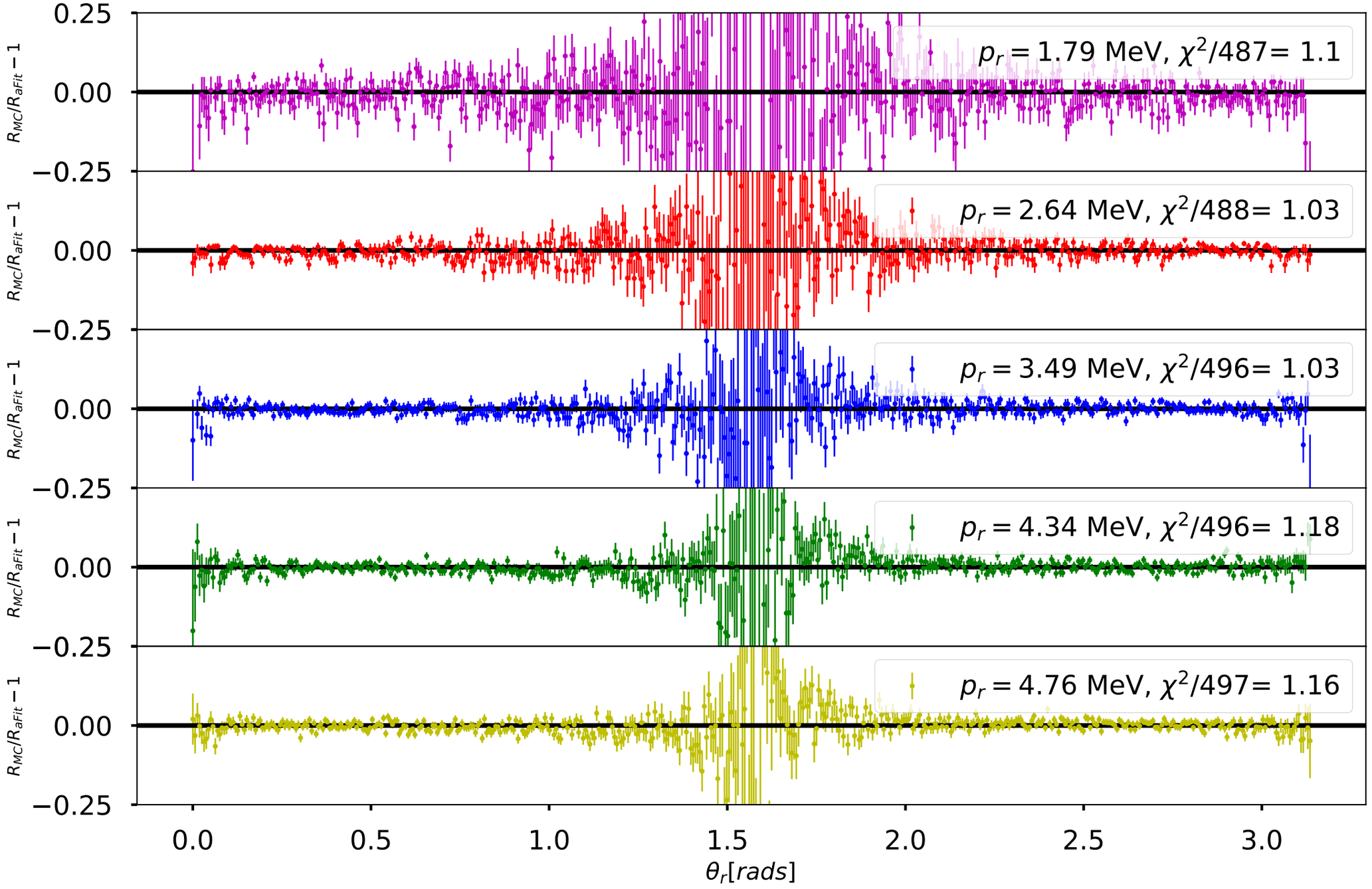
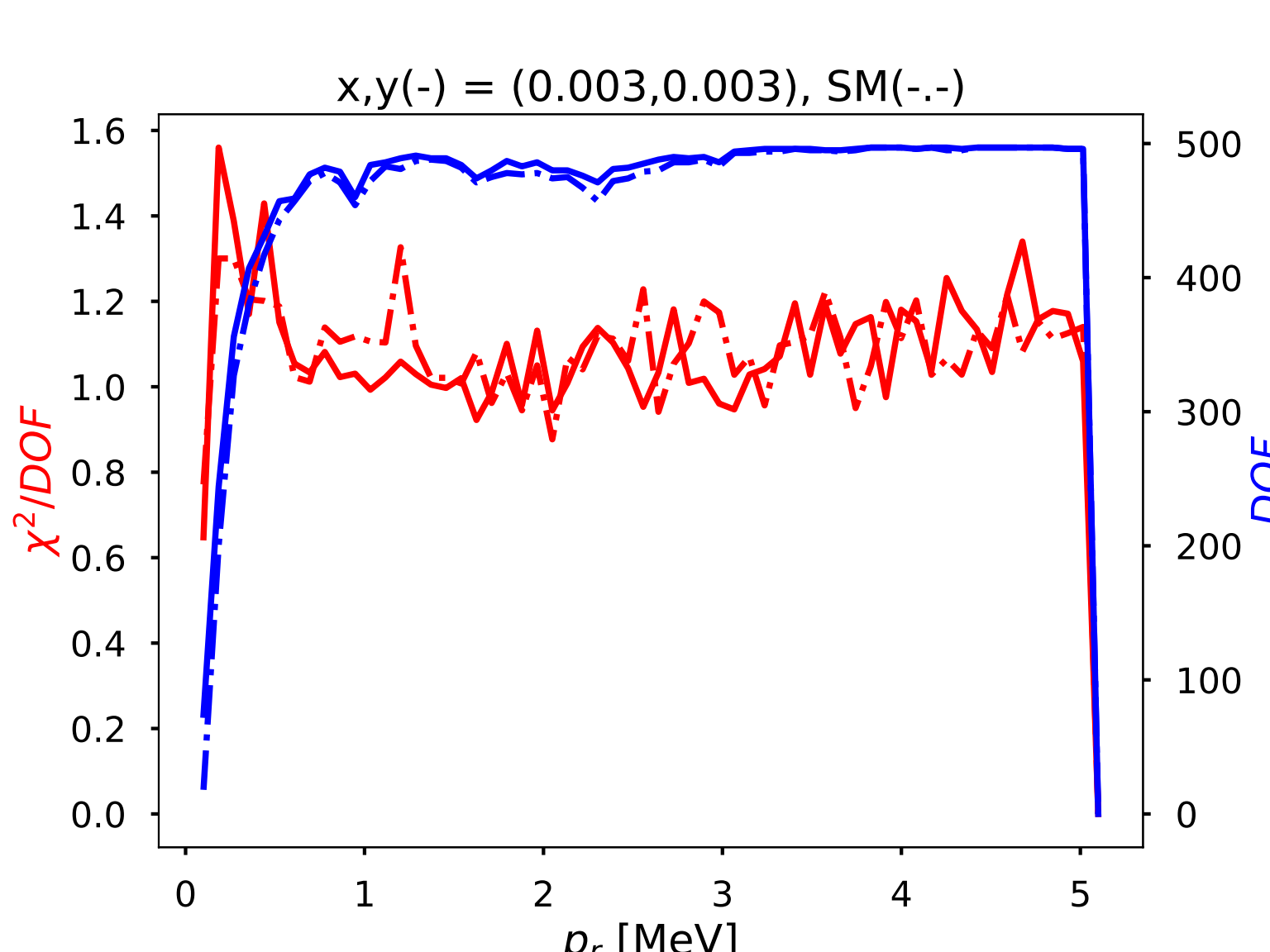
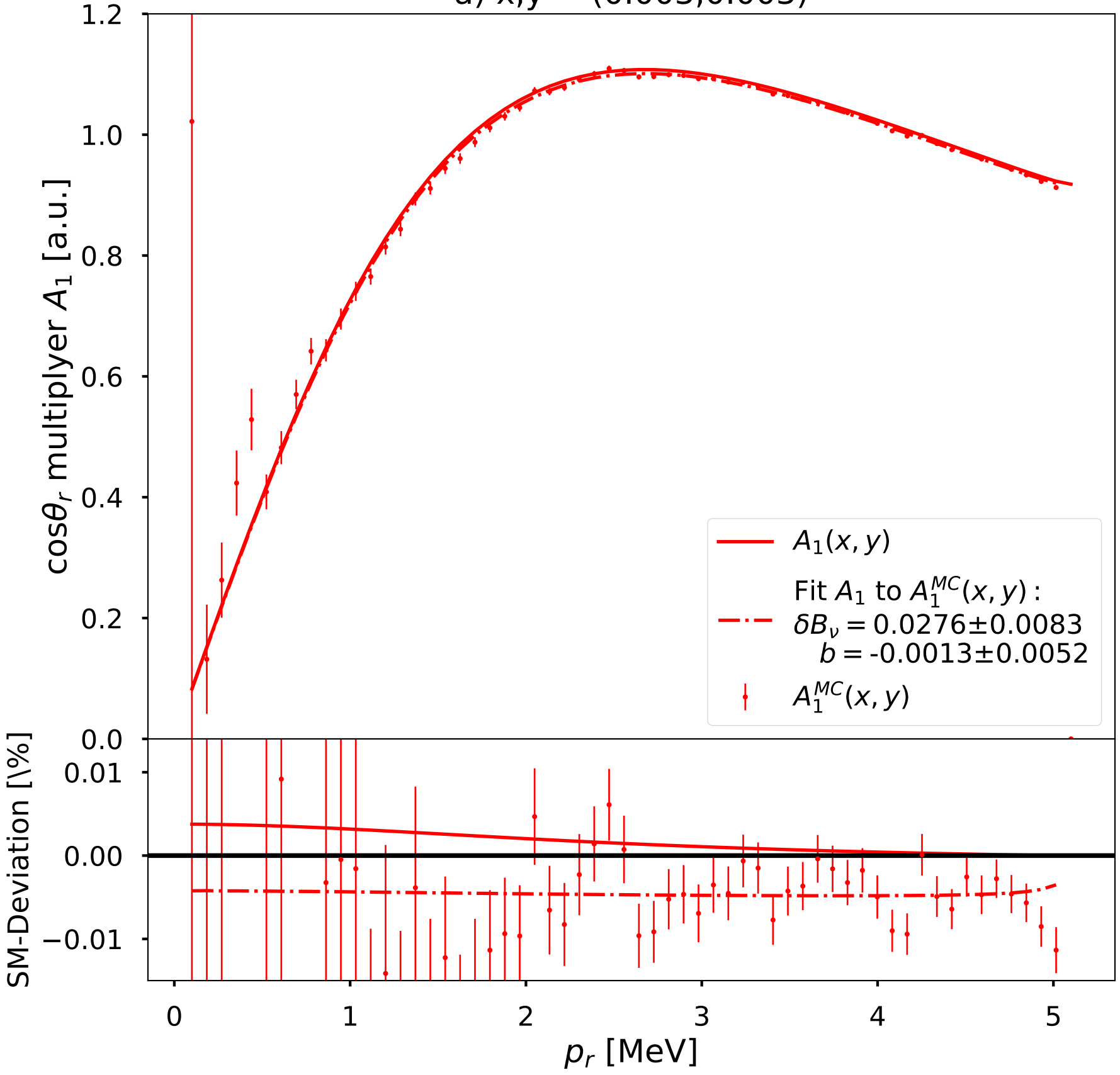
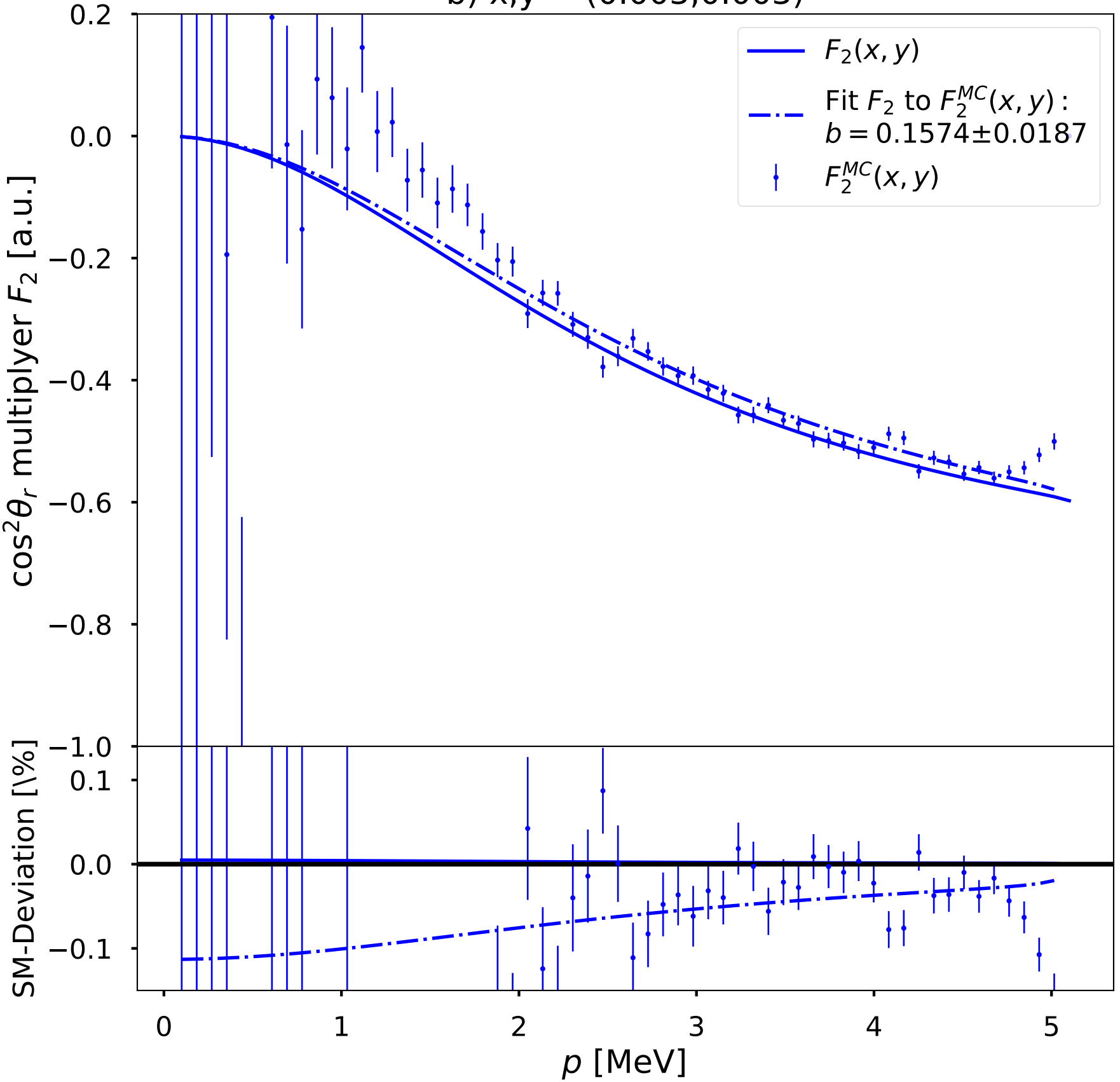
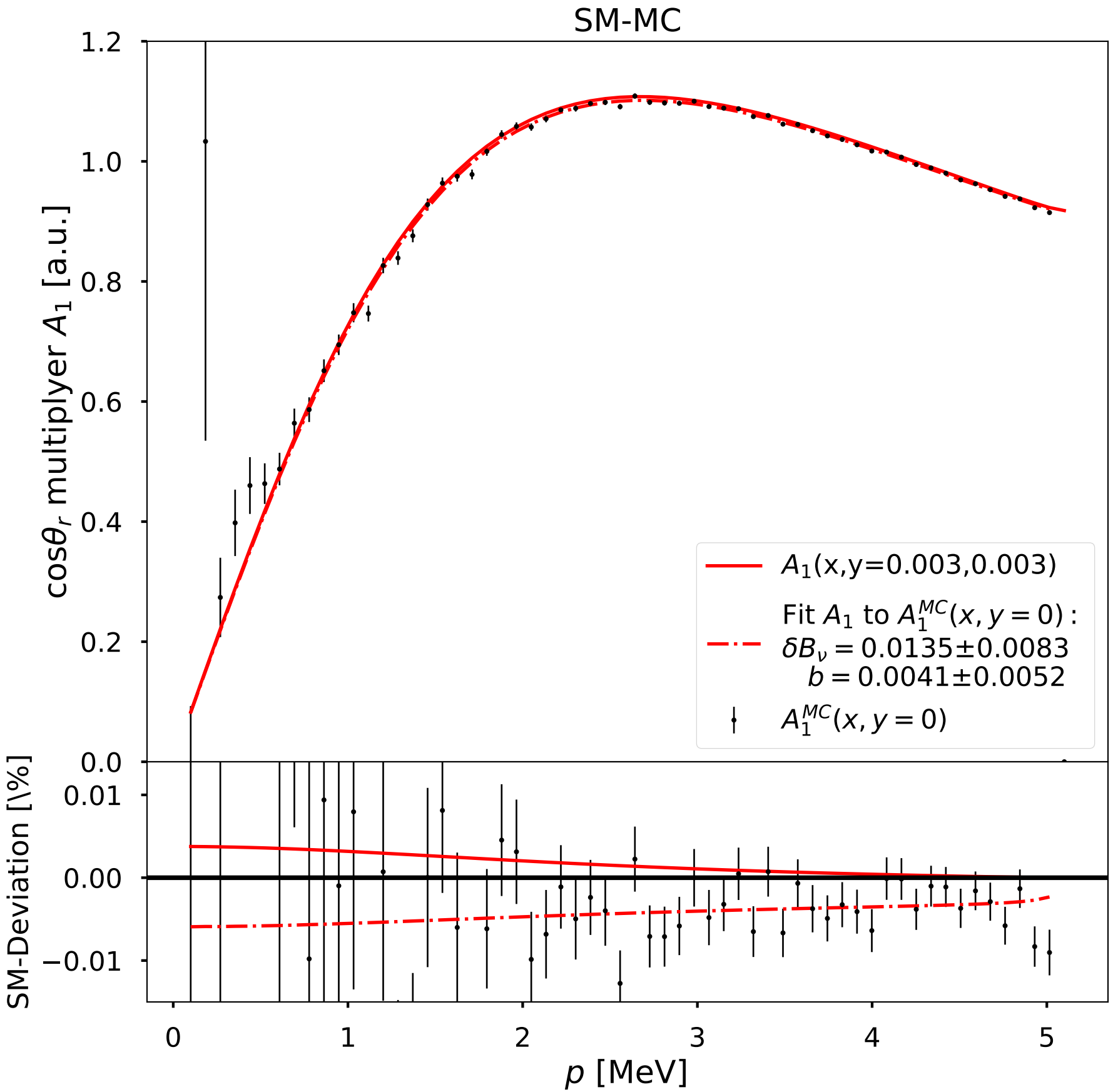
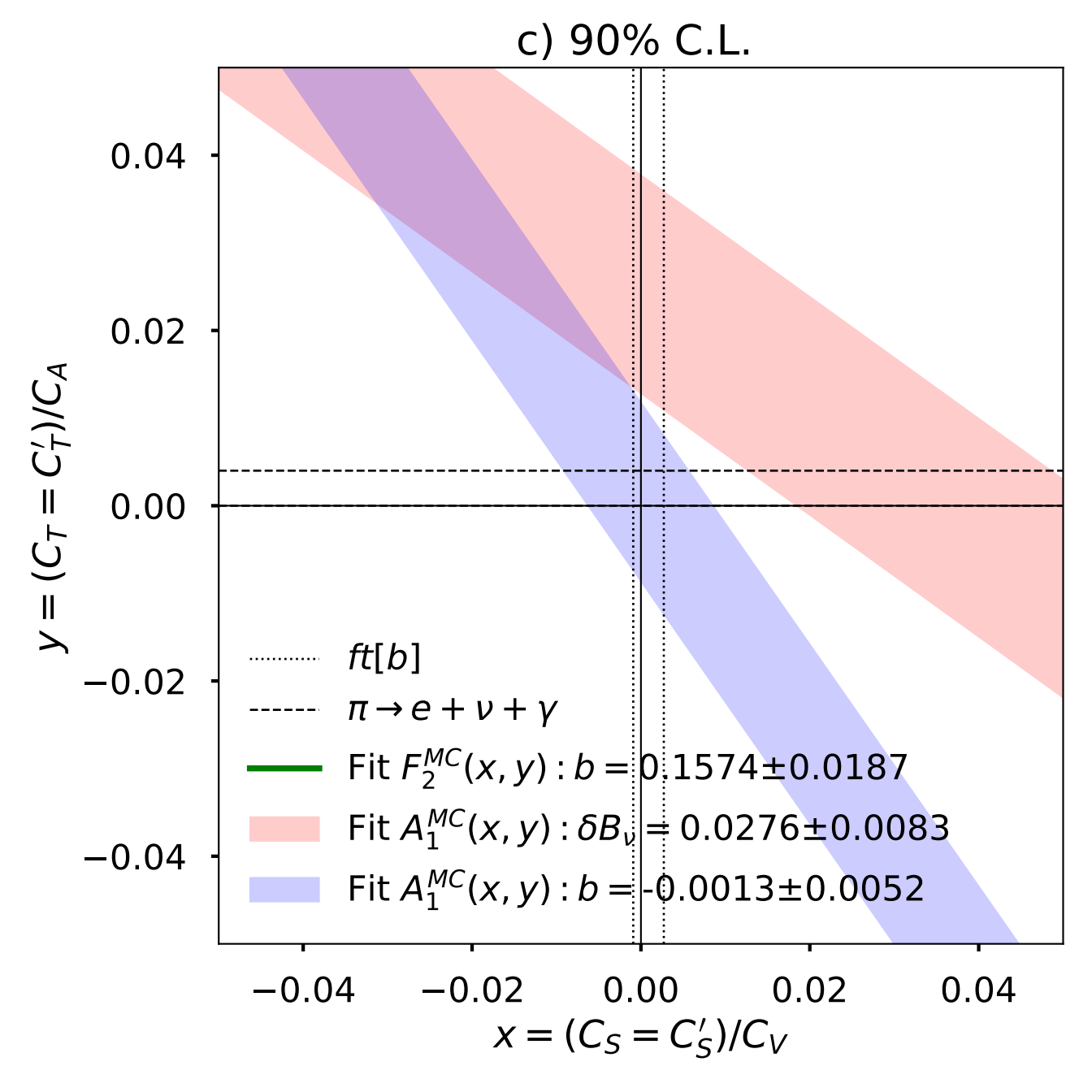

$p_r = 1.79$ MeV, $\chi^2/487 = 1.1$
$p_r = 2.64$ MeV, $\chi^2/488 = 1.03$
$p_r = 3.49$ MeV, $\chi^2/496 = 1.03$
$p_r = 4.34$ MeV, $\chi^2/496 = 1.18$
$p_r = 4.76$ MeV, $\chi^2/497 = 1.16$
$R_{MC}/R_{aFit} - 1$
0.25
0.00
−0.25
0.0
0.5
1.0
1.5
2.0
2.5
3.0
$\theta_r[rads]$

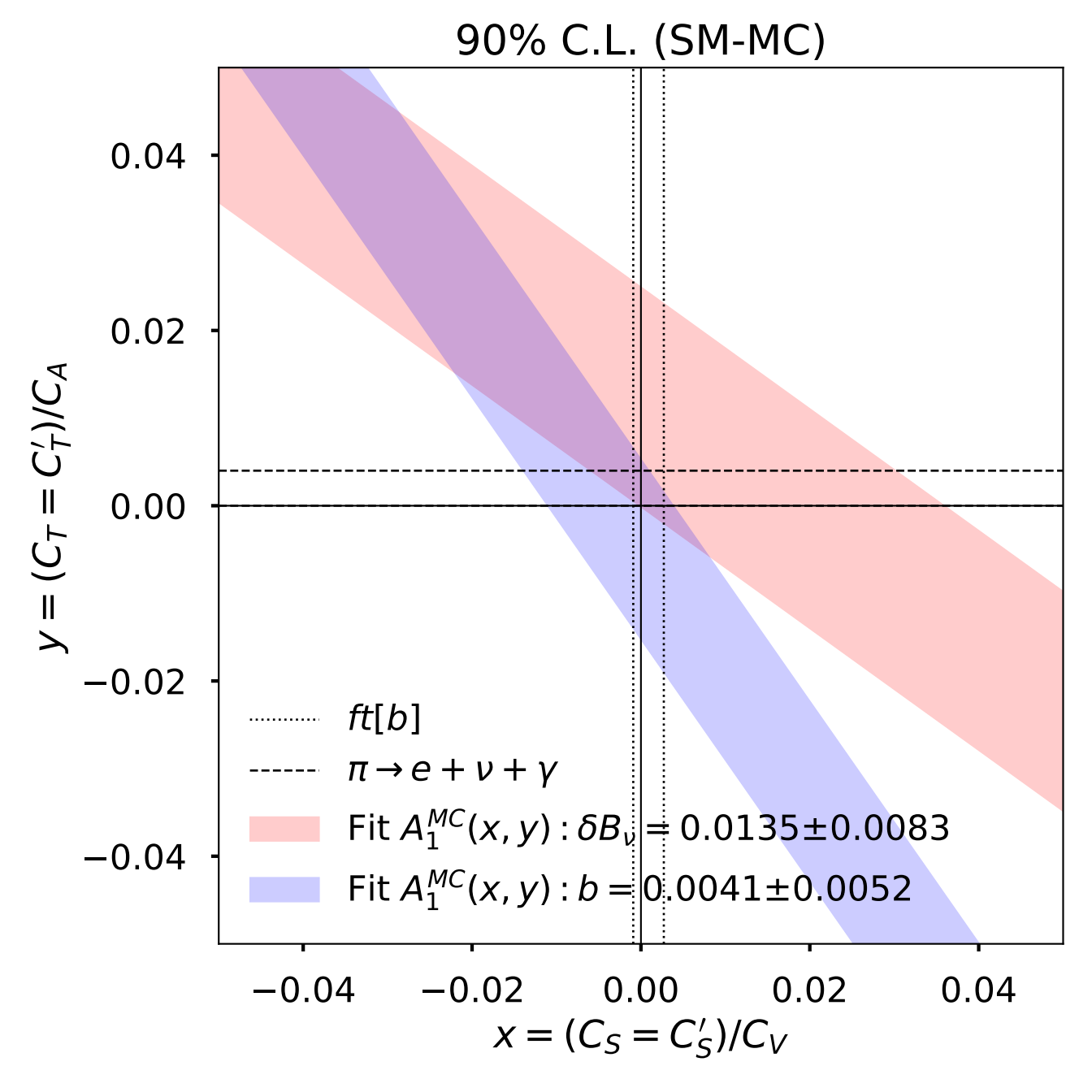

x,y(-) = (0.003,0.003), SM(-.-)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
χ^2/DOF
500
400
300
200
100
0
DOF
0
1
2
3
4
5
p_t [MeV]

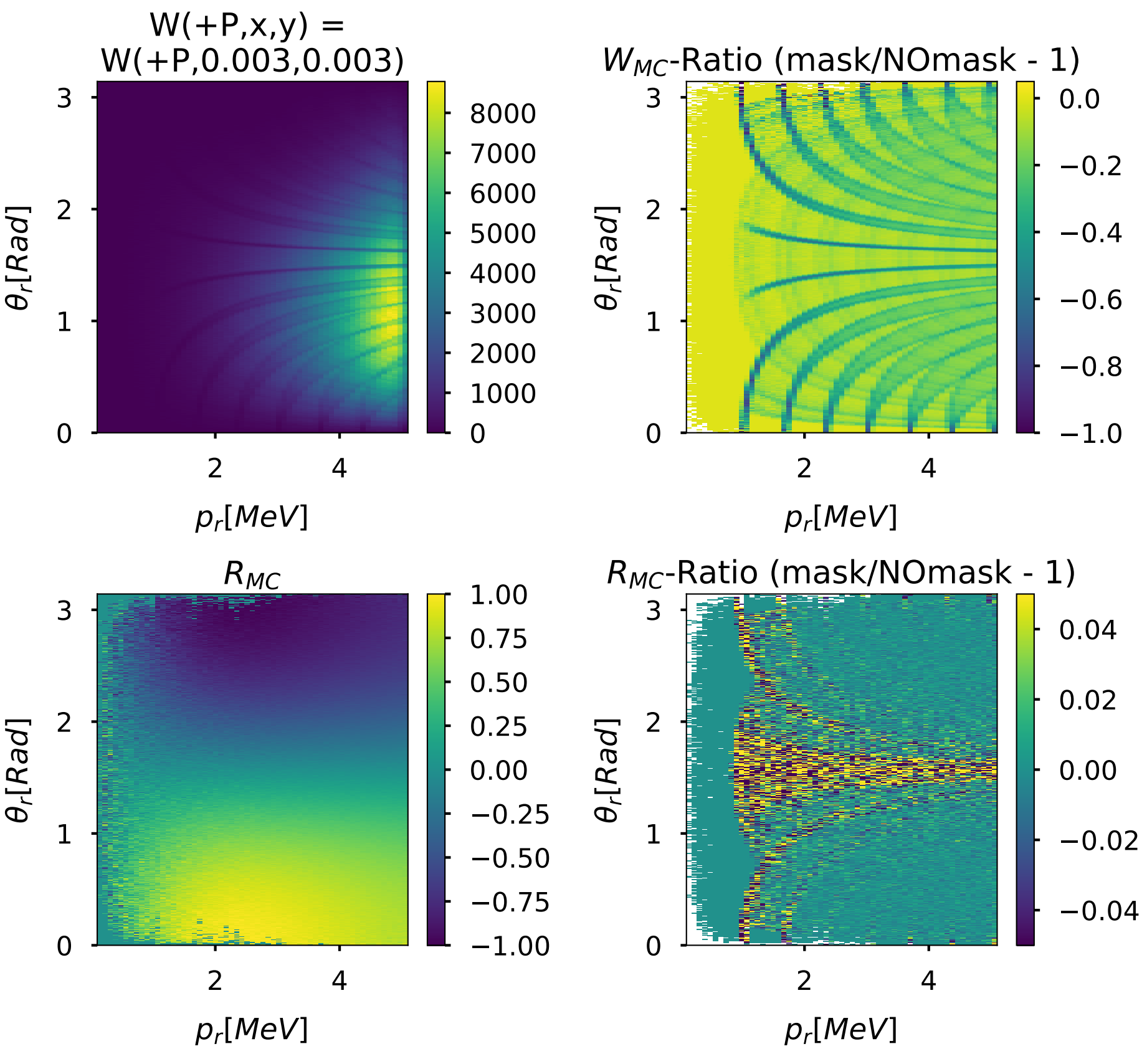

a) x,y = (0.003,0.003)
cosθ_r multiplyer A_1 [a.u.]
1.2
1.0
0.8
0.6
0.4
0.2
0.0
A_1(x, y)
Fit A_1 to A_1^MC(x, y) :
δB_ν = 0.0276±0.0083
b = -0.0013±0.0052
A_1^MC(x, y)
SM-Deviation [\%]
0.01
0.00
−0.01
0
1
2
3
4
5
p_r [MeV]

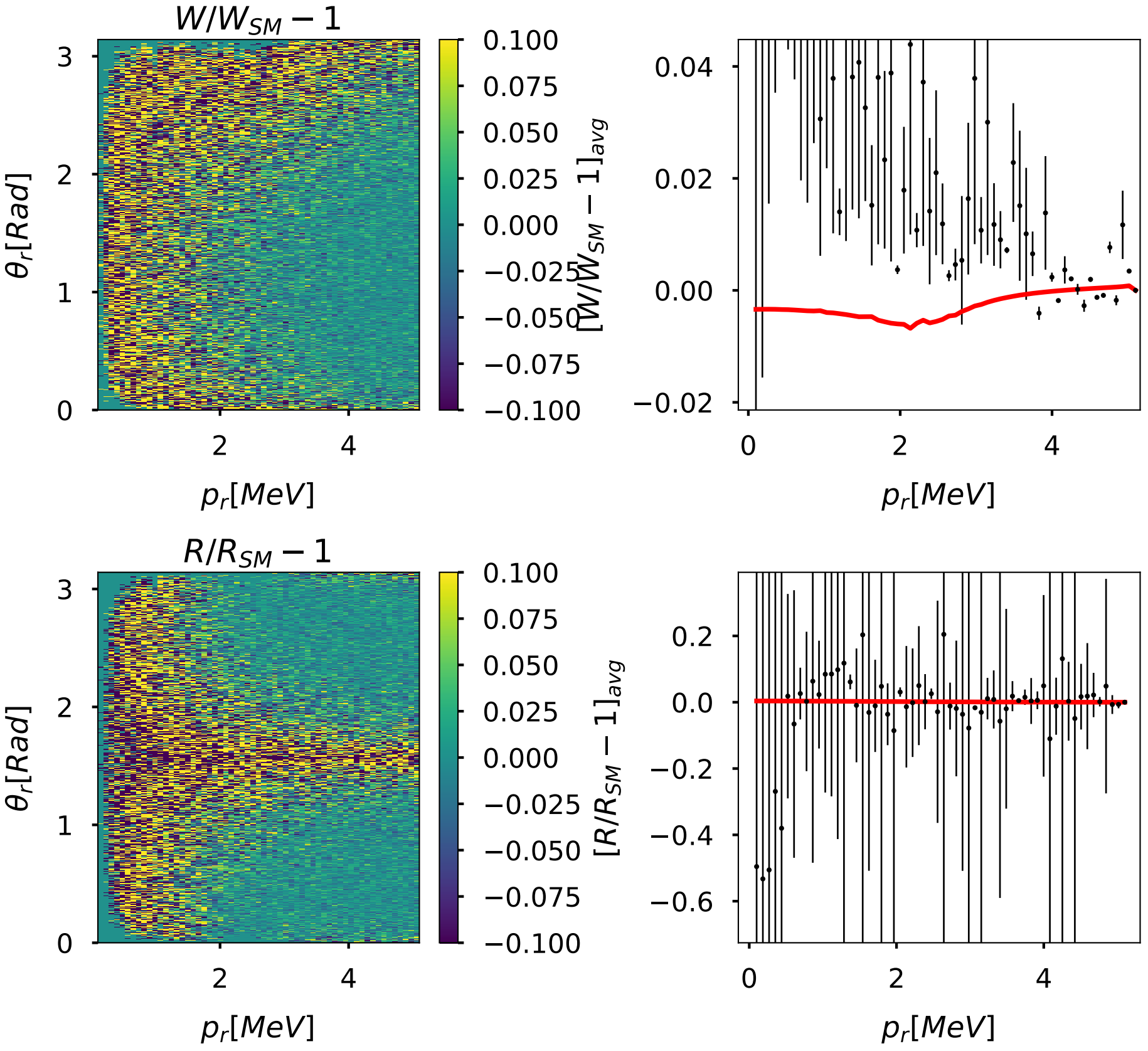

b) x,y = (0.003,0.003)
$F_2(x,y)$
Fit F_2 to $F_2^{MC}(x,y)$:
$b = 0.1574 \pm 0.0187$
$F_2^{MC}(x,y)$
$\cos^2\theta_r$ multiplyer F_2 [a.u.]
SM-Deviation [\%]
p [MeV]

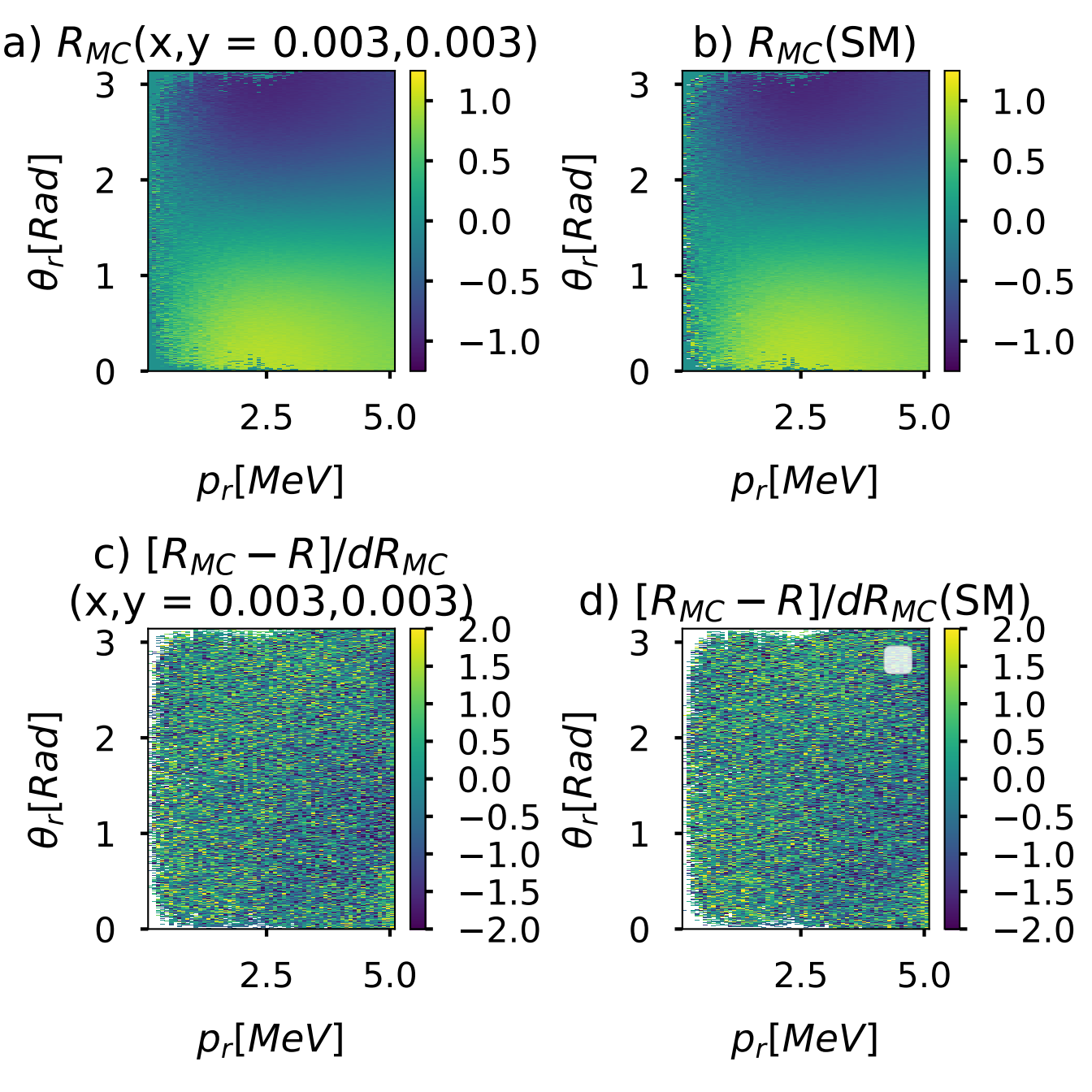

SM-MC
1.2
1.0
0.8
0.6
0.4
0.2
0.0
cosθ_r multiplyer A_1 [a.u.]
A_1(x,y=0.003,0.003)
Fit A_1 to A_1^MC(x, y = 0) :
δB_ν = 0.0135±0.0083
b = 0.0041±0.0052
A_1^MC(x, y = 0)
0.01
0.00
−0.01
SM-Deviation [\%]
0
1
2
3
4
5
p [MeV]

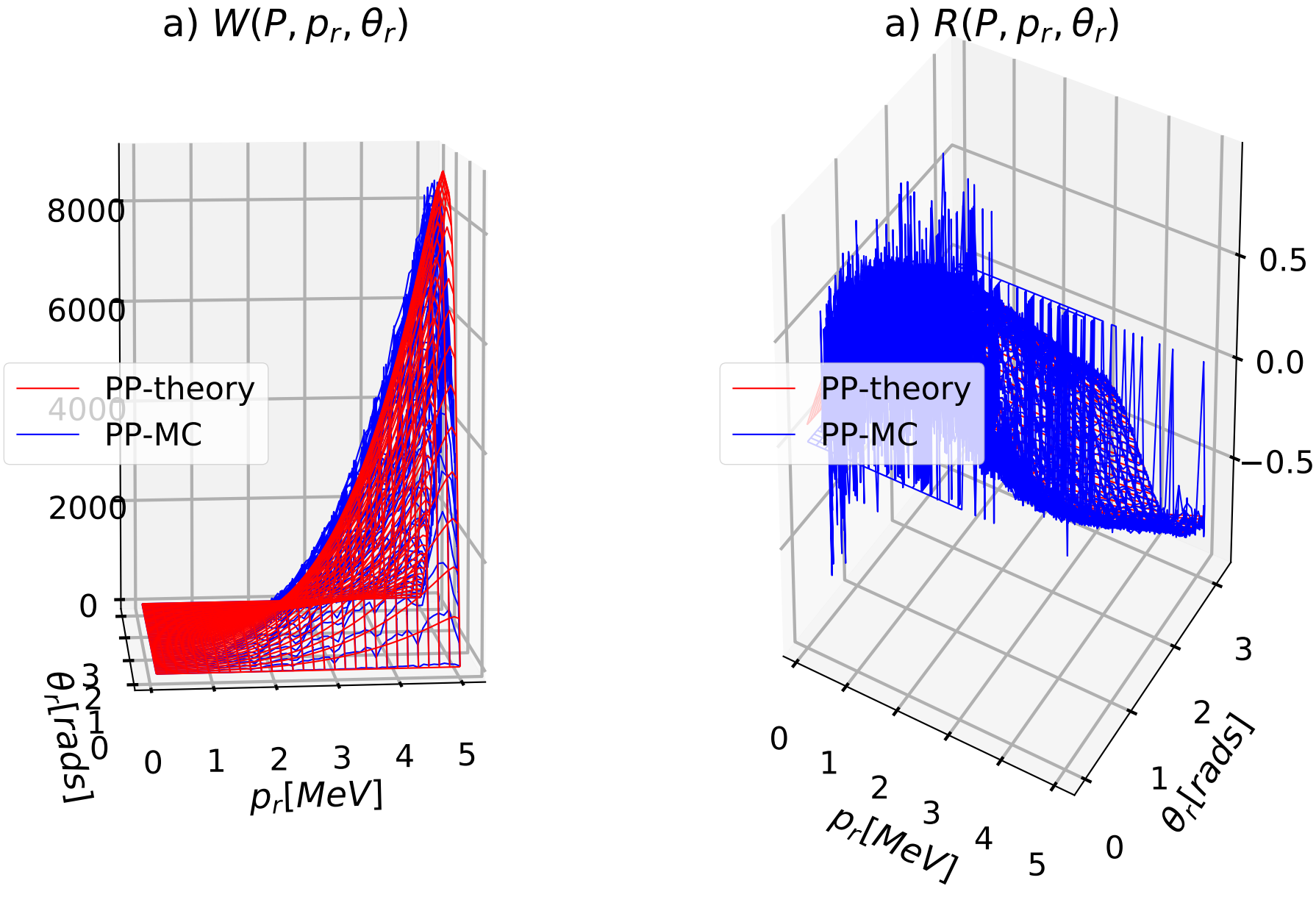

c) 90% C.L.
0.04
0.02
0.00
−0.02
−0.04
$y = (C_T = C_T')/C_A$
$ft[b]$
$\pi \to e + \nu + \gamma$
Fit $F_2^{MC}(x, y) : b = 0.1574 \pm 0.0187$
Fit $A_1^{MC}(x, y) : \delta B_\nu = 0.0276 \pm 0.0083$
Fit $A_1^{MC}(x, y) : b = -0.0013 \pm 0.0052$
−0.04
−0.02
0.00
0.02
0.04
$x = (C_S = C_S')/C_V$

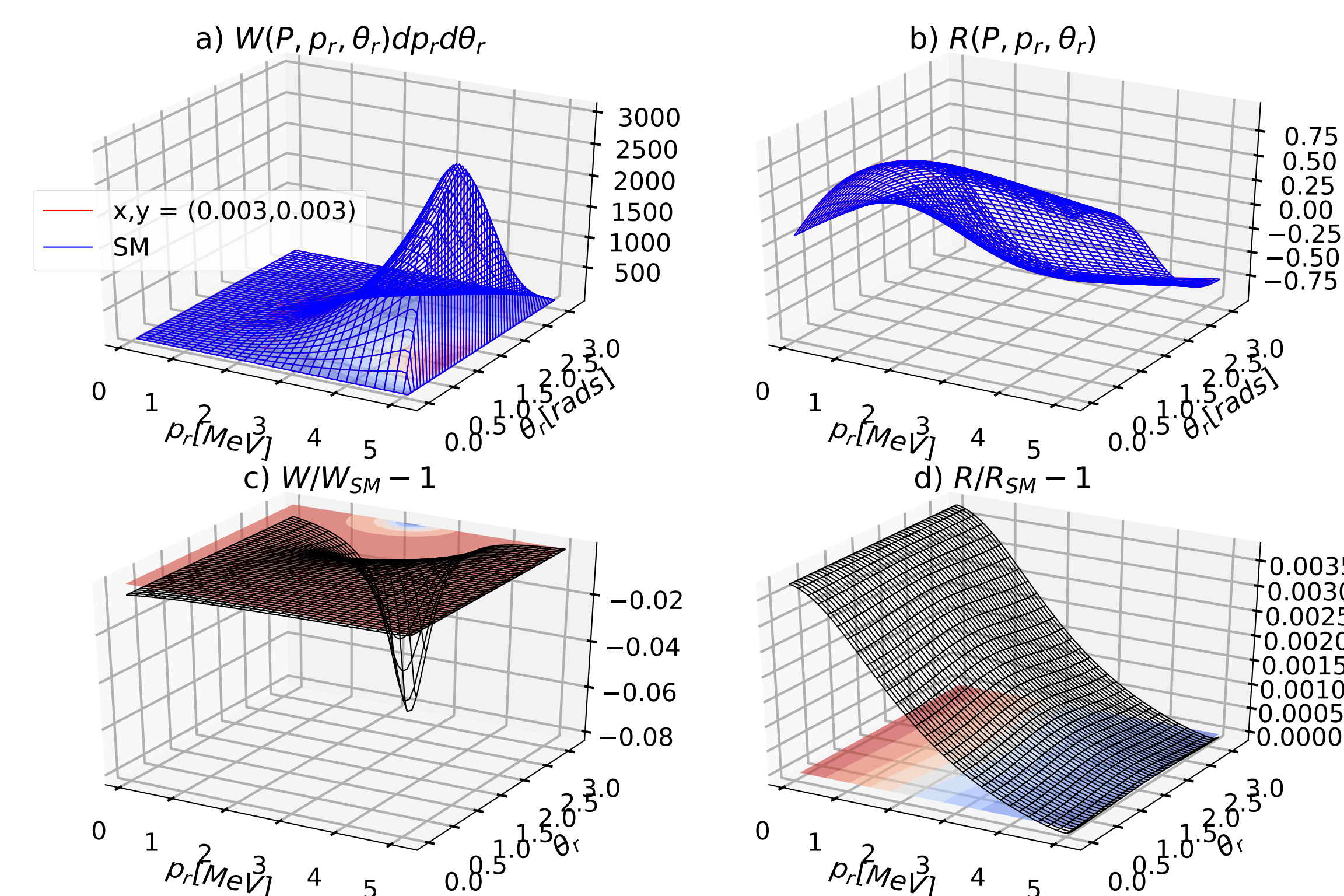

90% C.L. (SM-MC)
0.04
0.02
0.00
−0.02
−0.04
$y = (C_T = C_T')/C_A$
$ft[b]$
$\pi \to e + \nu + \gamma$
Fit $A_1^{MC}(x, y) : \delta B_\nu = 0.0135 \pm 0.0083$
Fit $A_1^{MC}(x, y) : b = 0.0041 \pm 0.0052$
−0.04
−0.02
0.00
0.02
0.04
$x = (C_S = C_S')/C_V$


W(+P,x,y) =
W(+P,0.003,0.003)
W_{MC}-Ratio (mask/NOmask - 1)
R_{MC}
R_{MC}-Ratio (mask/NOmask - 1)
$\theta_r[Rad]$
$p_r[MeV]$
0
1
2
3
2
4
8000
7000
6000
5000
4000
3000
2000
1000
0
0.0
−0.2
−0.4
−0.6
−0.8
−1.0
1.00
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
−1.00
0.04
0.02
0.00
−0.02
−0.04


$W/W_{SM}-1$
$\theta_r[Rad]$
$p_r[MeV]$
$[W/W_{SM}-1]_{avg}$
$R/R_{SM}-1$
$[R/R_{SM}-1]_{avg}$


a) R_{MC}(x,y = 0.003,0.003)
b) R_{MC}(SM)
c) $[R_{MC} - R]/dR_{MC}$ (x,y = 0.003,0.003)
d) $[R_{MC} - R]/dR_{MC}$(SM)
$\theta_r[Rad]$
$p_r[MeV]$
0
1
2
3
2.5
5.0
1.0
0.5
0.0
−0.5
−1.0
1.5
−1.5
−2.0


a) $W(P, p_r, \theta_r)$
8000
6000
4000
2000
0
PP-theory
PP-MC
0
1
2
3
4
5
$p_r[MeV]$
0
1
2
3
$\theta_r[rads]$
a) $R(P, p_r, \theta_r)$
0.5
0.0
−0.5
PP-theory
PP-MC
0
1
2
3
4
5
$p_r[MeV]$
0
1
2
3
$\theta_r[rads]$


a) $W(P, p_r, \theta_r)dp_r d\theta_r$
x,y = (0.003,0.003)
SM
3000
2500
2000
1500
1000
500
0
1
2
3
4
5
$p_r[MeV]$
0.0
0.5
1.0
1.5
2.0
2.5
3.0
$\theta_r[rads]$
b) $R(P, p_r, \theta_r)$
0.75
0.50
0.25
0.00
−0.25
−0.50
−0.75
c) $W/W_{SM} - 1$
−0.02
−0.04
−0.06
−0.08
d) $R/R_{SM} - 1$
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000