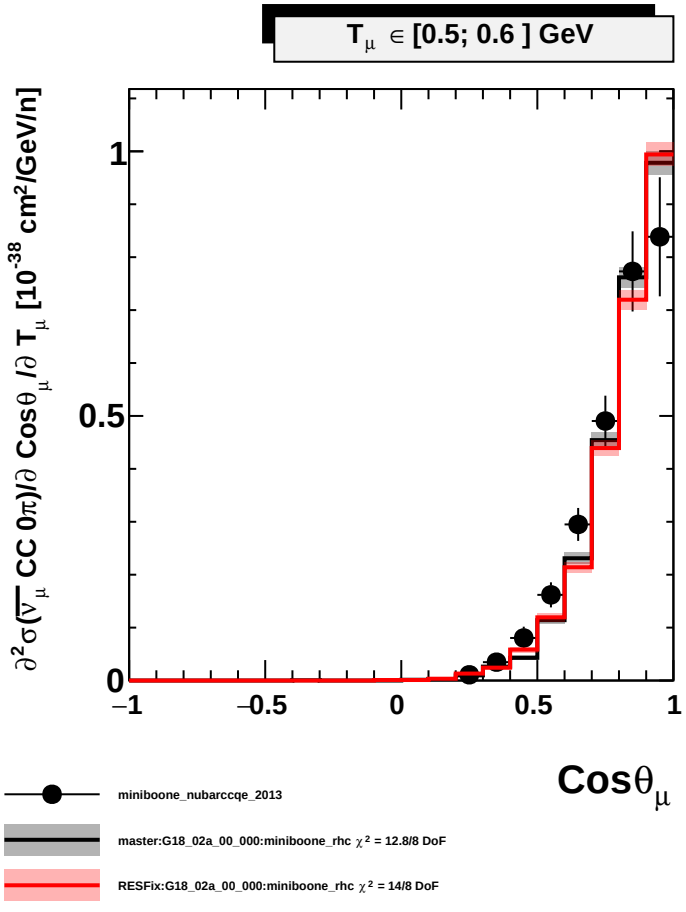


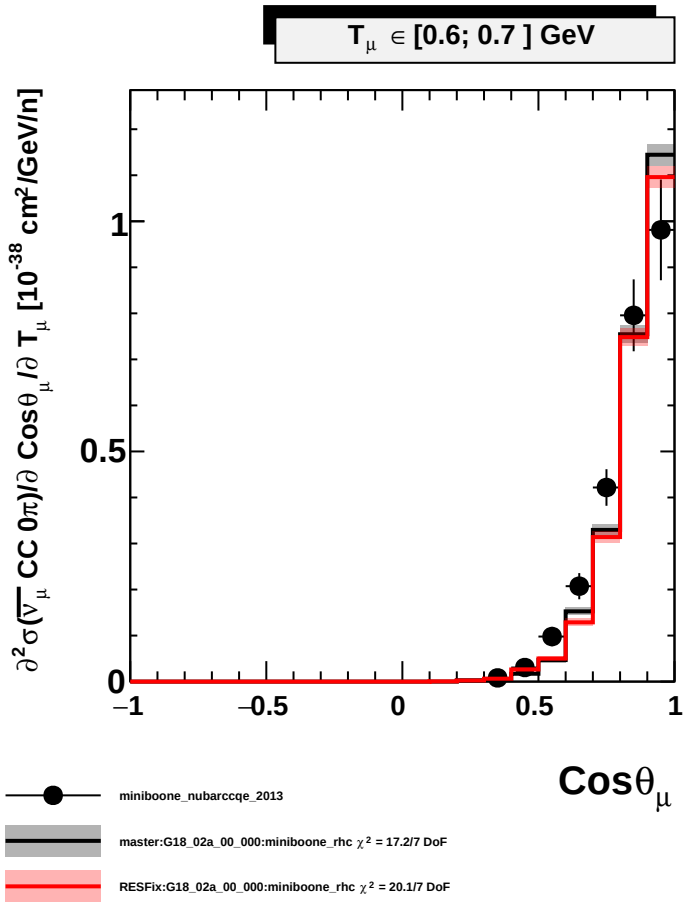


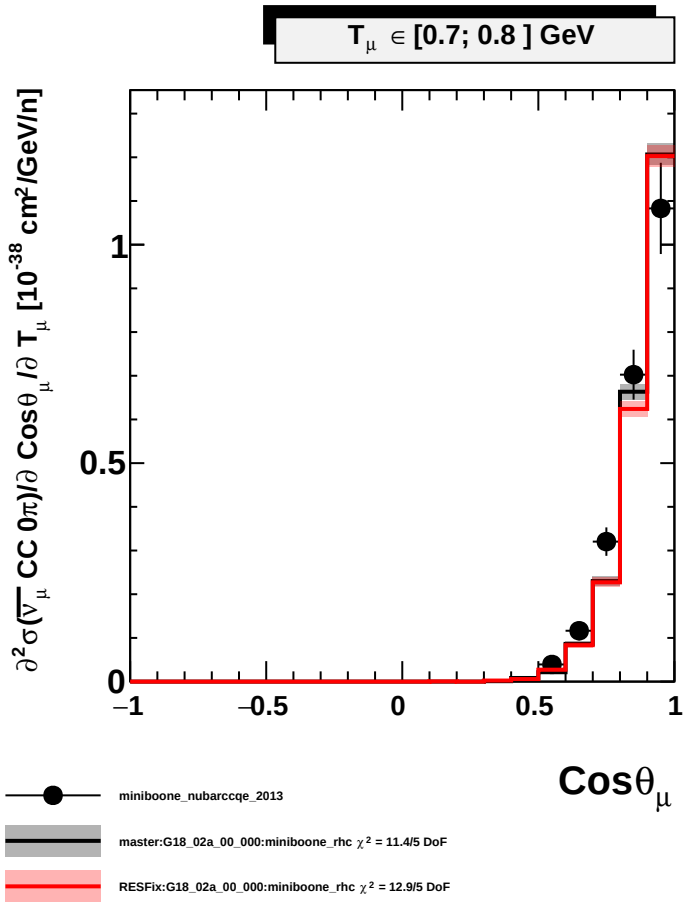

$T_\mu \in$ [0.2; 0.3] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ T_{μ^-} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 14.2/16 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 9.95/16 DoF

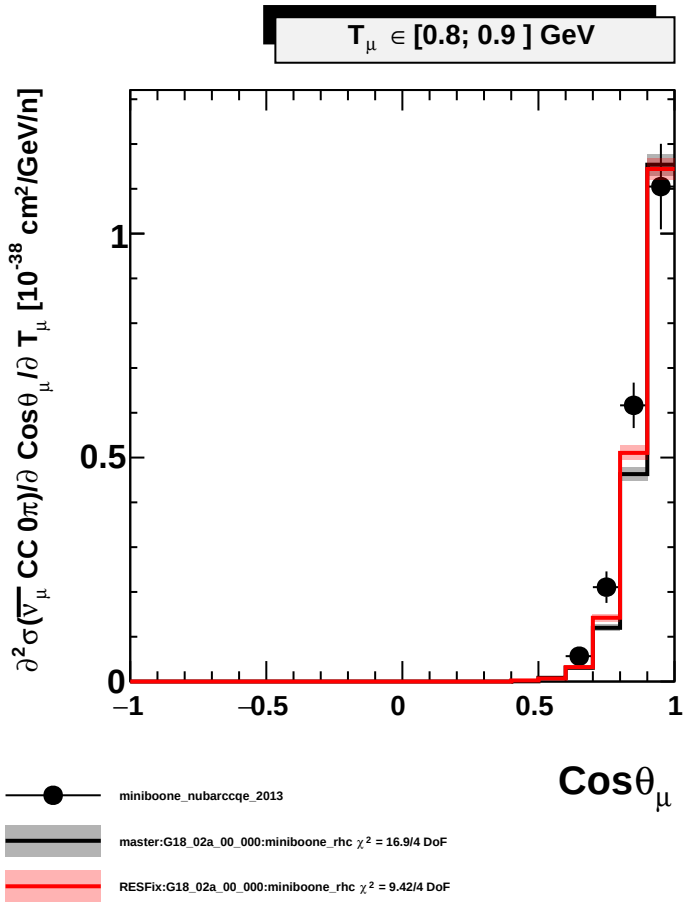

$T_\mu \in$ [0.3; 0.4] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ T_{μ^-} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 8.02/12 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 10.5/12 DoF

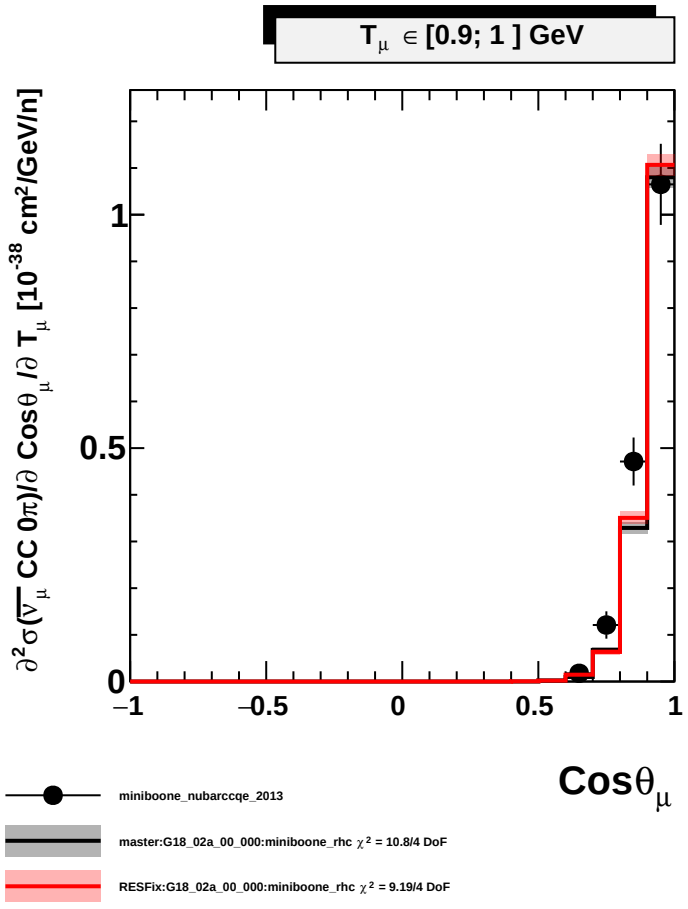

$T_\mu \in$ [0.4; 0.5] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ T_{μ^-} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 12.1/10 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 10.8/10 DoF

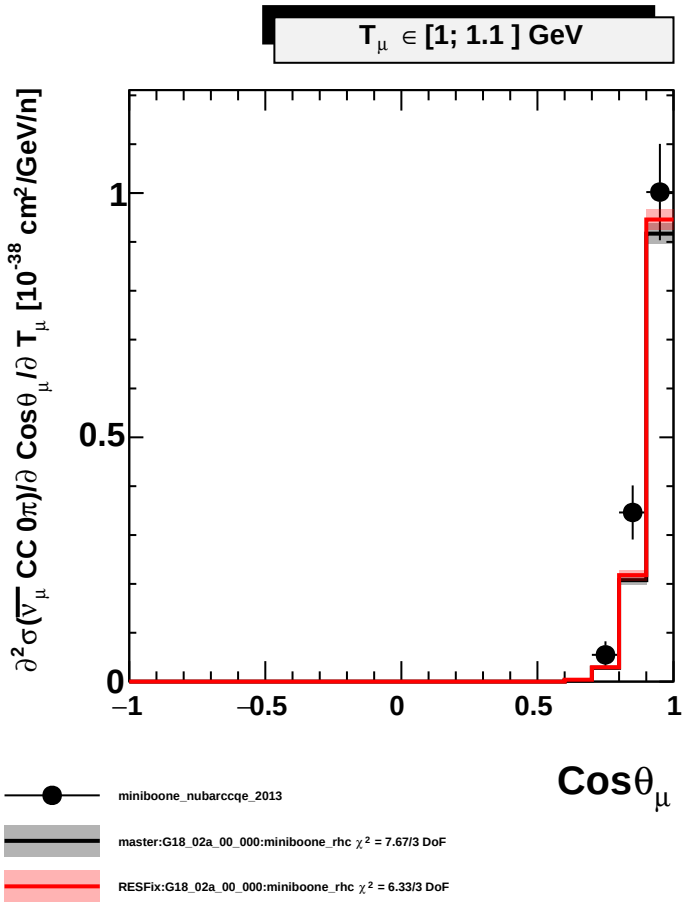

$T_\mu \in$ [0.5; 0.6] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ T_{μ^-} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 12.8/8 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 14/8 DoF

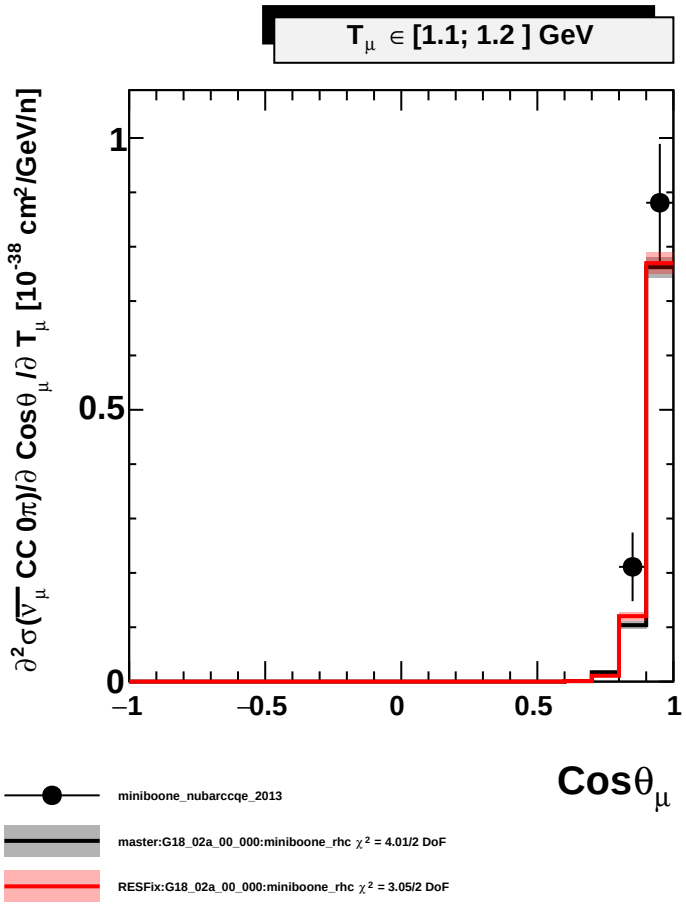

$T_\mu \in [0.6; 0.7]$ GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 17.2/7 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 20.1/7 DoF

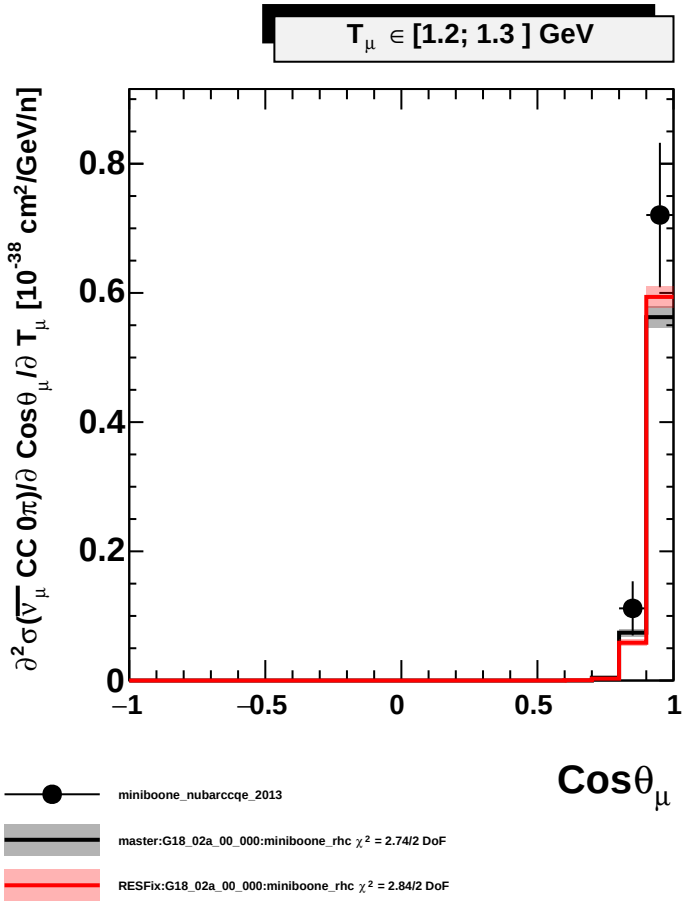

$T_\mu \in [0.7; 0.8]$ GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 11.4/5 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 12.9/5 DoF

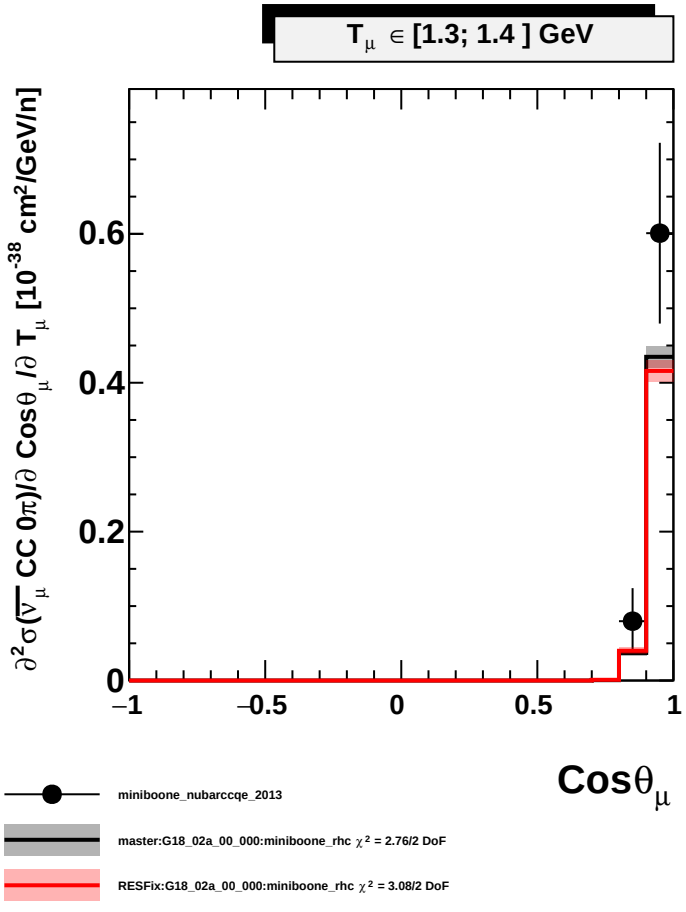

$T_\mu \in [0.8; 0.9]$ GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 16.9/4 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 9.42/4 DoF

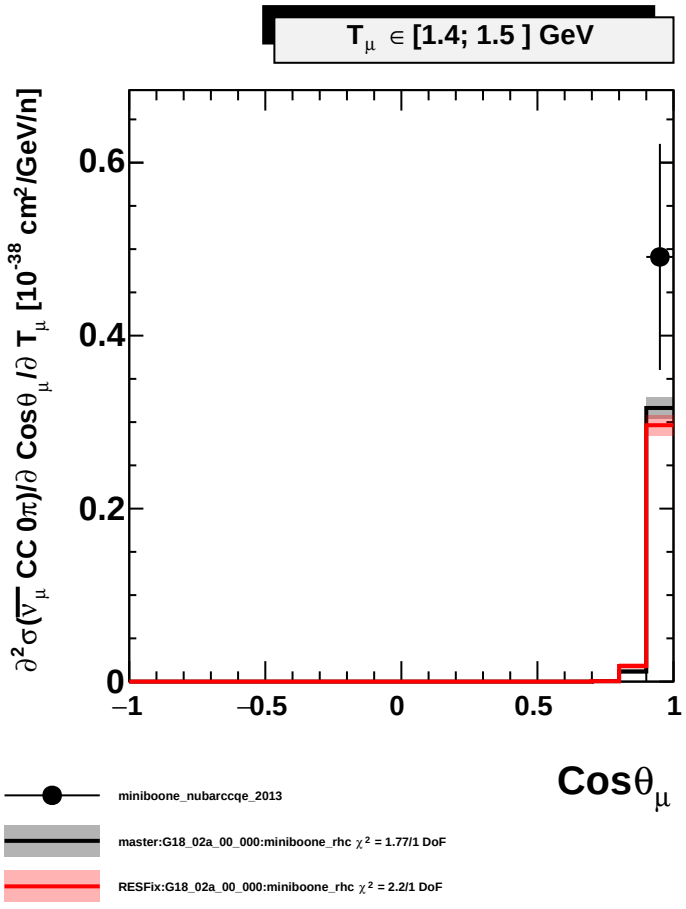

$T_\mu \in [0.9; 1]$ GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 10.8/4 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 9.19/4 DoF

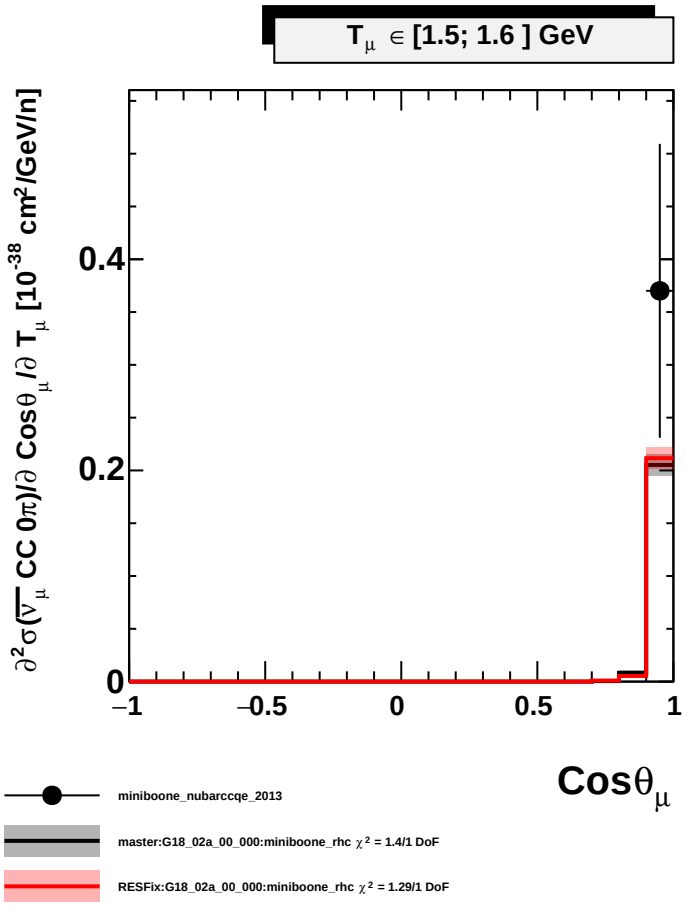

$T_\mu \in$ [1; 1.1] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_{μ_μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 7.67/3 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 6.33/3 DoF

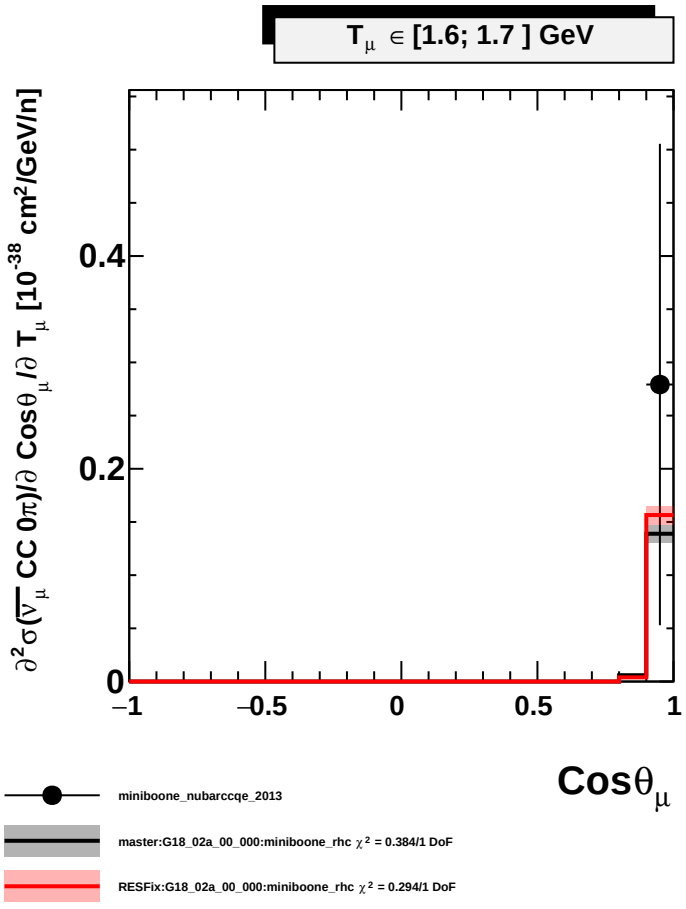

$T_\mu \in$ [1.1; 1.2] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_{μ_μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 4.01/2 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 3.05/2 DoF

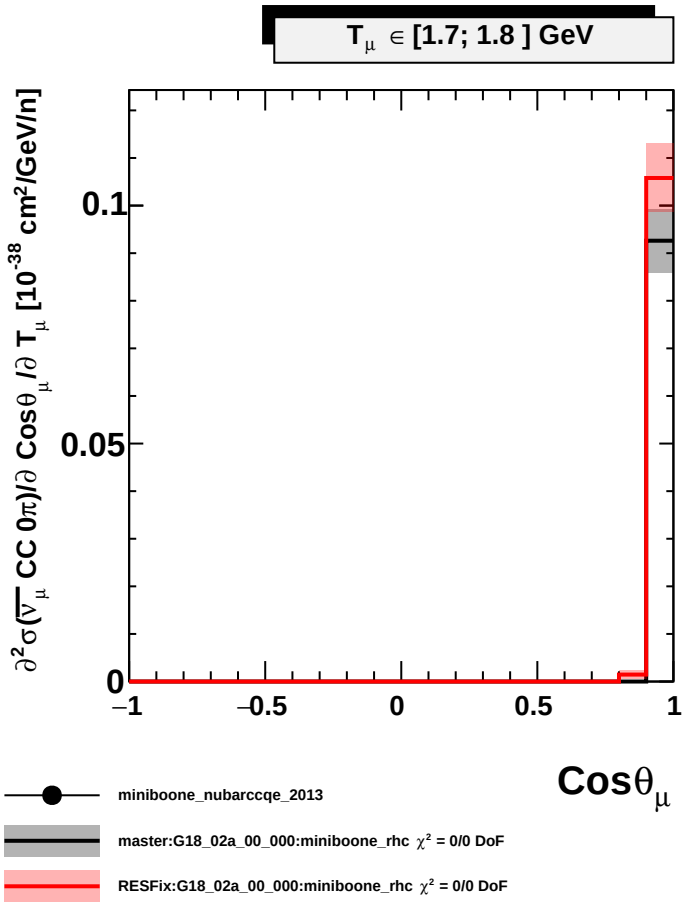

$T_\mu \in$ [1.2; 1.3] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_{μ_μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 2.74/2 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 2.84/2 DoF

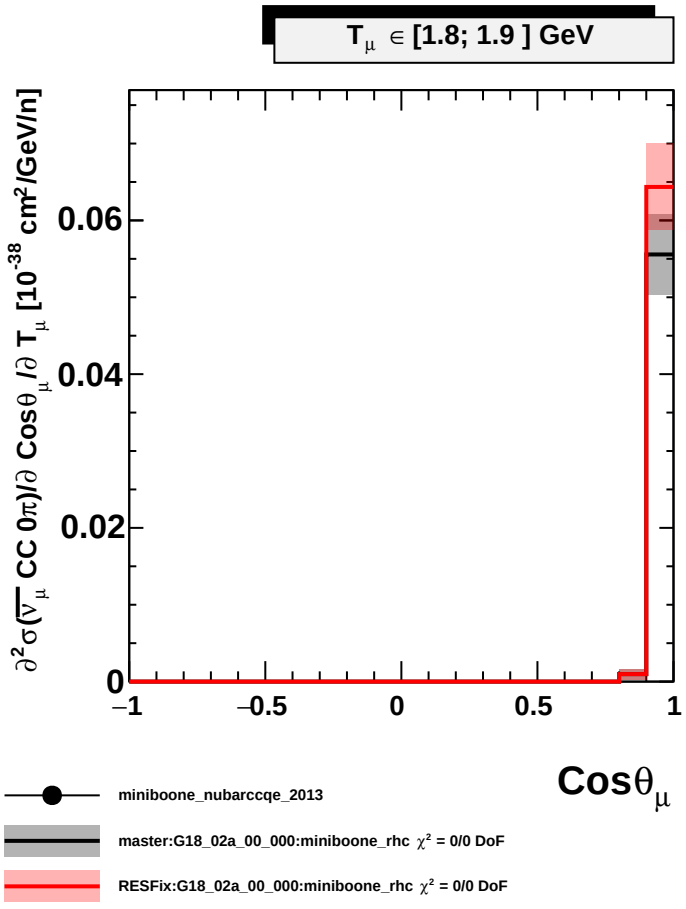

$T_\mu \in$ [1.3; 1.4] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_{μ_μ} [10^{-38} cm^2/GeV/n]
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 2.76/2 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 3.08/2 DoF

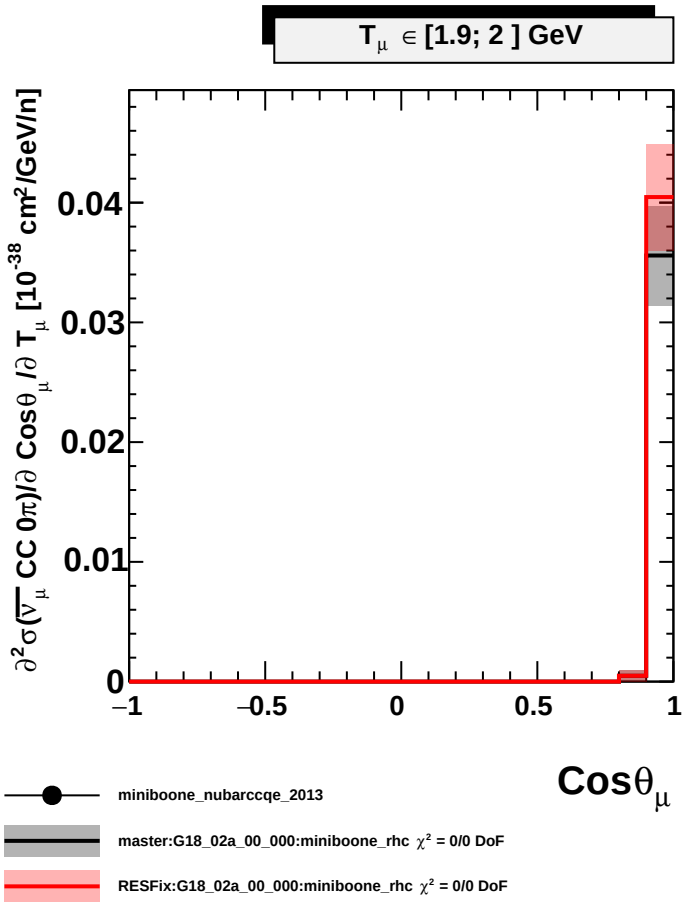

$T_\mu \in$ [1.4; 1.5] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
0.6
0.4
0.2
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 1.77/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 2.2/1 DoF

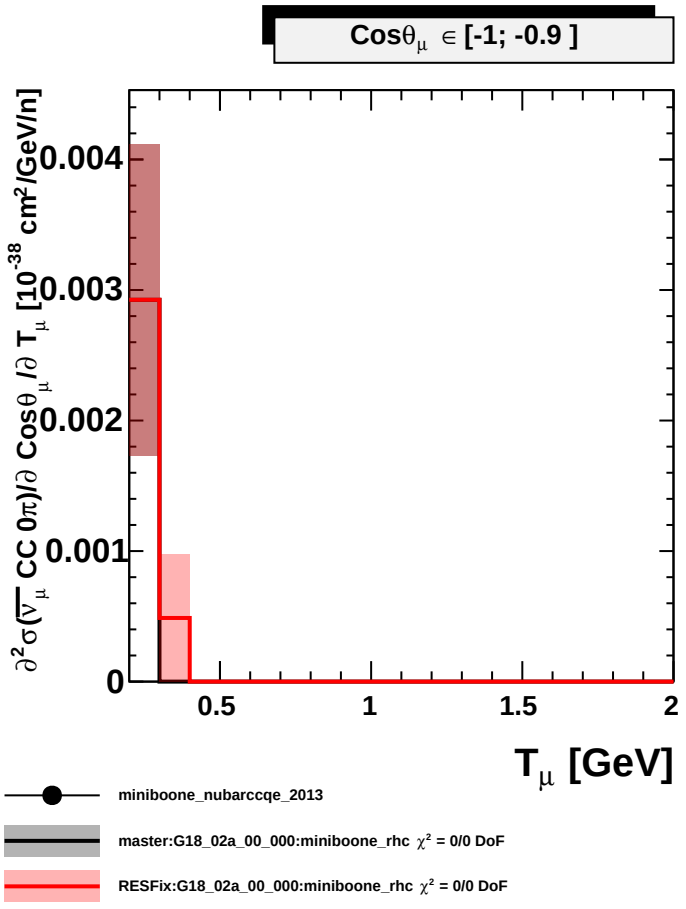

$T_\mu \in$ [1.5; 1.6] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
0.4
0.2
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 1.4/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 1.29/1 DoF

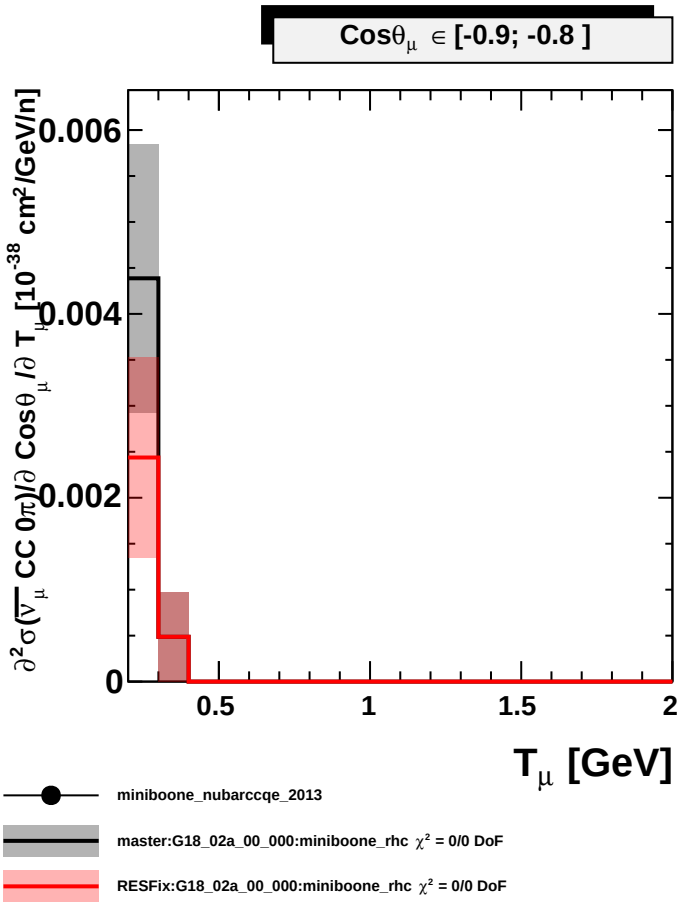

$T_\mu \in$ [1.6; 1.7] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
0.4
0.2
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 0.384/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 0.294/1 DoF

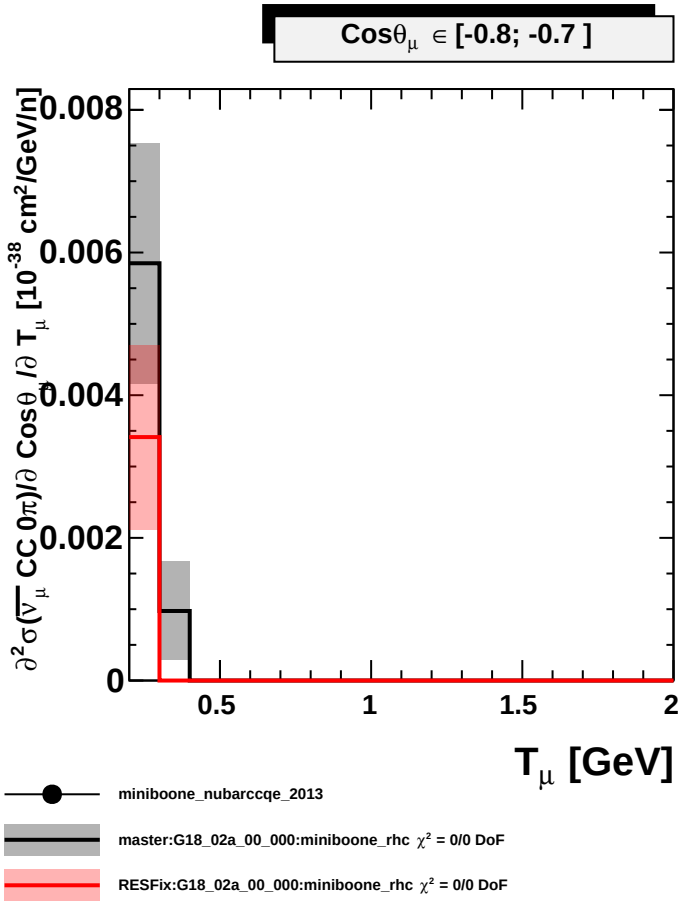

$T_\mu \in$ [1.7; 1.8] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ /∂ $T_{\mu\,\mu}$ [10^{-38} cm^2/GeV/n]
0.1
0.05
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 0/0 DoF

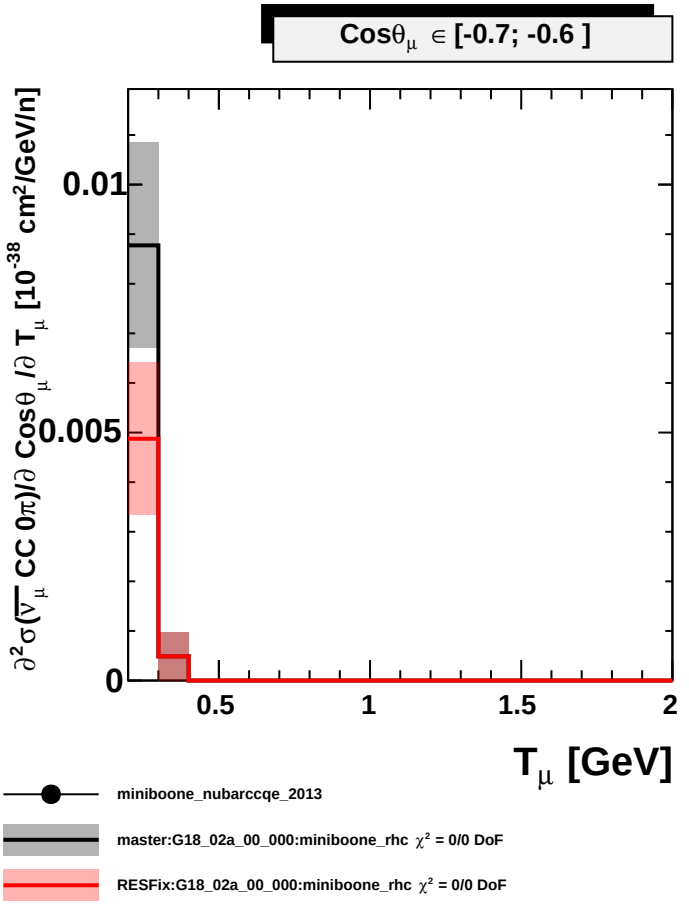

$T_\mu \in$ [1.8; 1.9] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_μ [10^{-38} cm^2/GeV/n]
0.06
0.04
0.02
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 0/0 DoF

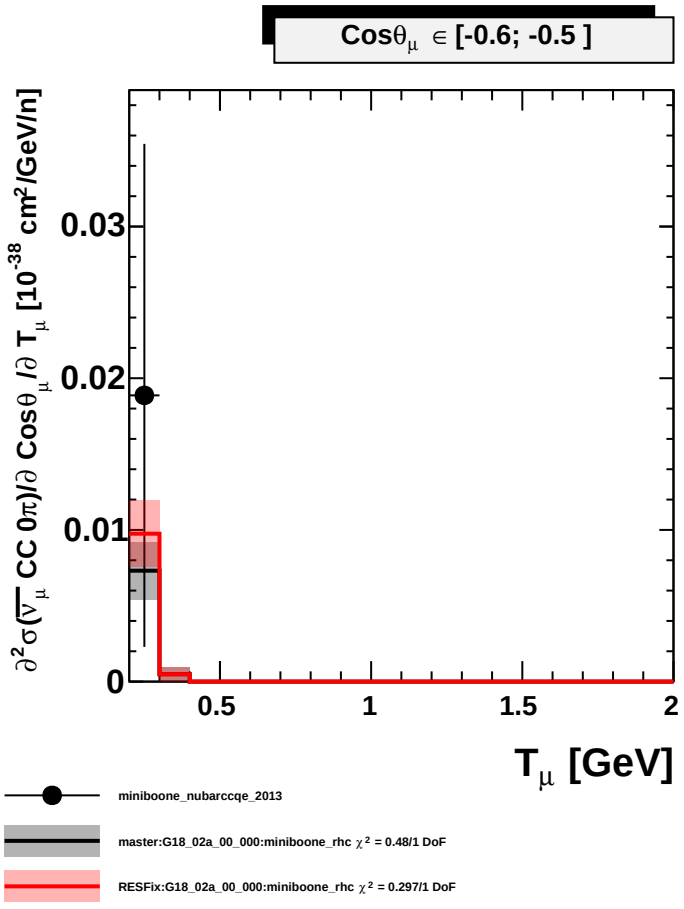

$T_\mu \in$ [1.9; 2] GeV
$\partial^2\sigma(\overline{\nu}_\mu$ CC 0π)/∂ Cosθ_μ /∂ T_μ [10^{-38} cm^2/GeV/n]
0.04
0.03
0.02
0.01
0
−1
−0.5
0
0.5
1
Cosθ_μ
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ^2 = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ^2 = 0/0 DoF

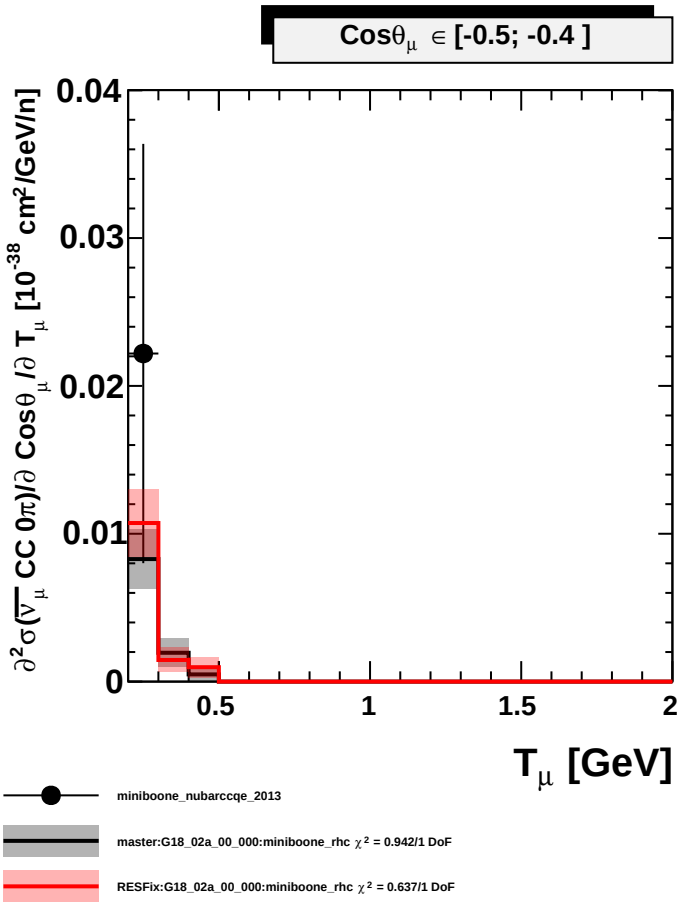

Cosθμ ∈ [-1; -0.9]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0.004
0.003
0.002
0.001
0
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF

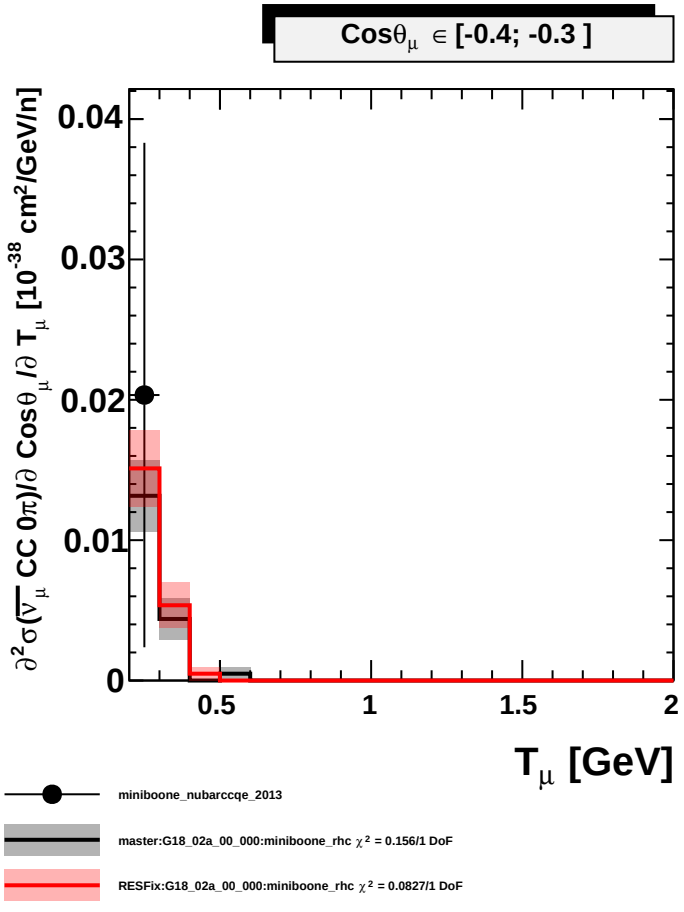

Cosθμ ∈ [-0.9; -0.8]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0.006
0.004
0.002
0
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF

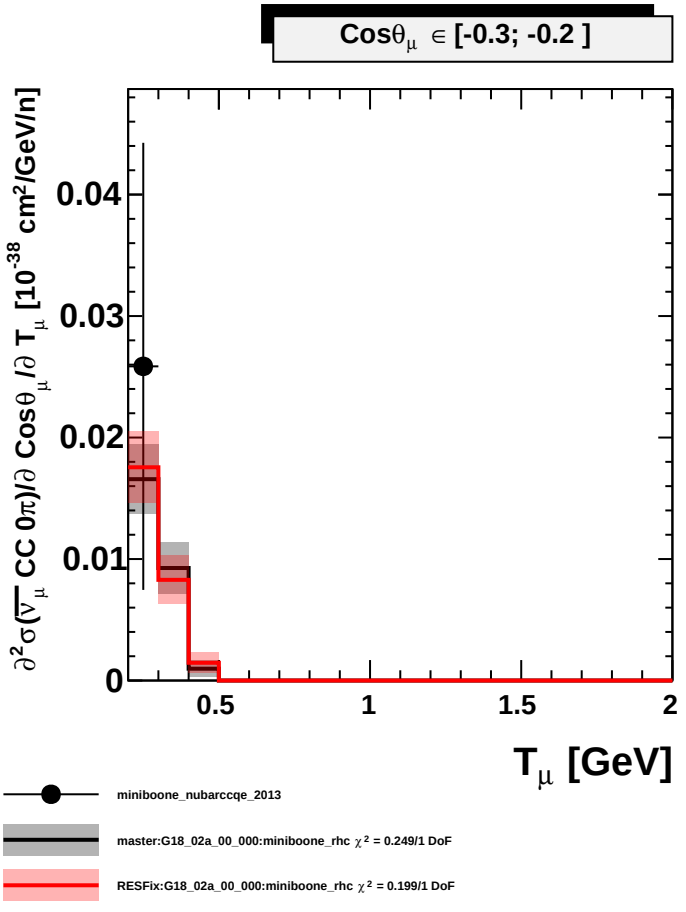

Cosθμ ∈ [-0.8; -0.7]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0.008
0.006
0.004
0.002
0
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF

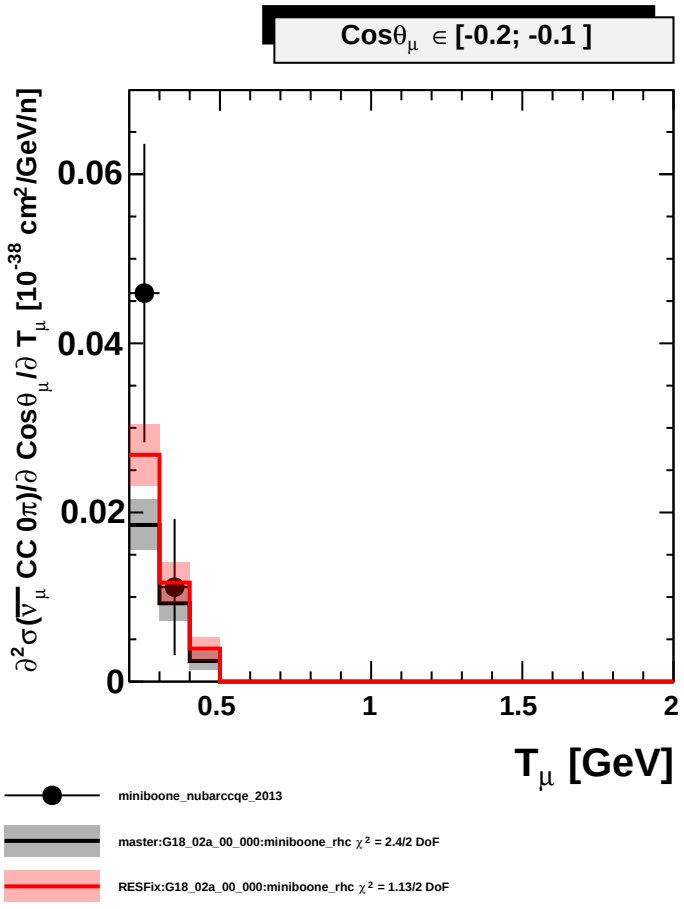

Cosθμ ∈ [-0.7; -0.6]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0.01
0.005
0
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0/0 DoF

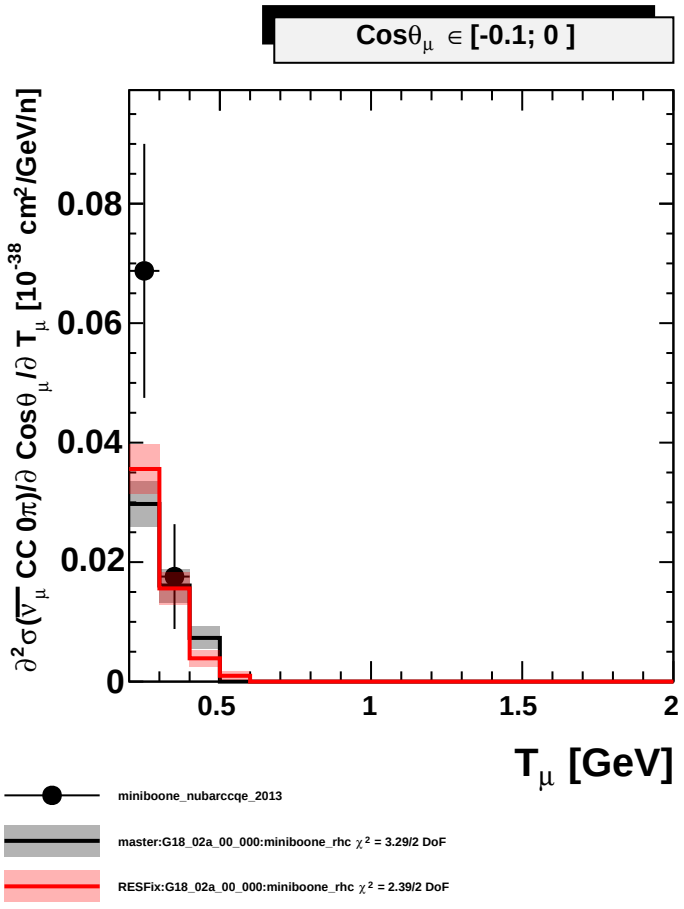

Cosθμ ∈ [-0.6; -0.5]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0
0.01
0.02
0.03
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0.48/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0.297/1 DoF

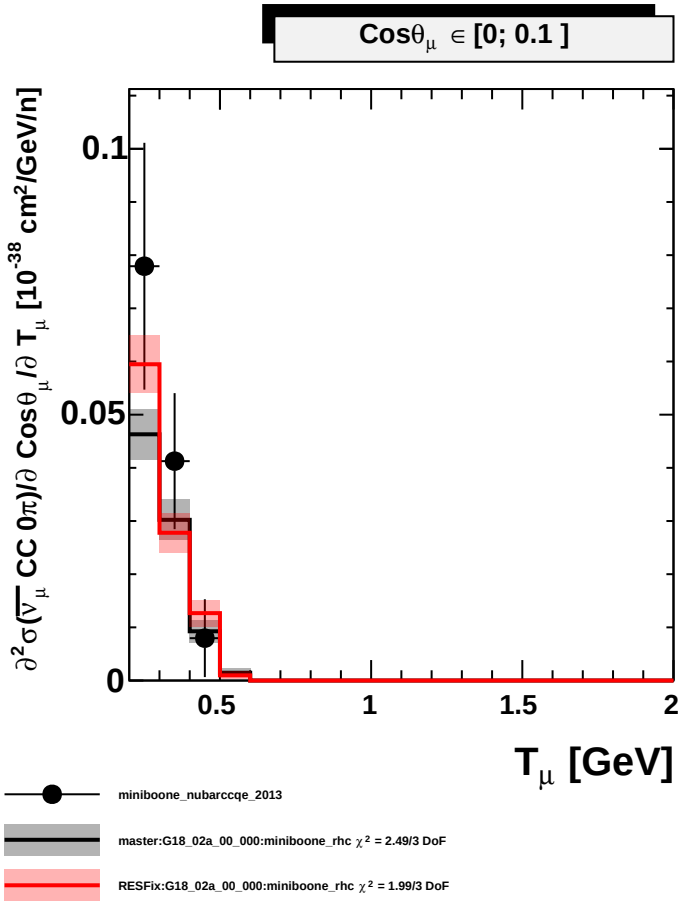

Cosθμ ∈ [-0.5; -0.4]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0
0.01
0.02
0.03
0.04
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0.942/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0.637/1 DoF

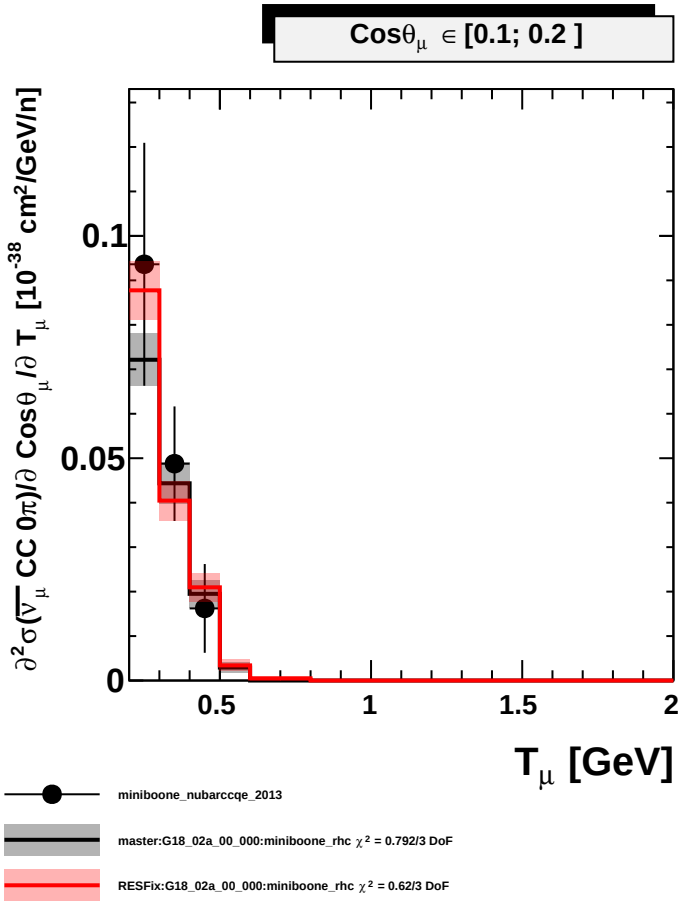

Cosθμ ∈ [-0.4; -0.3]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0
0.01
0.02
0.03
0.04
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0.156/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0.0827/1 DoF

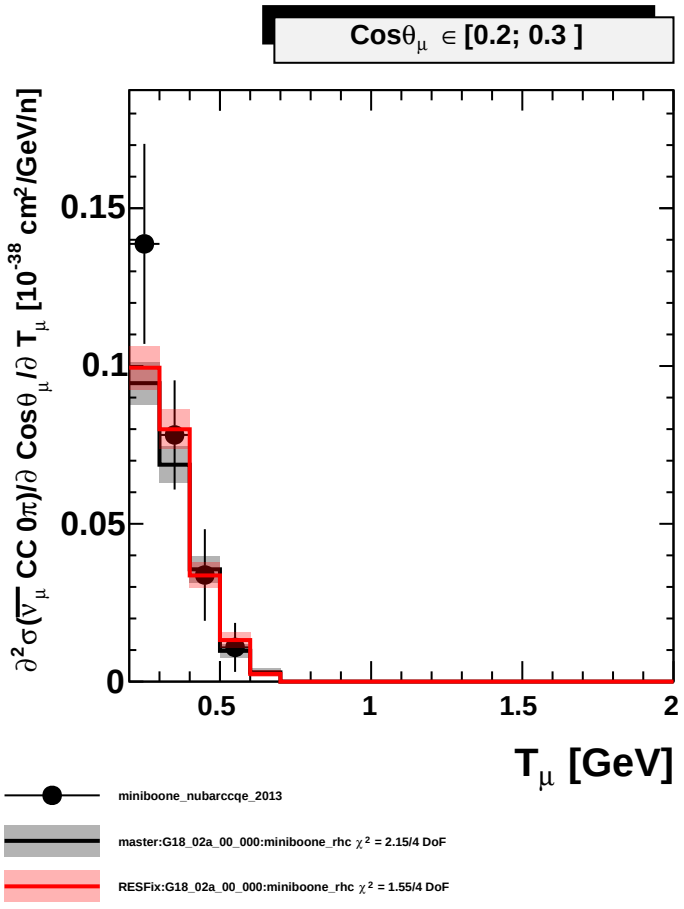

Cosθμ ∈ [-0.3; -0.2]
∂²σ(ν_μ CC 0π)/∂ Cosθ_μ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
0
0.01
0.02
0.03
0.04
0.5
1
1.5
2
T_μ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0.249/1 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0.199/1 DoF

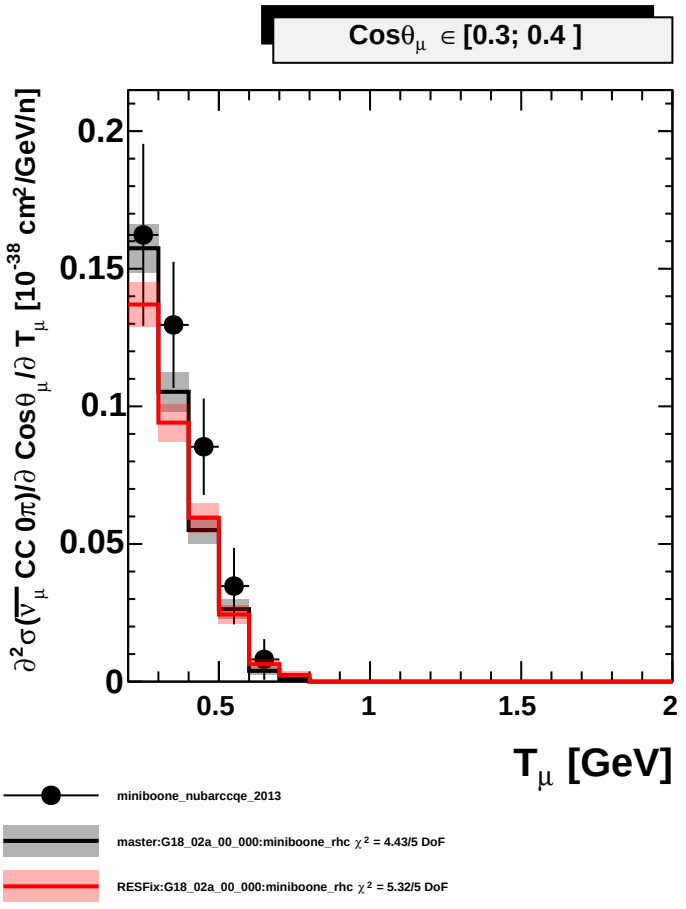

Cosθμ ∈ [-0.2; -0.1]
∂²σ(ν̄μ CC 0π)/∂ Cosθμ /∂ Tμ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 2.4/2 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 1.13/2 DoF

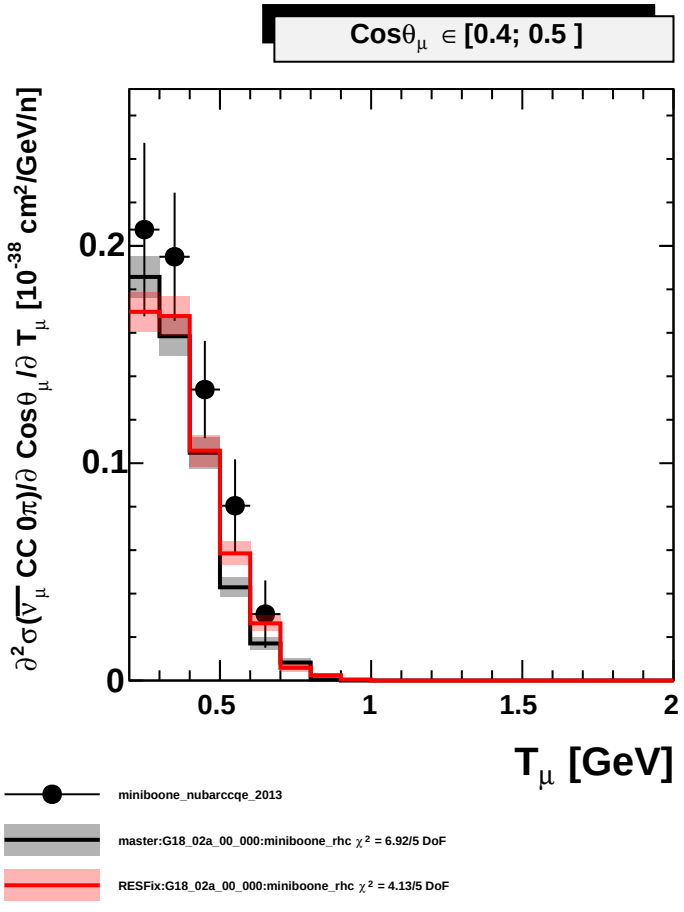

Cosθμ ∈ [-0.1; 0]
∂²σ(ν̄μ CC 0π)/∂ Cosθμ /∂ Tμ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 3.29/2 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 2.39/2 DoF

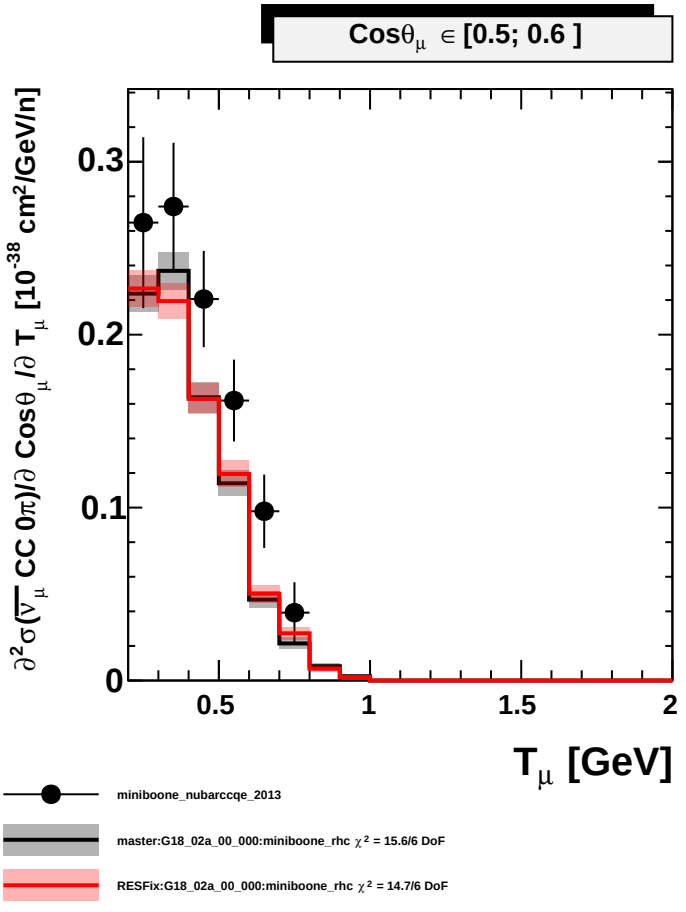

Cosθμ ∈ [0; 0.1]
∂²σ(ν̄μ CC 0π)/∂ Cosθμ /∂ Tμ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 2.49/3 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 1.99/3 DoF

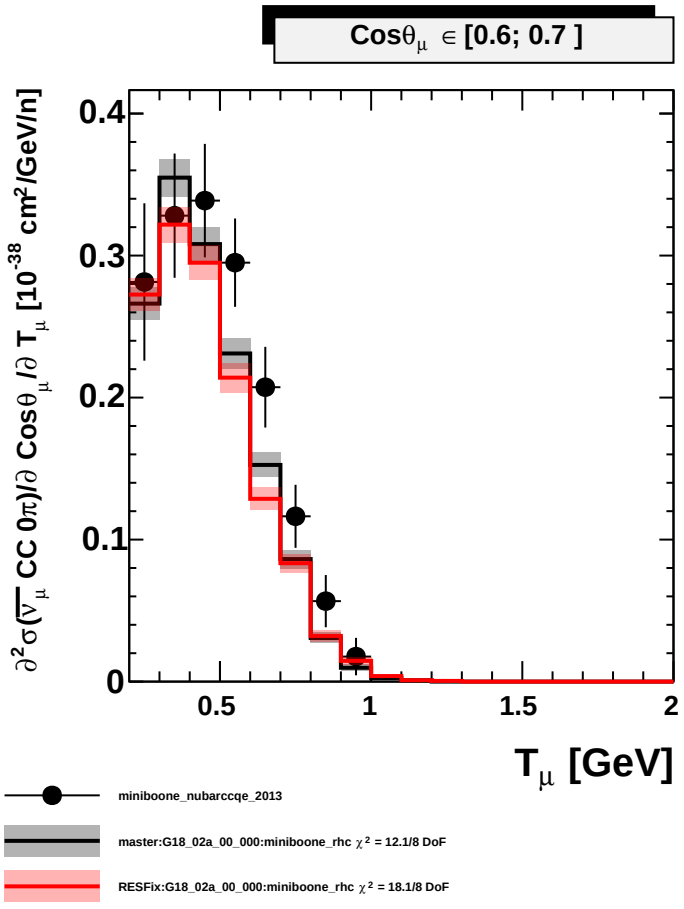

Cosθμ ∈ [0.1; 0.2]
∂²σ(ν̄μ CC 0π)/∂ Cosθμ /∂ Tμ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 0.792/3 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 0.62/3 DoF

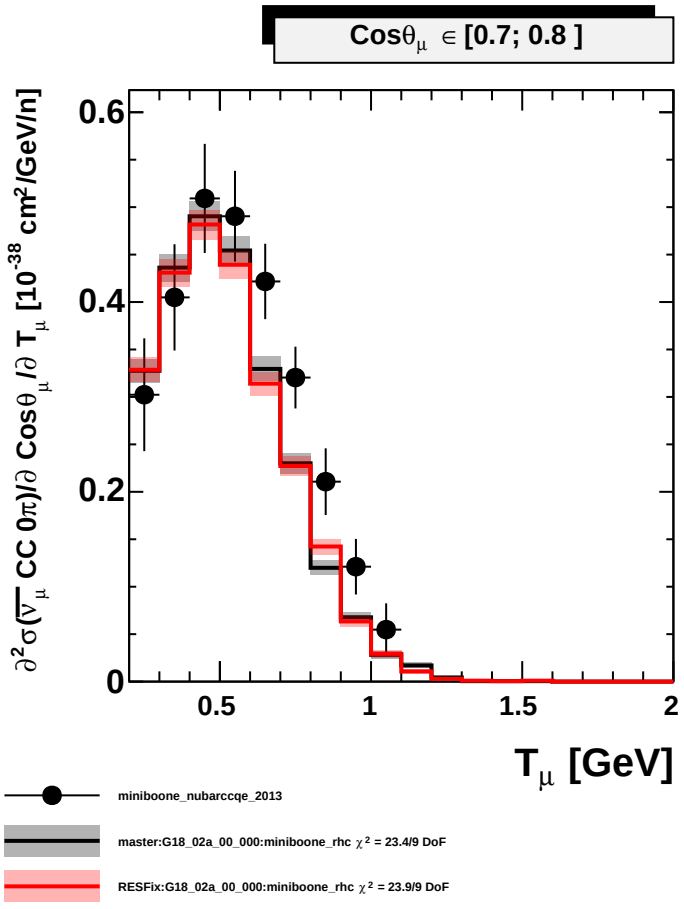

Cosθμ ∈ [0.2; 0.3]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 2.15/4 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 1.55/4 DoF

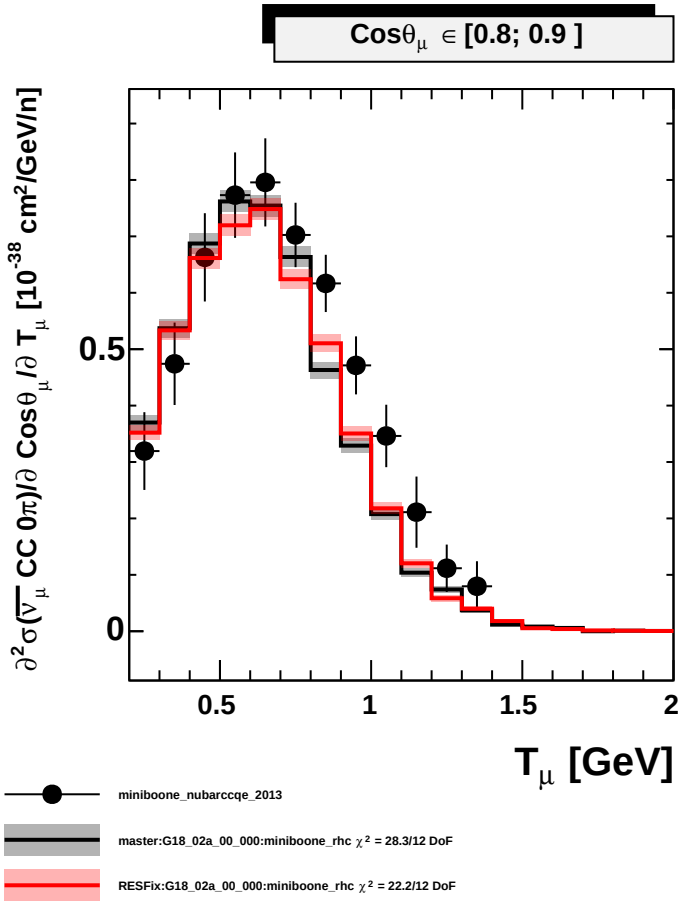

Cosθμ ∈ [0.3; 0.4]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 4.43/5 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 5.32/5 DoF

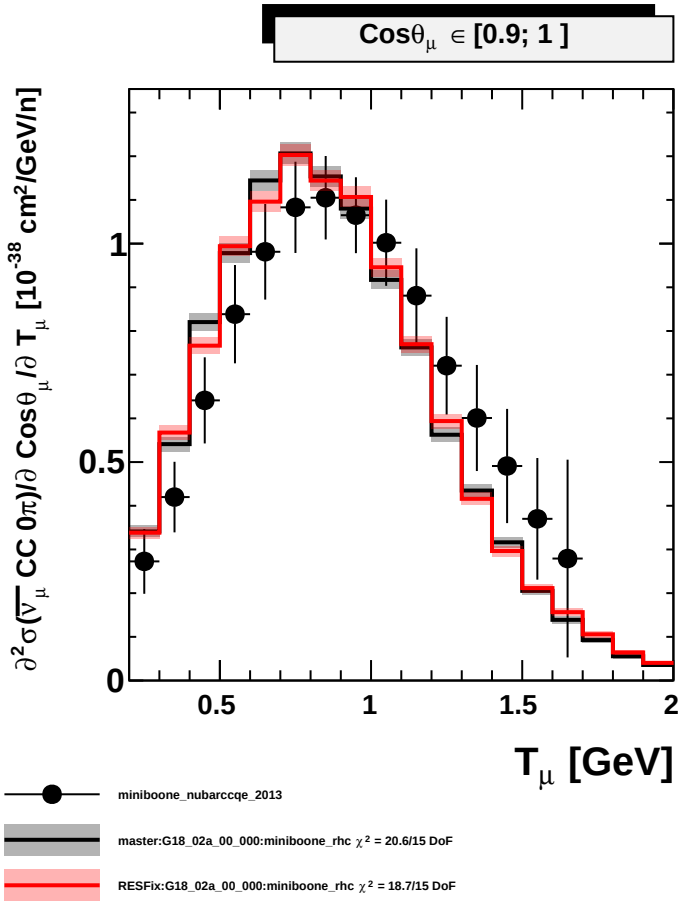

Cosθμ ∈ [0.4; 0.5]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 6.92/5 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 4.13/5 DoF


Cosθμ ∈ [0.5; 0.6]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 15.6/6 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 14.7/6 DoF


Cosθμ ∈ [0.6; 0.7]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 12.1/8 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 18.1/8 DoF


Cosθμ ∈ [0.7; 0.8]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 23.4/9 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 23.9/9 DoF


Cosθμ ∈ [0.8; 0.9]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 28.3/12 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 22.2/12 DoF


Cosθμ ∈ [0.9; 1]
∂²σ(ν_μ CC 0π)/∂ Cosθ /∂ T_μ [10⁻³⁸ cm²/GeV/n]
Tμ [GeV]
miniboone_nubarccqe_2013
master:G18_02a_00_000:miniboone_rhc χ² = 20.6/15 DoF
RESFix:G18_02a_00_000:miniboone_rhc χ² = 18.7/15 DoF

Dataset:

t2k_nd280_numucc0pi_2015_rps

Models:

master/G18_02a_00_000 χ^2 = 58 / 80 DoF

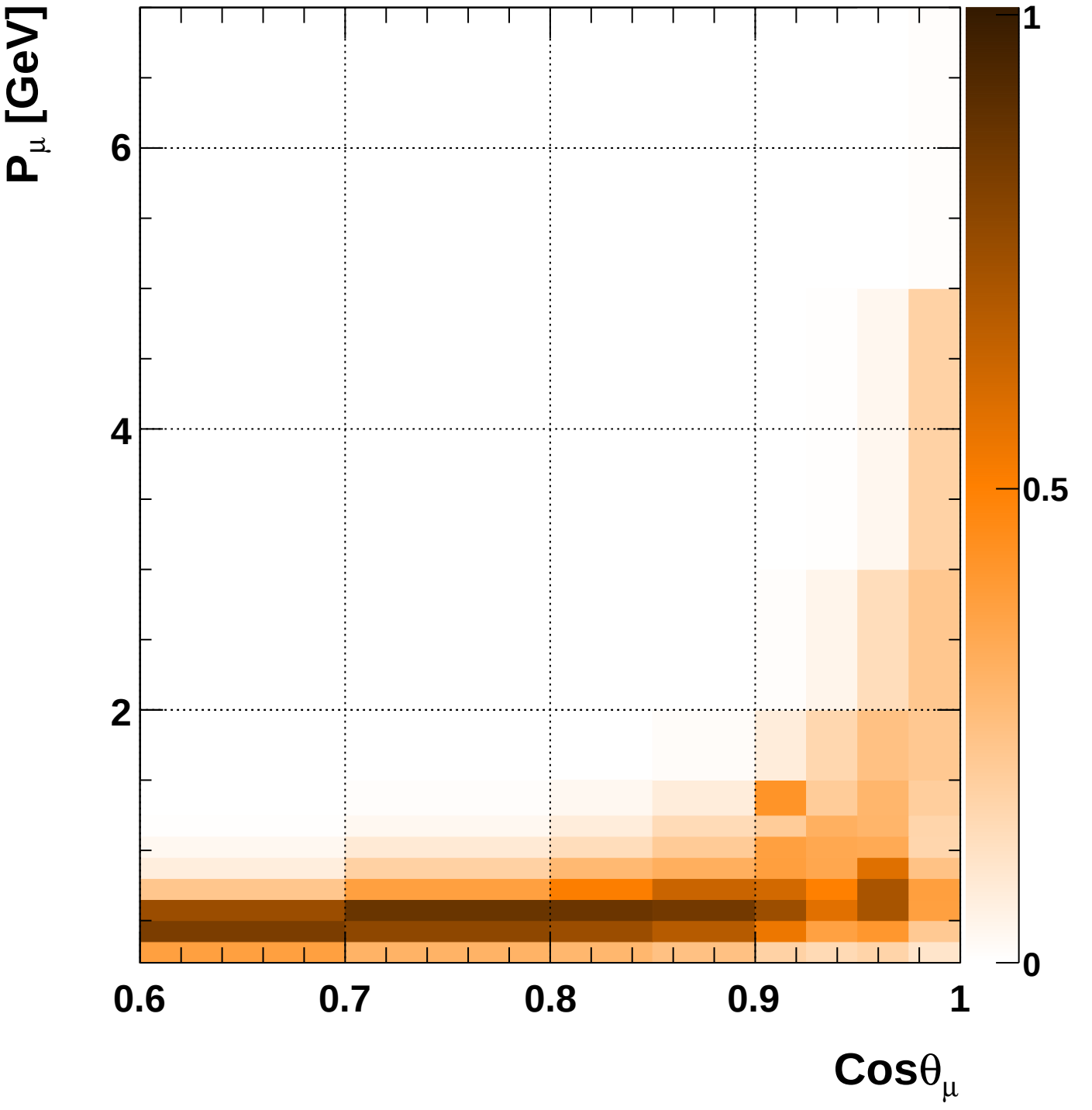
RESFix/G18_02a_00_000 χ^2 = 65 / 80 DoF

Plot:

$\partial^2\sigma/\partial$ **Cos**θ_μ/∂ P_μ

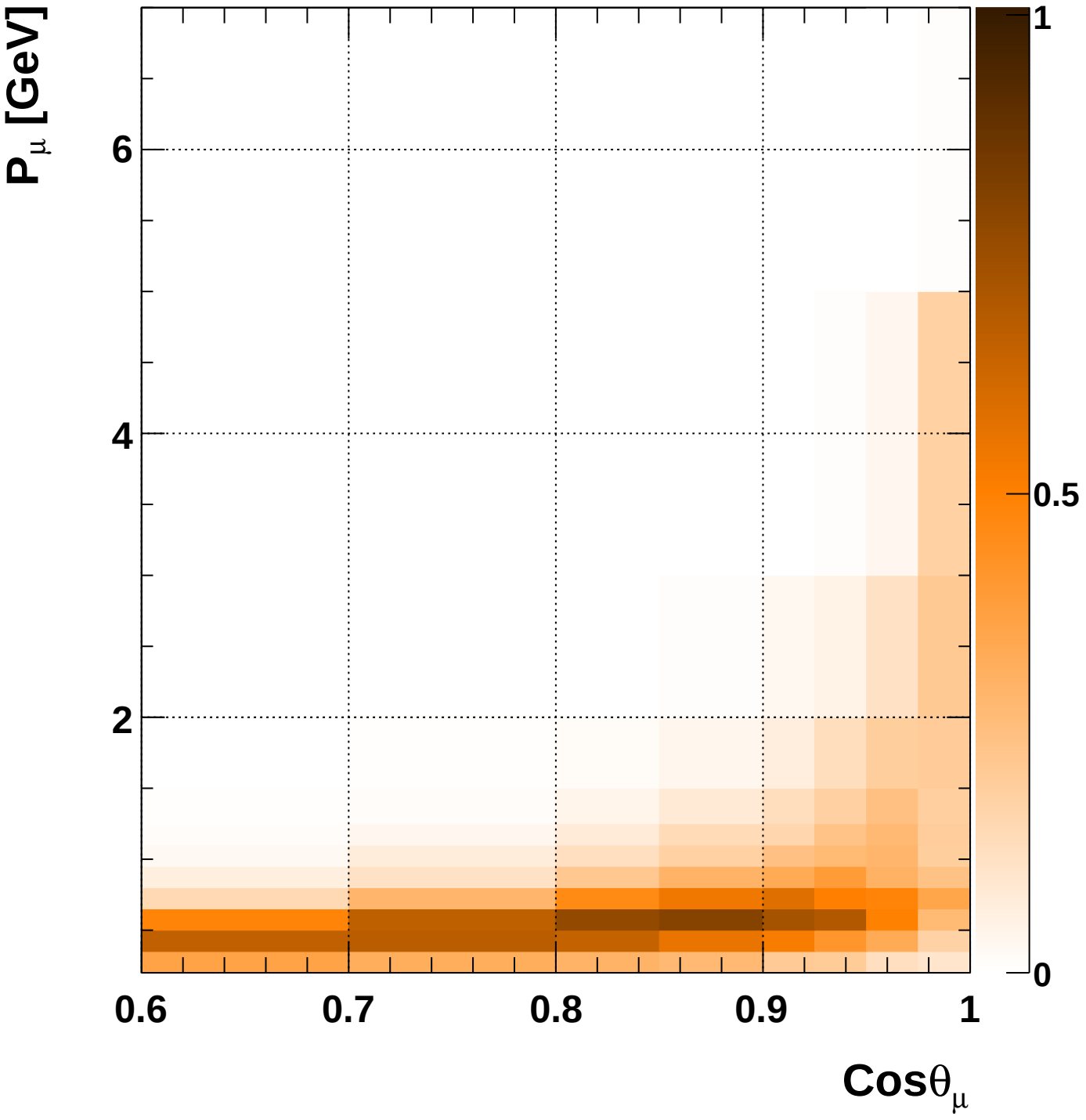
80 DoF, χ^2 = 58 65

2019/11/05 13:39:11



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

Data: t2k_nd280_numucc0pi_2015_rps



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

Pred: master:G18_02a_00_000:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015_rps

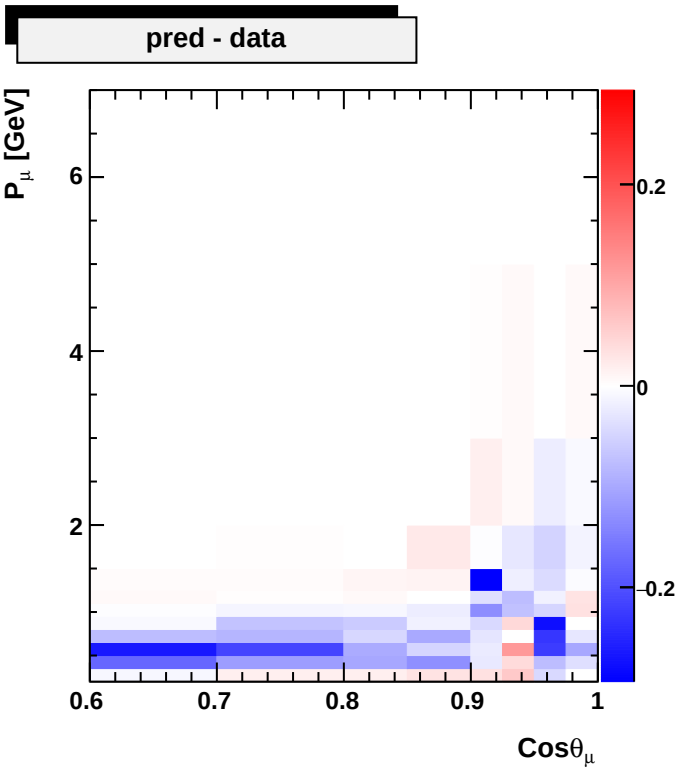
VS

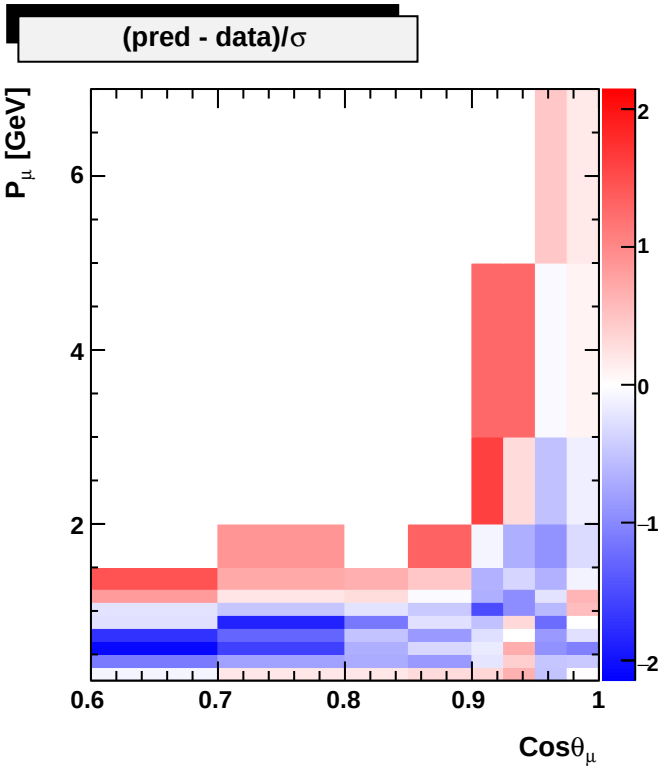
master:G18_02a_00_000:t2k_nd280_numu_fhc

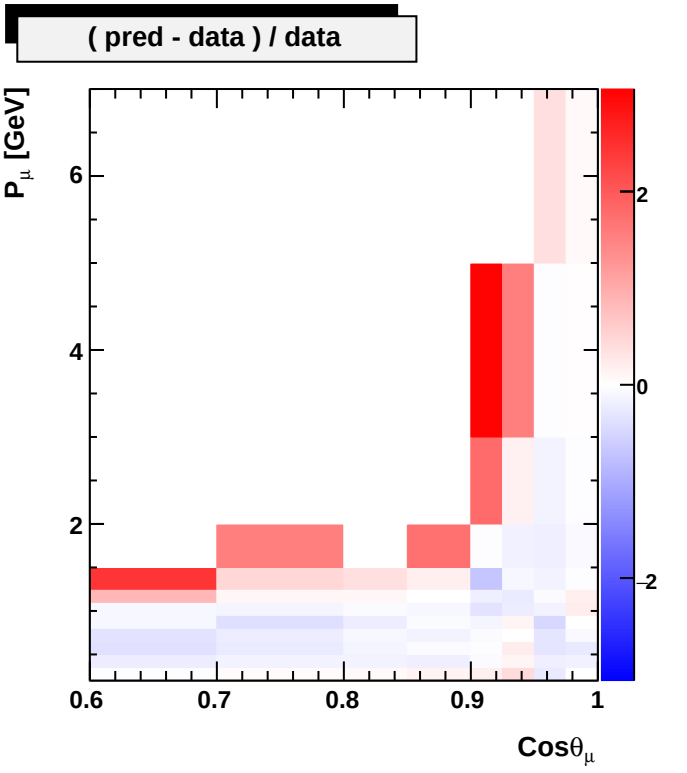
$\partial^2\sigma/\partial \text{Cos}\theta_\mu/\partial P_\mu$

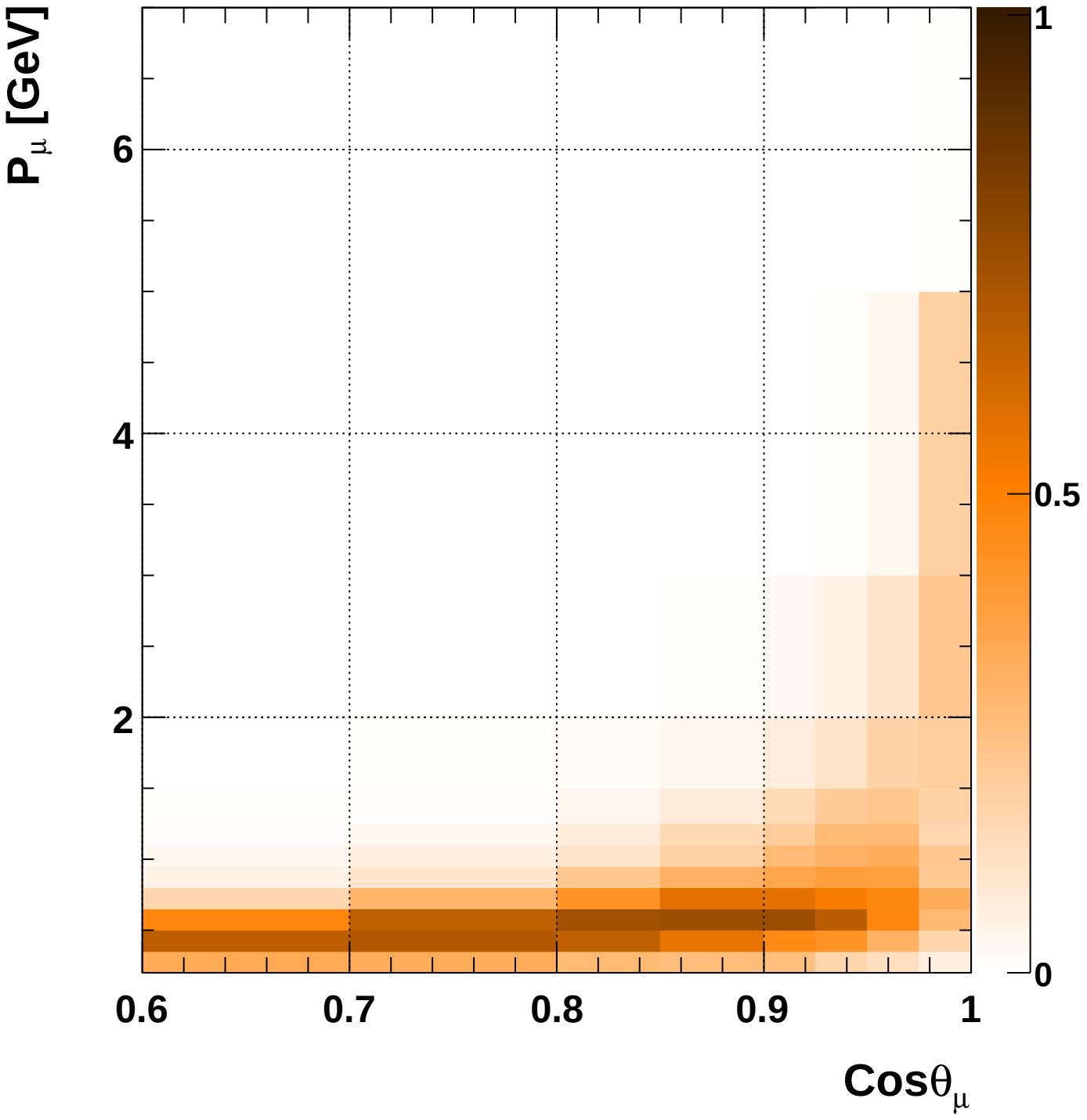
[10^{-38} cm^2/GeV/n]

χ^2 = 58.0127/80 DoF









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

Pred: RESFix:G18_02a_00_000:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015_rps

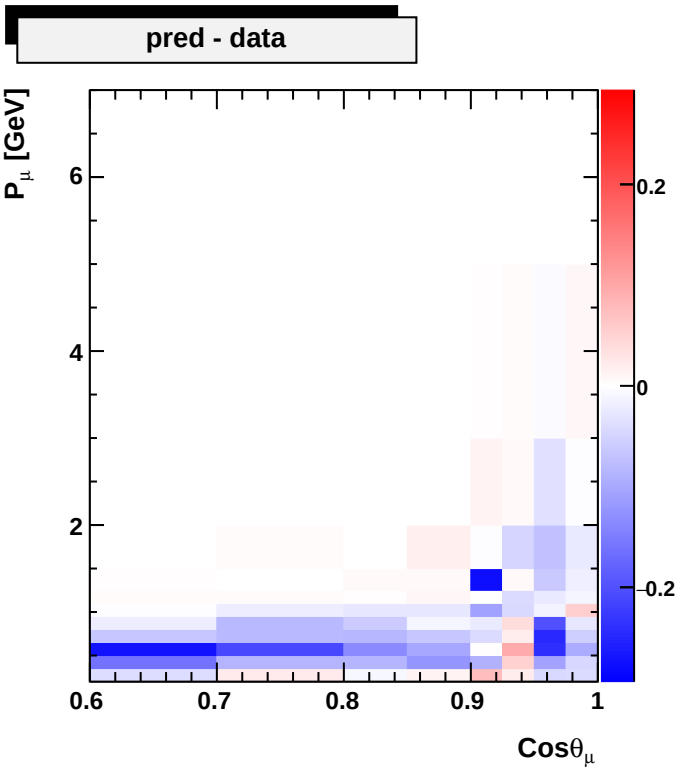
VS

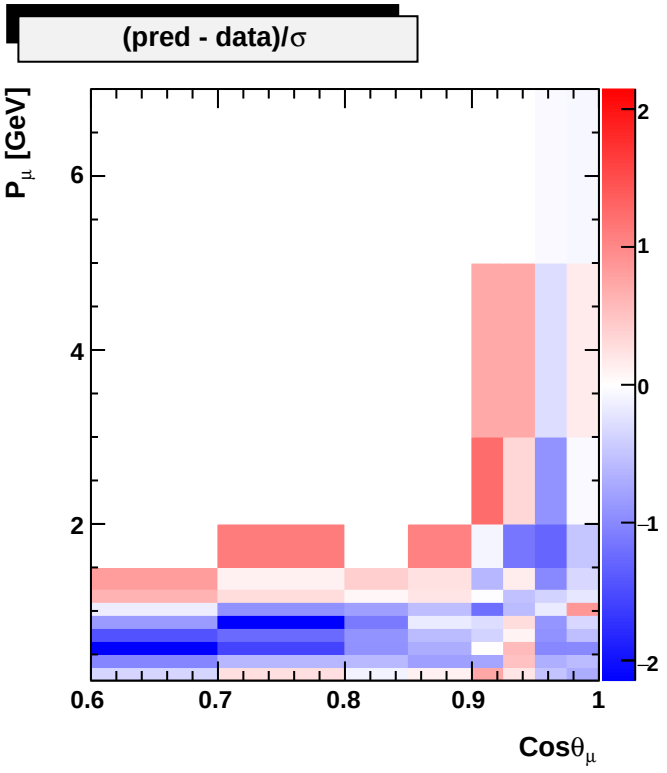
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc

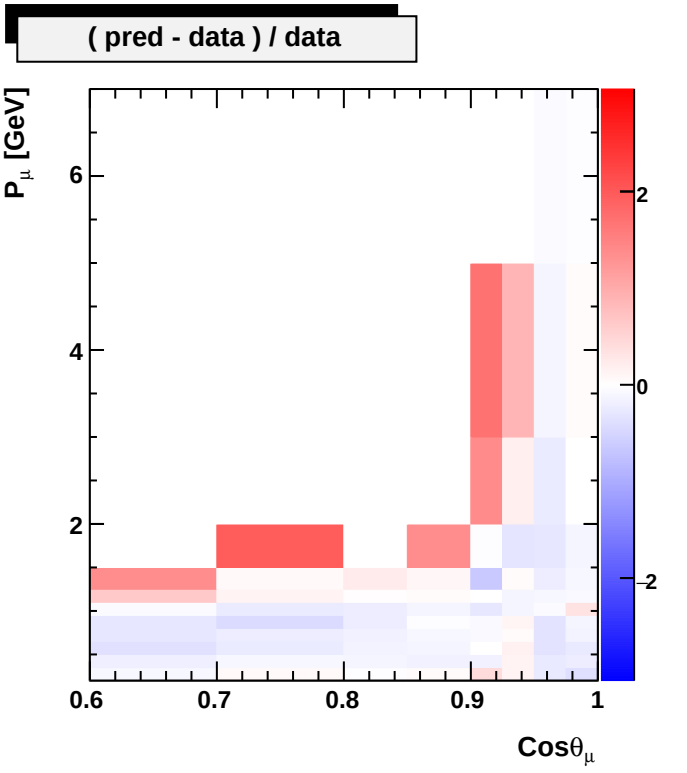
$\partial^2\sigma/\partial \text{Cos}\theta_\mu/\partial P_\mu$

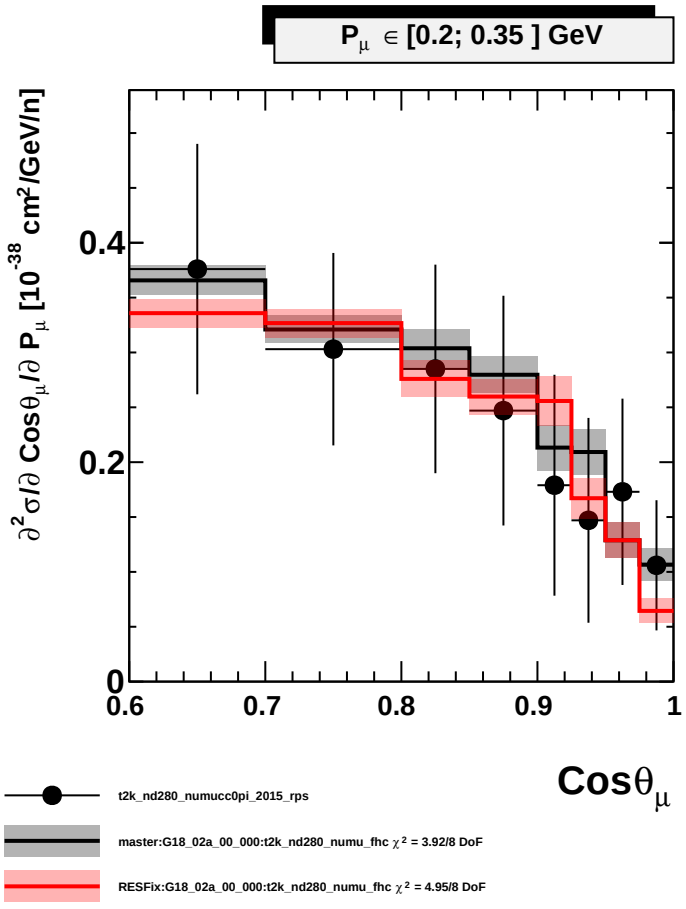
[10^{-38} cm^2/GeV/n]

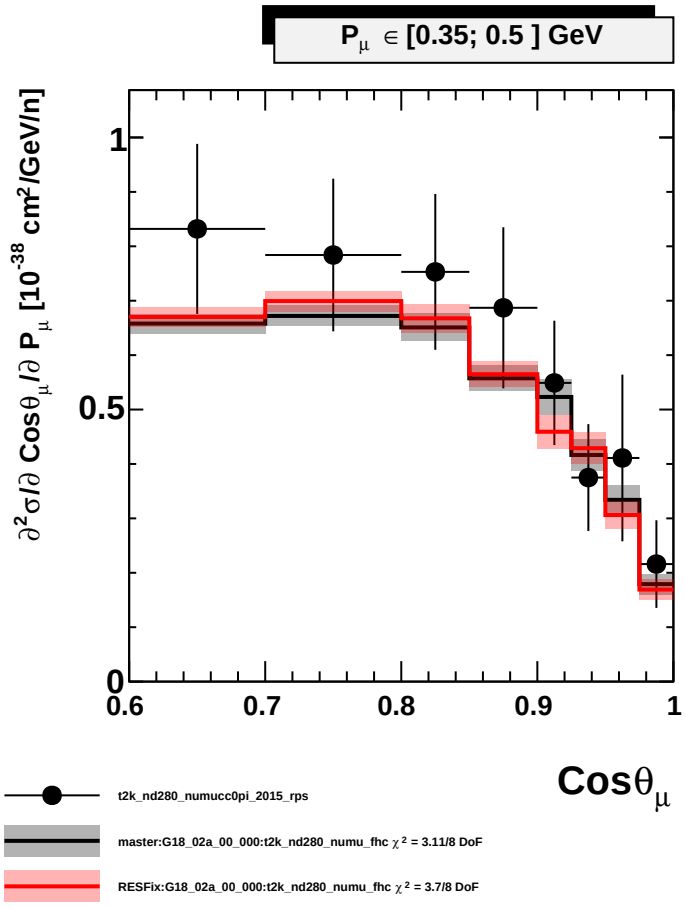
χ^2 = 65.0388/80 DoF

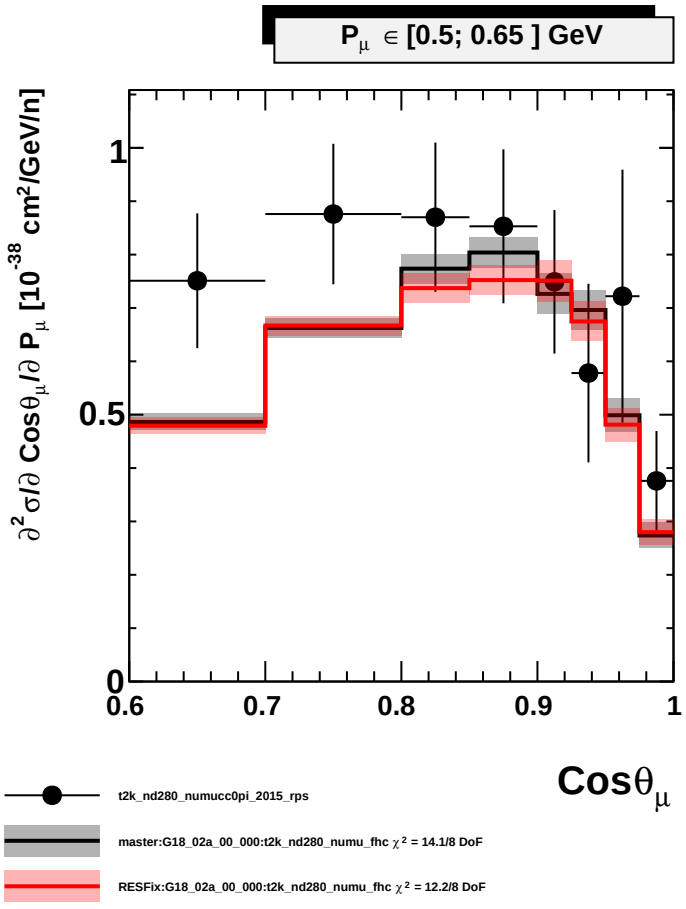


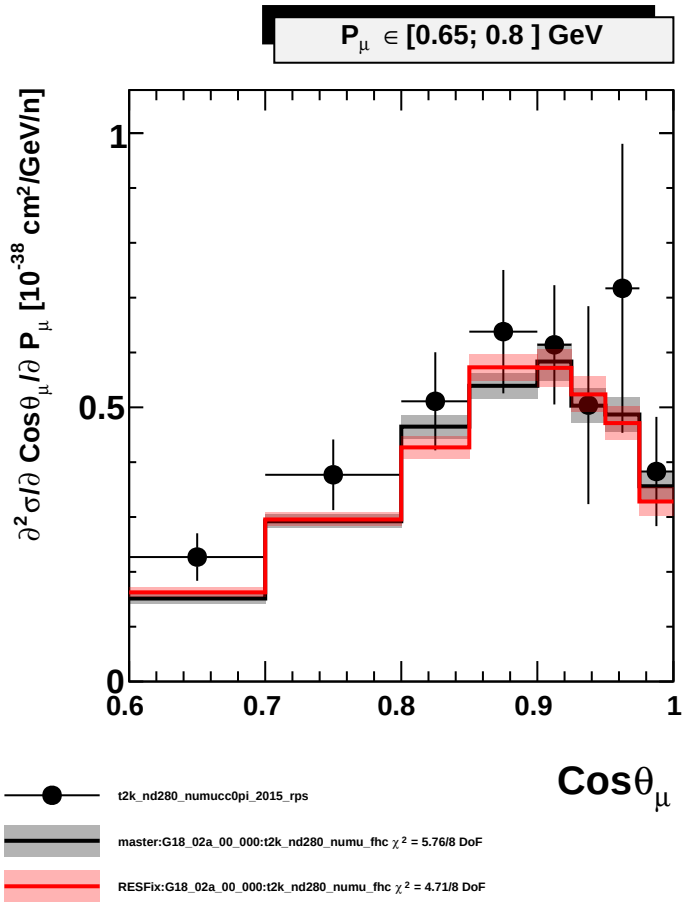


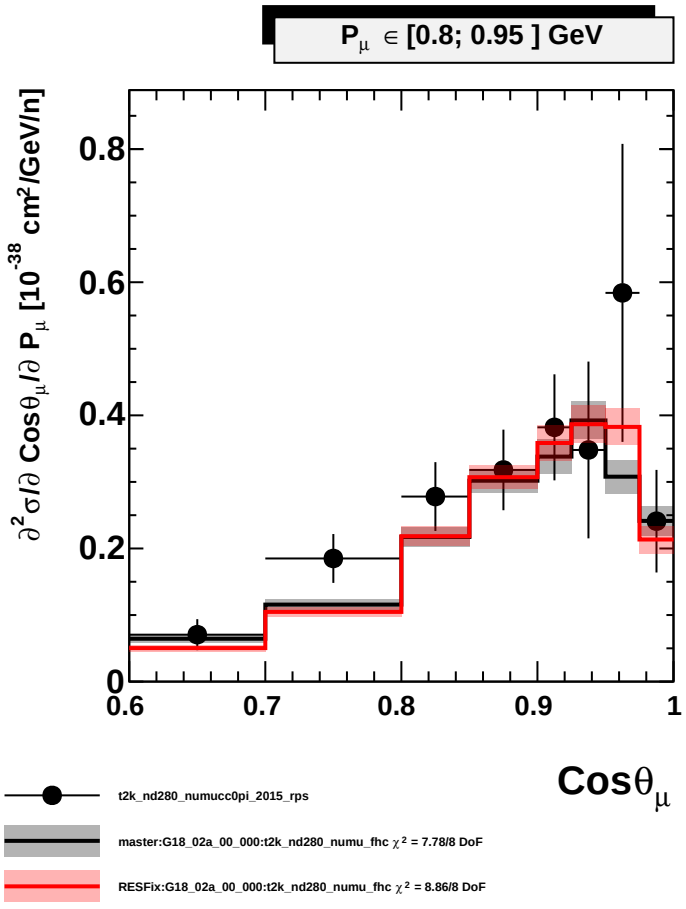


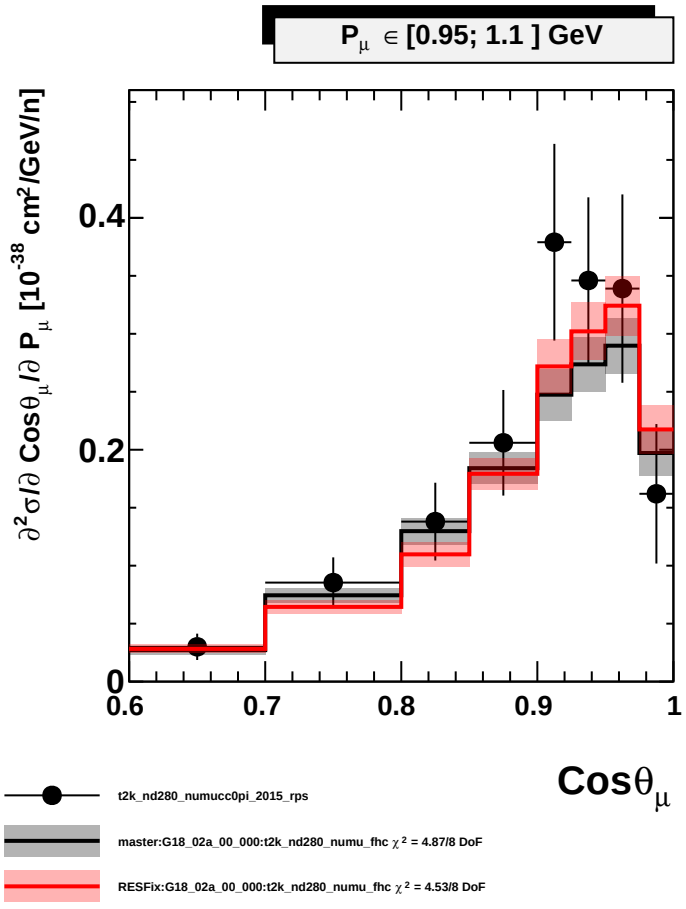

$P_\mu \in [0.2; 0.35]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.92/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.95/8 DoF

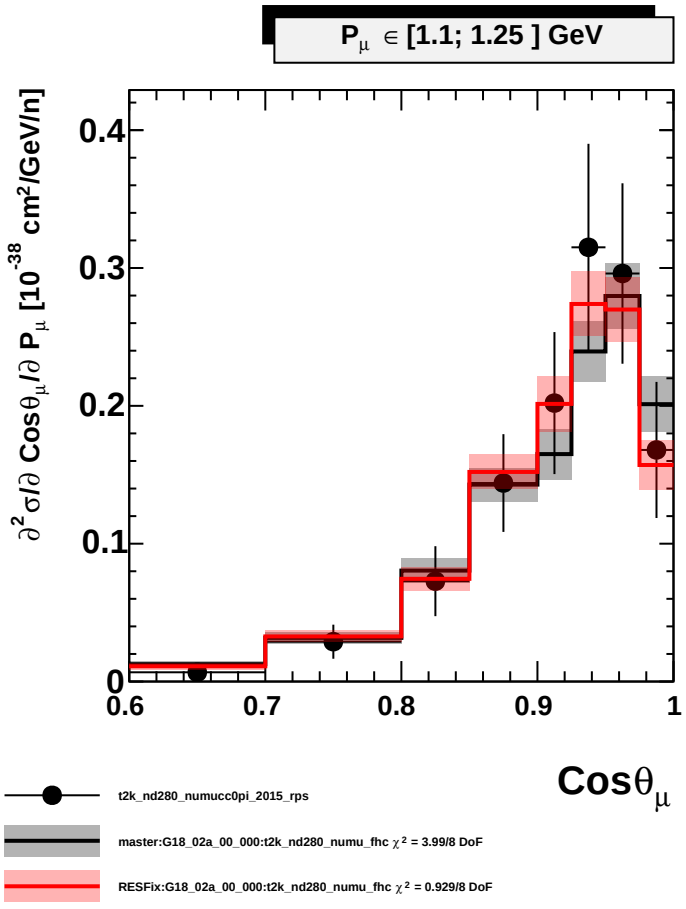

$P_\mu \in [0.35; 0.5]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.11/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.7/8 DoF

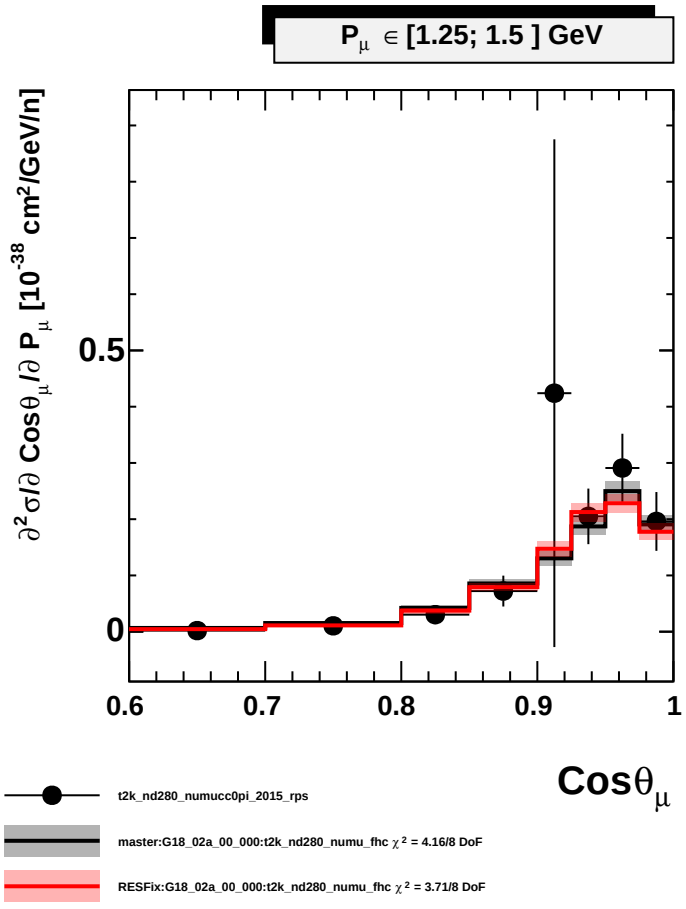

$P_\mu \in [0.5; 0.65]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 14.1/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 12.2/8 DoF

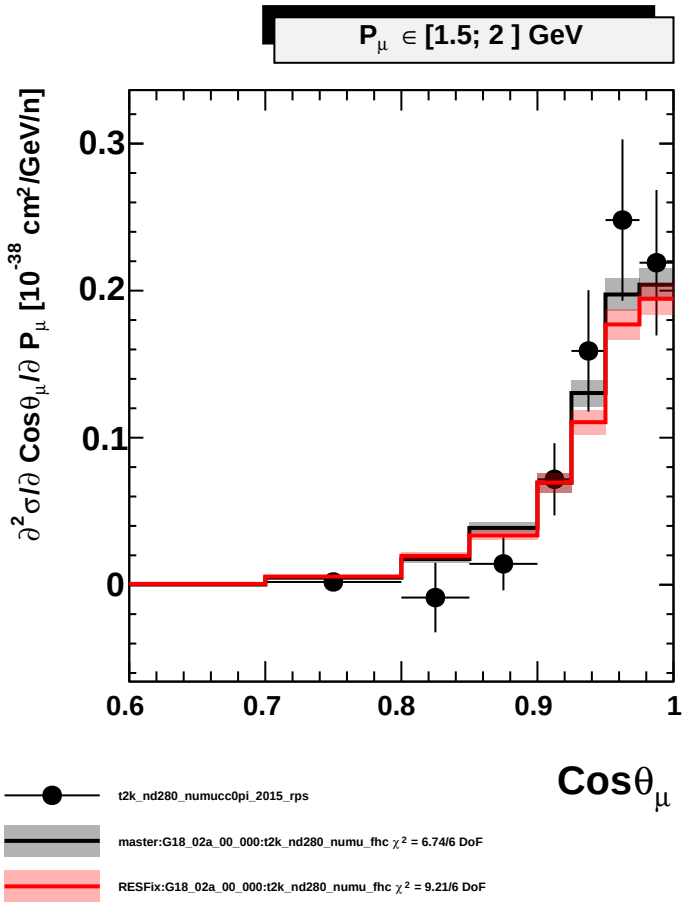

$P_\mu \in [0.65; 0.8]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 5.76/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.71/8 DoF

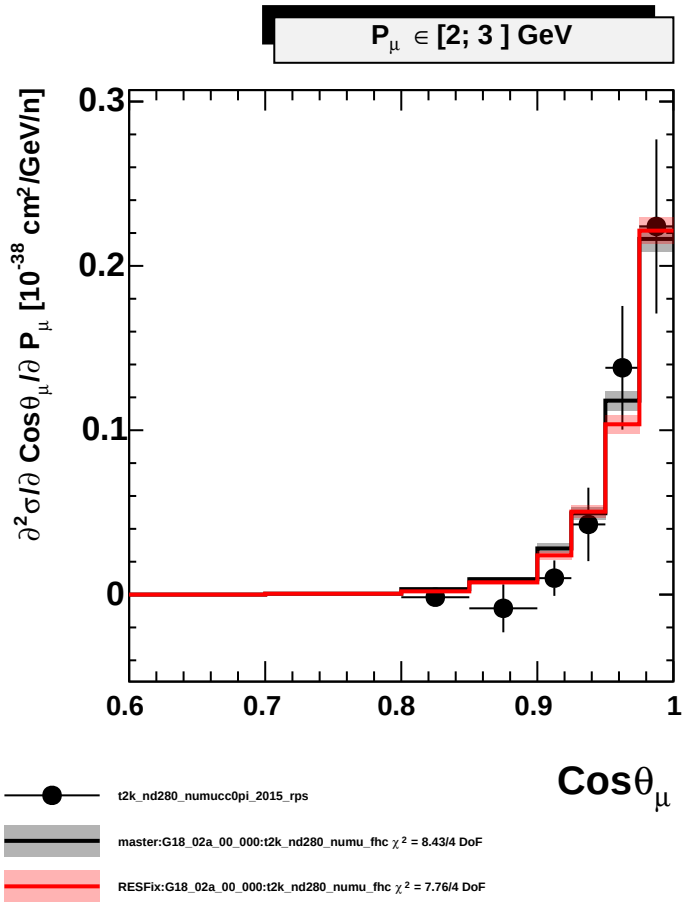

$P_\mu \in$ [0.8; 0.95] GeV
$\partial^2\sigma/\partial\,\mathrm{Cos}\theta_\mu/\partial\,P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.78/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 8.86/8 DoF

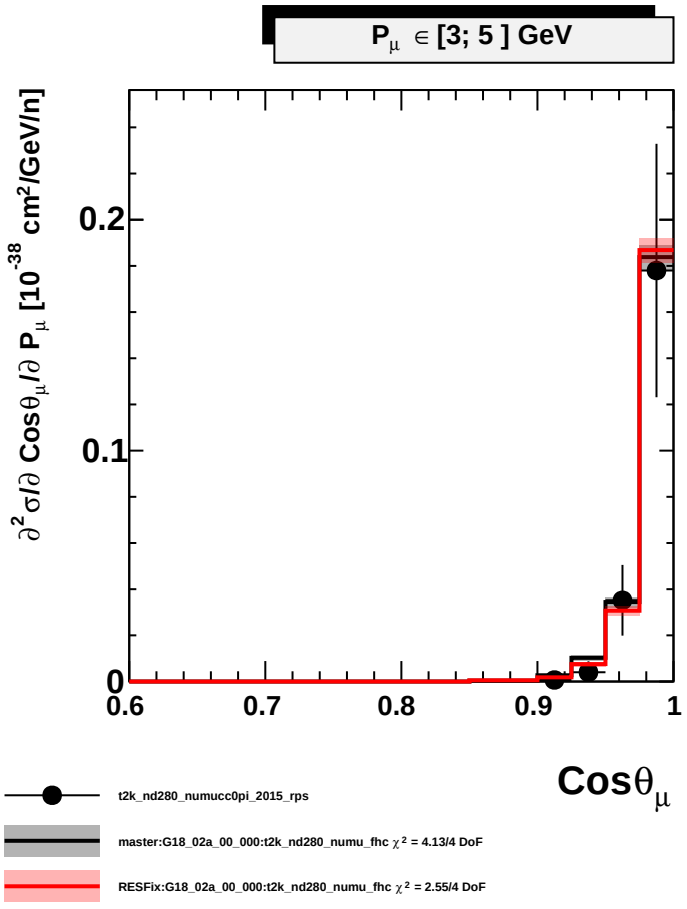

$P_\mu \in$ [0.95; 1.1] GeV
$\partial^2\sigma/\partial\,\mathrm{Cos}\theta_\mu/\partial\,P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.87/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.53/8 DoF

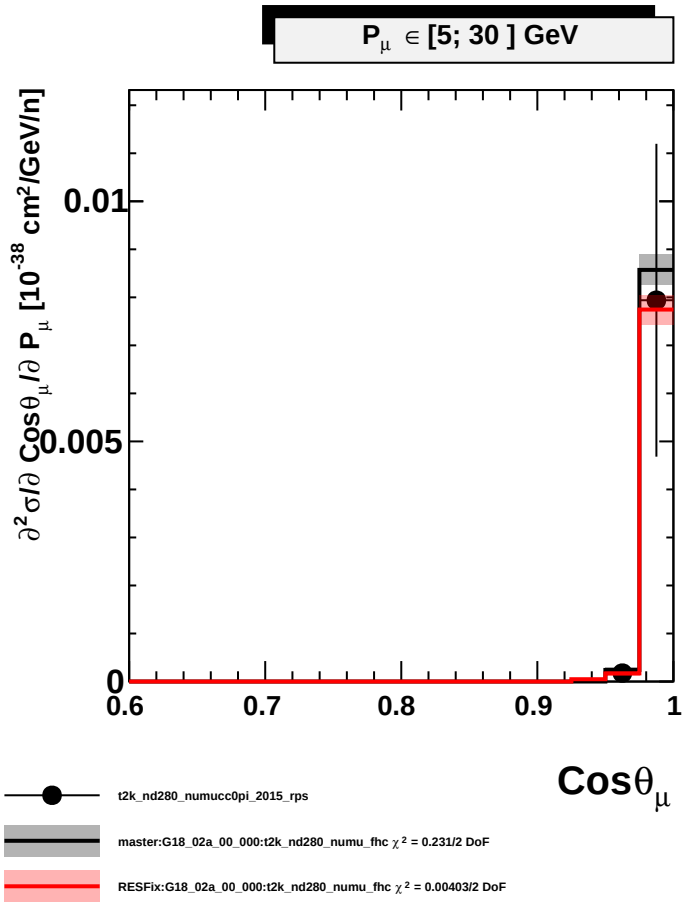

$P_\mu \in$ [1.1; 1.25] GeV
$\partial^2\sigma/\partial\,\mathrm{Cos}\theta_\mu/\partial\,P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.99/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.929/8 DoF

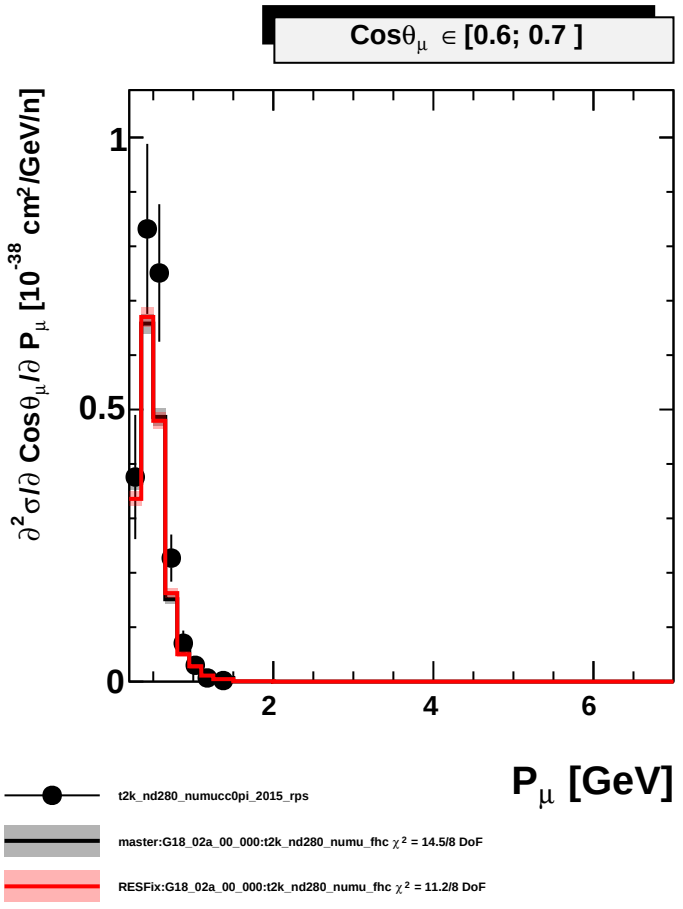

$P_\mu \in$ [1.25; 1.5] GeV
$\partial^2\sigma/\partial\,\mathrm{Cos}\theta_\mu/\partial\,P_\mu$ [10^{-38} cm^2/GeV/n]
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.16/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.71/8 DoF

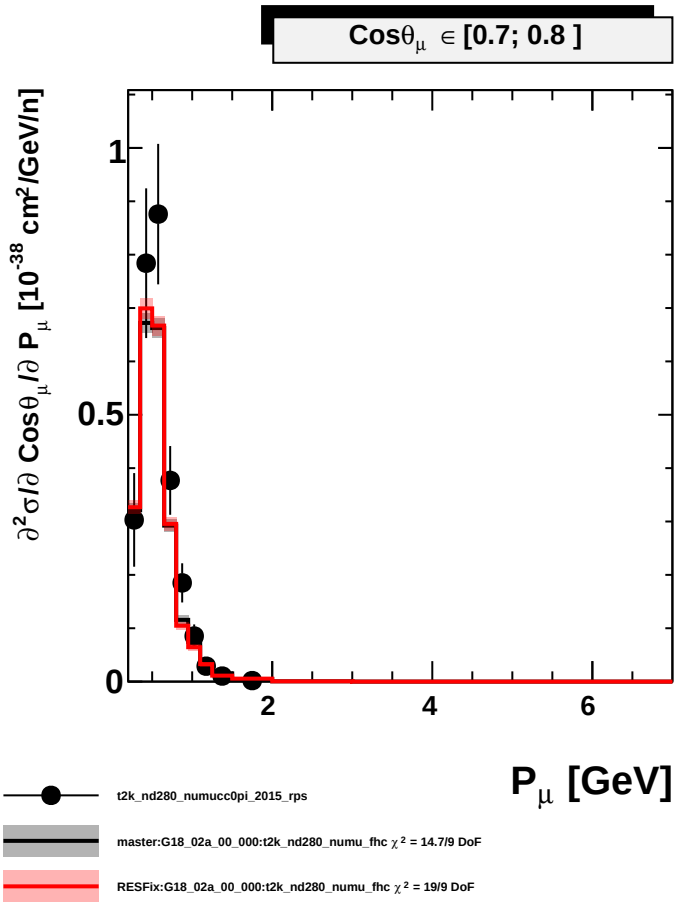

$P_\mu \in$ [1.5; 2] GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
0.3
0.2
0.1
0
0.6
0.7
0.8
0.9
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 6.74/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 9.21/6 DoF

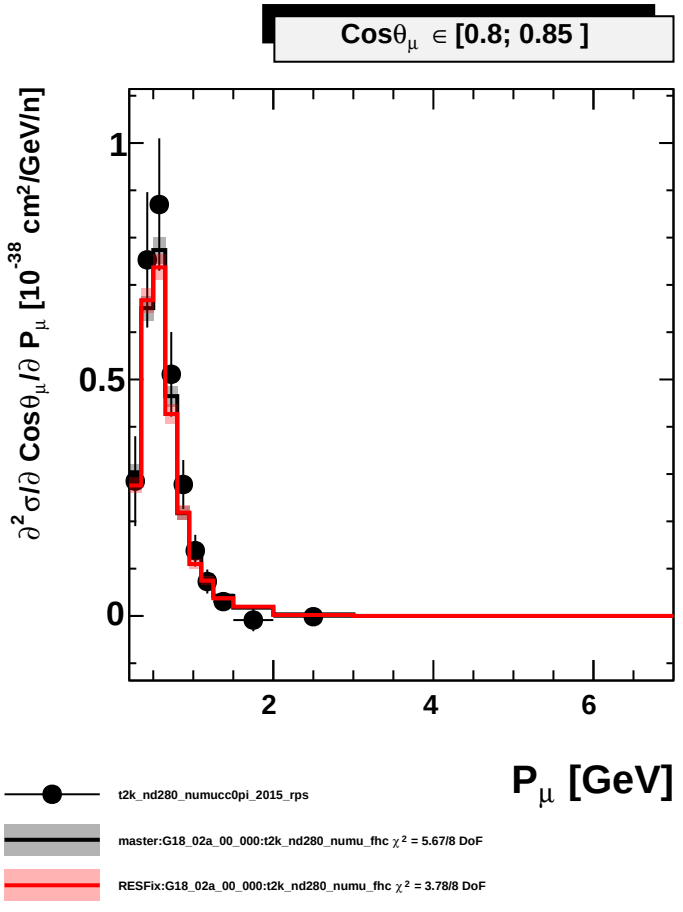

$P_\mu \in$ [2; 3] GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
0.3
0.2
0.1
0
0.6
0.7
0.8
0.9
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 8.43/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.76/4 DoF

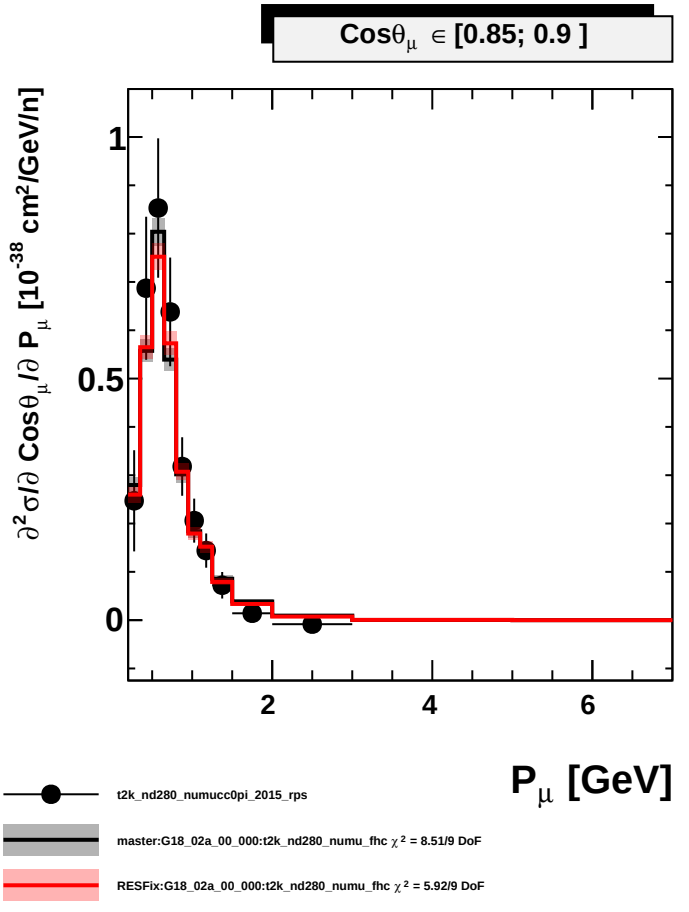

$P_\mu \in$ [3; 5] GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
0.2
0.1
0
0.6
0.7
0.8
0.9
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.13/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.55/4 DoF

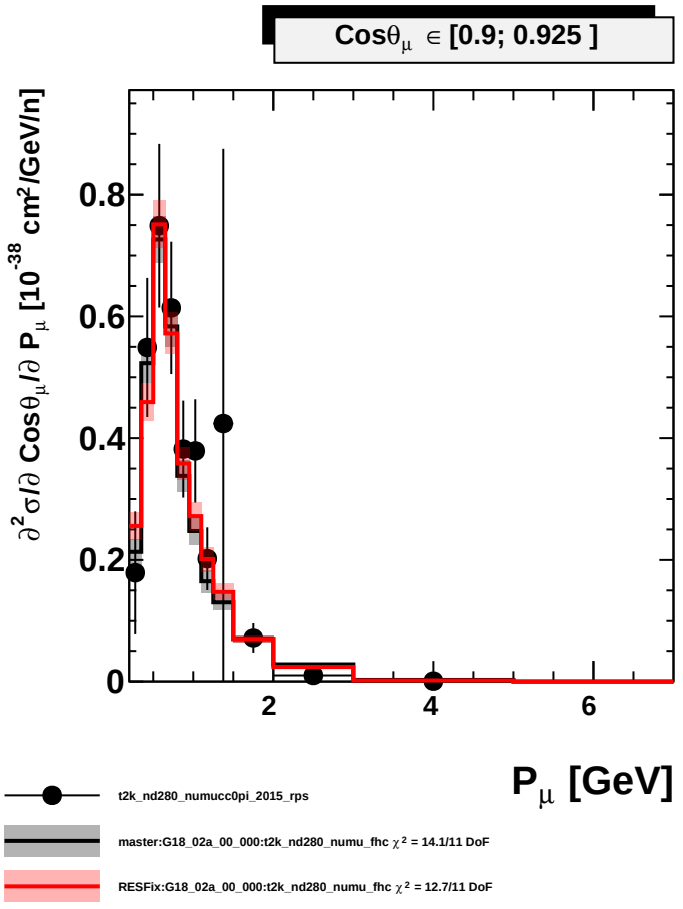

$P_\mu \in$ [5; 30] GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu/\partial P_\mu$ [10^{-38} cm^2/GeV/n]
0.01
0.005
0
0.6
0.7
0.8
0.9
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.231/2 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.00403/2 DoF

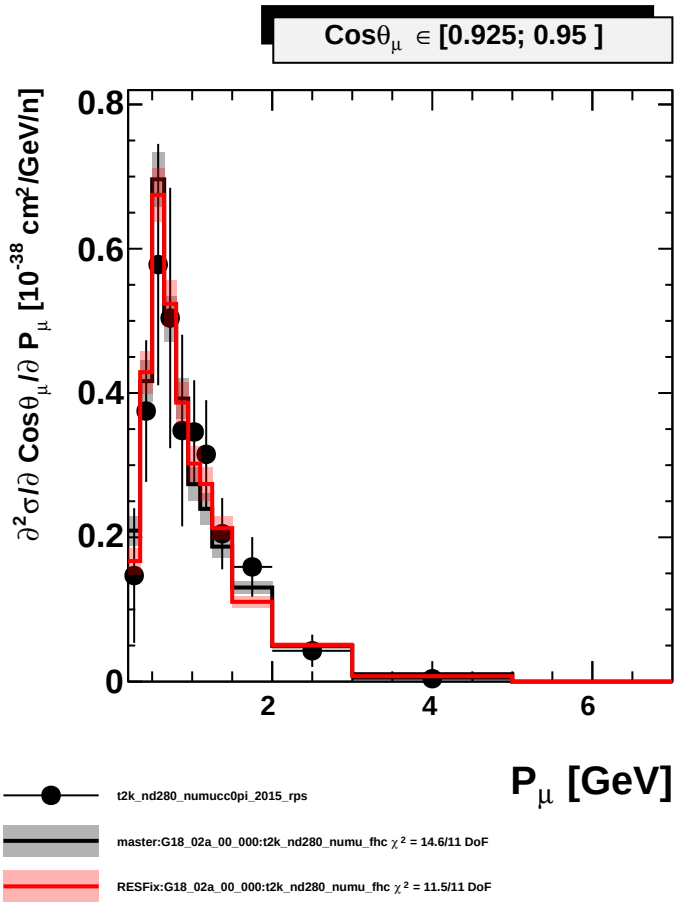

Cosθμ ∈ [0.6; 0.7]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 14.5/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 11.2/8 DoF

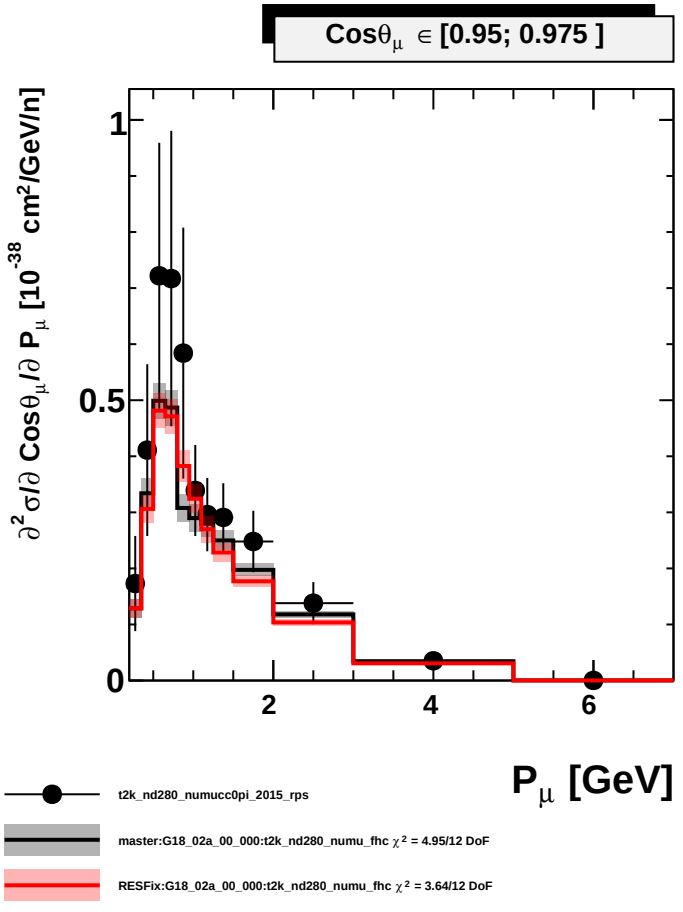

Cosθμ ∈ [0.7; 0.8]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 14.7/9 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 19/9 DoF

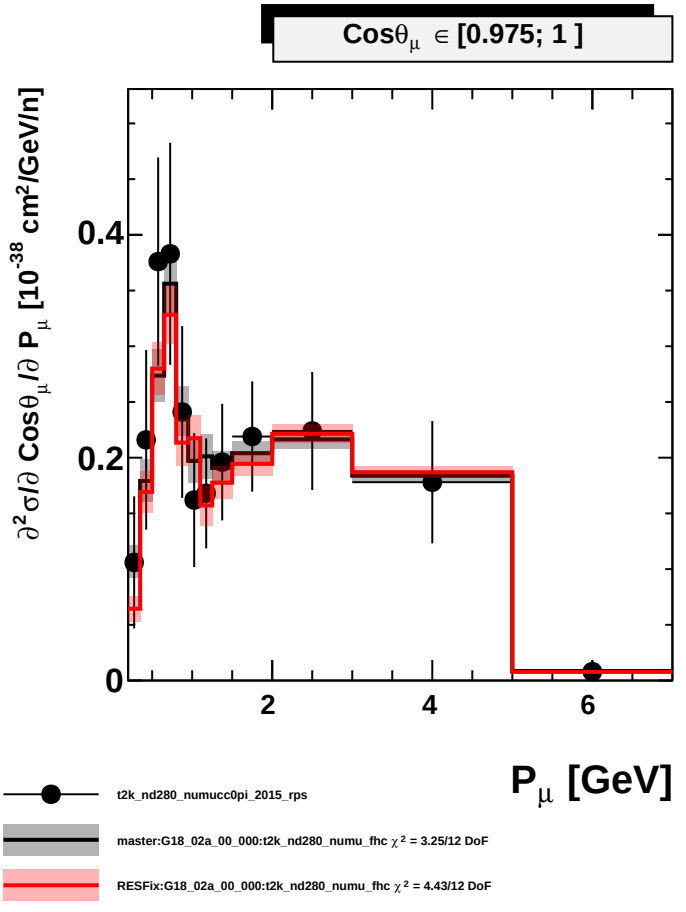

Cosθμ ∈ [0.8; 0.85]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 5.67/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 3.78/8 DoF

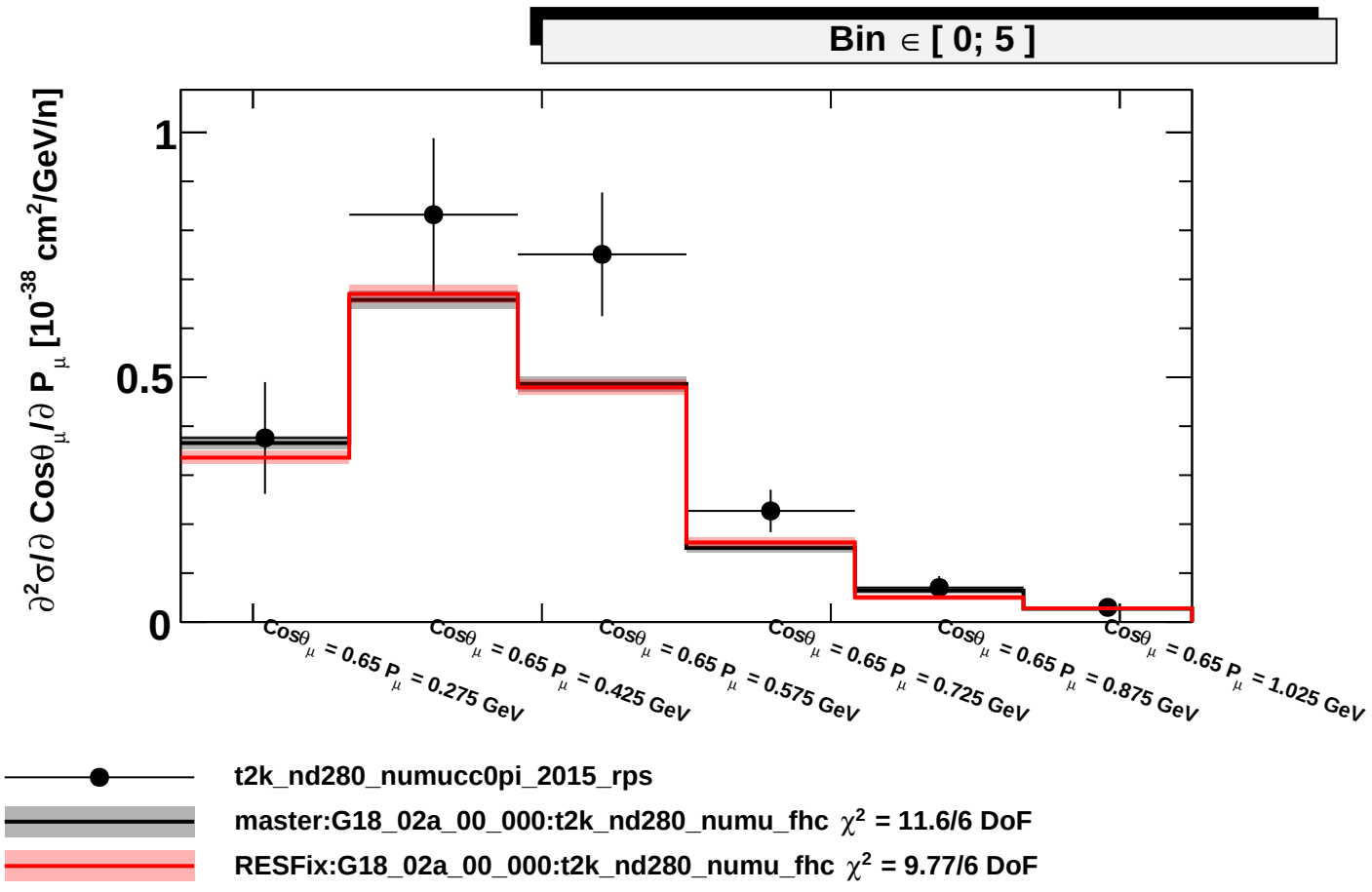

Cosθμ ∈ [0.85; 0.9]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 8.51/9 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 5.92/9 DoF


Cosθμ ∈ [0.9; 0.925]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 14.1/11 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 12.7/11 DoF


Cosθμ ∈ [0.925; 0.95]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 14.6/11 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 11.5/11 DoF


Cosθμ ∈ [0.95; 0.975]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 4.95/12 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 3.64/12 DoF

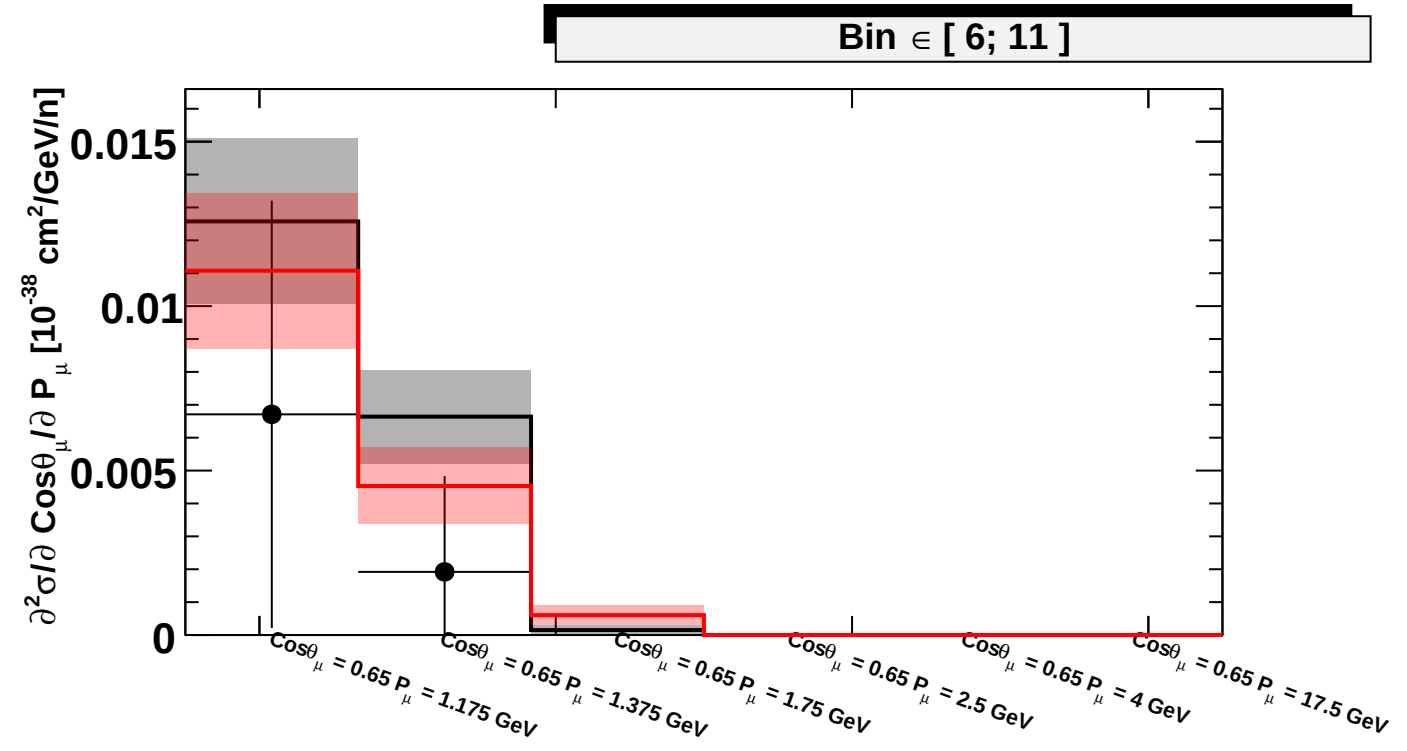

Cosθμ ∈ [0.975; 1]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 3.25/12 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 4.43/12 DoF



t2k_nd280_numucc0pi_2015_rps

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 11.6/6 DoF

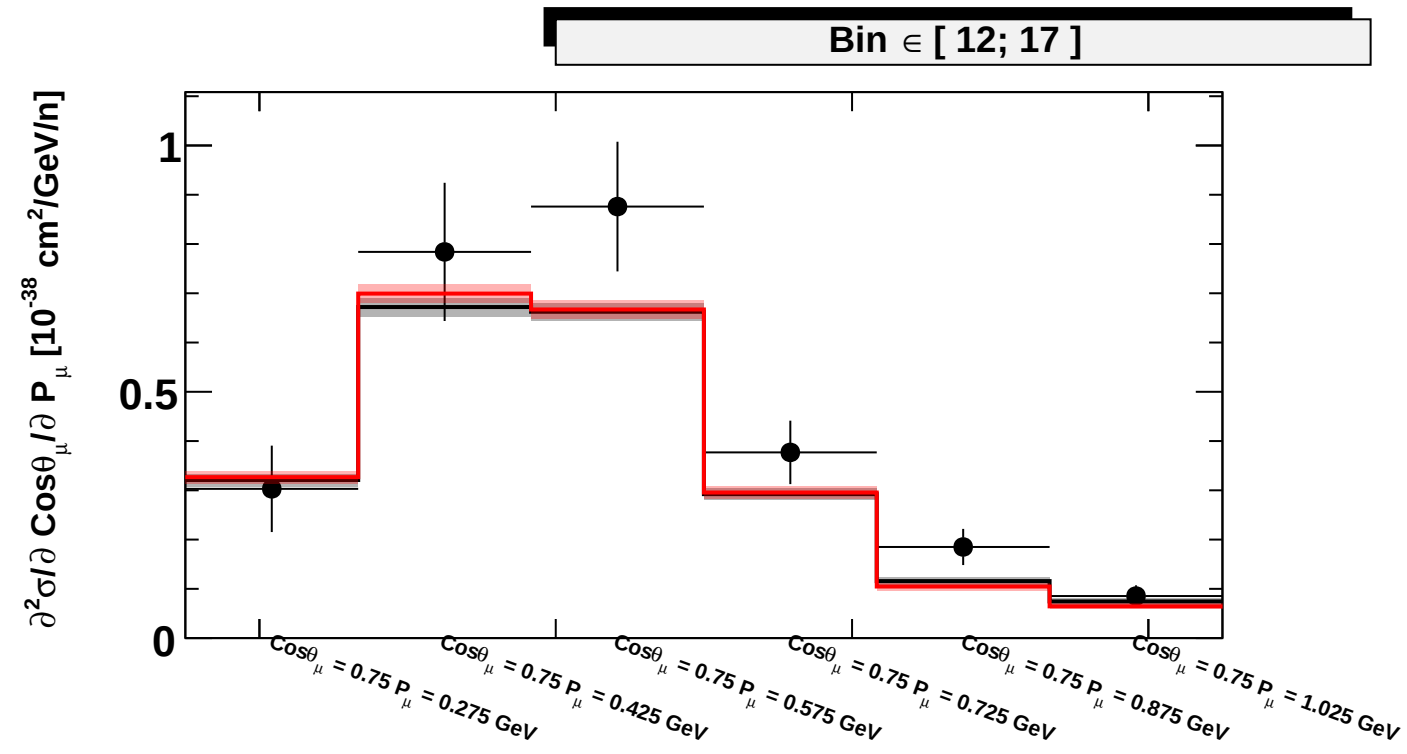
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 9.77/6 DoF



t2k_nd280_numucc0pi_2015_rps

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.17/2 DoF

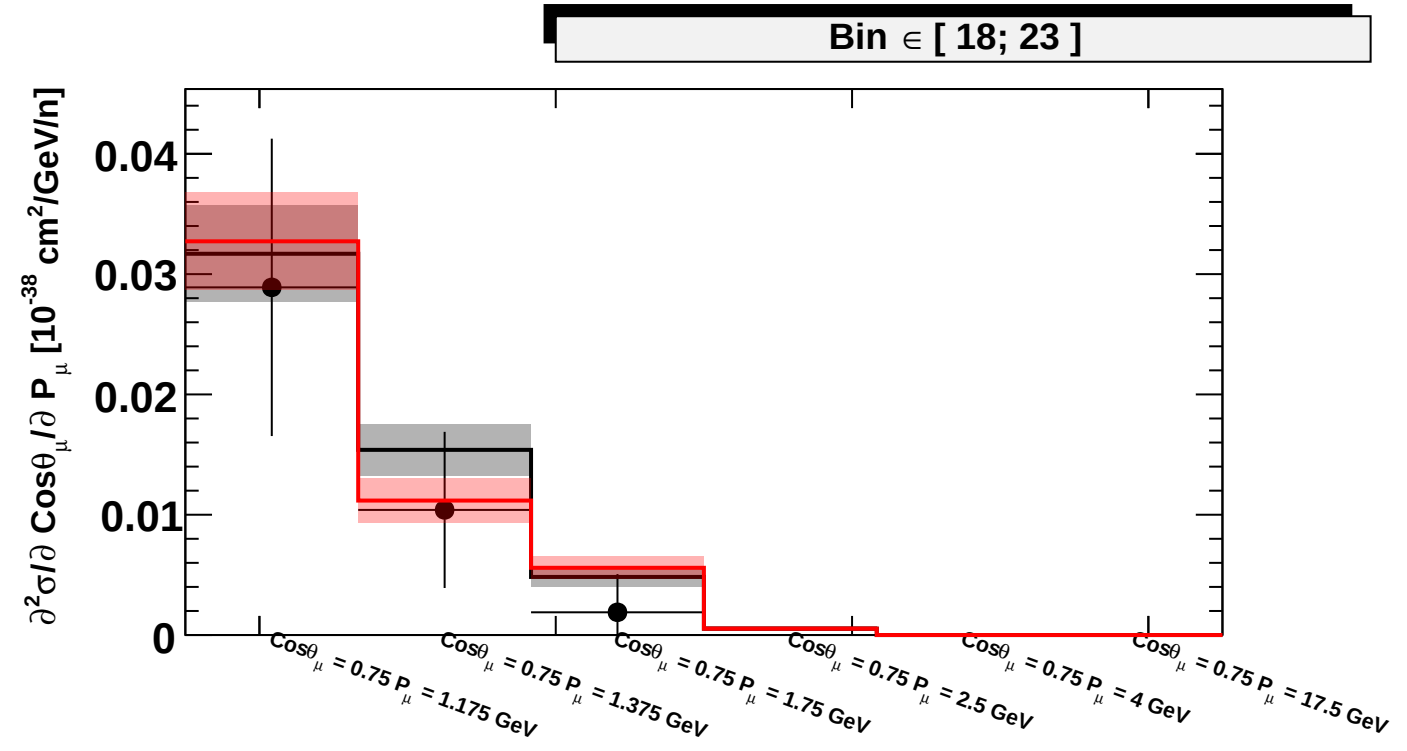
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.77/2 DoF



t2k_nd280_numucc0pi_2015_rps

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 13/6 DoF

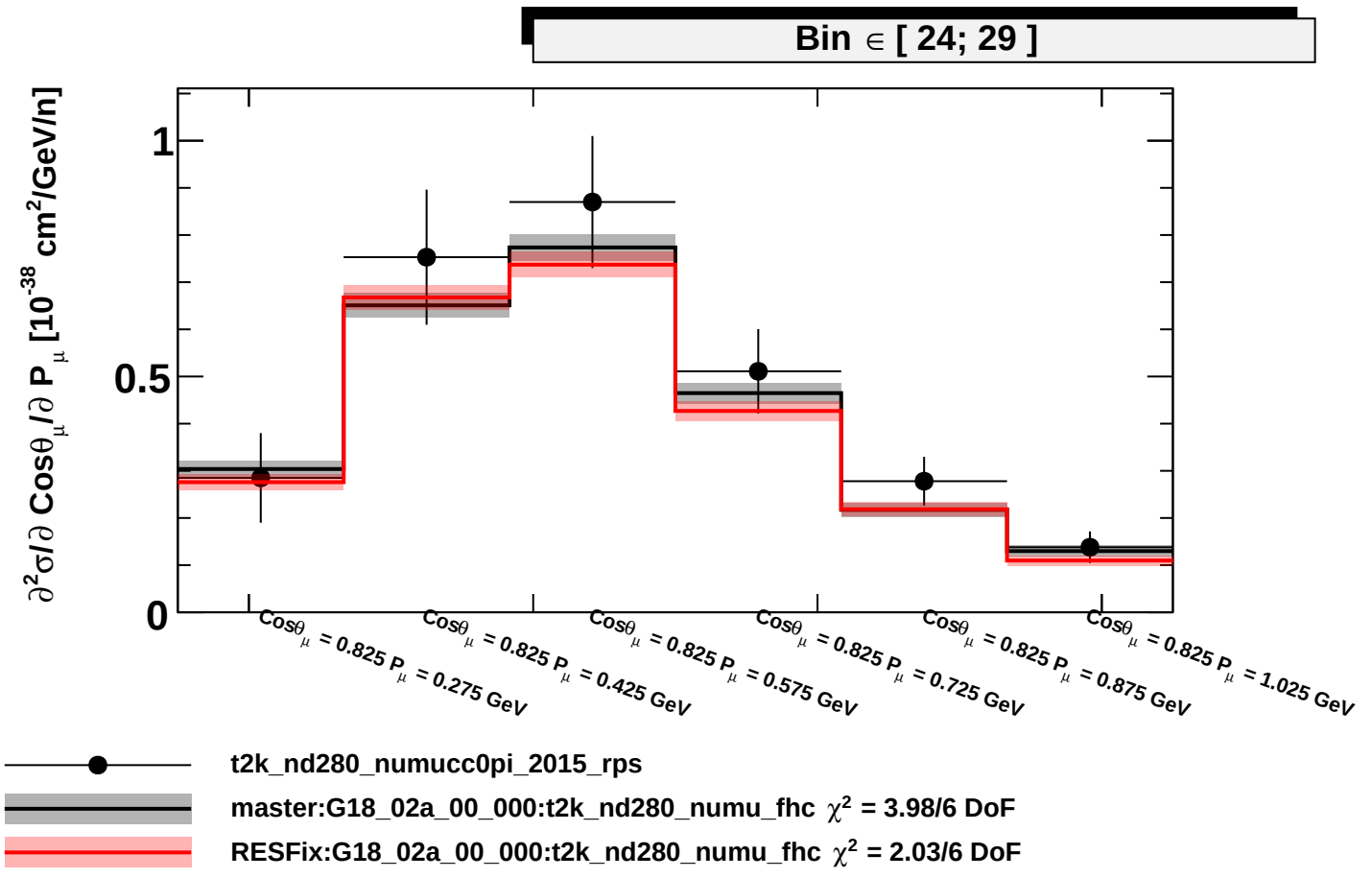
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 14.9/6 DoF

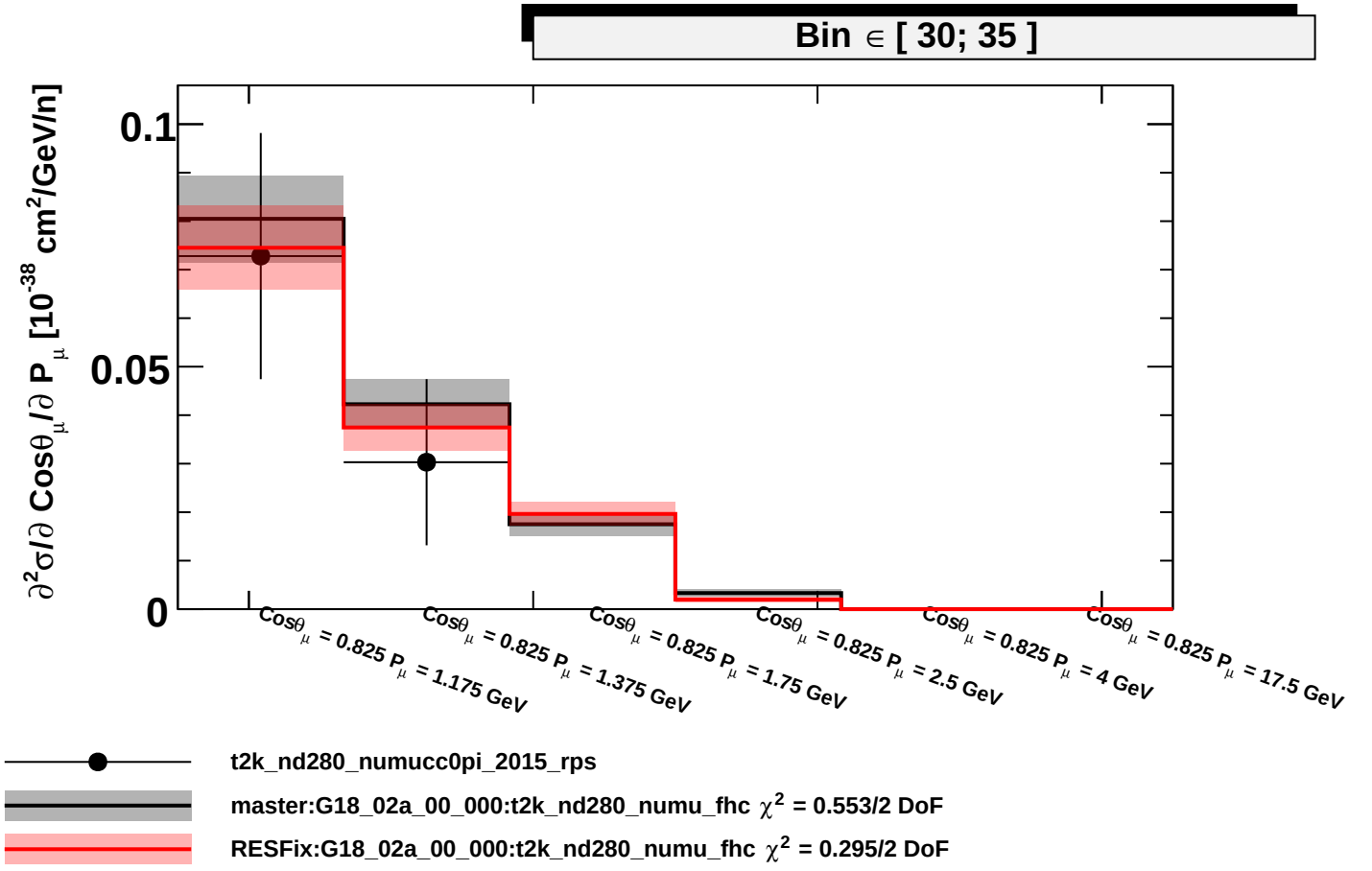


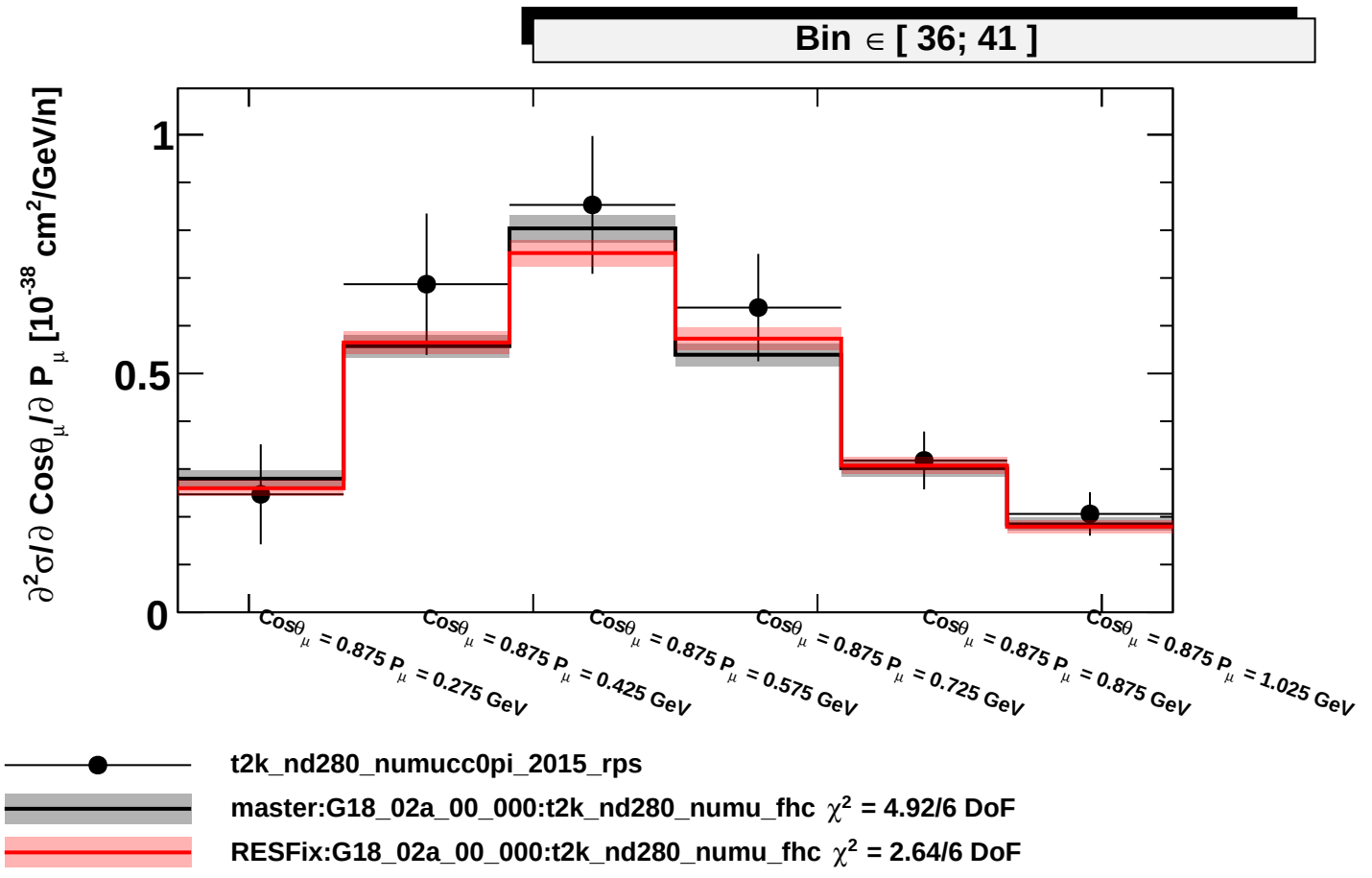
t2k_nd280_numucc0pi_2015_rps

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 1.06/3 DoF

RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.19/3 DoF


Bin ∈ [24; 29]
$\partial^2\sigma/\partial\,\mathrm{Cos}\theta_\mu/\partial\,P_\mu$ [10^{-38} cm^2/GeV/n]
1
0.5
0
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 0.275 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 0.425 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 0.575 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 0.725 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 0.875 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 1.025 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.98/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.03/6 DoF

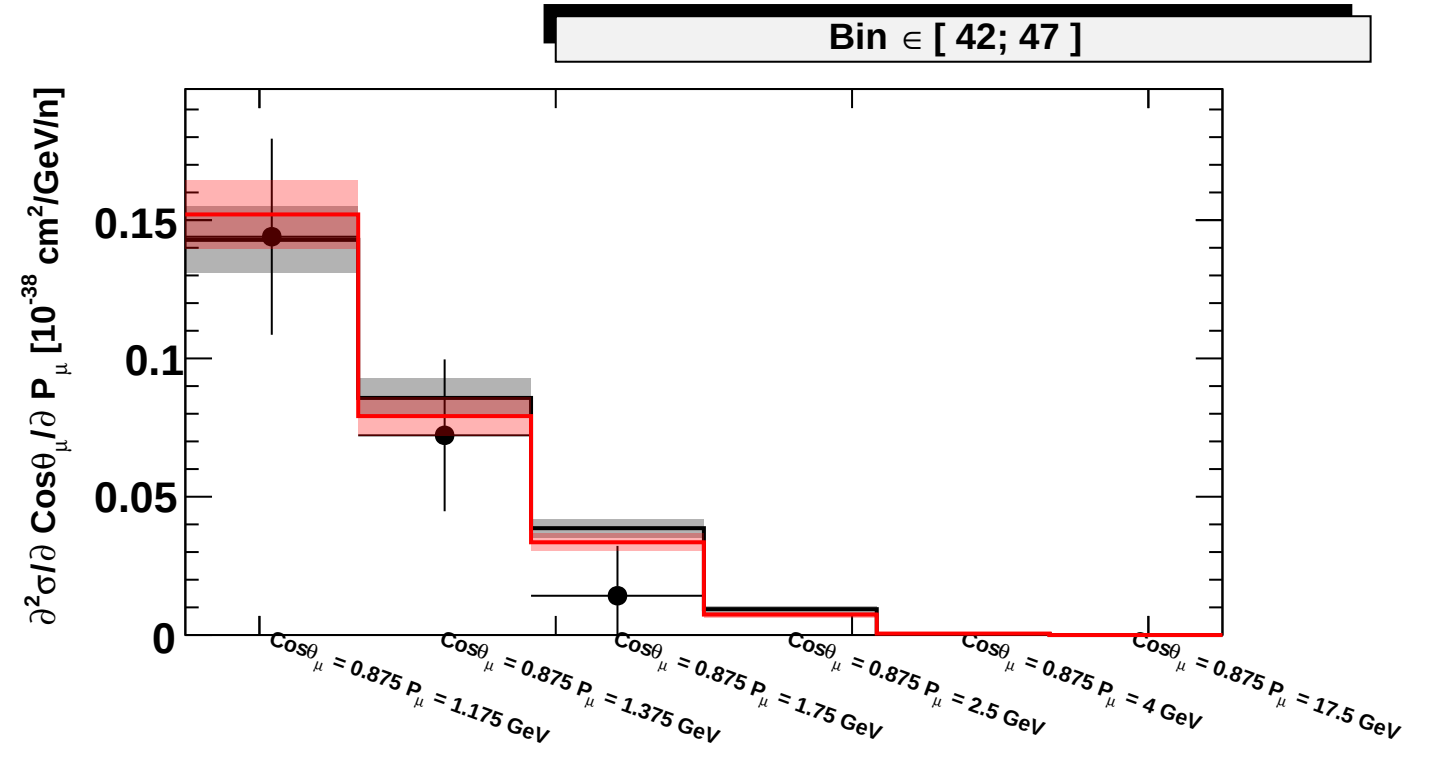

Bin ∈ [30; 35]
$\partial^2\sigma/\partial\,\mathrm{Cos}\theta_\mu/\partial\,P_\mu$ [10^{-38} cm^2/GeV/n]
0.1
0.05
0
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 1.175 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 1.375 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 1.75 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 2.5 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 4 GeV
$\mathrm{Cos}\theta_\mu$ = 0.825 P_μ = 17.5 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.553/2 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.295/2 DoF



t2k_nd280_numucc0pi_2015_rps

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.92/6 DoF

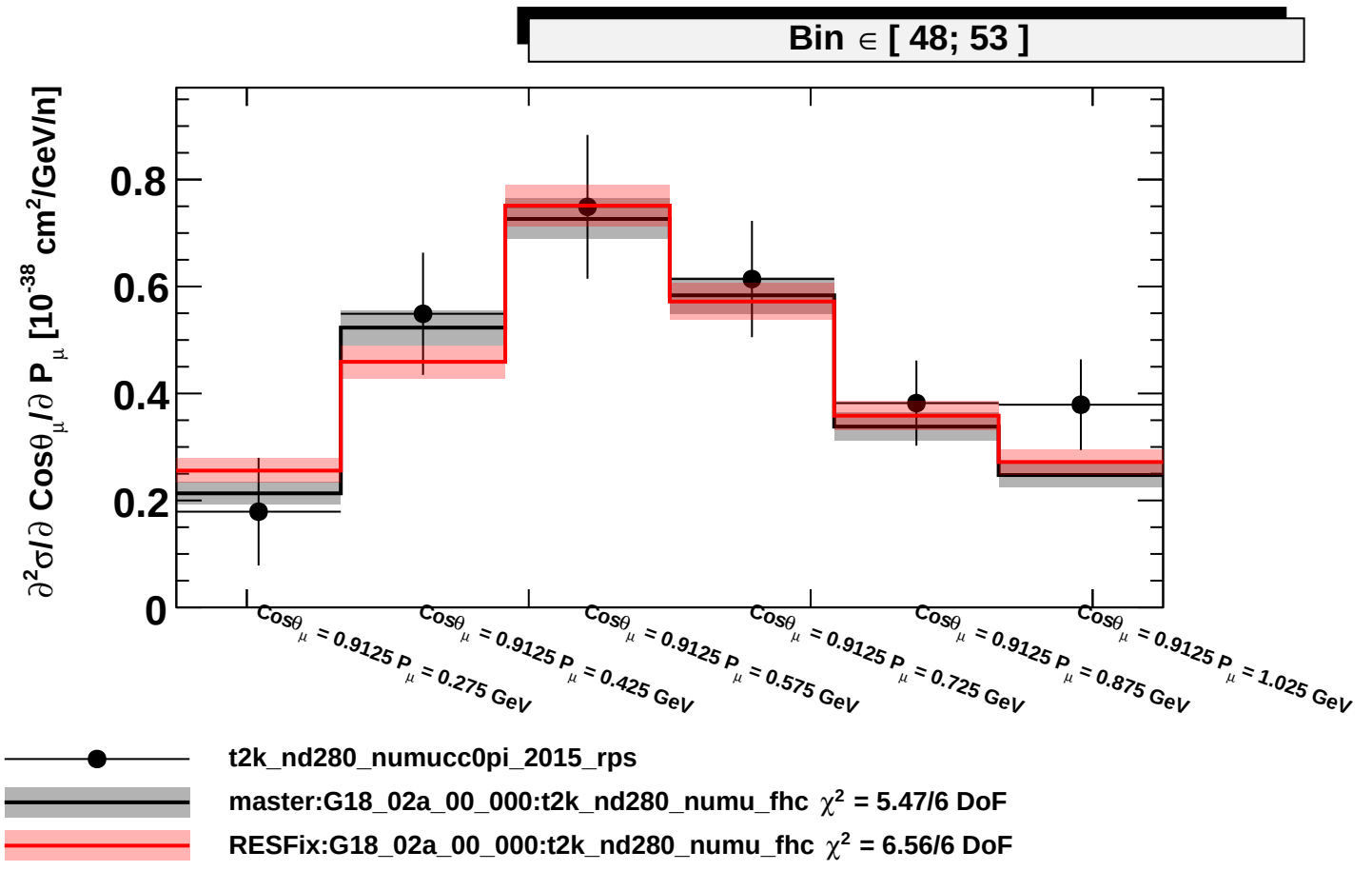
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.64/6 DoF

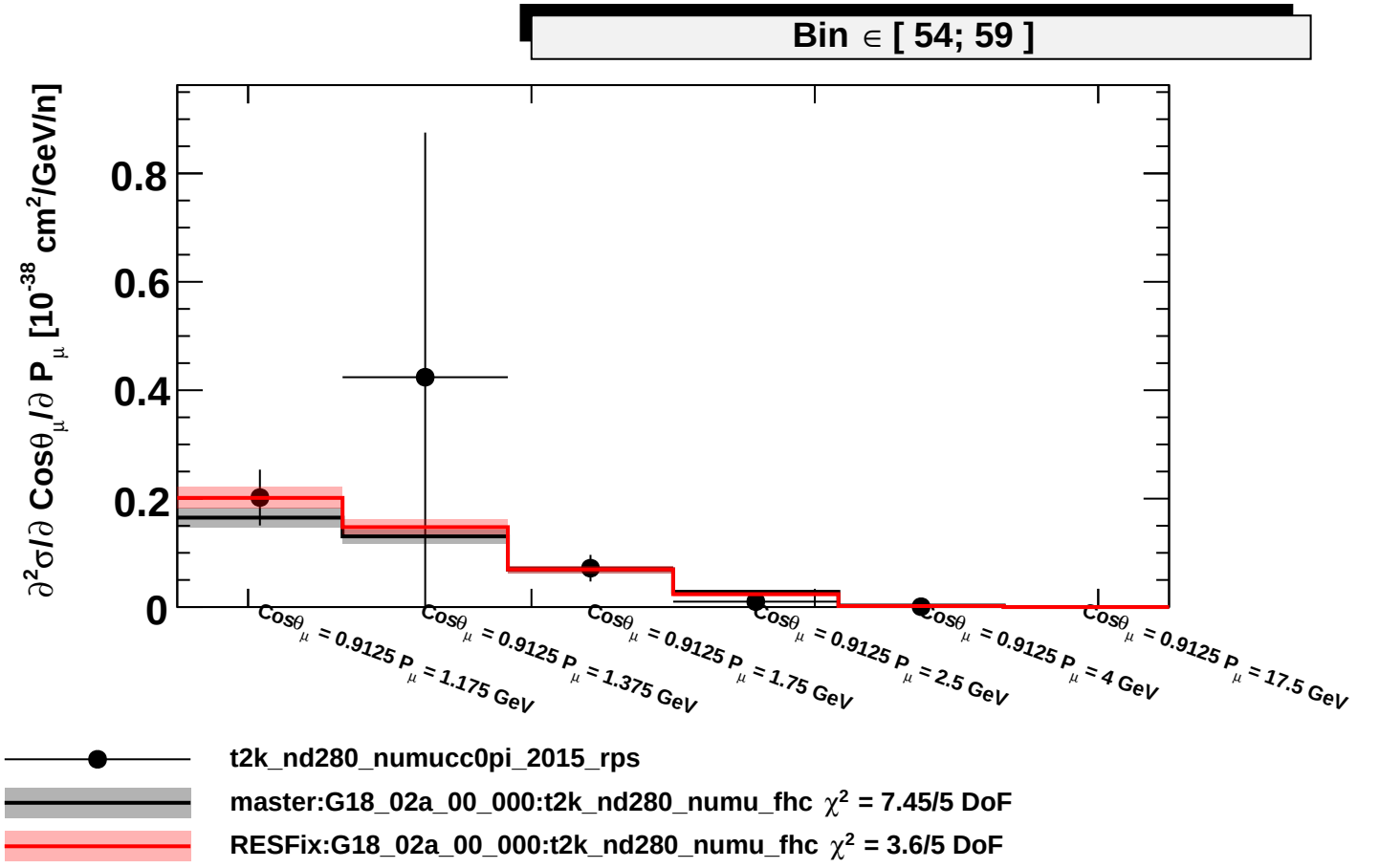


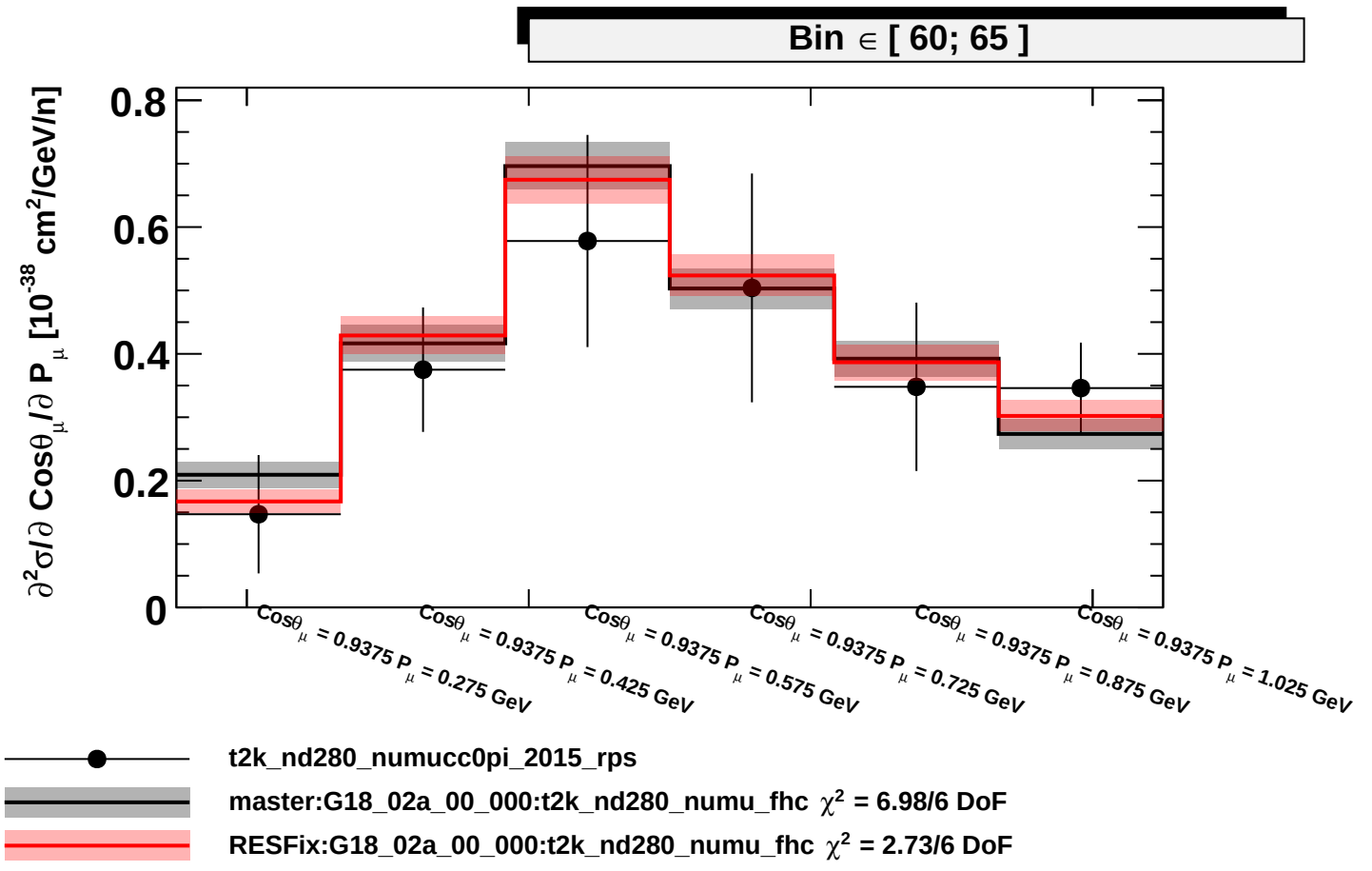
t2k_nd280_numucc0pi_2015_rps

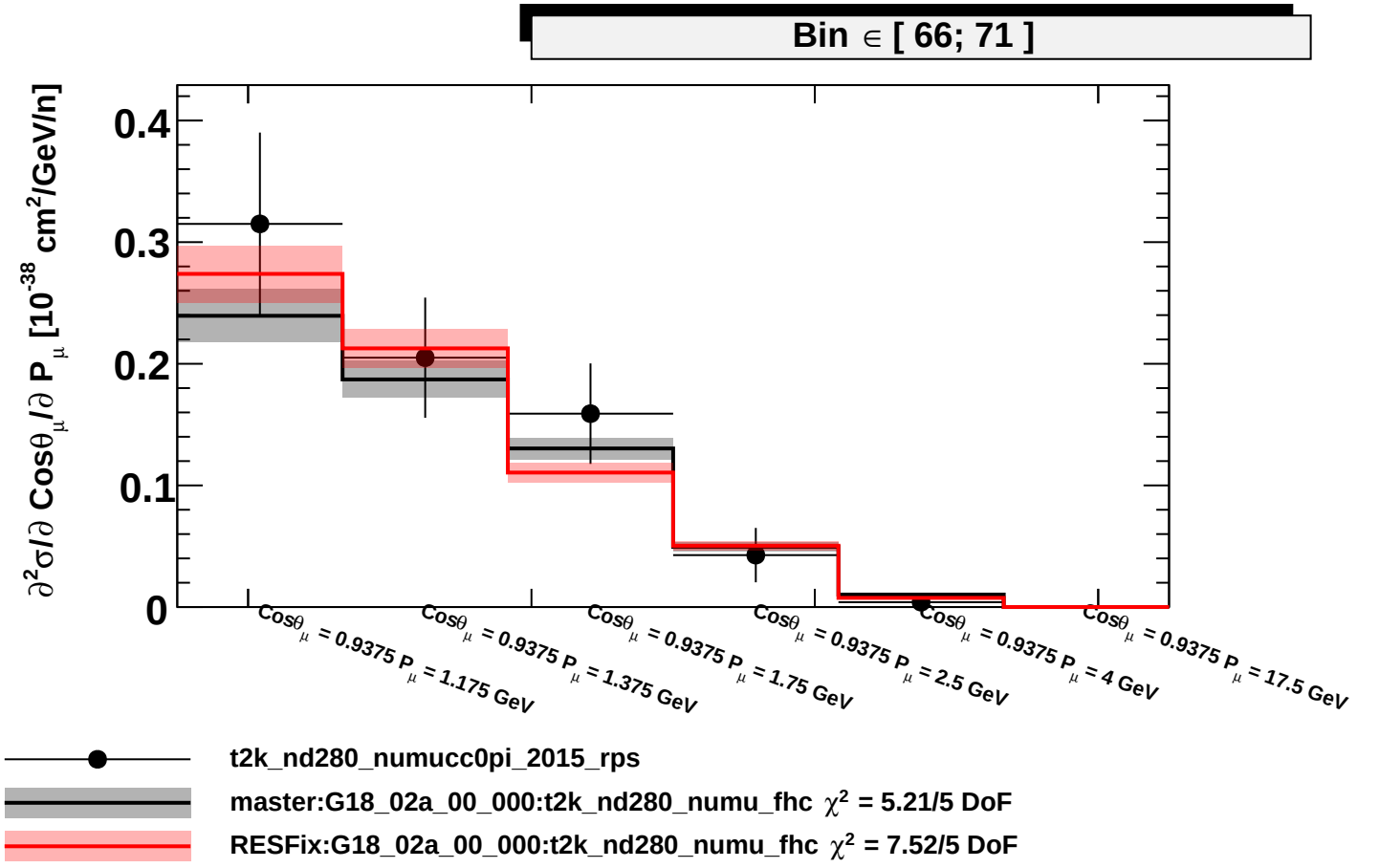
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.34/3 DoF

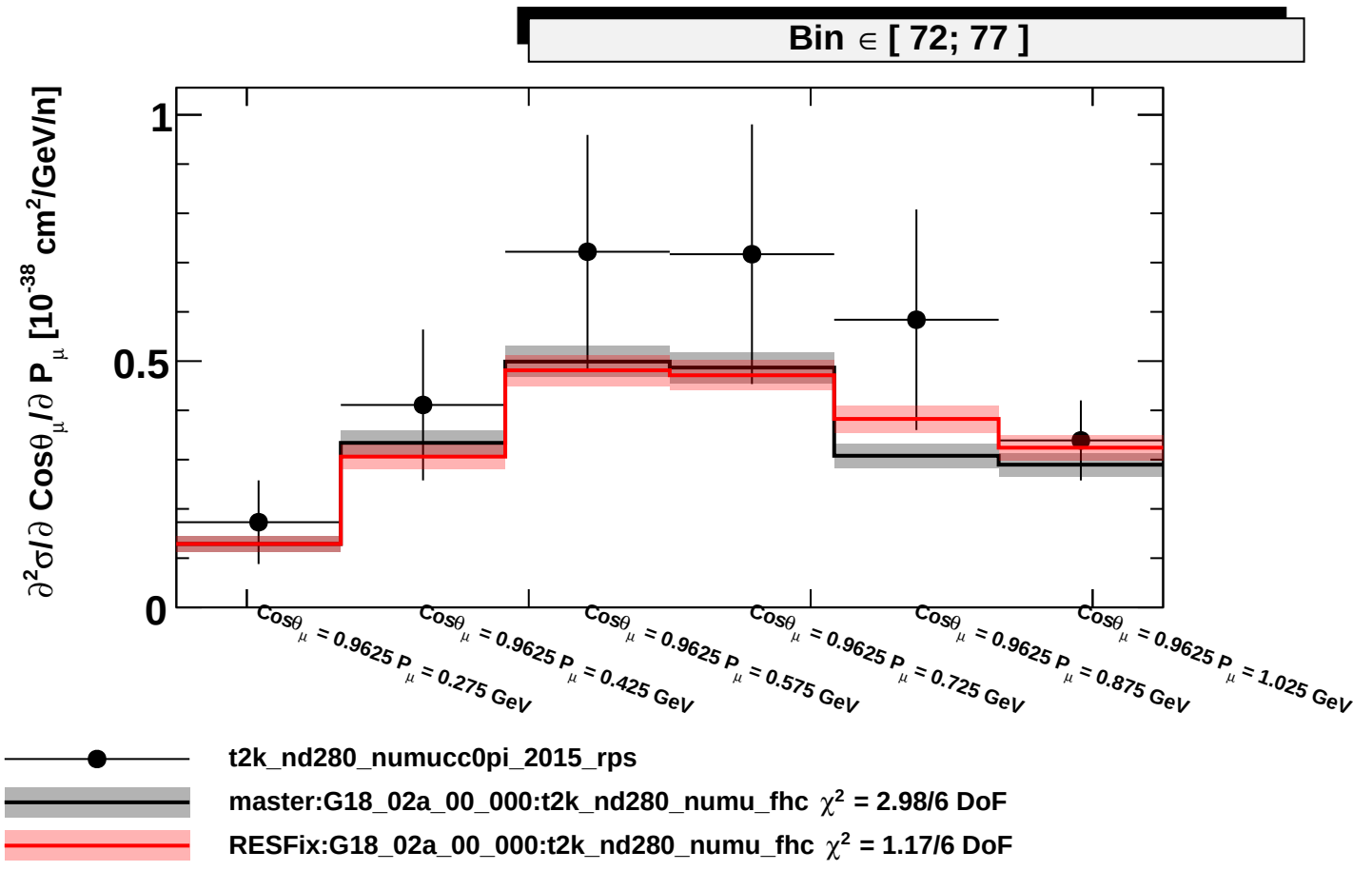
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 1.52/3 DoF

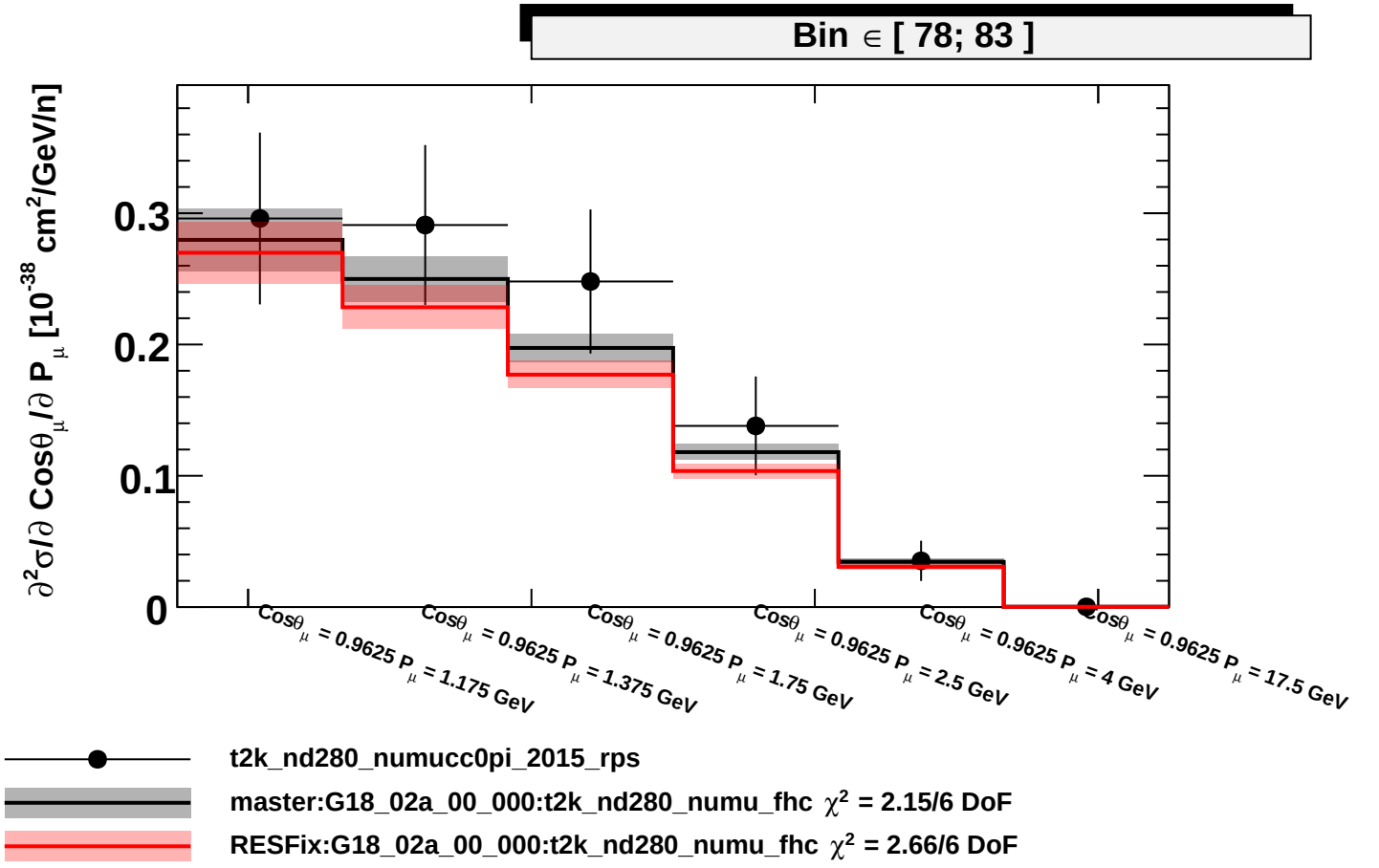

Bin ∈ [48; 53]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0
0.2
0.4
0.6
0.8
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 0.275 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 0.425 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 0.575 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 0.725 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 0.875 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 1.025 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 5.47/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 6.56/6 DoF

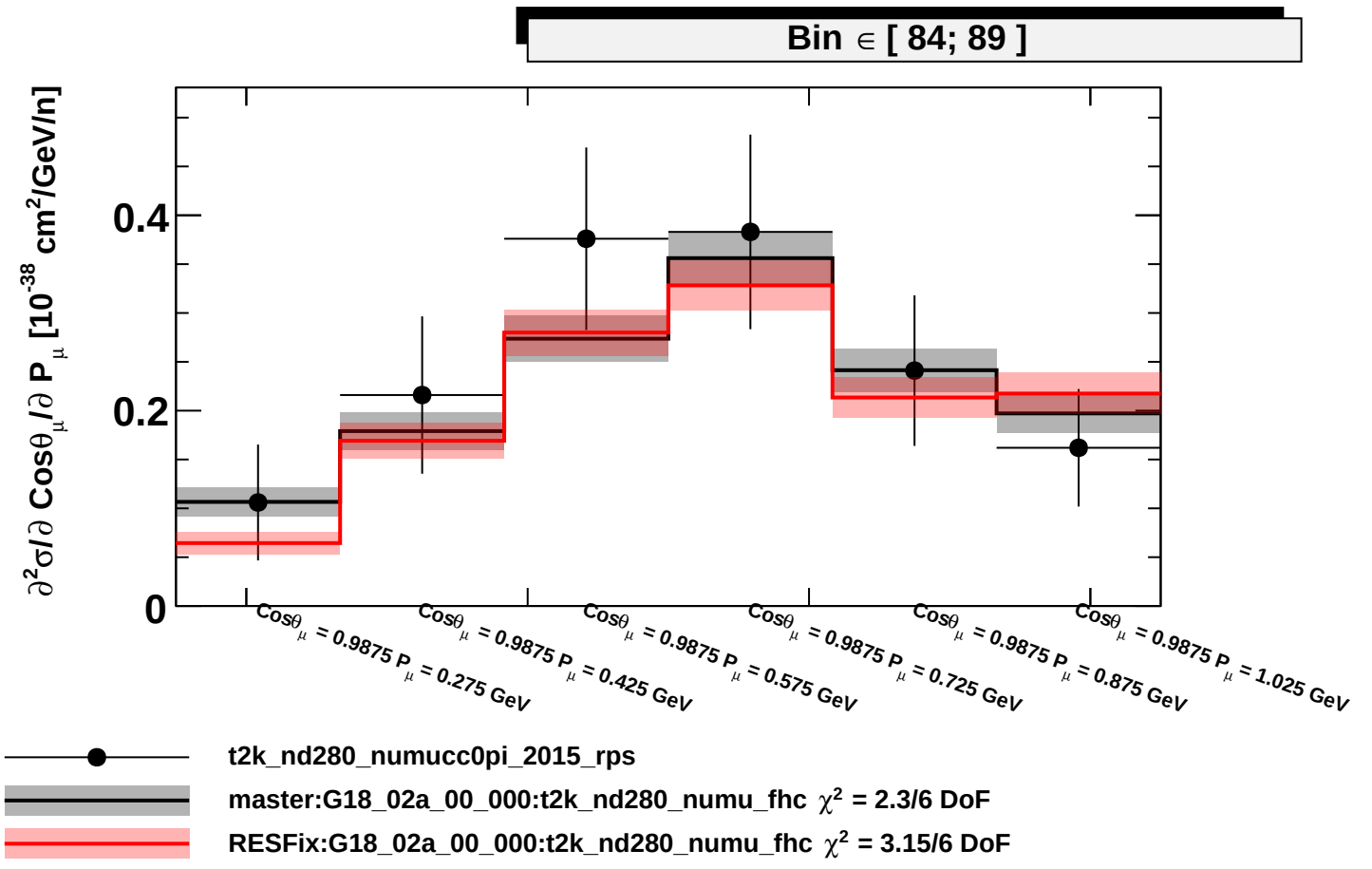

Bin ∈ [54; 59]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0
0.2
0.4
0.6
0.8
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 1.175 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 1.375 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 1.75 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 2.5 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 4 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9125 P_μ = 17.5 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.45/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.6/5 DoF

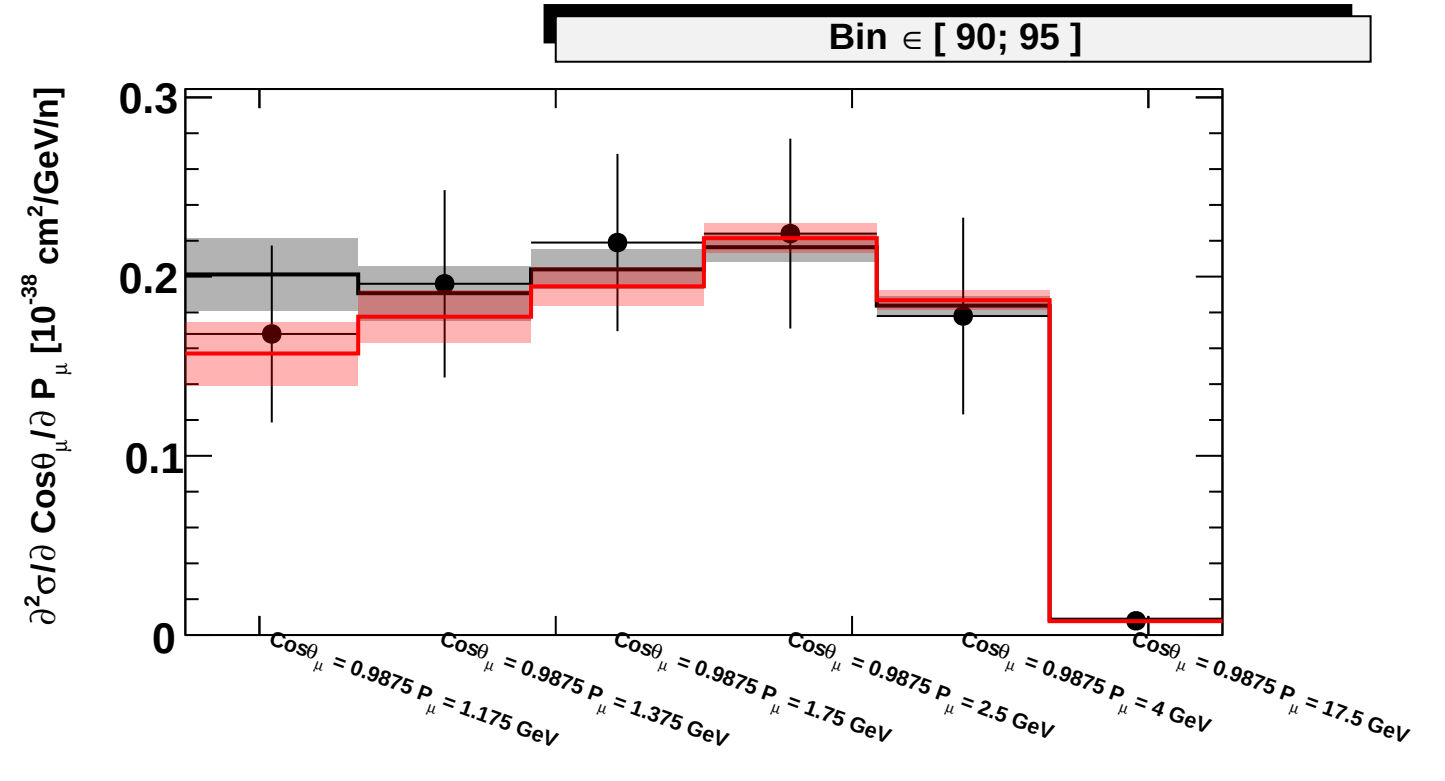

Bin ∈ [60; 65]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0.8
0.6
0.4
0.2
0
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 0.275 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 0.425 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 0.575 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 0.725 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 0.875 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 1.025 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 6.98/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.73/6 DoF


Bin ∈ [66; 71]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0.4
0.3
0.2
0.1
0
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 1.175 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 1.375 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 1.75 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 2.5 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 4 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9375 P_μ = 17.5 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 5.21/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.52/5 DoF


Bin ∈ [72; 77]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
1
0.5
0
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 0.275 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 0.425 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 0.575 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 0.725 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 0.875 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 1.025 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.98/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 1.17/6 DoF


Bin ∈ [78; 83]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0.3
0.2
0.1
0
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 1.175 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 1.375 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 1.75 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 2.5 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 4 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9625 P_μ = 17.5 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.15/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.66/6 DoF


Bin ∈ [84; 89]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0
0.2
0.4
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 0.275 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 0.425 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 0.575 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 0.725 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 0.875 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 1.025 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.3/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.15/6 DoF


Bin ∈ [90; 95]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0
0.1
0.2
0.3
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 1.175 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 1.375 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 1.75 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 2.5 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 4 GeV
$\mathrm{Cos}\theta_\mu$ = 0.9875 P_μ = 17.5 GeV
t2k_nd280_numucc0pi_2015_rps
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 1.34/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 1.1/6 DoF

Dataset:

t2k_nd280_numucc0pi_2015

Models:

master/G18_02a_00_000 χ^2 = 150 / 67 DoF

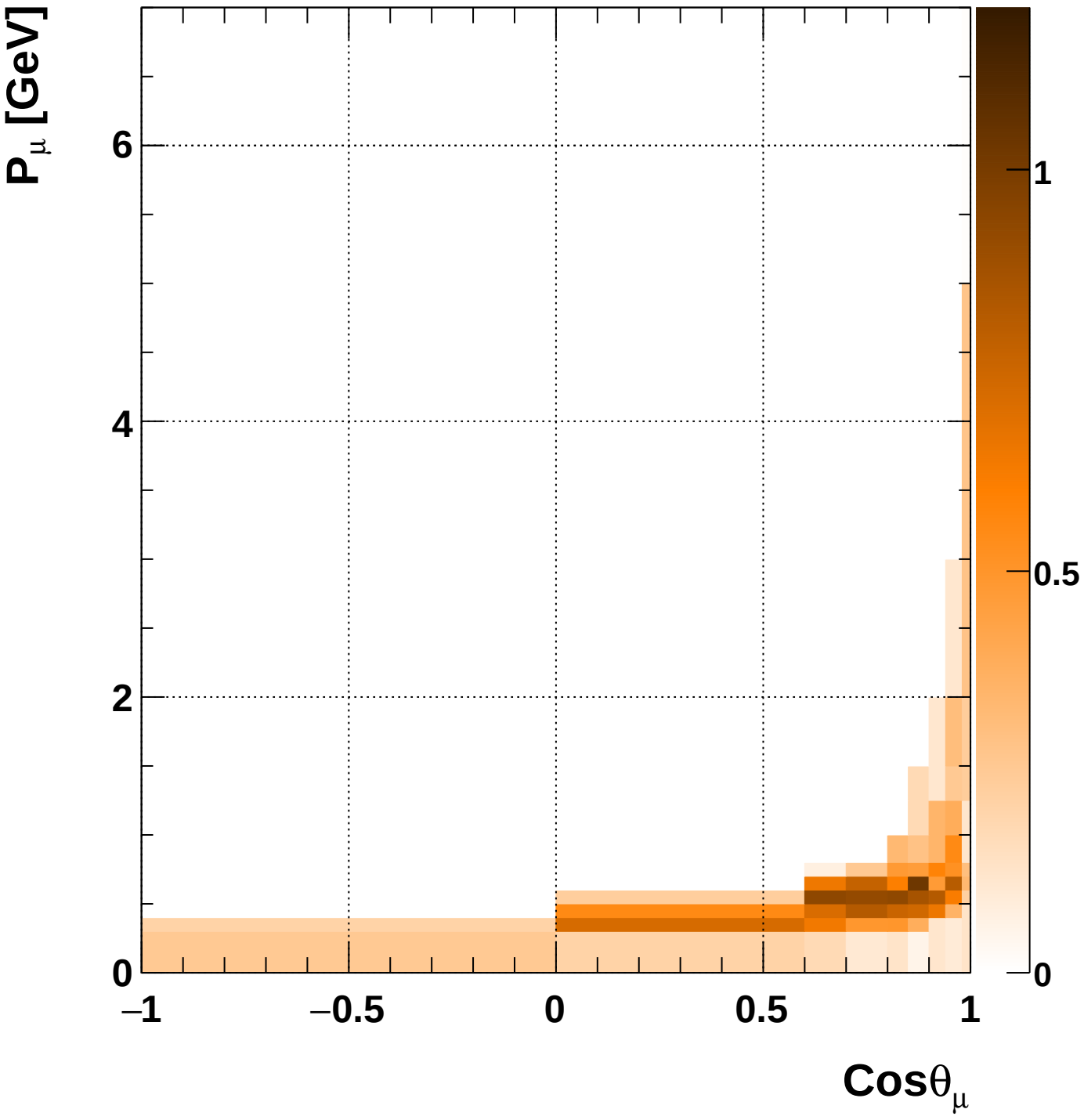
RESFix/G18_02a_00_000 χ^2 = 130 / 67 DoF

Plot:

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

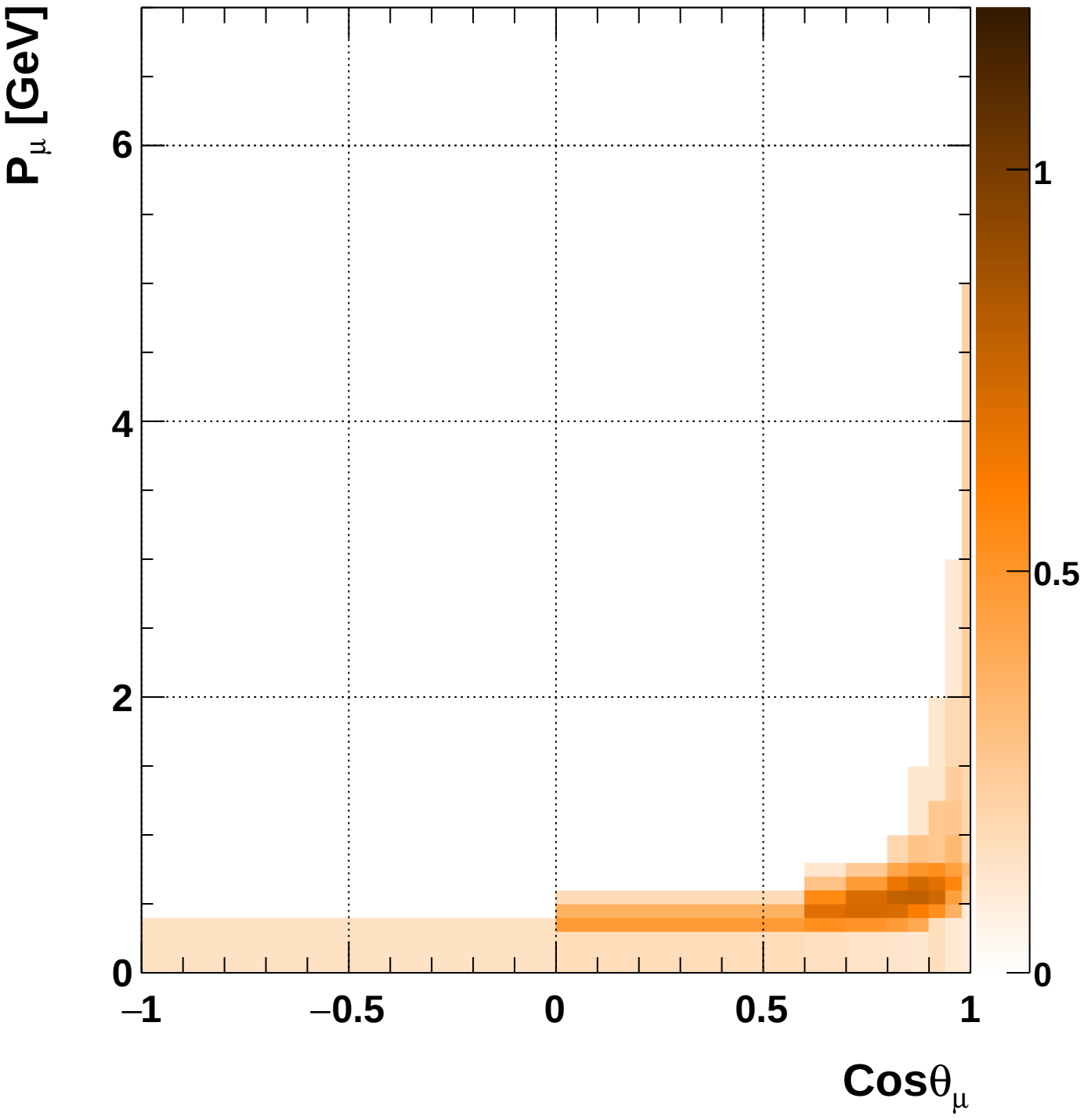
67 DoF, χ^2 = 150 130

2019/11/05 13:39:11



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

Data: t2k_nd280_numucc0pi_2015



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

Pred: master:G18_02a_00_000:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015

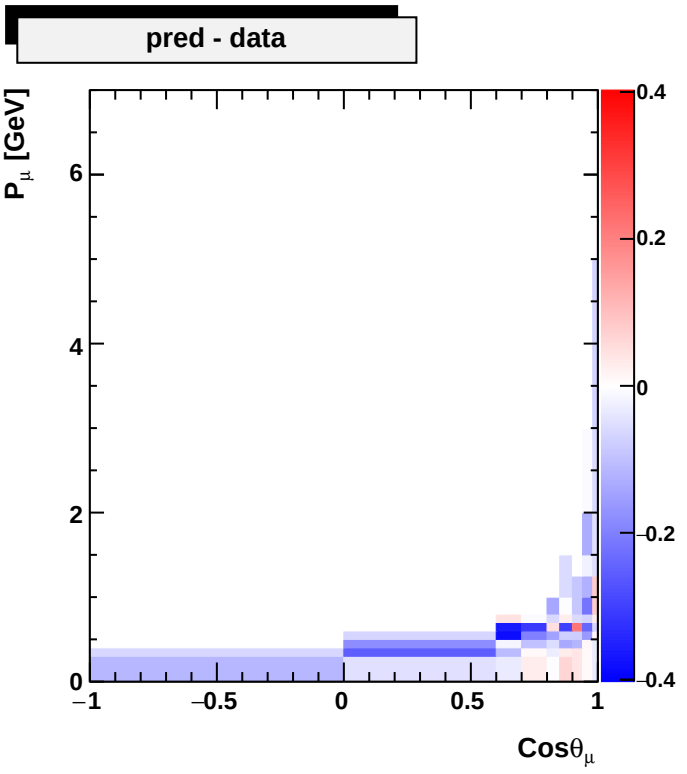
VS

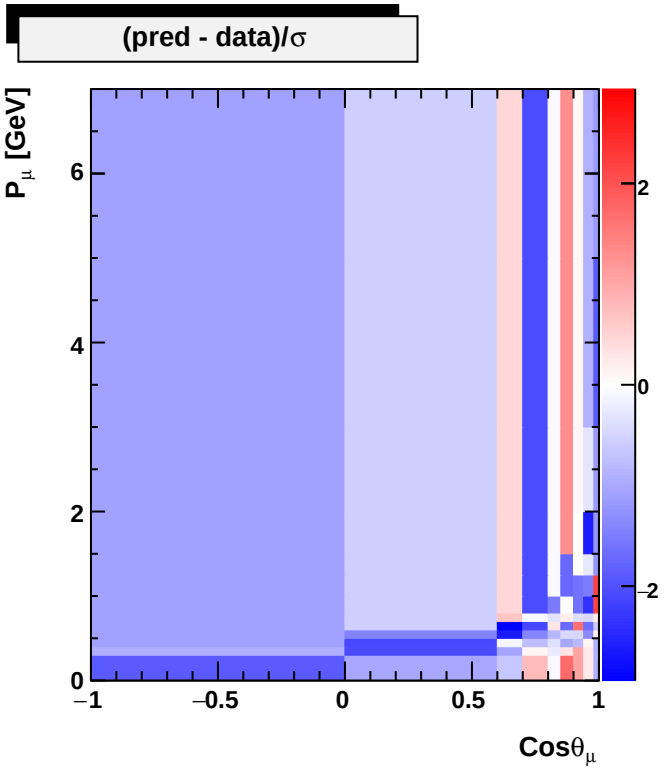
master:G18_02a_00_000:t2k_nd280_numu_fhc

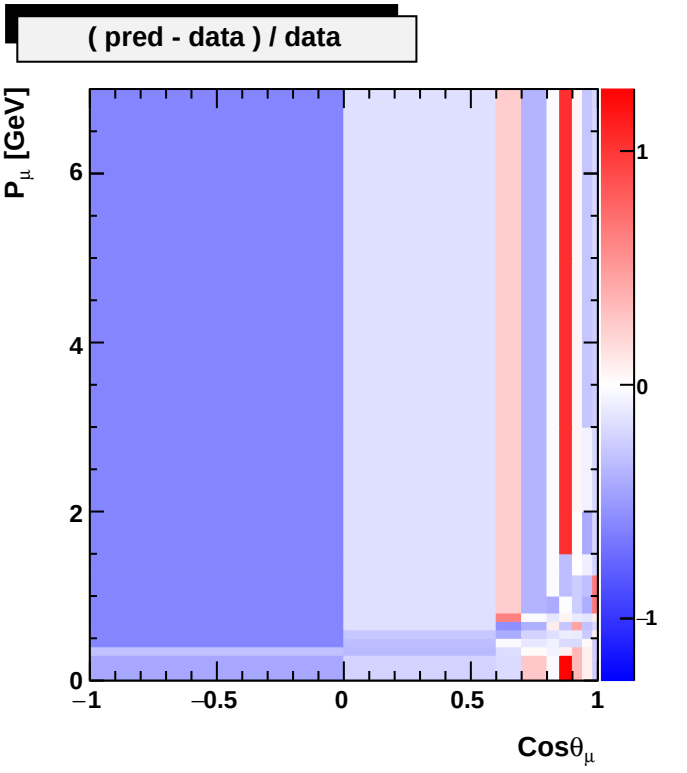
$\partial^2\sigma/\partial \text{Cos}\theta_\mu/\partial P_\mu$

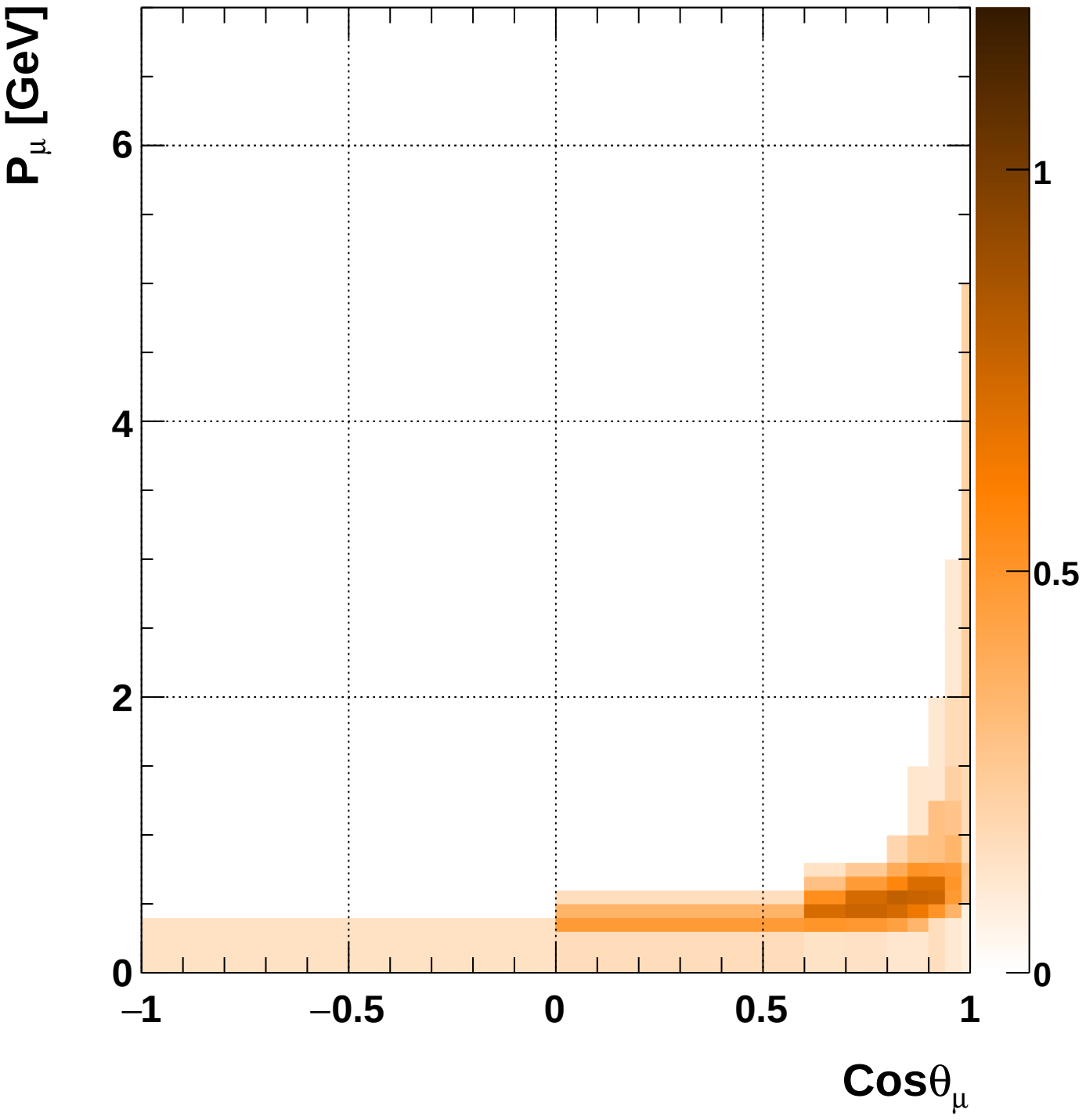
[10^{-38} cm^2/GeV/n]

χ^2 = 149.663/67 DoF









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

Pred: RESFix:G18_02a_00_000:t2k_nd280_numu_fhc

t2k_nd280_numucc0pi_2015

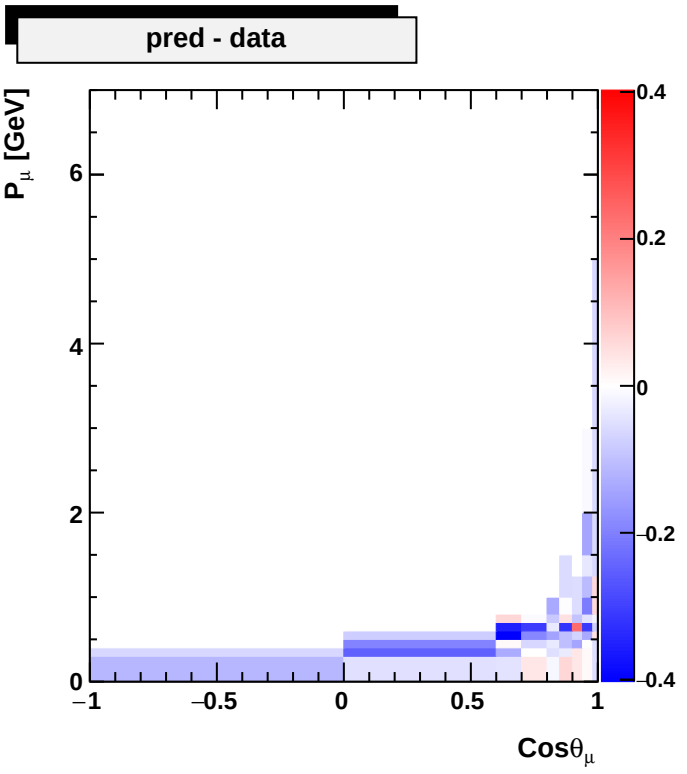
VS

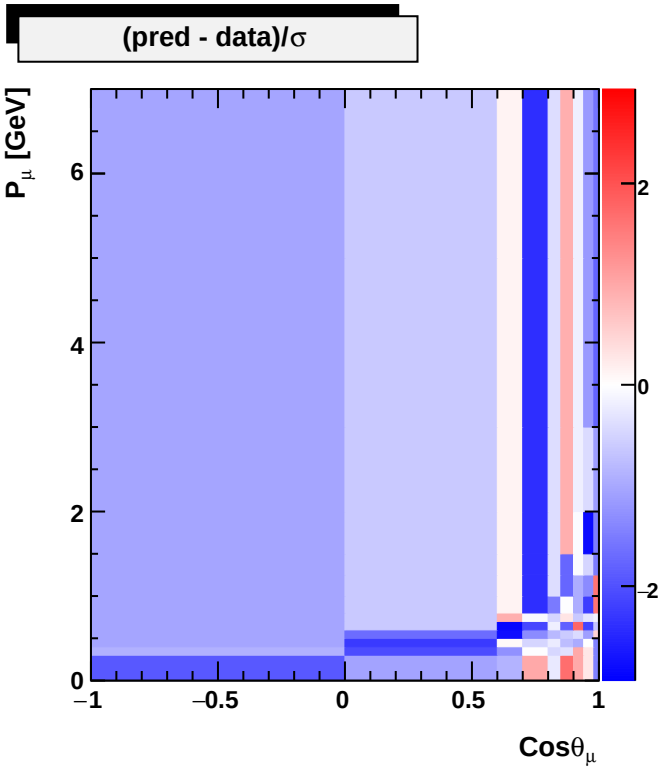
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc

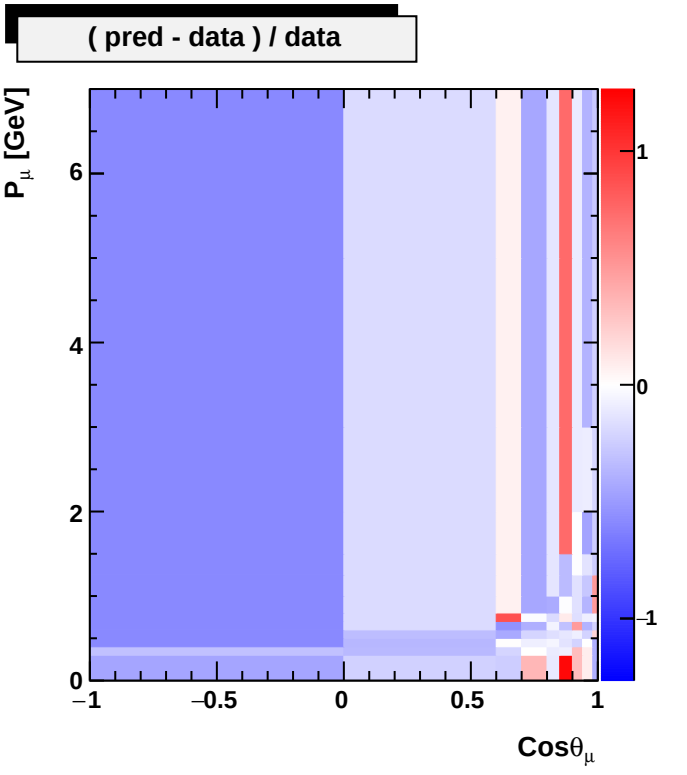
$\partial^2\sigma/\partial \text{Cos}\theta_\mu/\partial P_\mu$

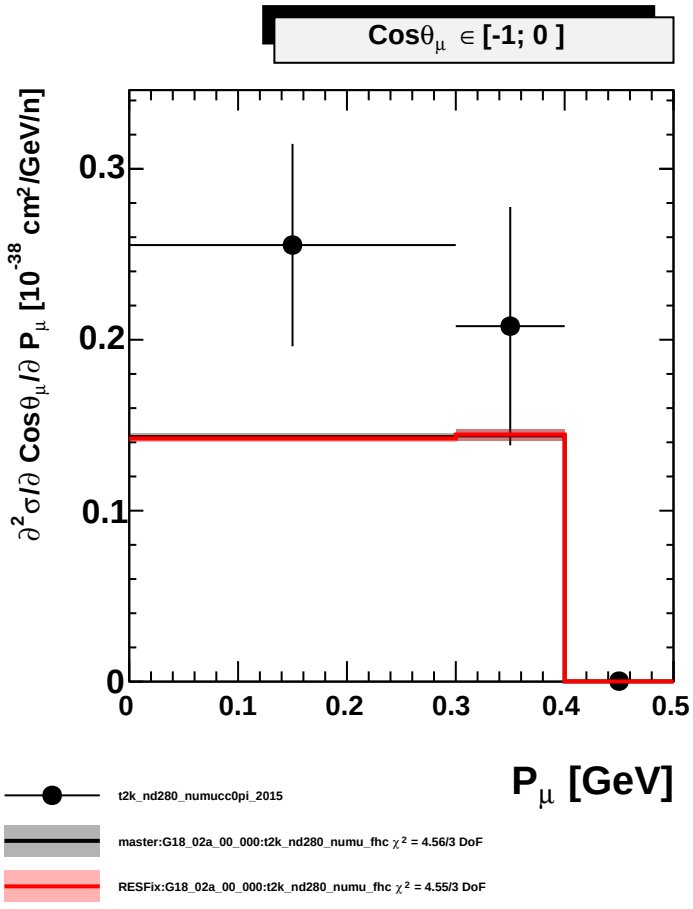
[10^{-38} cm^2/GeV/n]

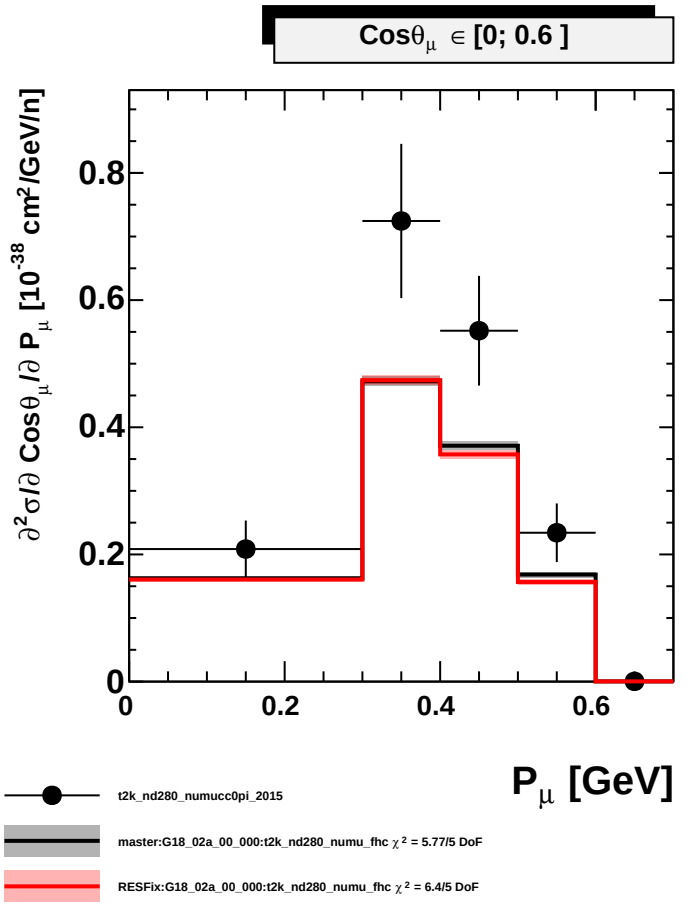
χ^2 = 129.856/67 DoF

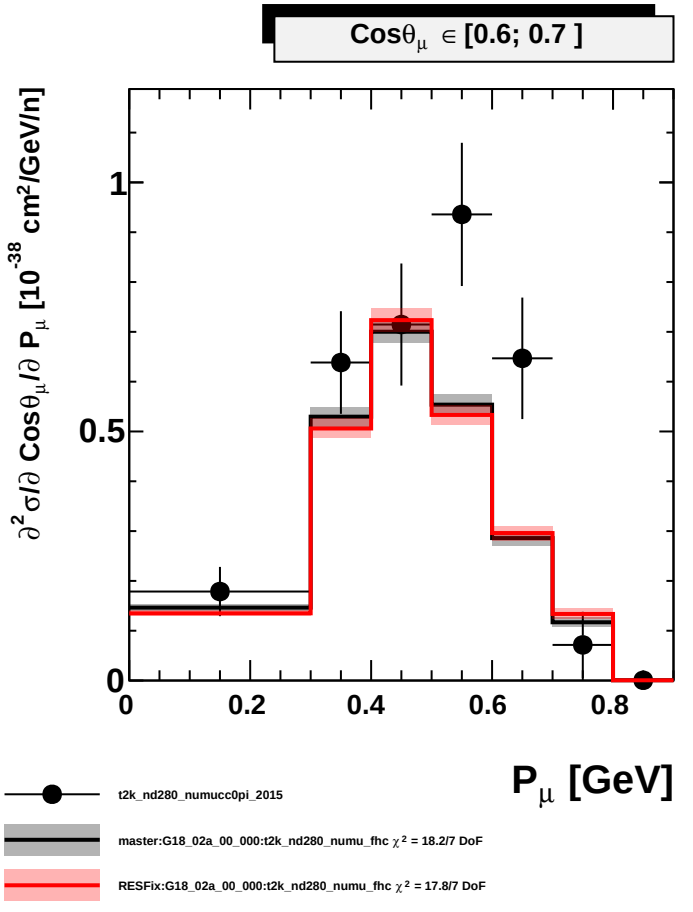


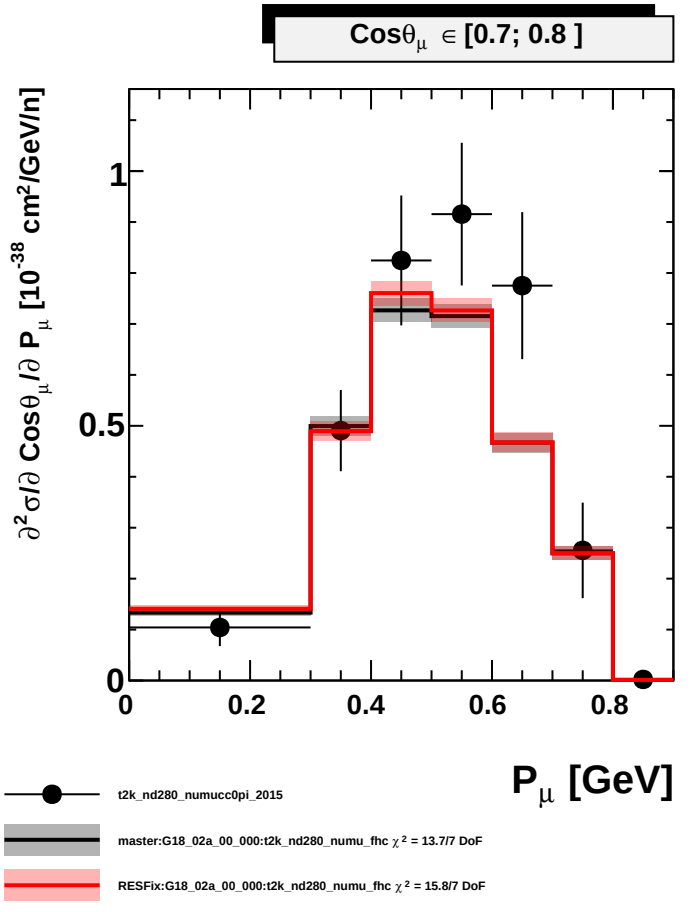


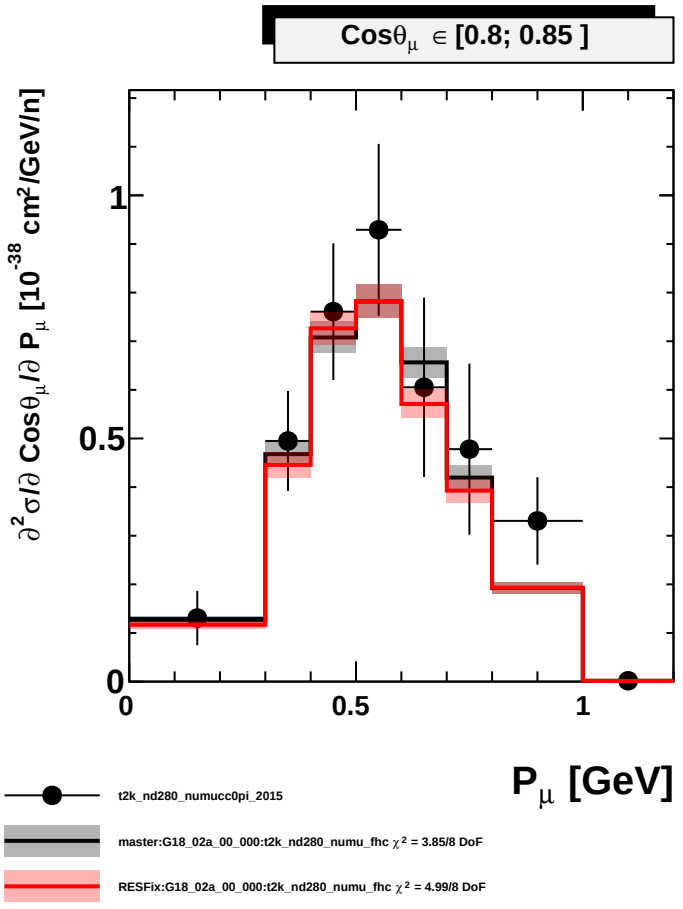


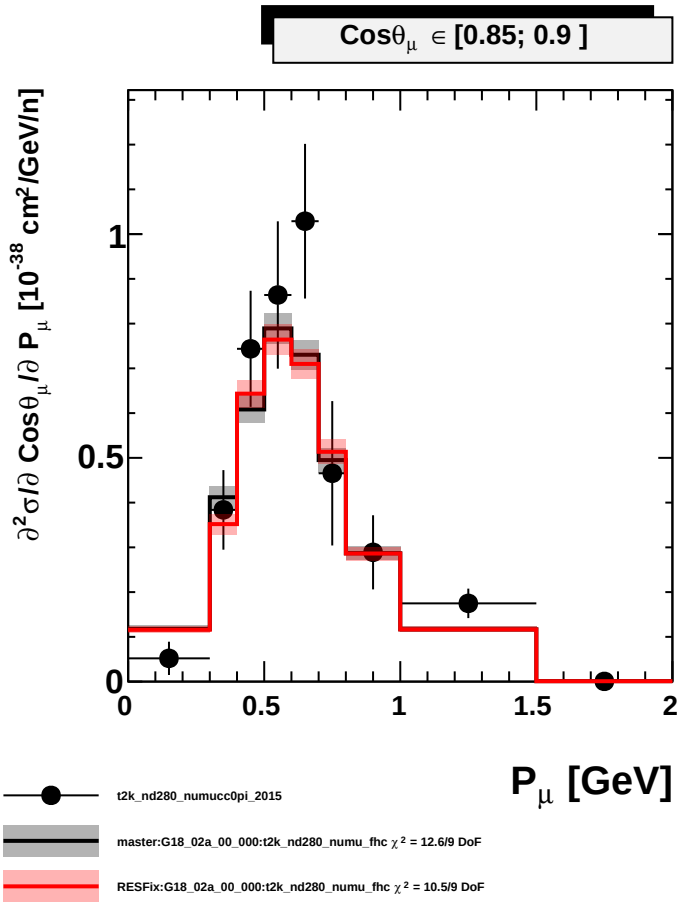

Cosθμ ∈ [-1; 0]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 4.56/3 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 4.55/3 DoF

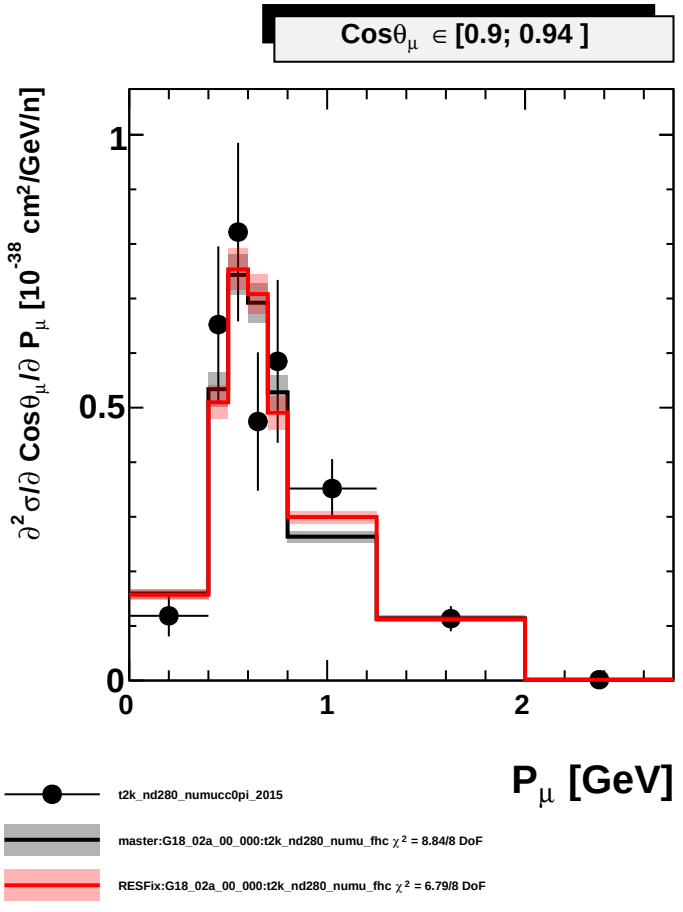

Cosθμ ∈ [0; 0.6]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 5.77/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 6.4/5 DoF

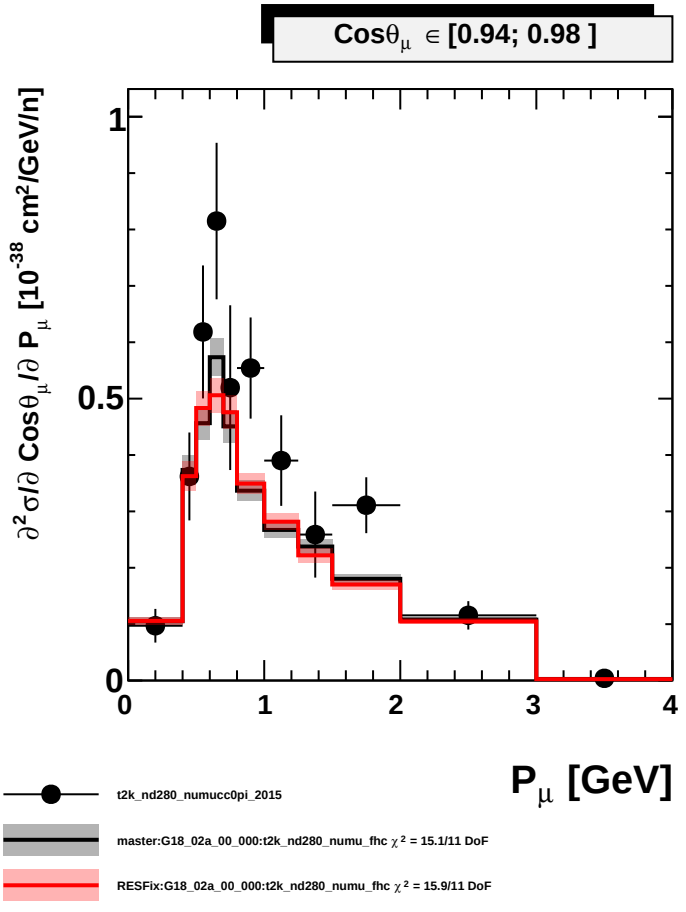

Cosθμ ∈ [0.6; 0.7]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 18.2/7 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 17.8/7 DoF

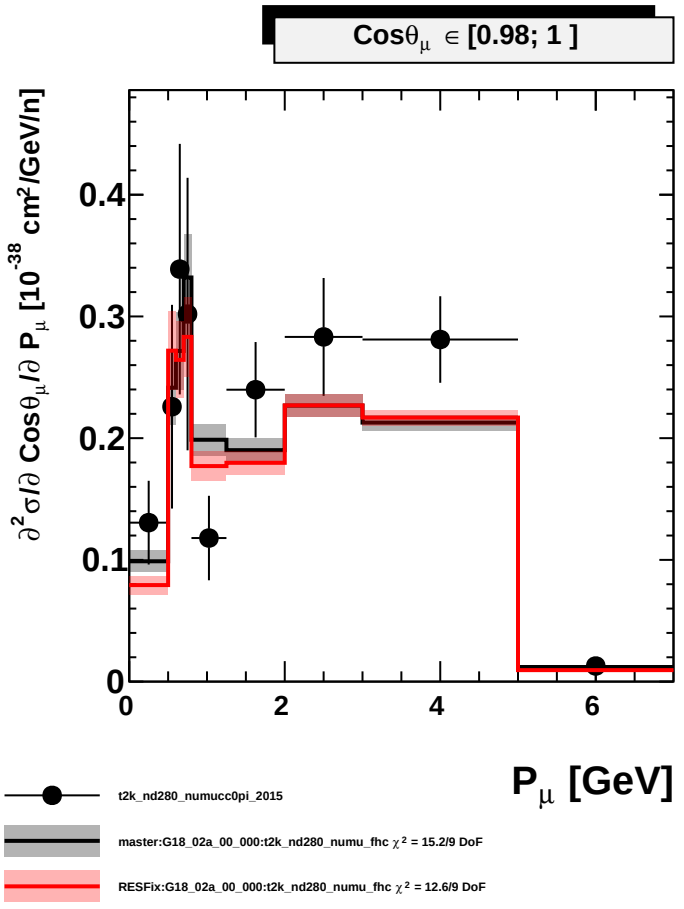

Cosθμ ∈ [0.7; 0.8]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 13.7/7 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 15.8/7 DoF

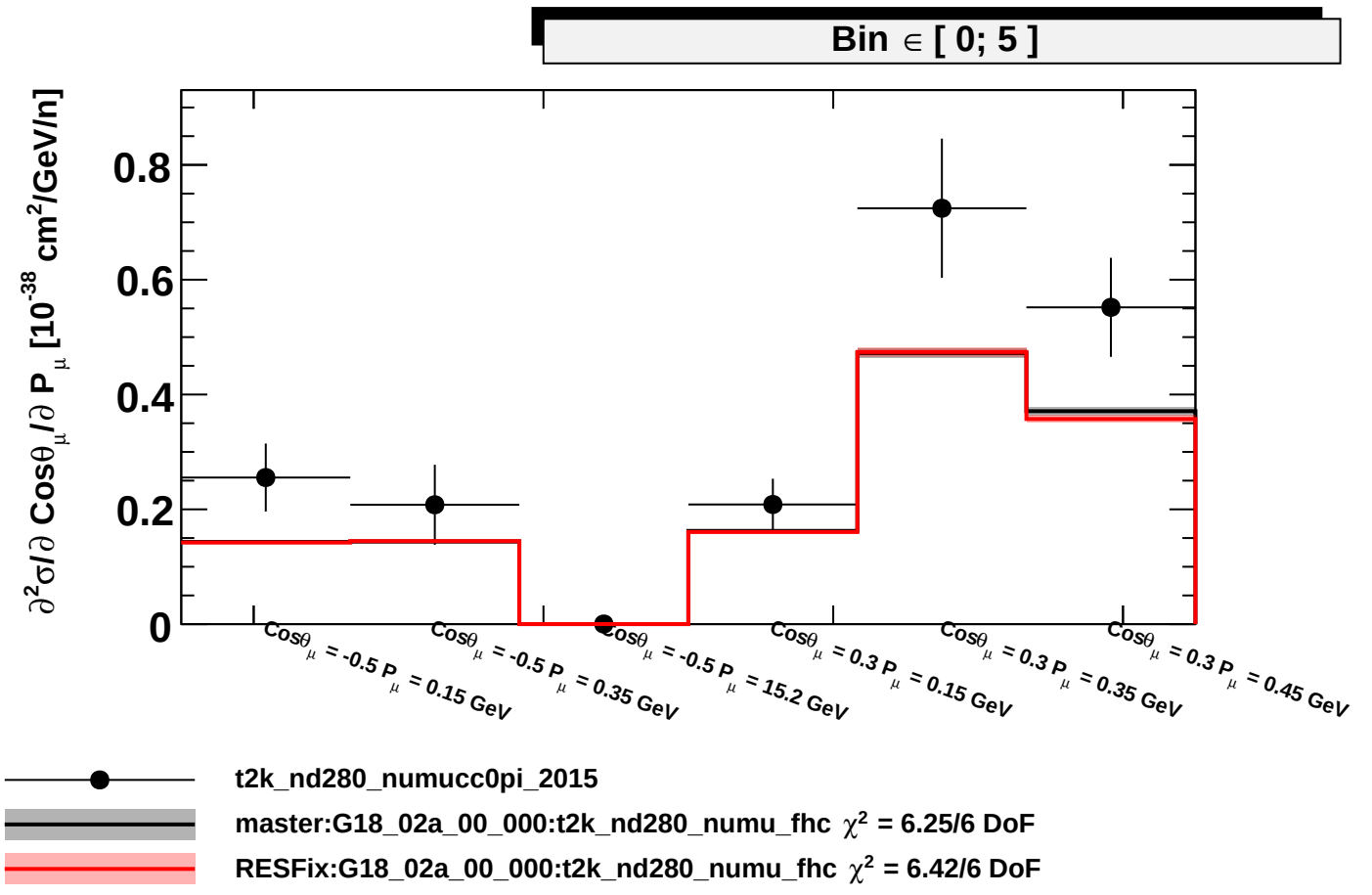

Cosθμ ∈ [0.8; 0.85]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 3.85/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 4.99/8 DoF

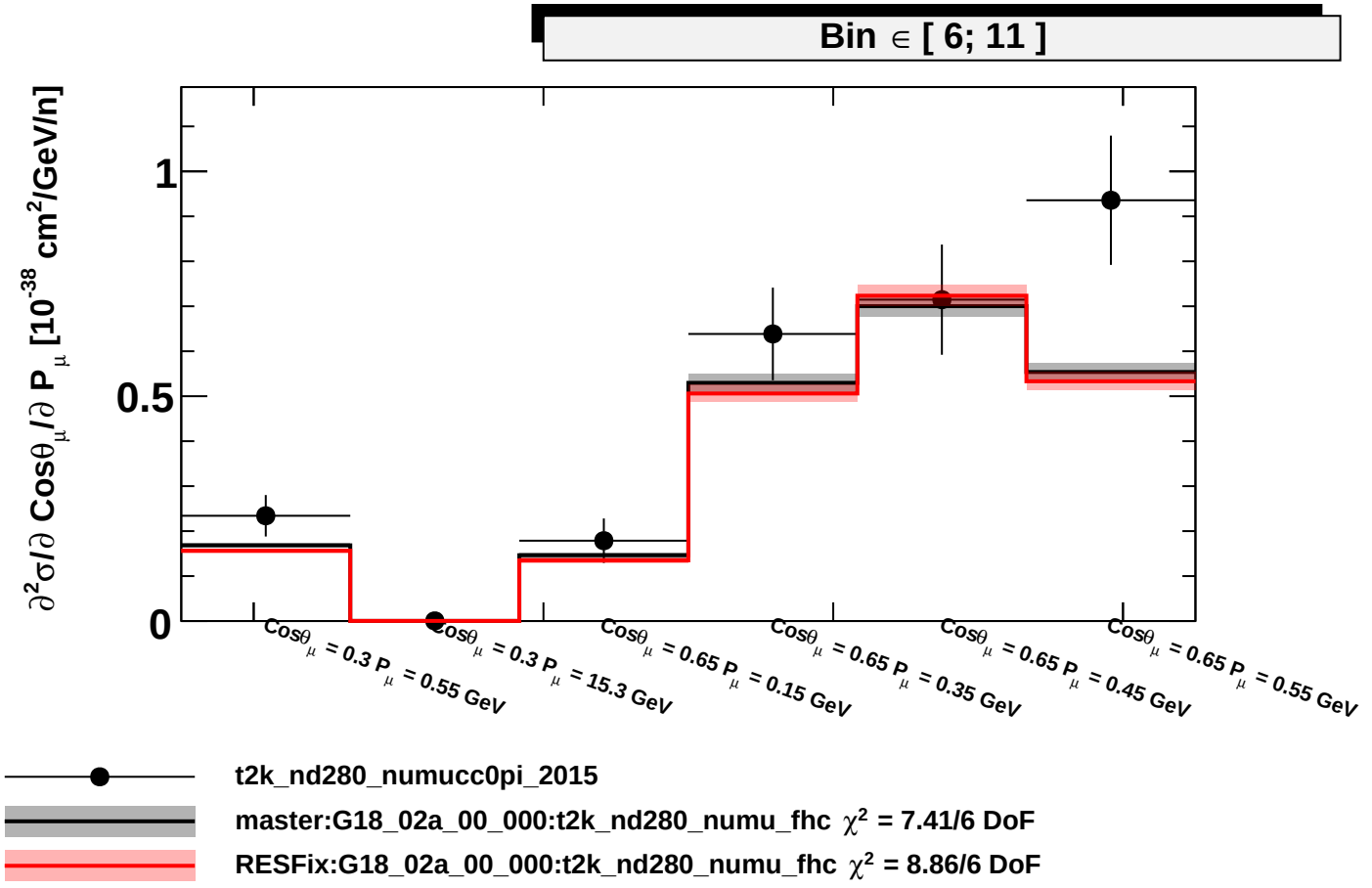

Cosθμ ∈ [0.85; 0.9]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 12.6/9 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 10.5/9 DoF

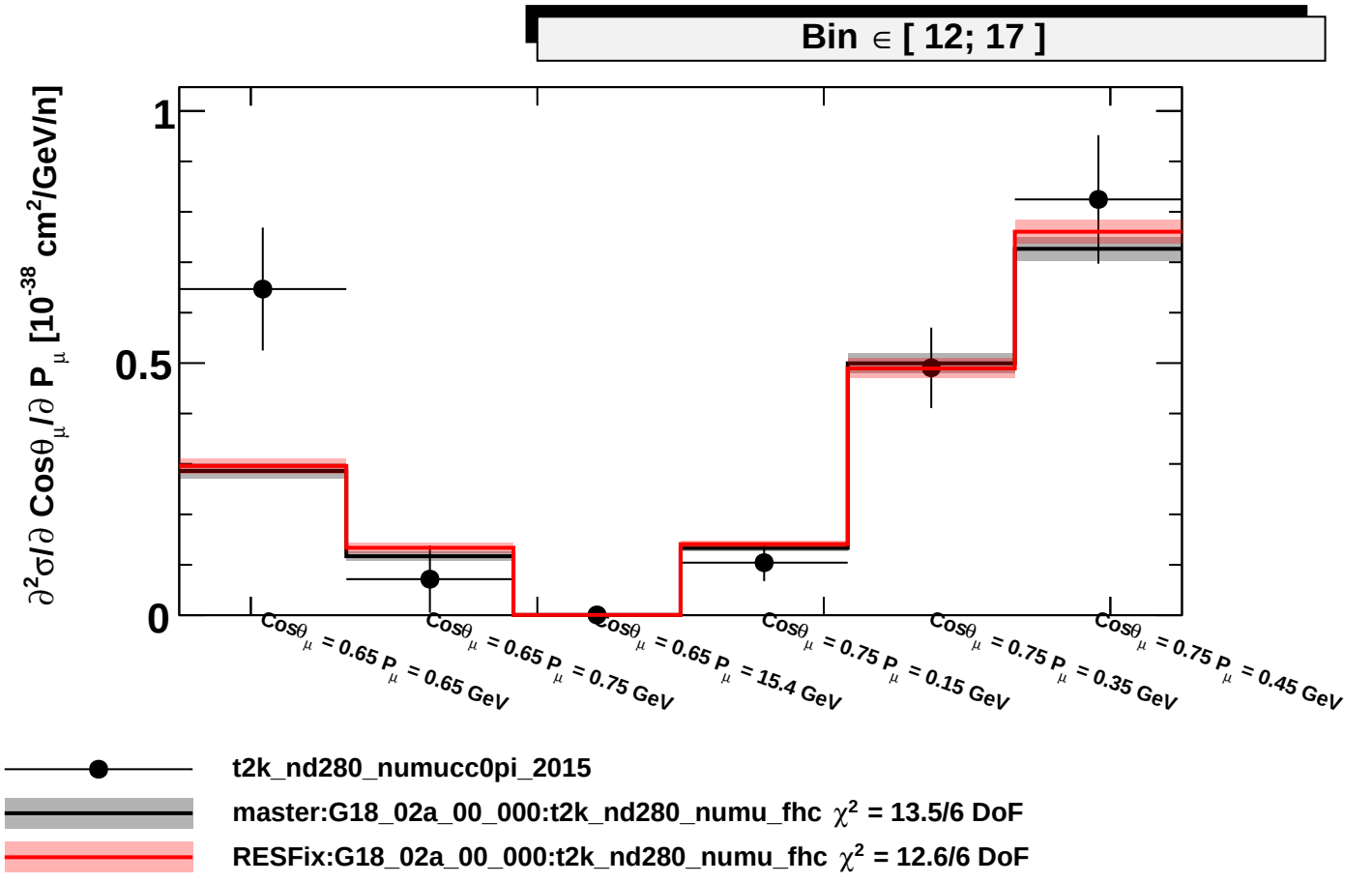

Cosθμ ∈ [0.9; 0.94]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 8.84/8 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 6.79/8 DoF


Cosθμ ∈ [0.94; 0.98]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 15.1/11 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 15.9/11 DoF


Cosθμ ∈ [0.98; 1]
∂²σ/∂ Cosθμ/∂ Pμ [10⁻³⁸ cm²/GeV/n]
0.4
0.3
0.2
0.1
0
0
2
4
6
Pμ [GeV]
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 15.2/9 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 12.6/9 DoF


Bin ∈ [0; 5]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0
0.2
0.4
0.6
0.8
$\mathrm{Cos}\theta_\mu$ = -0.5 P_μ = 0.15 GeV
$\mathrm{Cos}\theta_\mu$ = -0.5 P_μ = 0.35 GeV
$\mathrm{Cos}\theta_\mu$ = -0.5 P_μ = 15.2 GeV
$\mathrm{Cos}\theta_\mu$ = 0.3 P_μ = 0.15 GeV
$\mathrm{Cos}\theta_\mu$ = 0.3 P_μ = 0.35 GeV
$\mathrm{Cos}\theta_\mu$ = 0.3 P_μ = 0.45 GeV
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 6.25/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 6.42/6 DoF

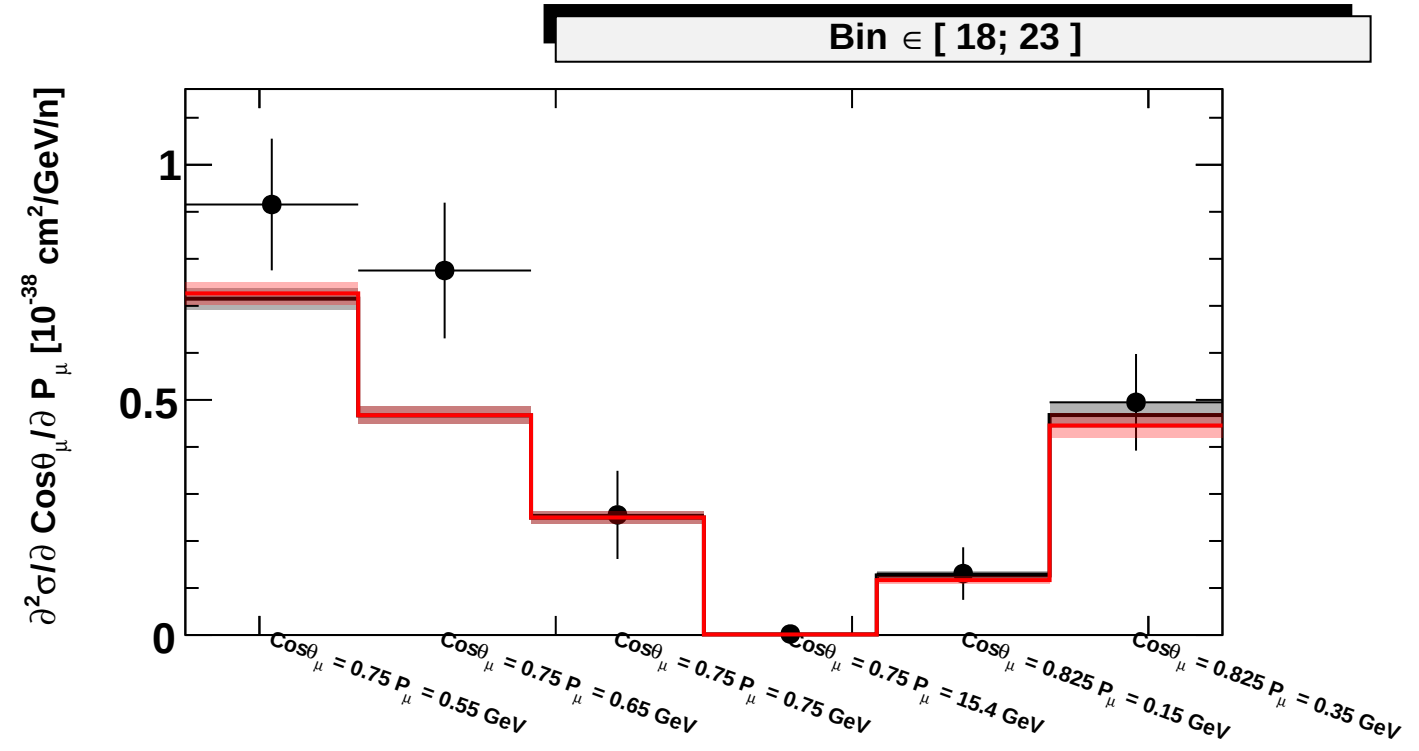

Bin ∈ [6; 11]
$\partial^2\sigma/\partial\ \mathrm{Cos}\theta_\mu/\partial\ P_\mu$ [10^{-38} cm^2/GeV/n]
0
0.5
1
$\mathrm{Cos}\theta_\mu$ = 0.3 P_μ = 0.55 GeV
$\mathrm{Cos}\theta_\mu$ = 0.3 P_μ = 15.3 GeV
$\mathrm{Cos}\theta_\mu$ = 0.65 P_μ = 0.15 GeV
$\mathrm{Cos}\theta_\mu$ = 0.65 P_μ = 0.35 GeV
$\mathrm{Cos}\theta_\mu$ = 0.65 P_μ = 0.45 GeV
$\mathrm{Cos}\theta_\mu$ = 0.65 P_μ = 0.55 GeV
t2k_nd280_numucc0pi_2015
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.41/6 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 8.86/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 13.5/6 DoF

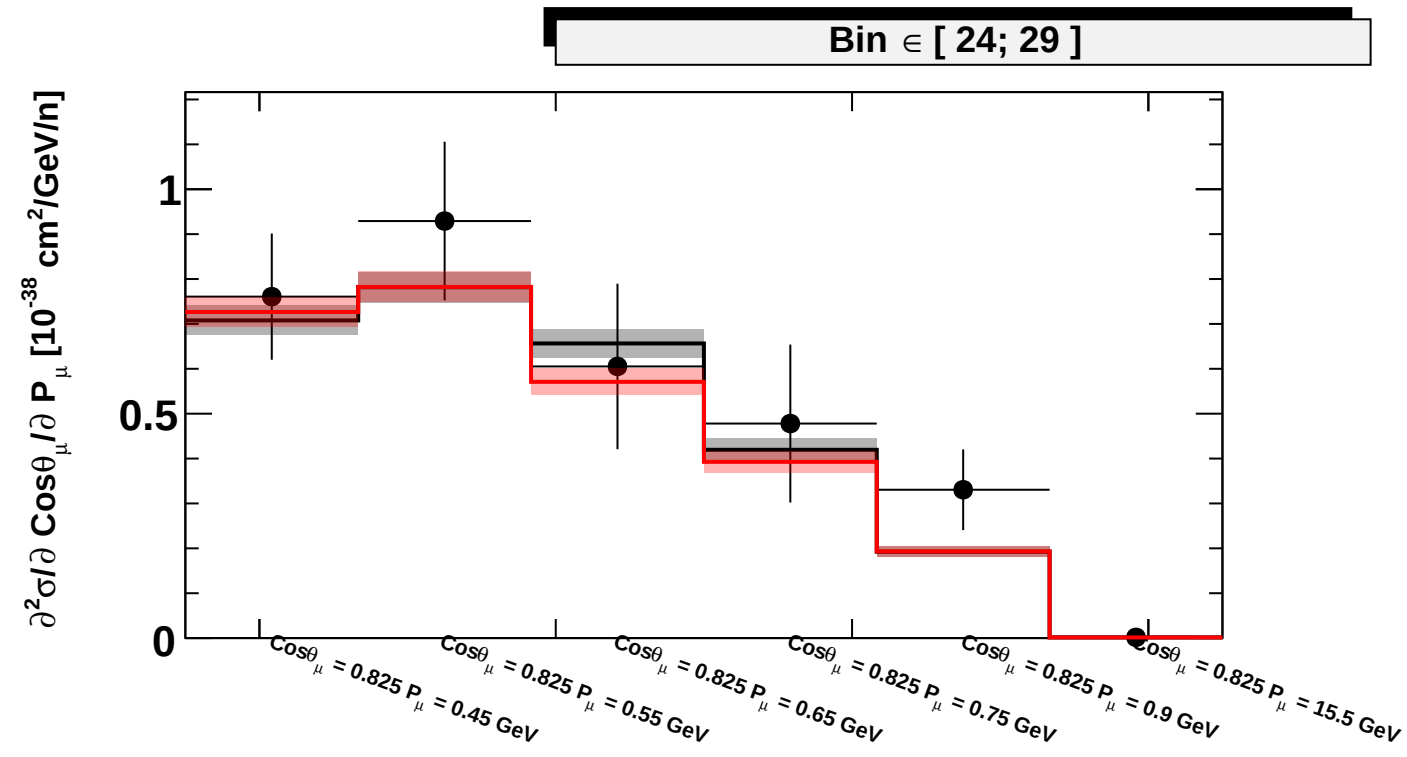
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 12.6/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 9.08/6 DoF

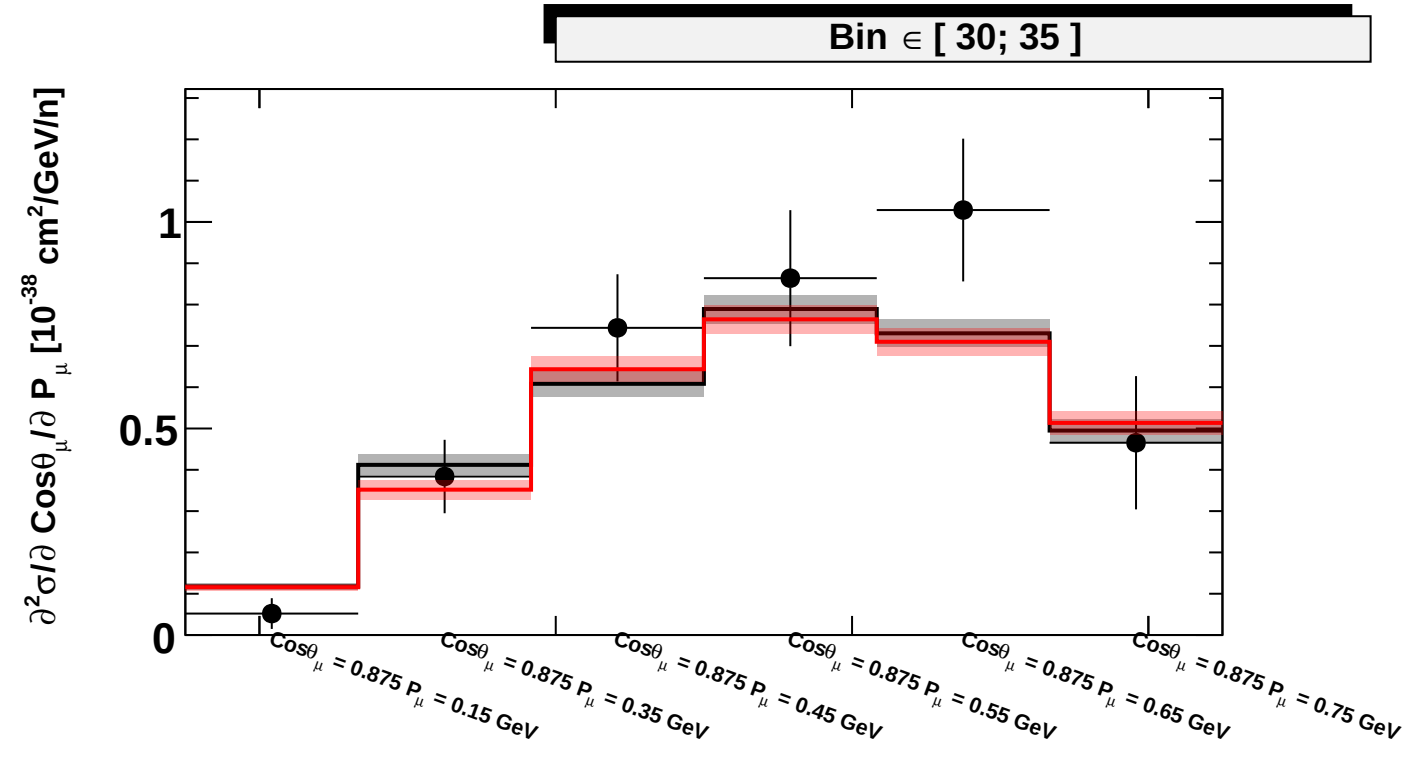
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 9.3/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.68/6 DoF

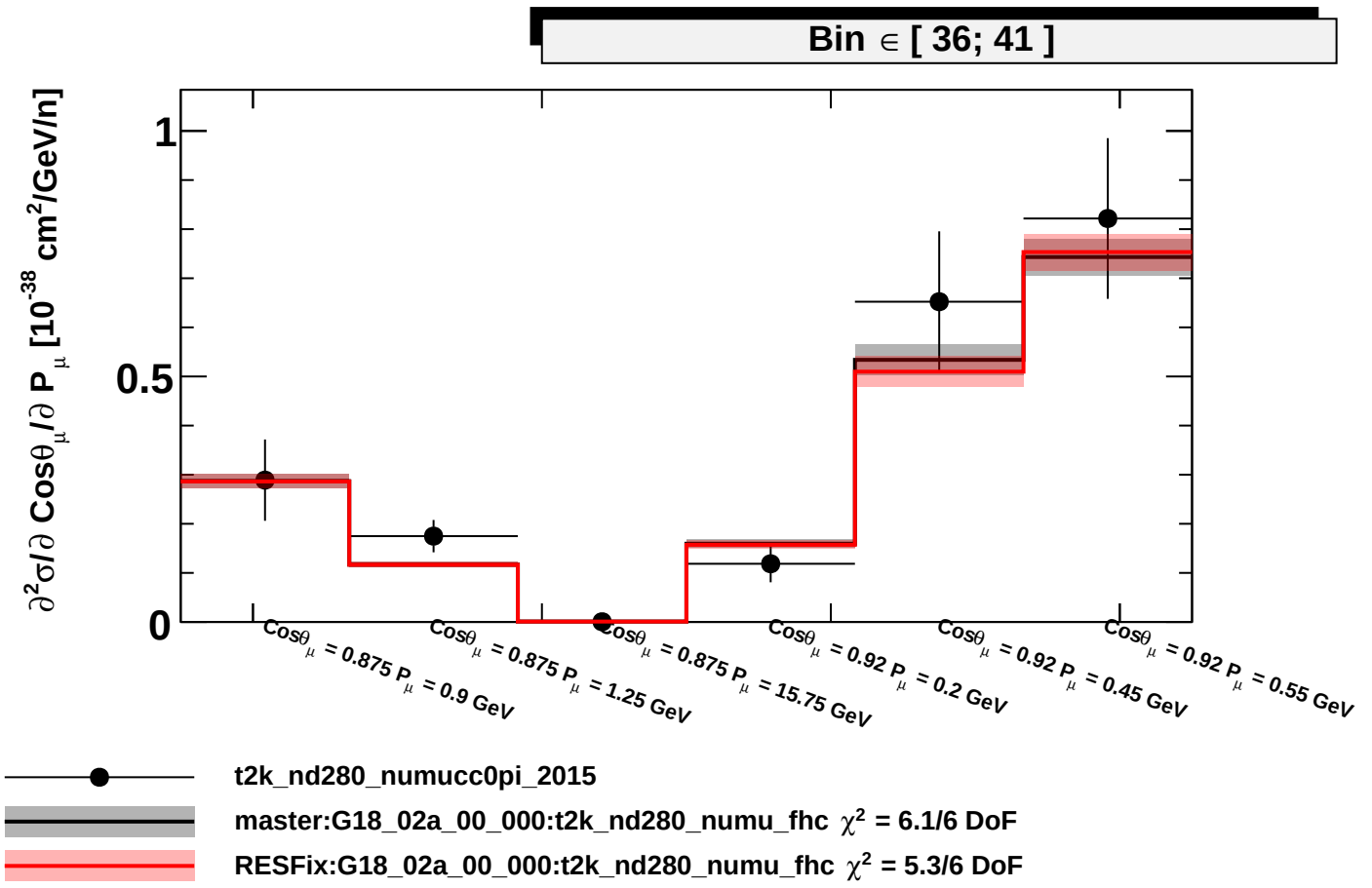
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.81/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 8.32/6 DoF

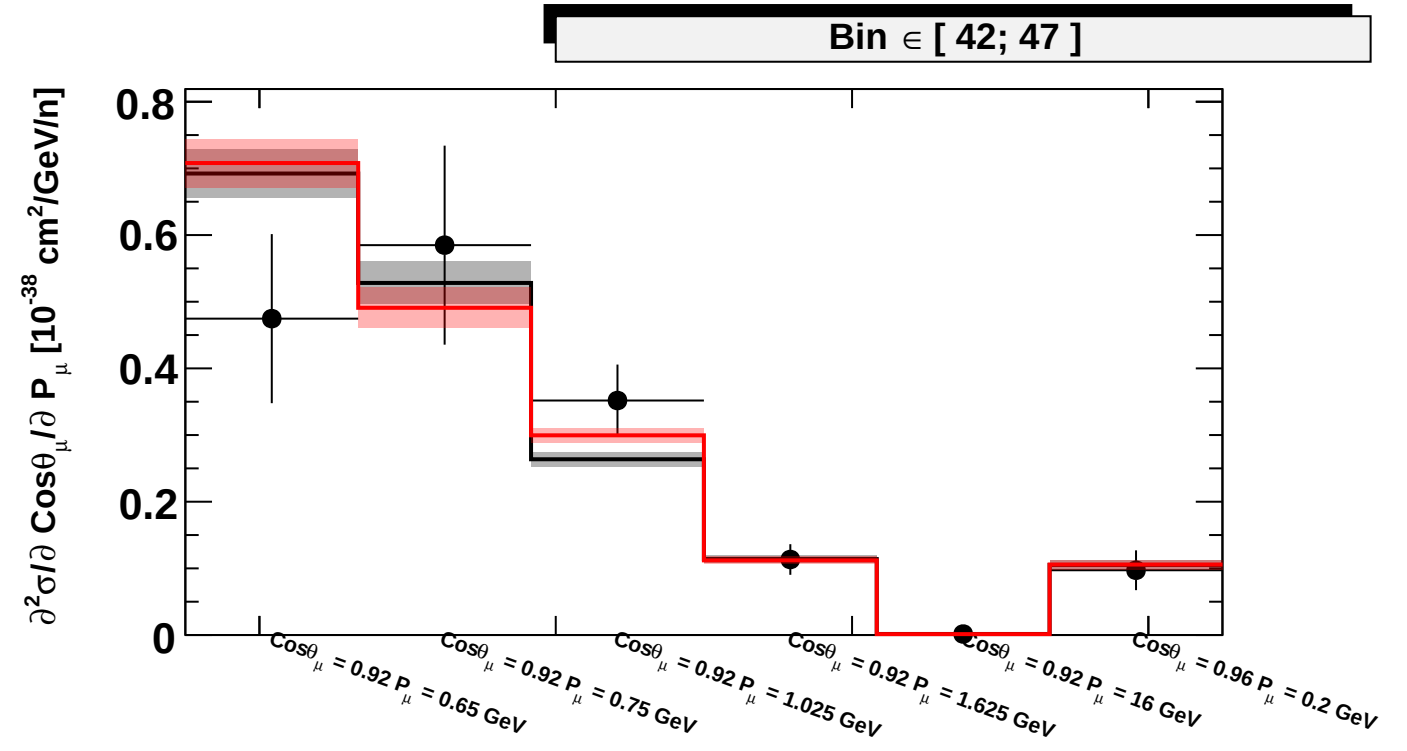
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.57/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 6.1/6 DoF

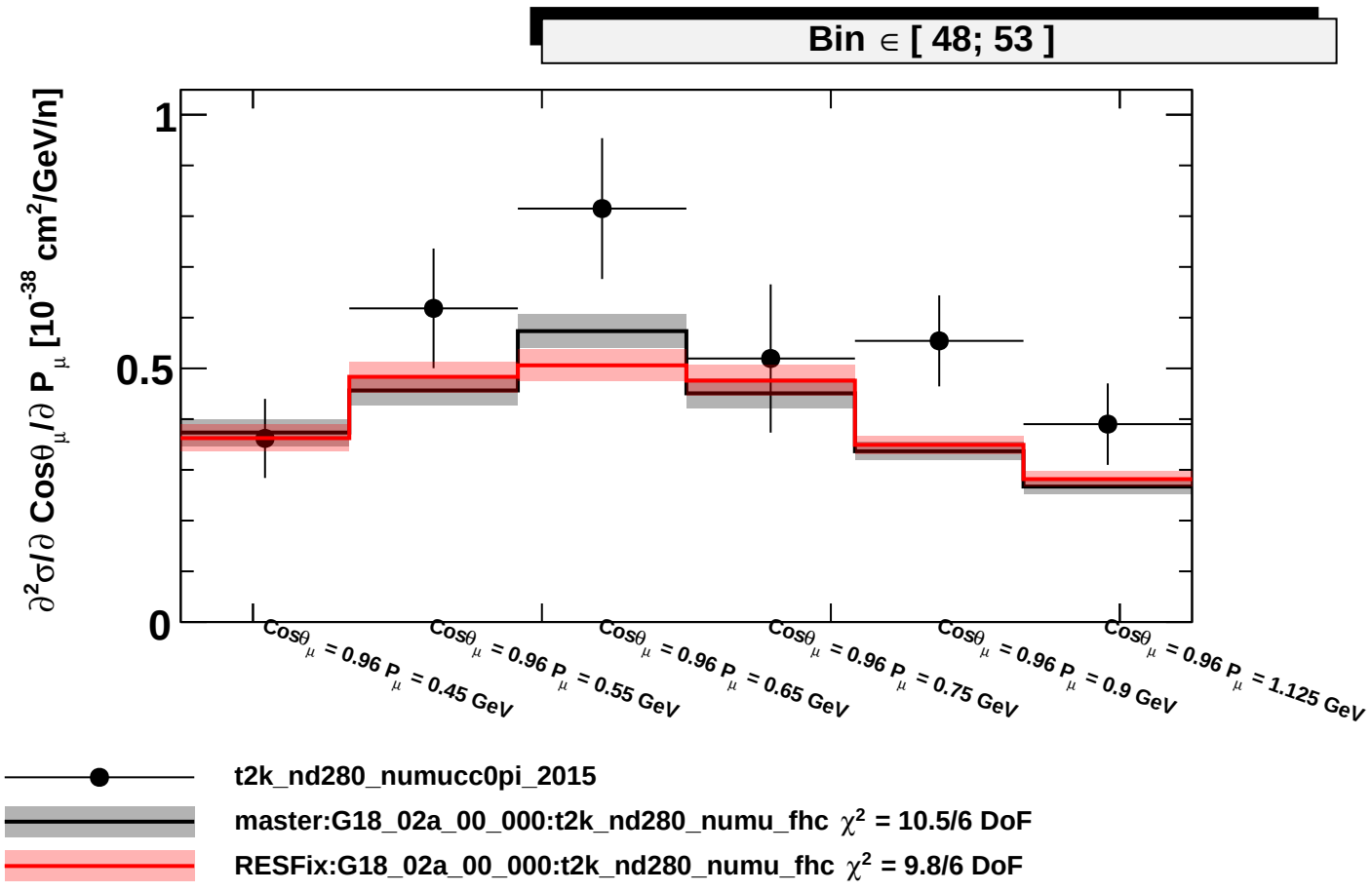
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 5.3/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 7.1/6 DoF

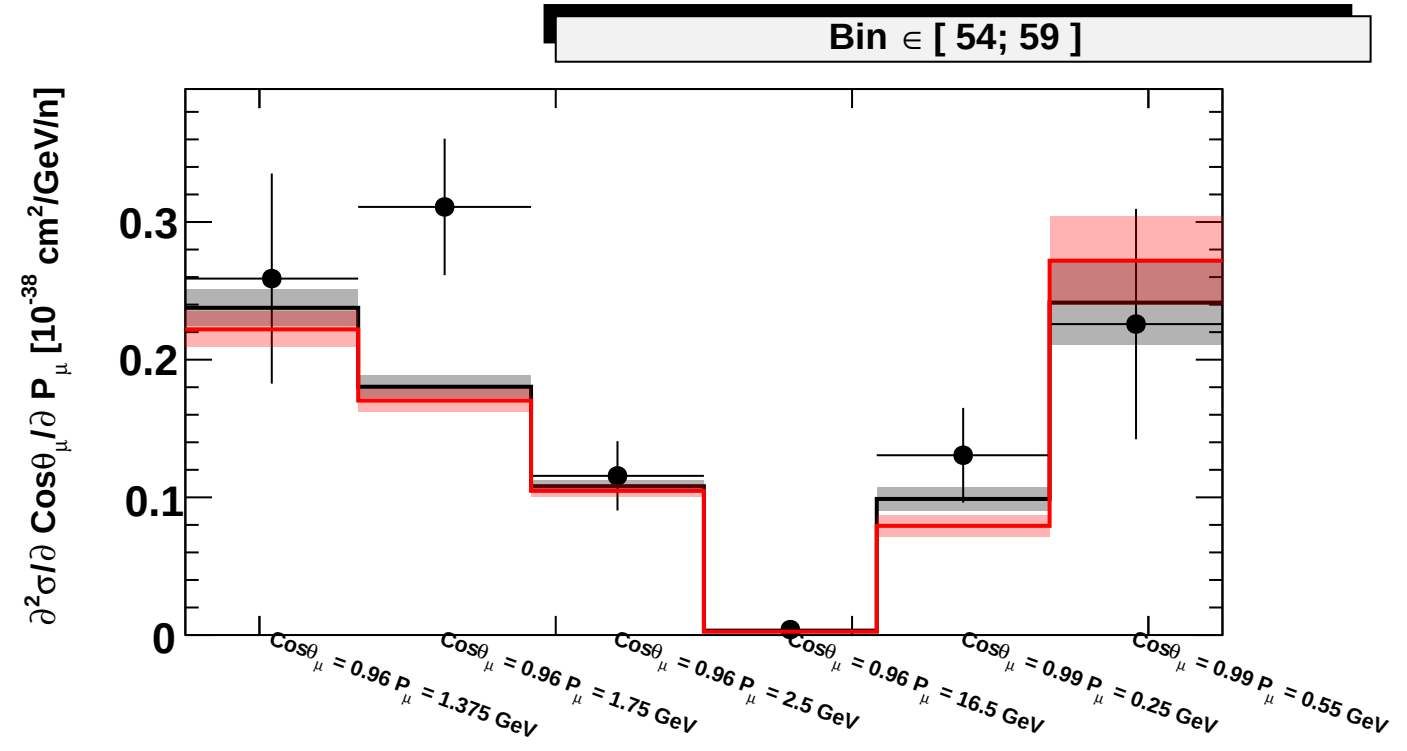
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 5.29/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 10.5/6 DoF

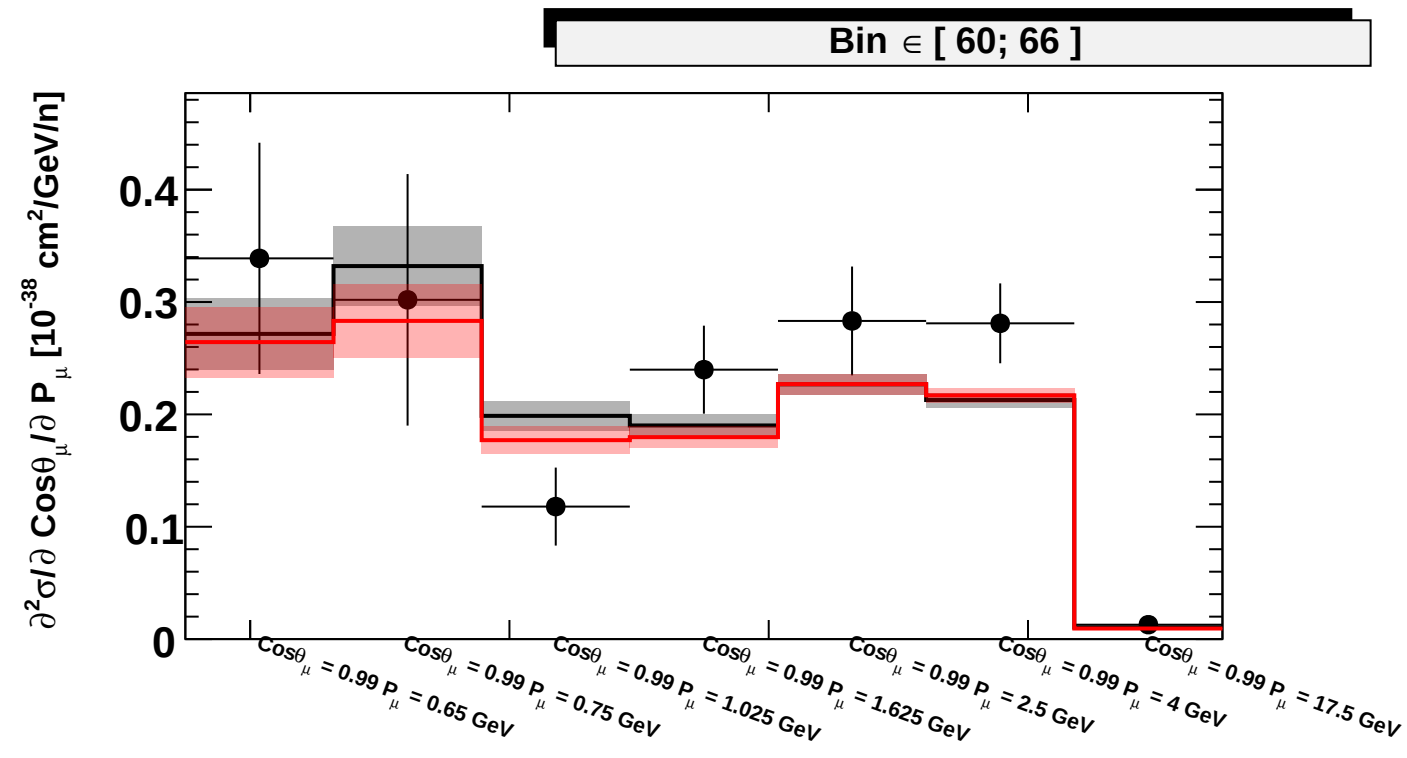
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 9.8/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 8.06/6 DoF

RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 10.5/6 DoF



t2k_nd280_numucc0pi_2015

master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 14.8/7 DoF

RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 10.9/7 DoF

Dataset:

t2k_nd280_numucc_2013

Models:

master/G18_02a_00_000 χ^2 = 25.1 / 20 DoF

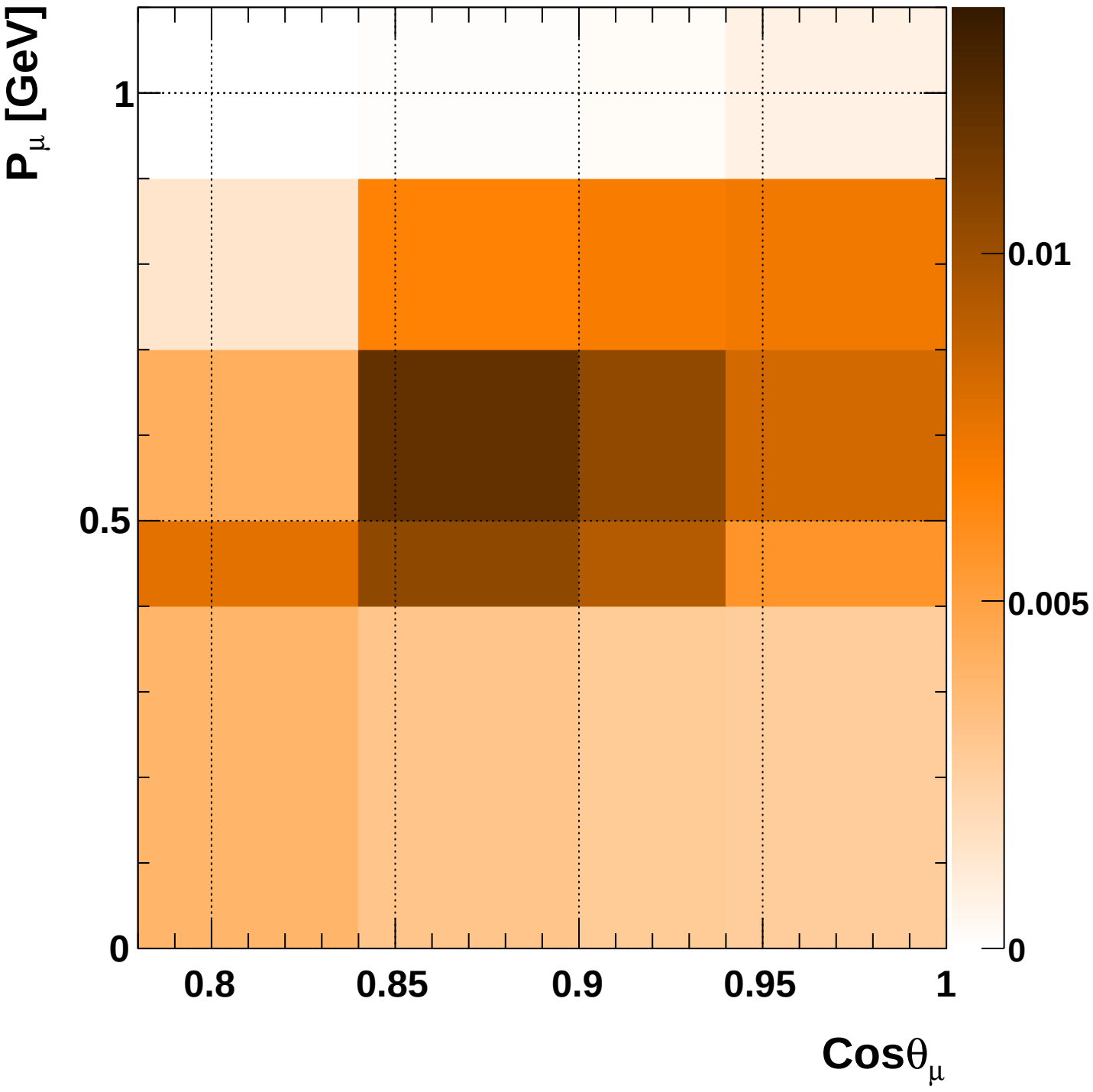
RESFix/G18_02a_00_000 χ^2 = 30.2 / 20 DoF

Plot:

$\partial^2\sigma/\partial$ **Cos**$\theta_\mu\partial$ **P**$_\mu$

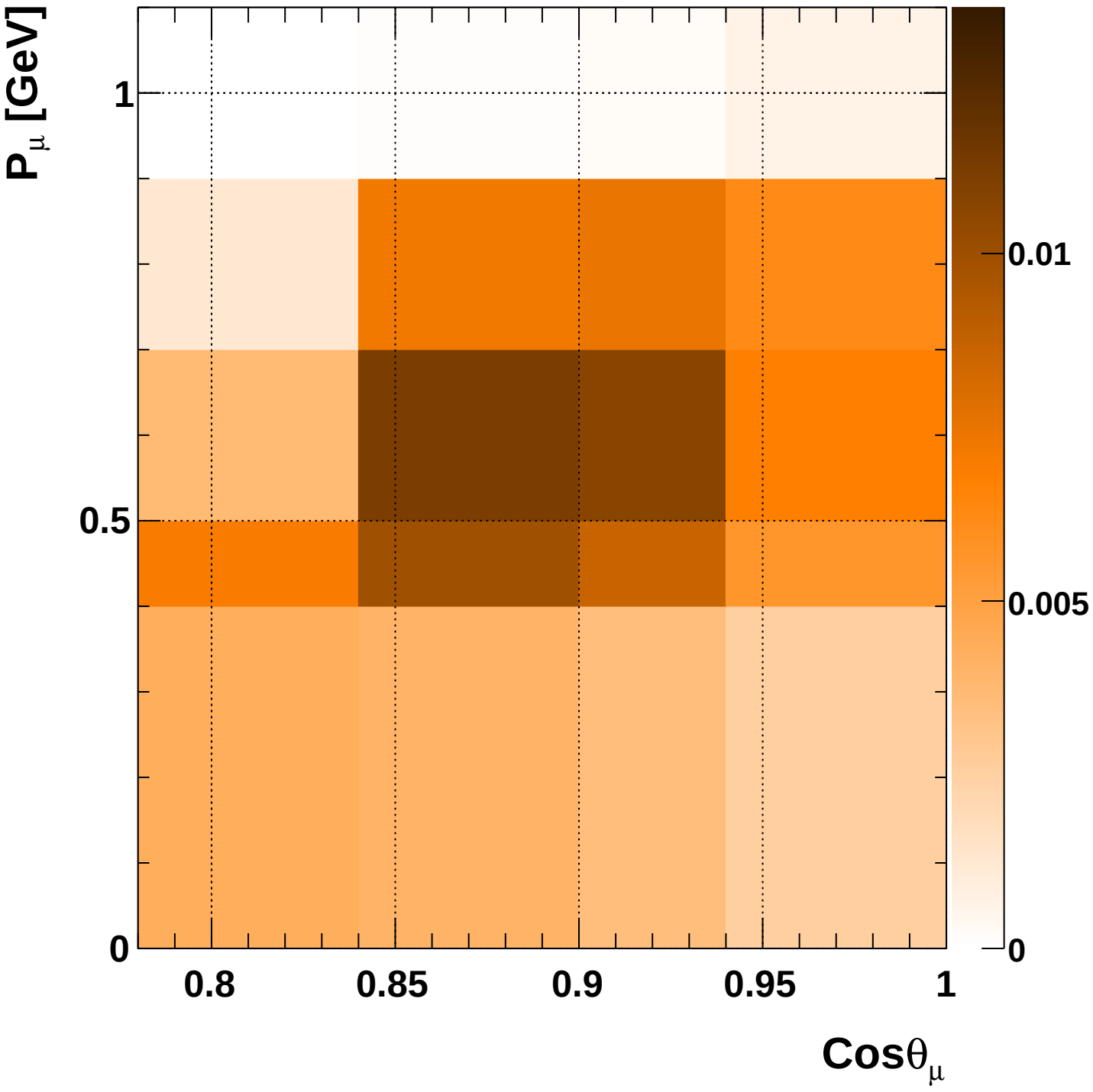
20 DoF, χ^2 = 25.1 30.2

2019/11/05 13:39:12



$\partial^2\sigma/\partial \cos\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]

Data: t2k_nd280_numucc_2013



$\partial^2\sigma/\partial \cos\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]

Pred: master:G18_02a_00_000:t2k_nd280_numu_fhc

t2k_nd280_numucc_2013

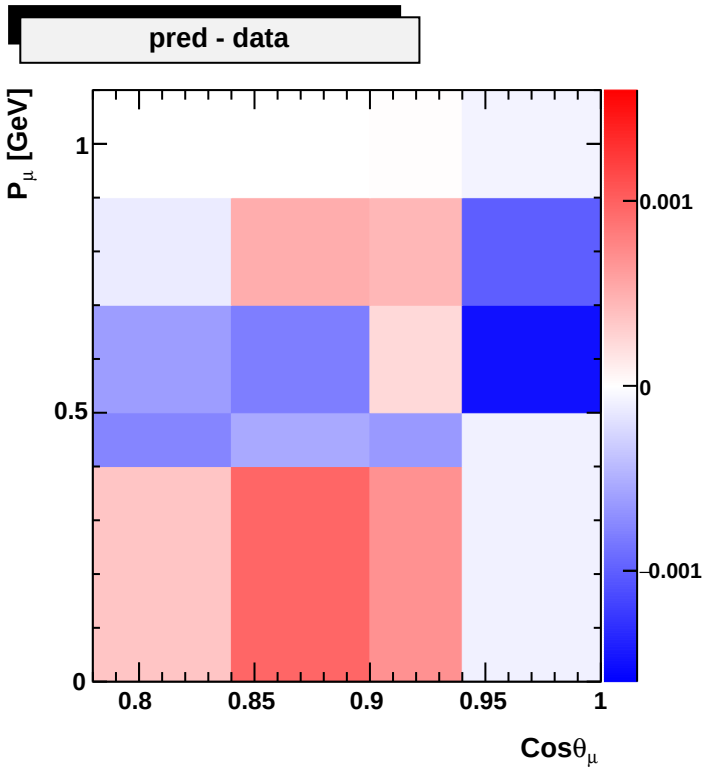
VS

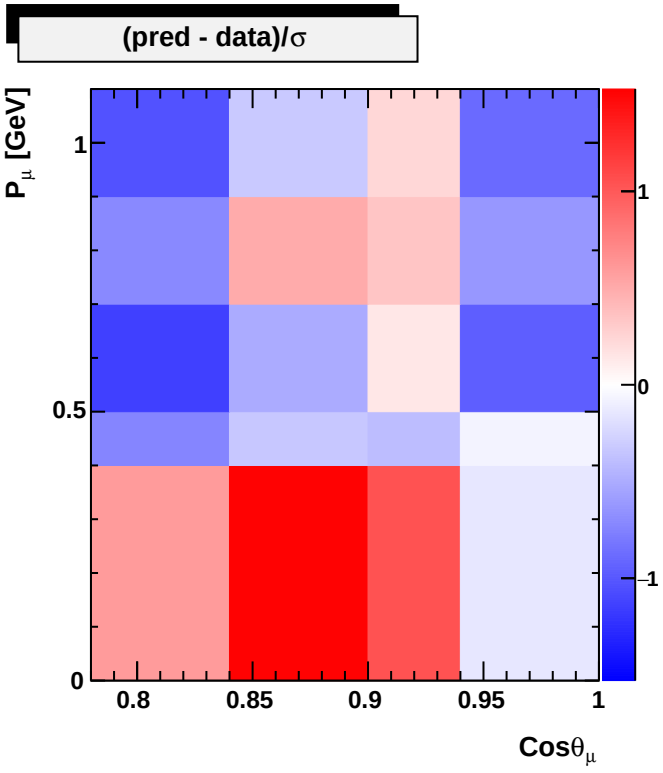
master:G18_02a_00_000:t2k_nd280_numu_fhc

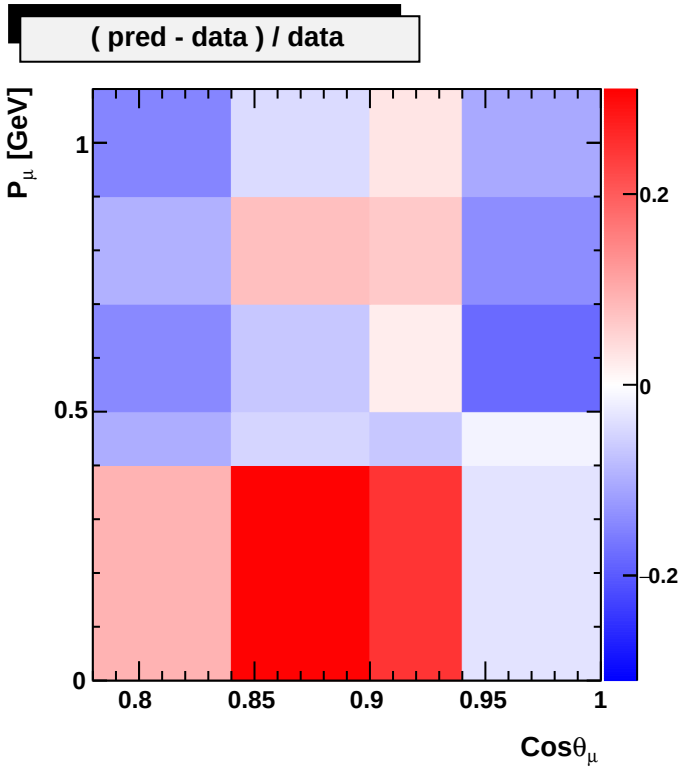
$\partial^2\sigma/\partial \text{Cos}\theta_\mu \partial P_\mu$

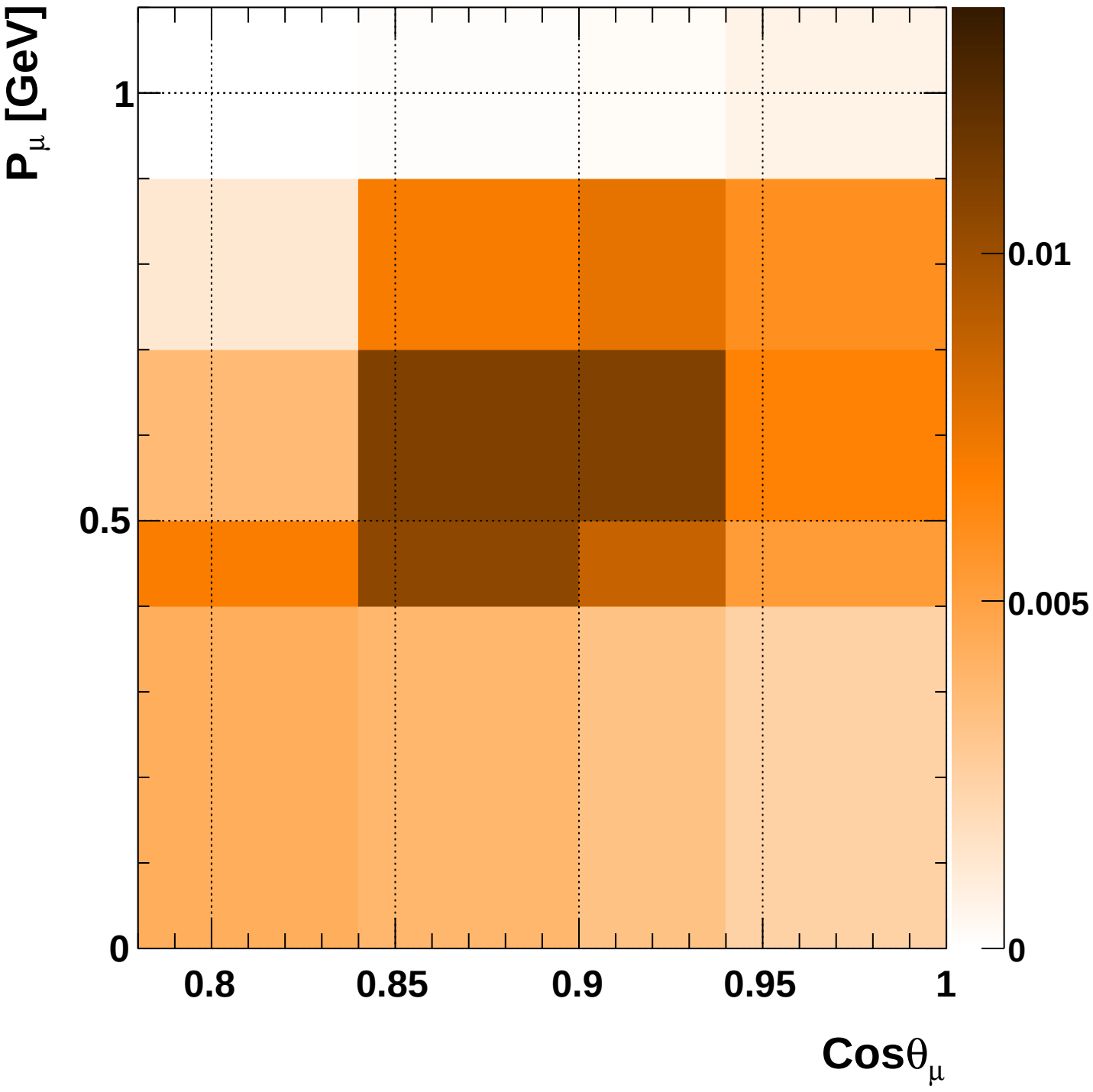
[10^{-38} cm^2/GeV]

χ^2 = 25.0889/20 DoF









$\partial^2\sigma/\partial \cos\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]

Pred: RESFix:G18_02a_00_000:t2k_nd280_numu_fhc

t2k_nd280_numucc_2013

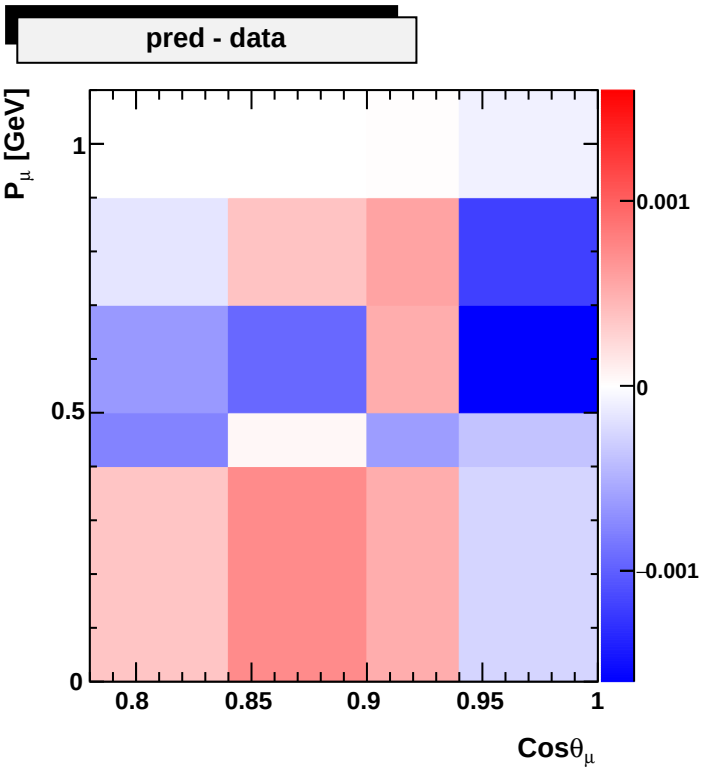
VS

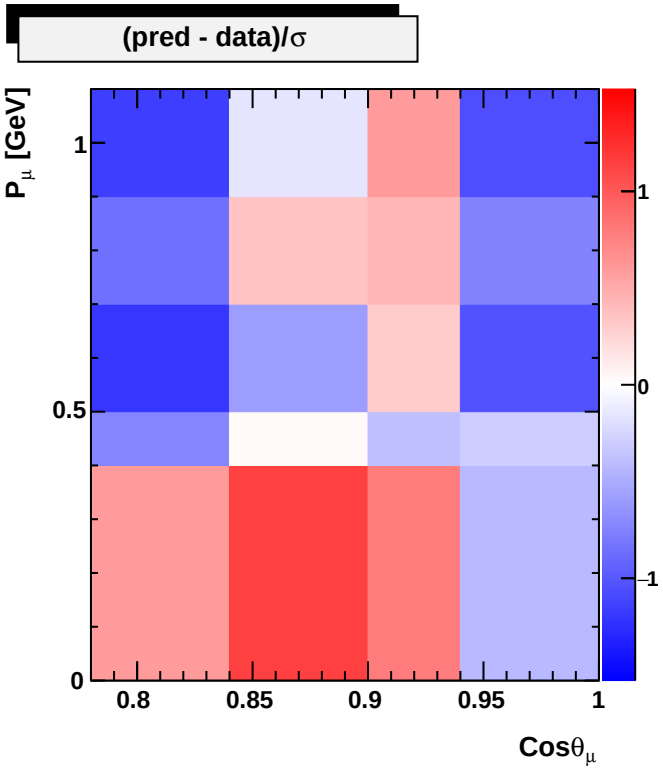
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc

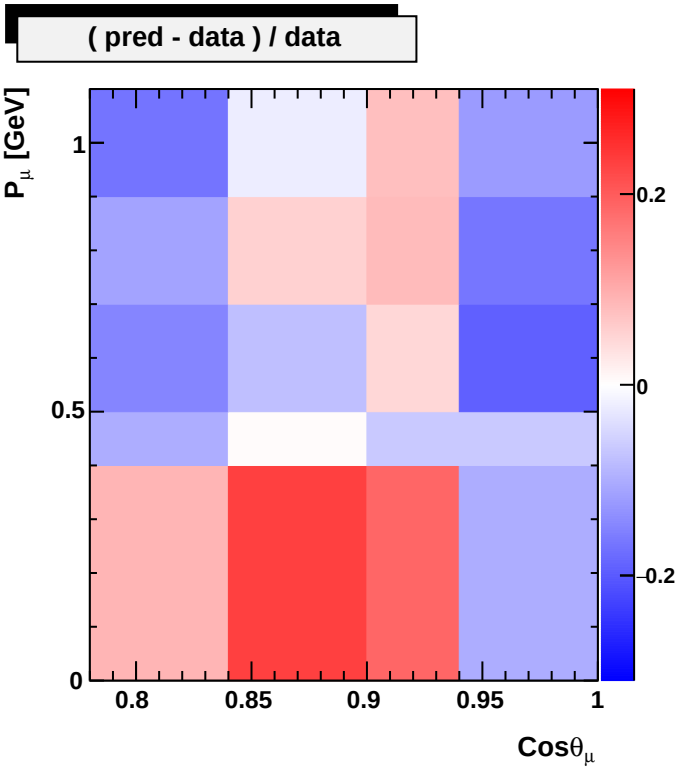
$\partial^2\sigma/\partial \text{Cos}\theta_\mu \partial P_\mu$

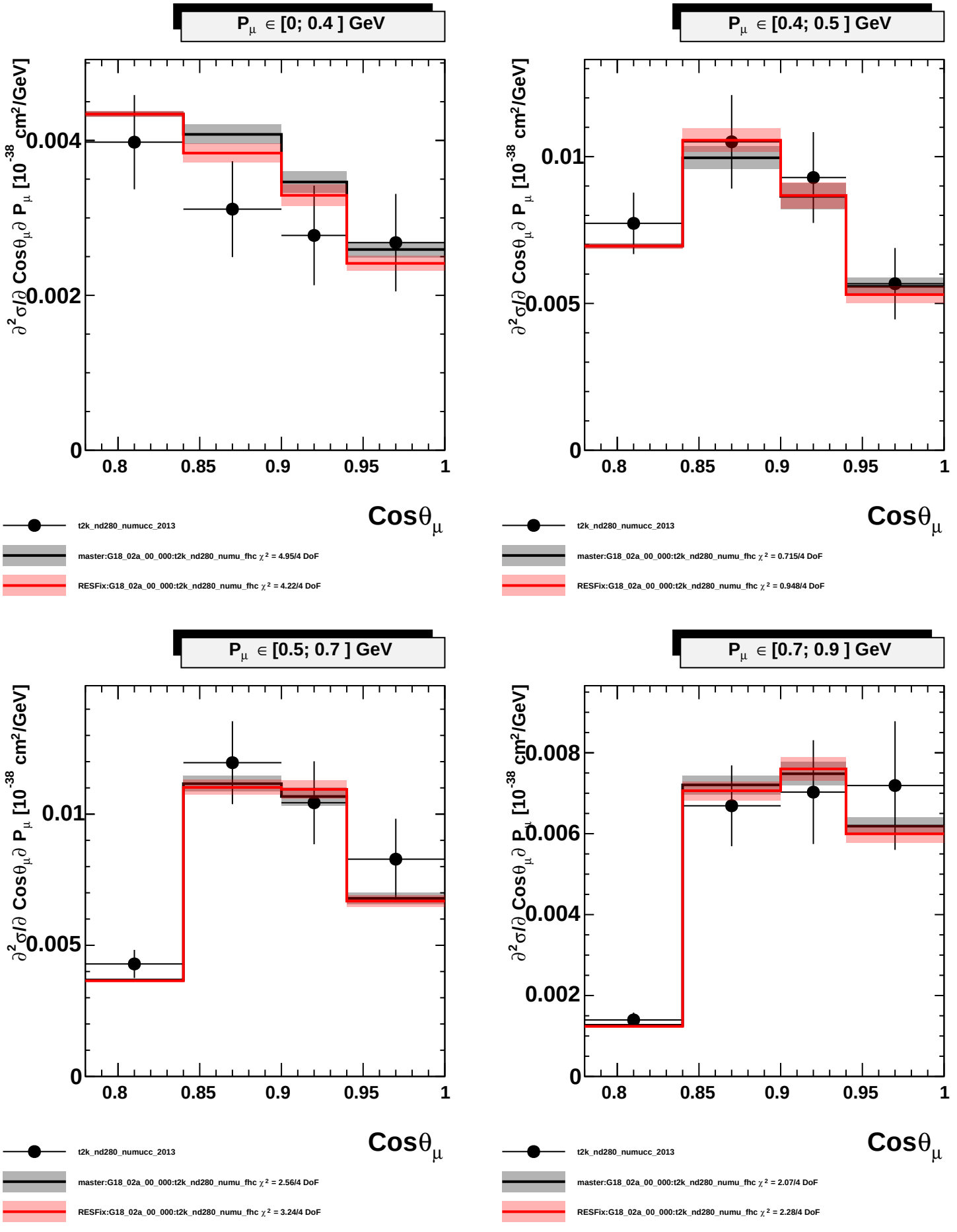
$[10^{-38}\ \text{cm}^2/\text{GeV}]$

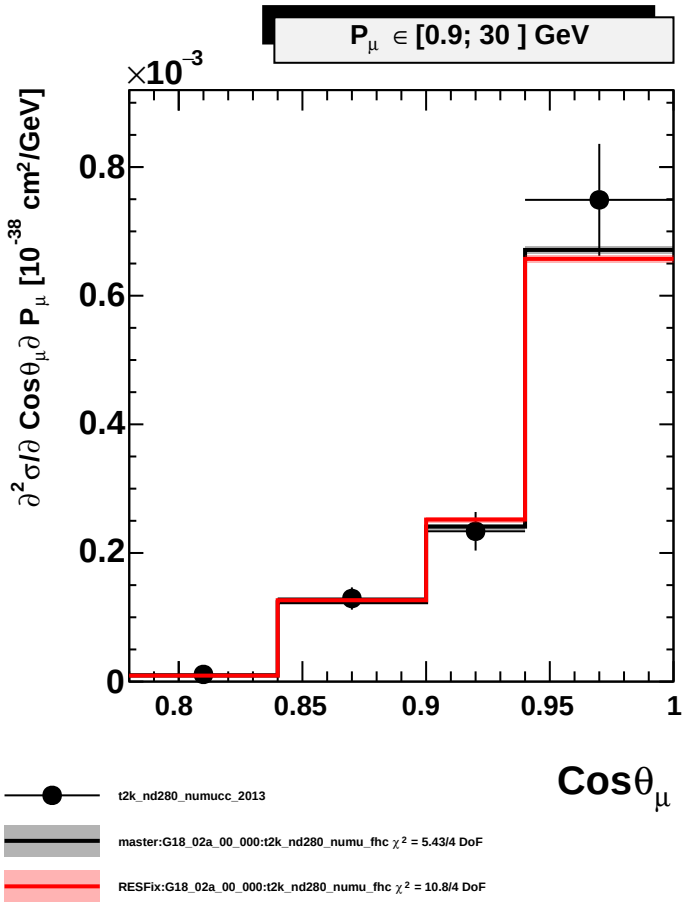
$\chi^2 = 30.168/20$ DoF

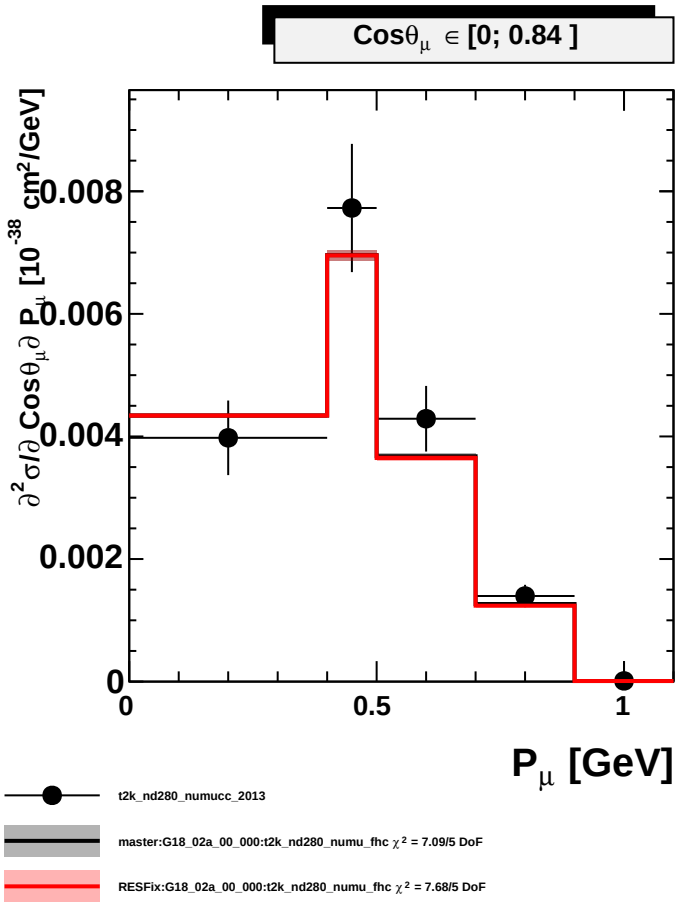


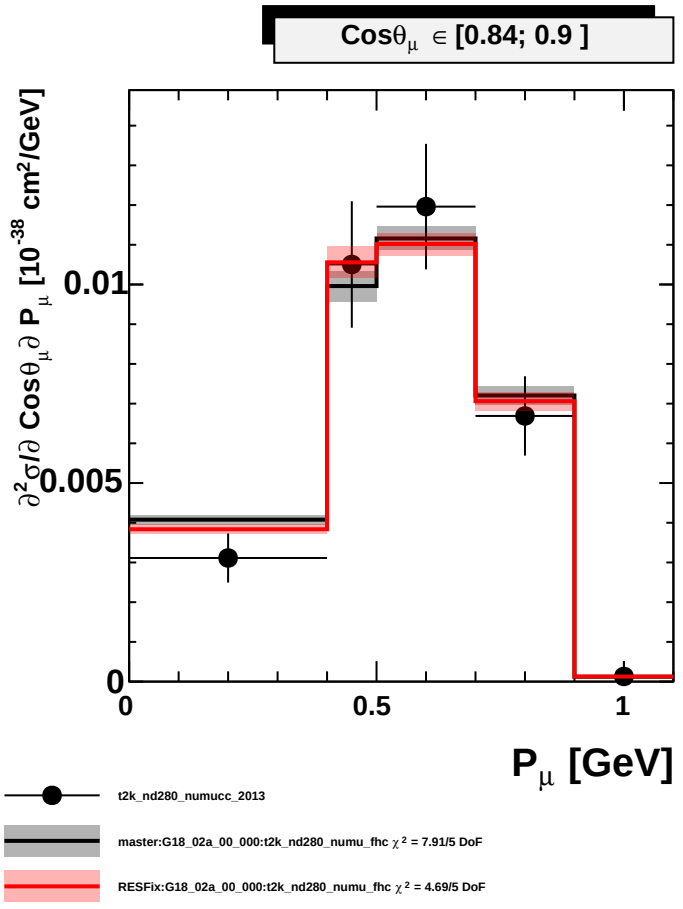


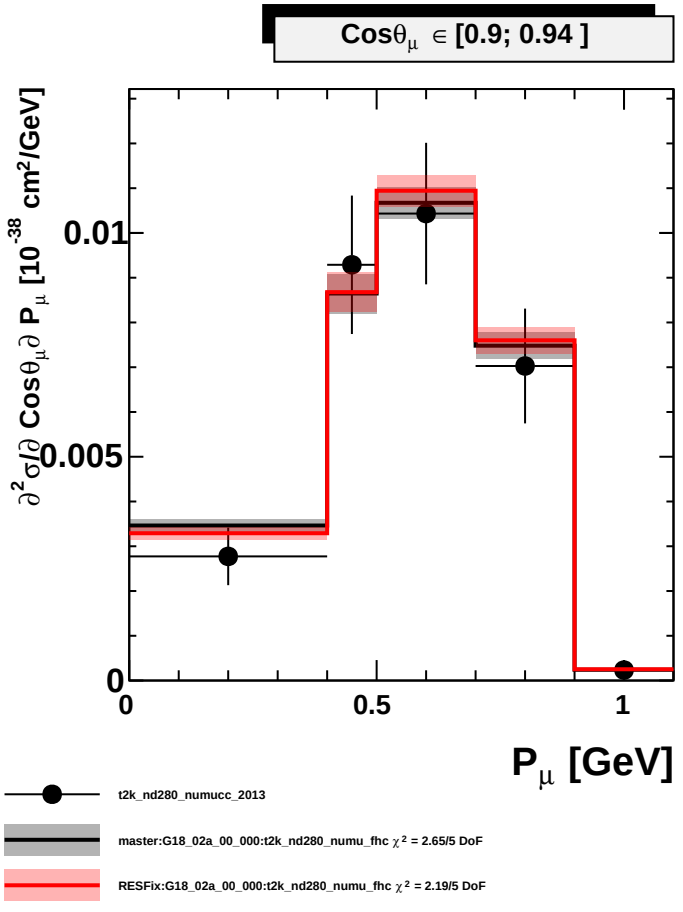


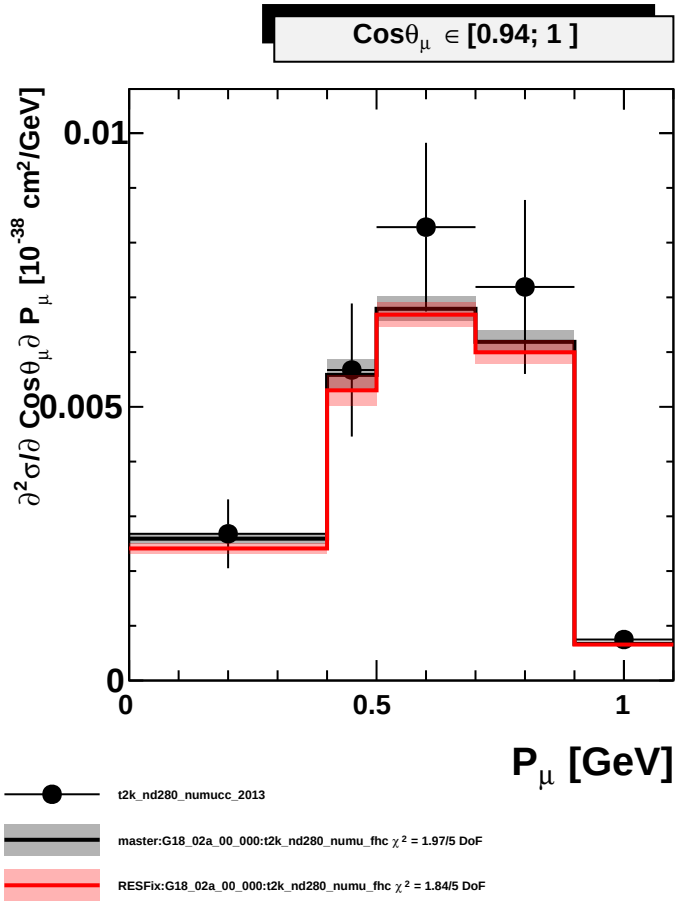

$P_\mu \in [0; 0.4]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]
0.004
0.002
0
0.8
0.85
0.9
0.95
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.95/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 4.22/4 DoF
$P_\mu \in [0.4; 0.5]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]
0.01
0.005
0
0.8
0.85
0.9
0.95
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.715/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 0.948/4 DoF
$P_\mu \in [0.5; 0.7]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]
0.01
0.005
0
0.8
0.85
0.9
0.95
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.56/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 3.24/4 DoF
$P_\mu \in [0.7; 0.9]$ GeV
$\partial^2\sigma/\partial \mathrm{Cos}\theta_\mu \partial P_\mu$ [10^{-38} cm^2/GeV]
0.008
0.006
0.004
0.002
0
0.8
0.85
0.9
0.95
1
$\mathrm{Cos}\theta_\mu$
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.07/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ^2 = 2.28/4 DoF


P_μ ∈ [0.9; 30] GeV
×10^−3
0.8
0.6
0.4
0.2
0
0.8
0.85
0.9
0.95
1
∂²σ/∂ Cosθ_μ ∂ P_μ [10^-38 cm²/GeV]
Cosθ_μ
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 5.43/4 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 10.8/4 DoF


Cosθμ ∈ [0; 0.84]
∂²σ/∂ Cosθμ ∂ Pμ [10⁻³⁸ cm²/GeV]
0.008
0.006
0.004
0.002
0
0
0.5
1
Pμ [GeV]
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 7.09/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 7.68/5 DoF


Cosθμ ∈ [0.84; 0.9]
∂²σ/∂ Cosθμ ∂ Pμ [10⁻³⁸ cm²/GeV]
0.01
0.005
0
0
0.5
1
Pμ [GeV]
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 7.91/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 4.69/5 DoF


Cosθμ ∈ [0.9; 0.94]
∂²σ/∂ Cosθμ ∂ Pμ [10⁻³⁸ cm²/GeV]
0.01
0.005
0
0
0.5
1
Pμ [GeV]
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 2.65/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 2.19/5 DoF


Cosθμ ∈ [0.94; 1]
∂²σ/∂ Cosθμ ∂ Pμ [10⁻³⁸ cm²/GeV]
0.01
0.005
0
0
0.5
1
Pμ [GeV]
t2k_nd280_numucc_2013
master:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 1.97/5 DoF
RESFix:G18_02a_00_000:t2k_nd280_numu_fhc χ² = 1.84/5 DoF