Kaon mixing: chiral and continuum extrapolations

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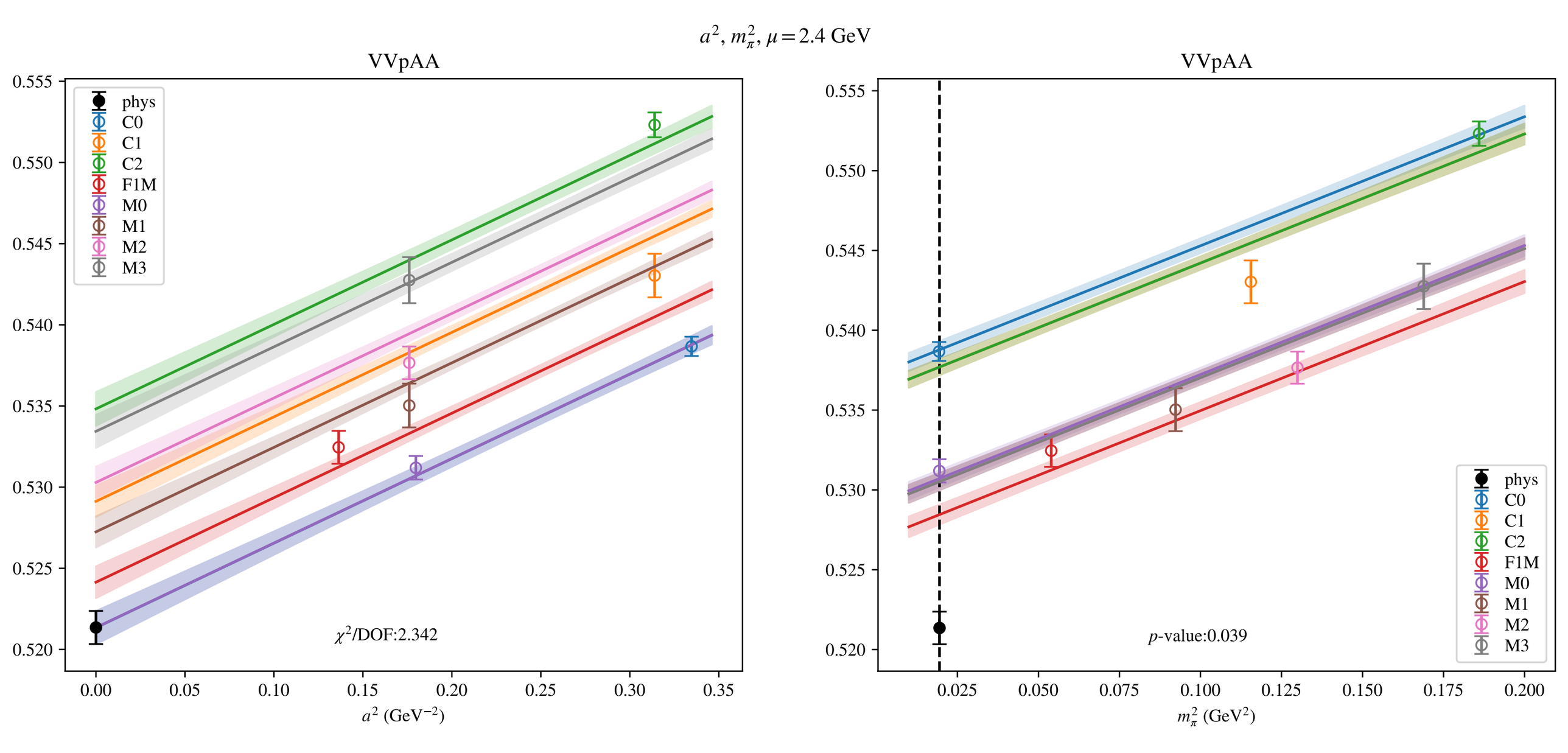
1 VVpAA

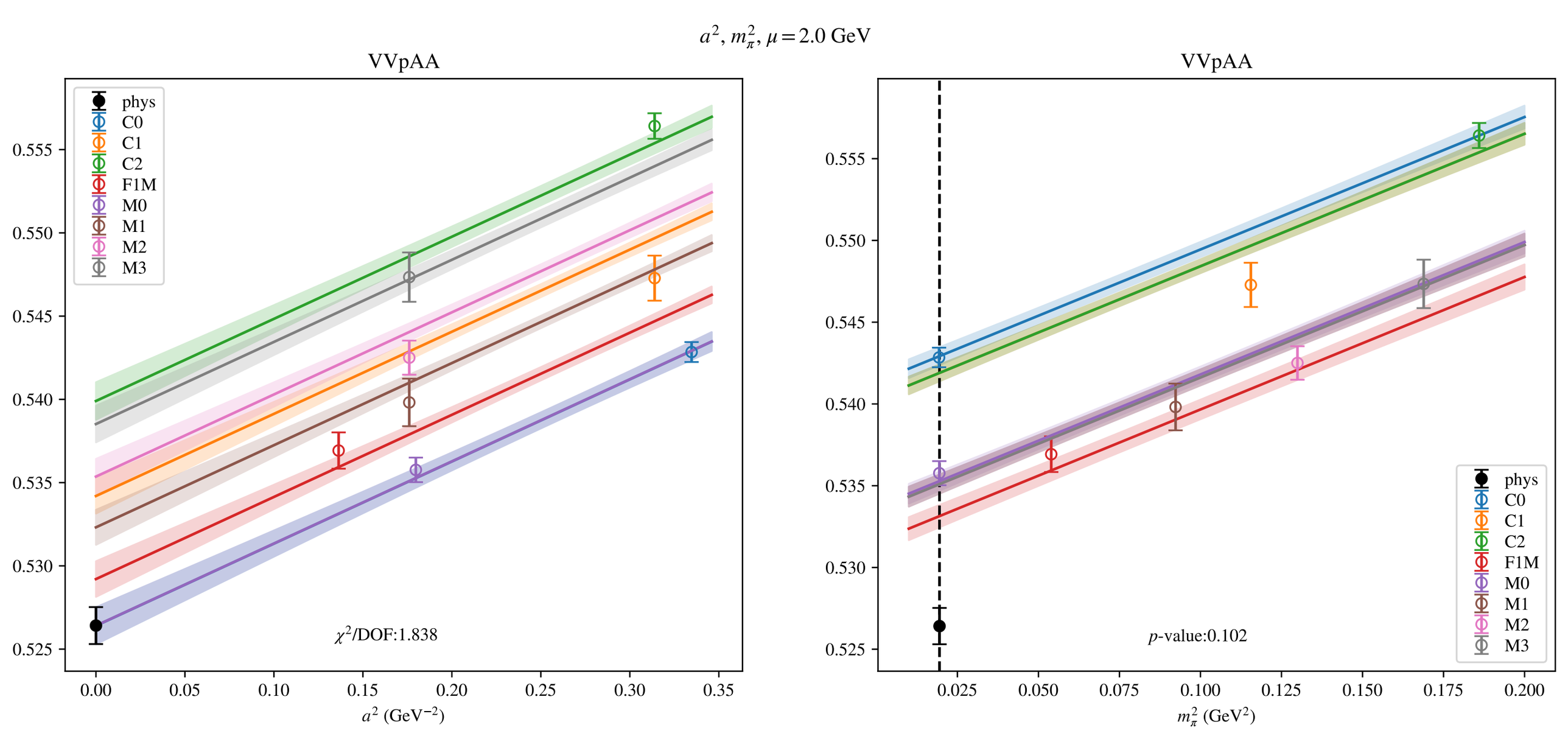
μ (GeV)	a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	**0.5213(10)**: 2.342 (0.039)	**0.5271(46)**: 1.22 (0.295)	**0.5294(79)**: 2.664 (0.031)	**0.5233(12)**: 0.993 (0.41)	**0.51075(99)**: 9.014 (0.0)
2.0	**0.5264(11)**: 1.838 (0.102)	**0.5310(48)**: 0.864 (0.421)	**0.5326(82)**: 2.159 (0.071)	**0.5282(12)**: 0.639 (0.635)	**0.5157(10)**: 8.193 (0.0)
1.8	**0.5293(14)**: 1.315 (0.254)	**0.5328(53)**: 0.478 (0.62)	**0.5335(91)**: 1.6 (0.171)	**0.5310(14)**: 0.307 (0.873)	**0.5188(13)**: 6.778 (0.0)
1.5	**0.5338(19)**: 0.734 (0.598)	**0.5356(64)**: 0.159 (0.853)	**0.536(11)**: 0.909 (0.457)	**0.5352(18)**: 0.099 (0.983)	**0.5237(19)**: 4.464 (0.0)

Table 1: Physical point value from chiral and continuum extrapolation at renormalisation scale μ. Entries are **value(error)**: χ^2/DOF (p-value).

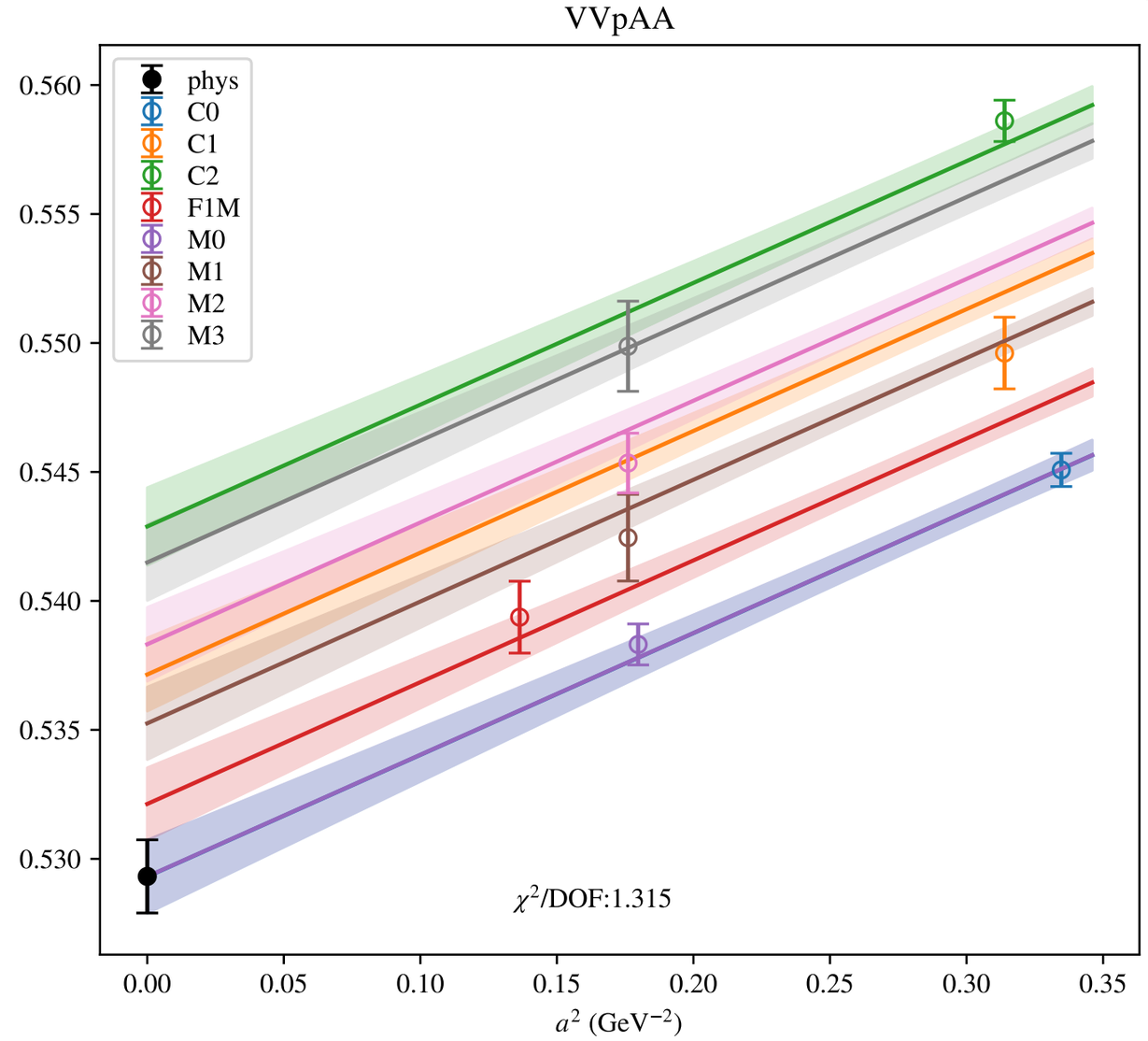
μ (GeV)		a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	α	0.1001(70)	0.040(52)	-0.043	0.0864(83)	0.1218(71)
	β	0.00264(14)	0.00221(27)	0.00268(15)	0.00016(89)	-0.0019(15)
2.0	α	0.0939(73)	0.047(53)	-0.015	0.0813(84)	0.1150(74)
	β	0.00262(14)	0.00223(28)	0.00265(15)	0.00030(90)	-0.0020(15)
1.8	α	0.0894(84)	0.055(57)	0.016	0.0781(89)	0.1088(85)
	β	0.00262(15)	0.00225(29)	0.00264(15)	0.00039(94)	-0.0020(15)
1.5	α	0.081(10)	0.066(65)	0.036	0.0722(99)	0.098(10)
	β	0.00261(15)	0.00230(34)	0.00261(16)	0.001	-0.0020(15)

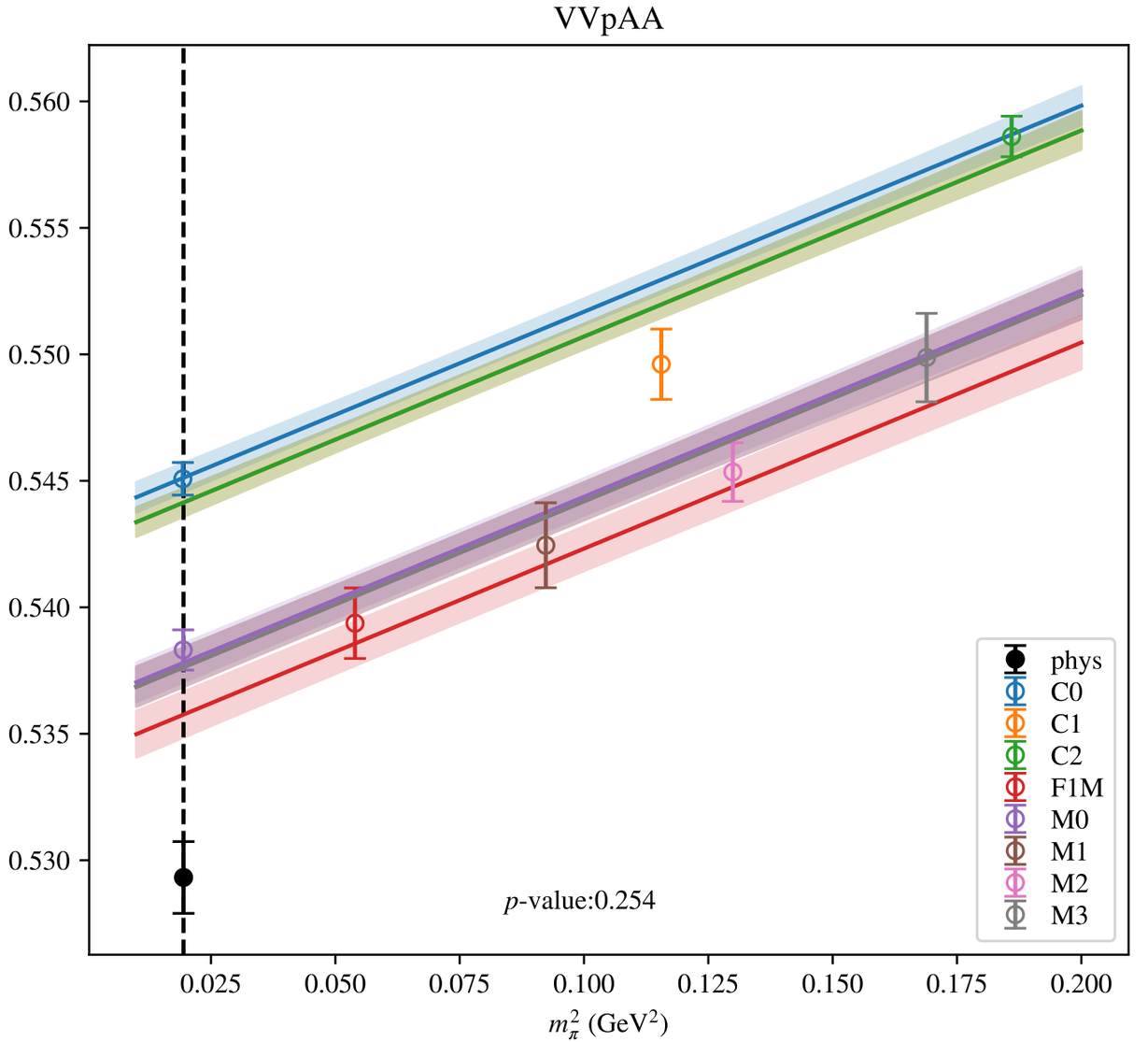
Table 2: Fit values of coefficients in $B = B_0(1 + \alpha a^2 + \beta \frac{m_\pi^2}{f_\pi^2} + \ldots)$.

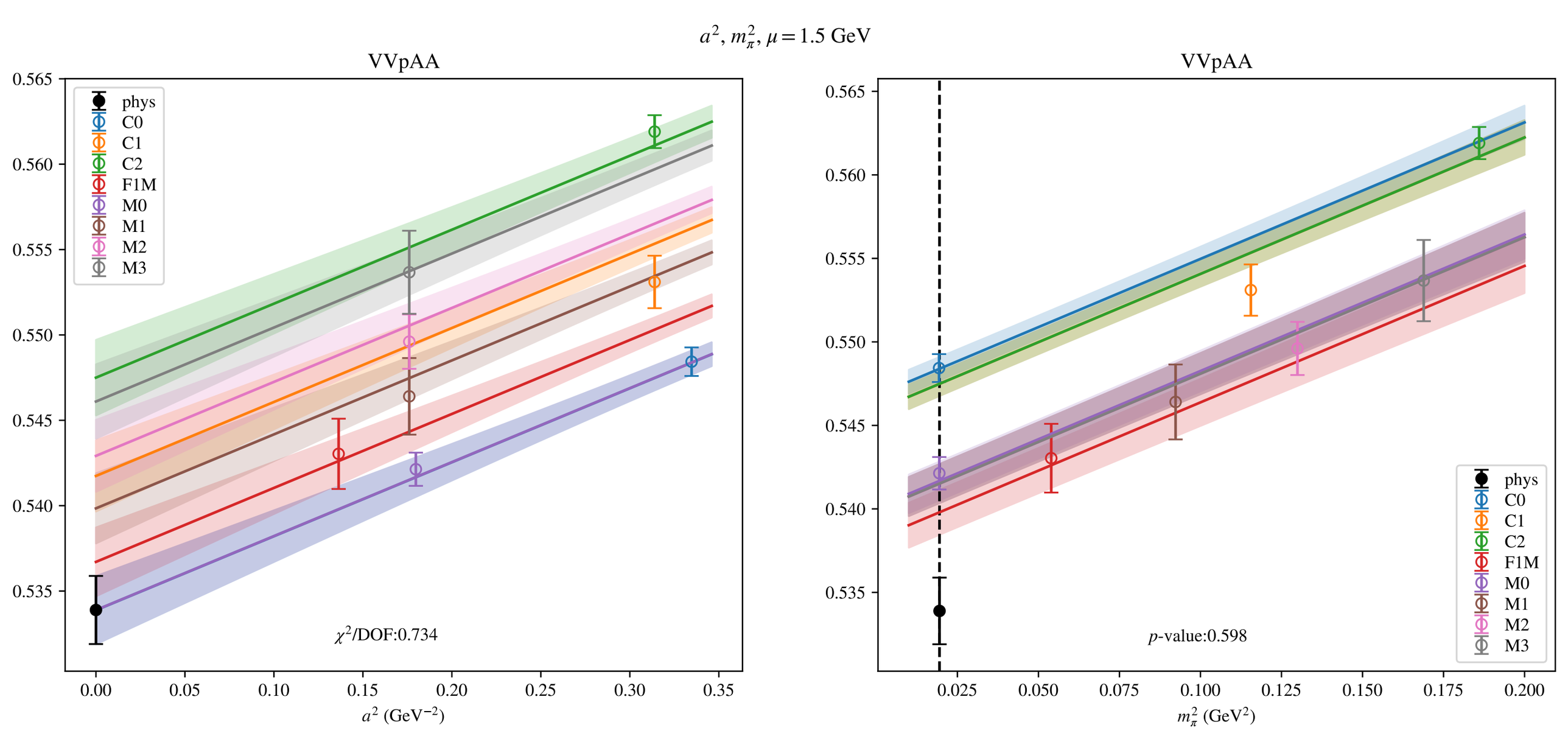

$a^2, m_\pi^2, \mu = 2.4$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:2.342
a^2 (GeV^{-2})
VVpAA
p-value:0.039
m_π^2 (GeV^2)

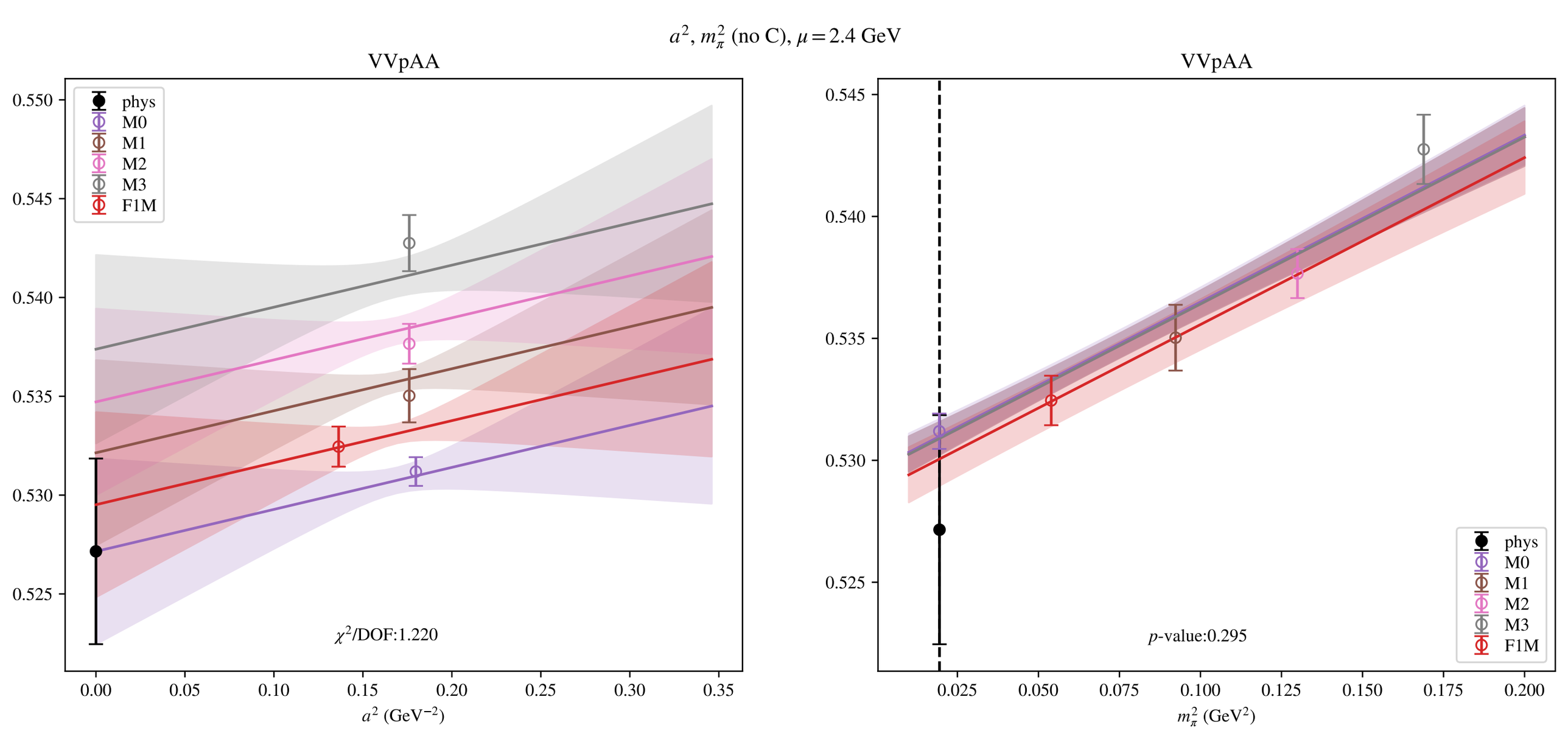

a^2, m_π^2, $\mu = 2.0$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.555
0.550
0.545
0.540
0.535
0.530
0.525
χ^2/DOF:1.838
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVpAA
p-value:0.102
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

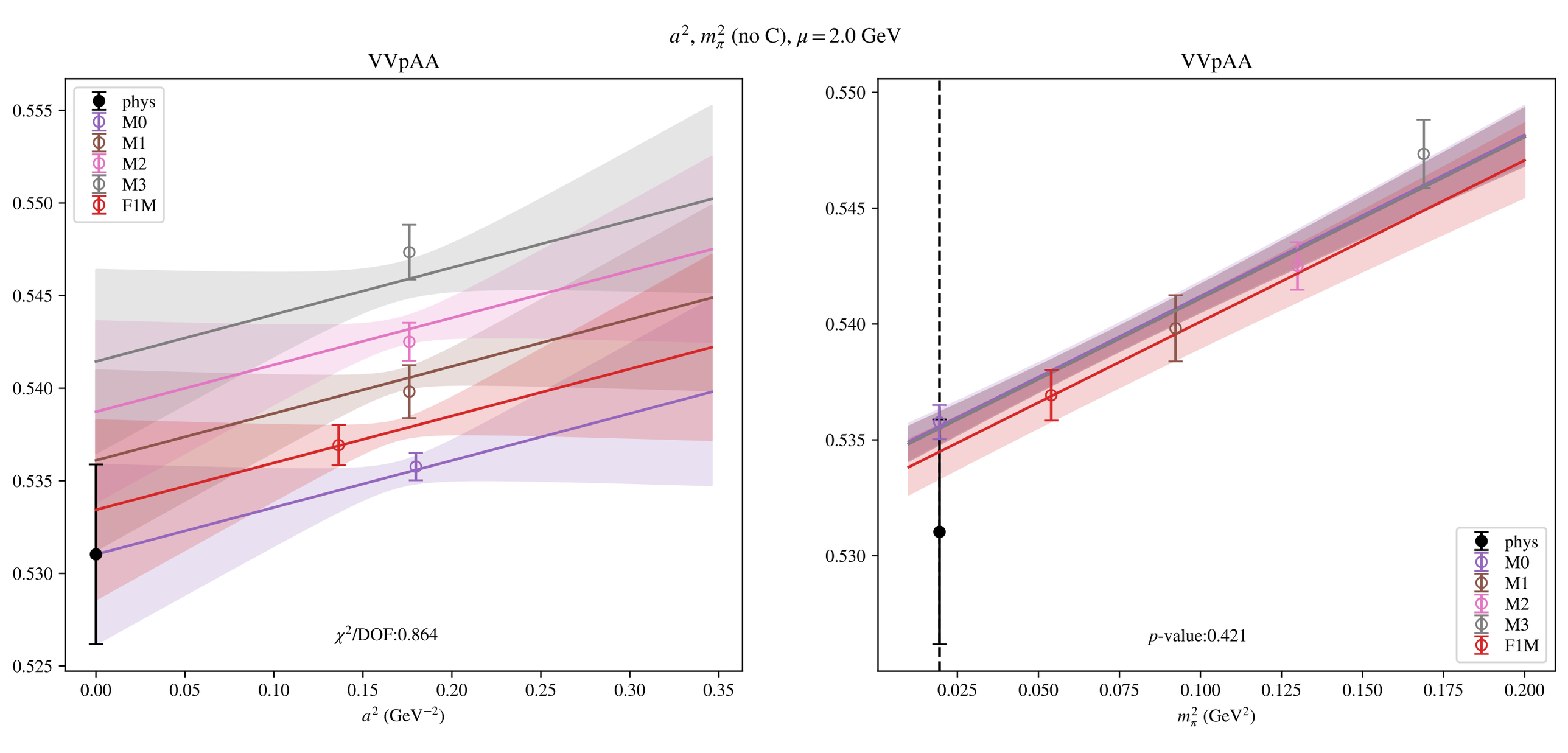
a^2, m_π^2, $\mu = 1.8$ GeV

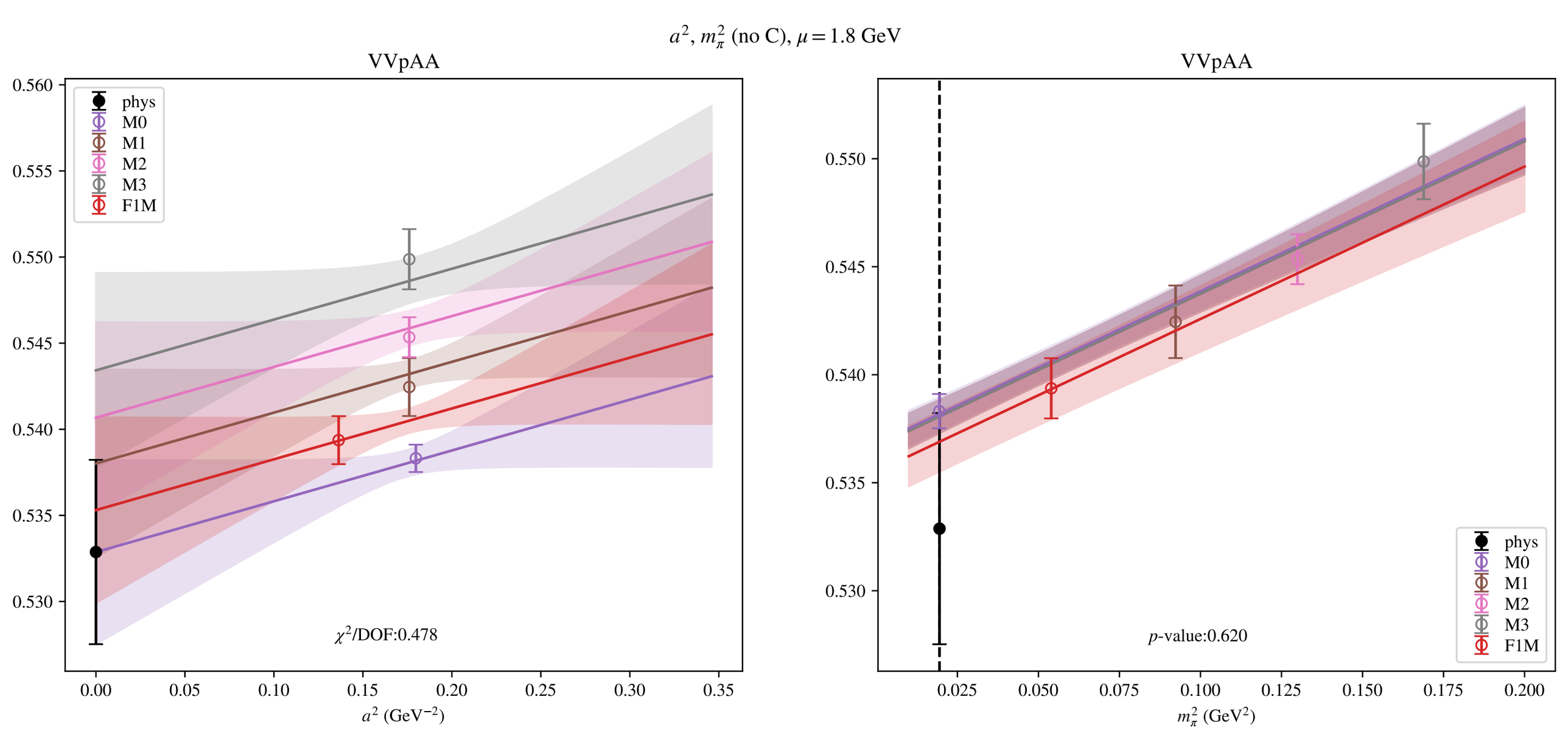


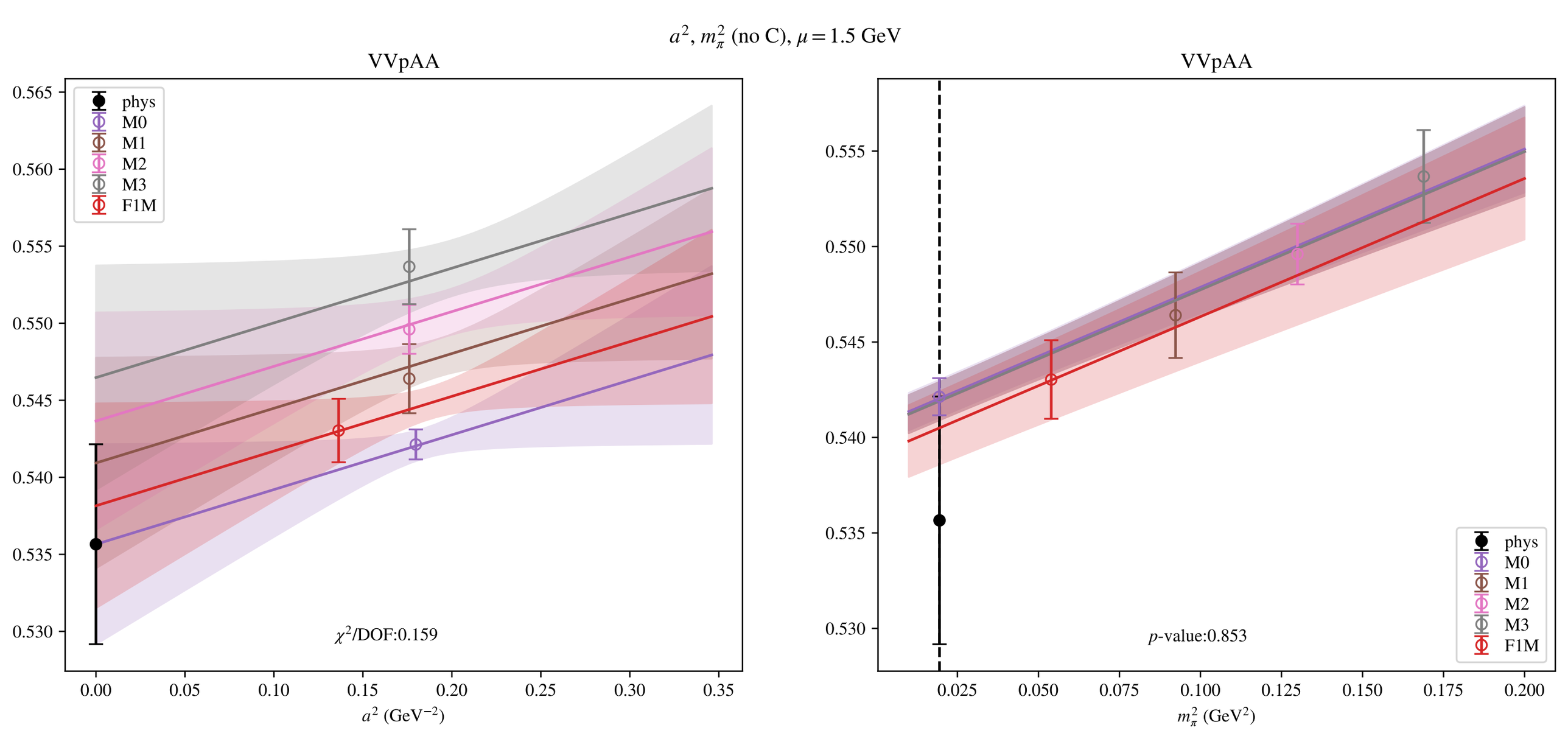



$a^2, m_\pi^2, \mu = 1.5$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:0.734
a^2 (GeV^{-2})
VVpAA
p-value:0.598
m_π^2 (GeV^2)

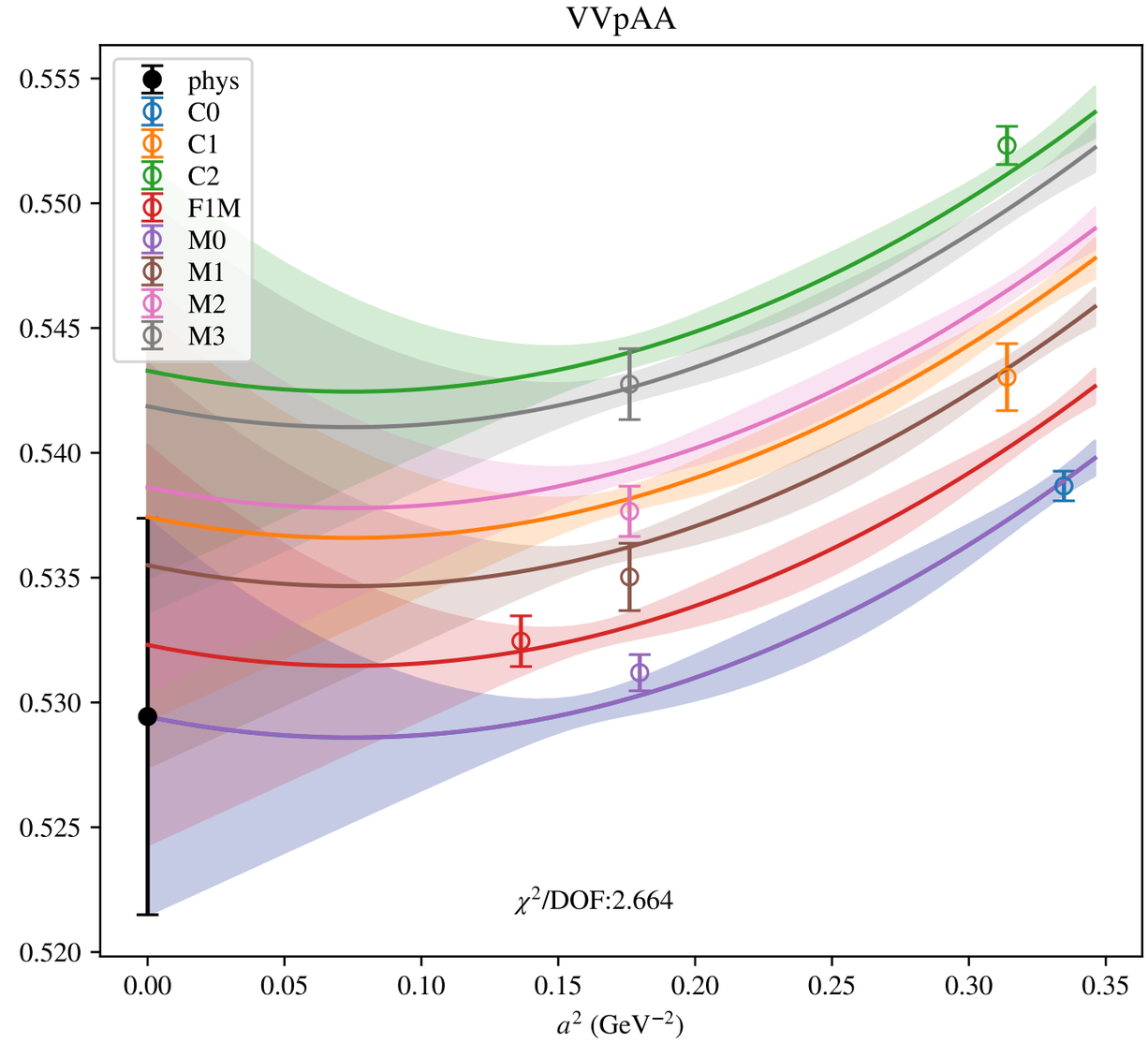

a^2, m_π^2 (no C), $\mu = 2.4$ GeV
VVpAA
phys
M0
M1
M2
M3
F1M
0.550
0.545
0.540
0.535
0.530
0.525
χ^2/DOF:1.220
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVpAA
0.545
0.540
0.535
0.530
0.525
p-value:0.295
phys
M0
M1
M2
M3
F1M
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

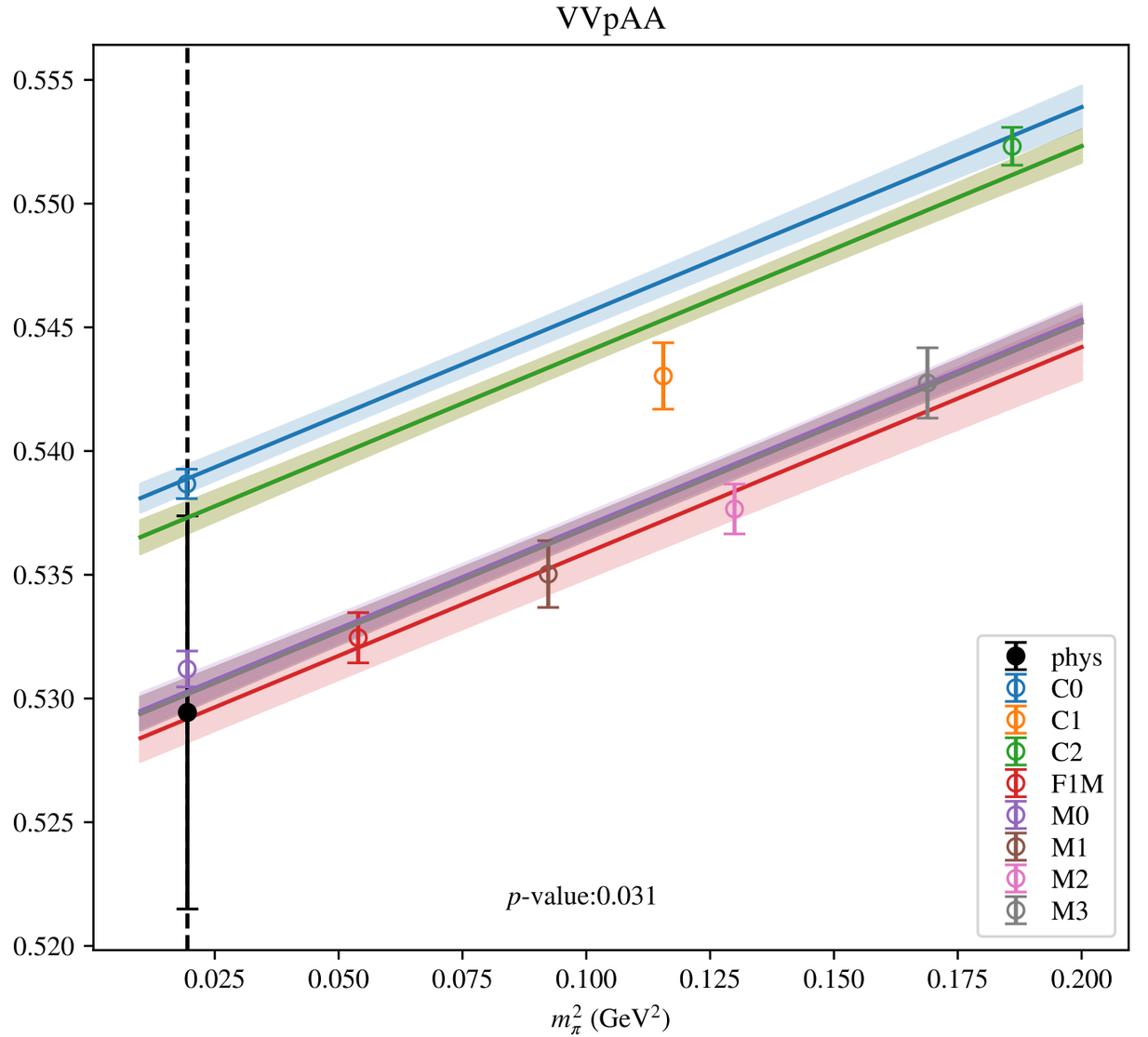

a^2, m_π^2 (no C), $\mu = 2.0$ GeV
VVpAA
phys
M0
M1
M2
M3
F1M
0.555
0.550
0.545
0.540
0.535
0.530
0.525
χ^2/DOF:0.864
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVpAA
0.550
0.545
0.540
0.535
0.530
p-value:0.421
phys
M0
M1
M2
M3
F1M
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

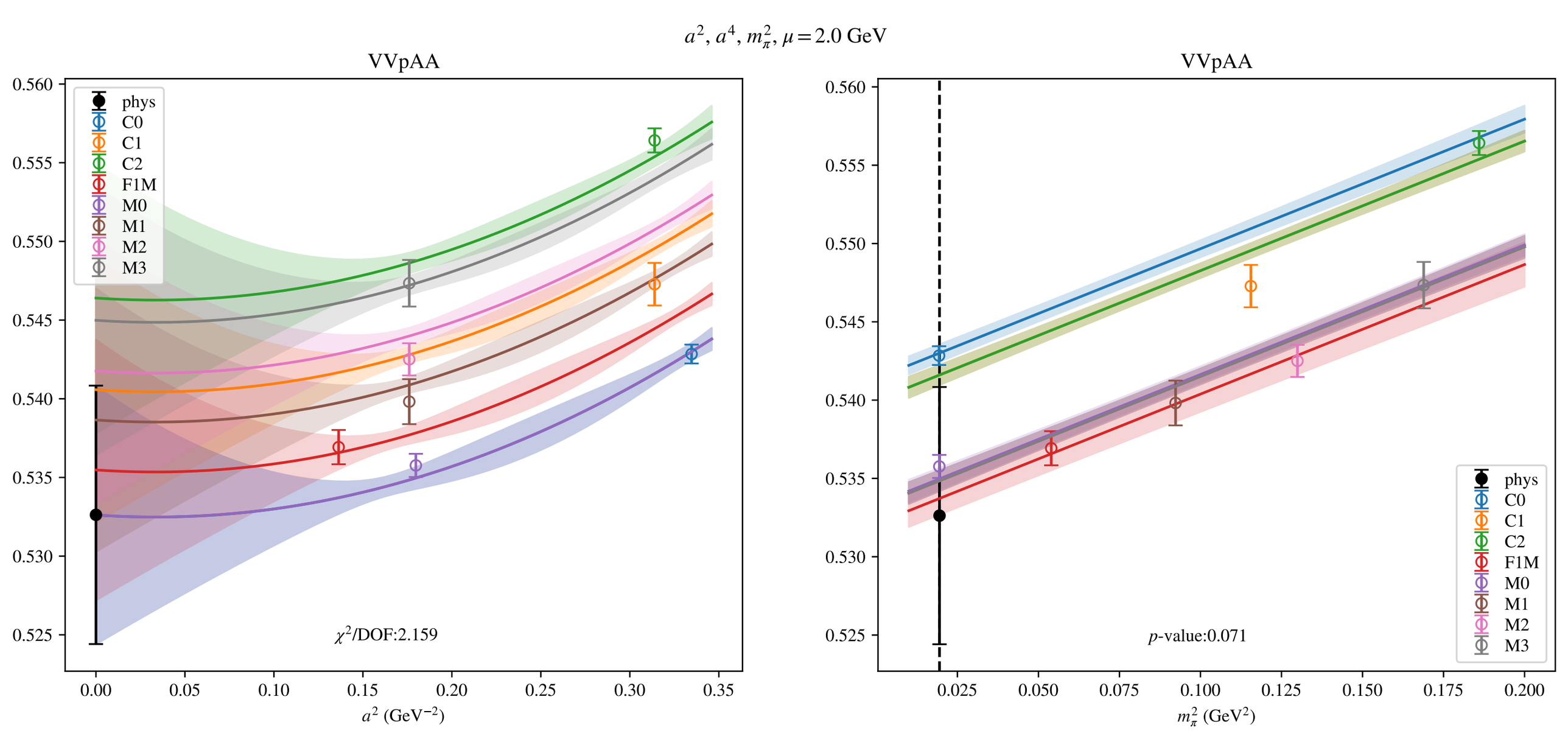

a^2, m_π^2 (no C), $\mu = 1.8$ GeV
VVpAA
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.478
a^2 (GeV^{-2})
VVpAA
p-value:0.620
m_π^2 (GeV^2)

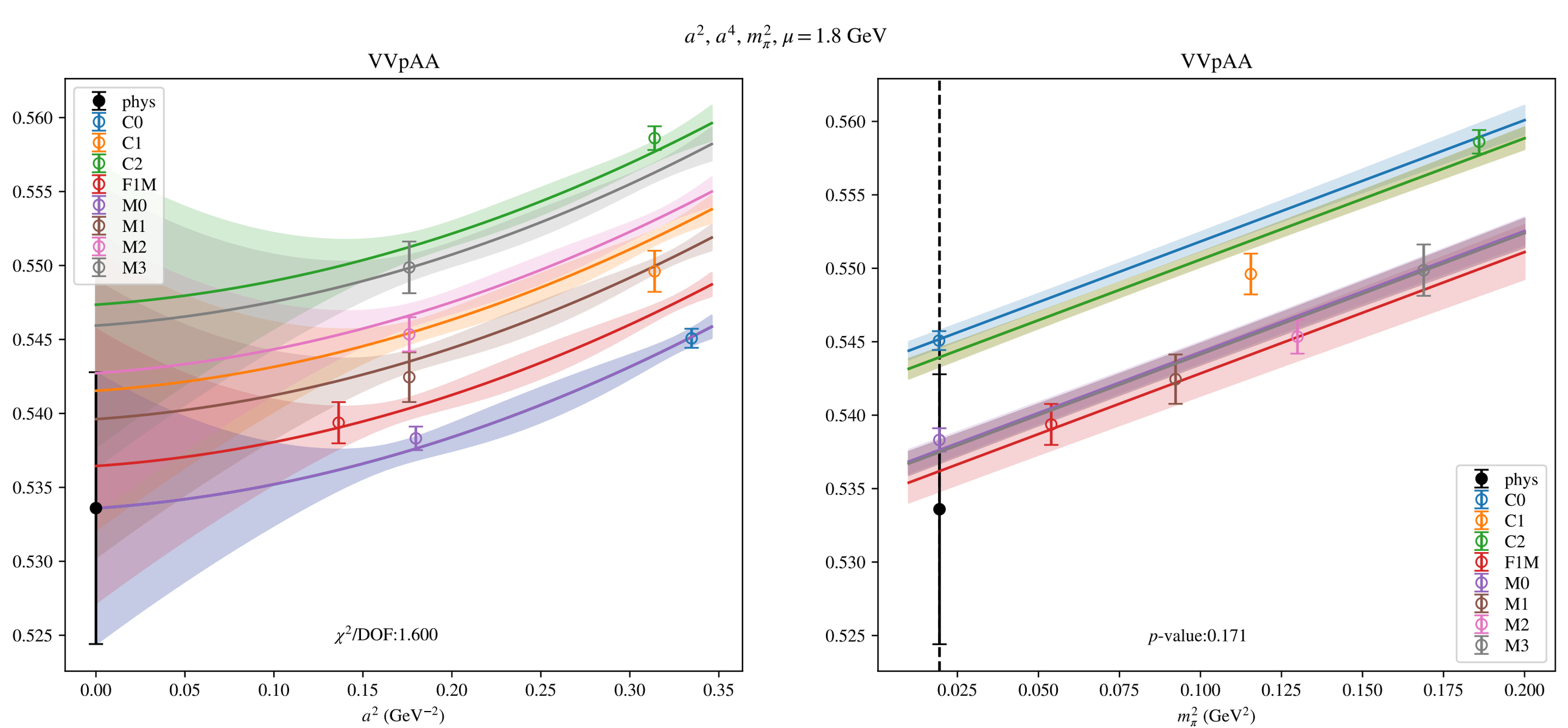

a^2, m_π^2 (no C), $\mu = 1.5$ GeV
VVpAA
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.159
a^2 (GeV^{-2})
VVpAA
p-value:0.853
m_π^2 (GeV^2)

$a^2, a^4, m_\pi^2, \mu = 2.4$ GeV

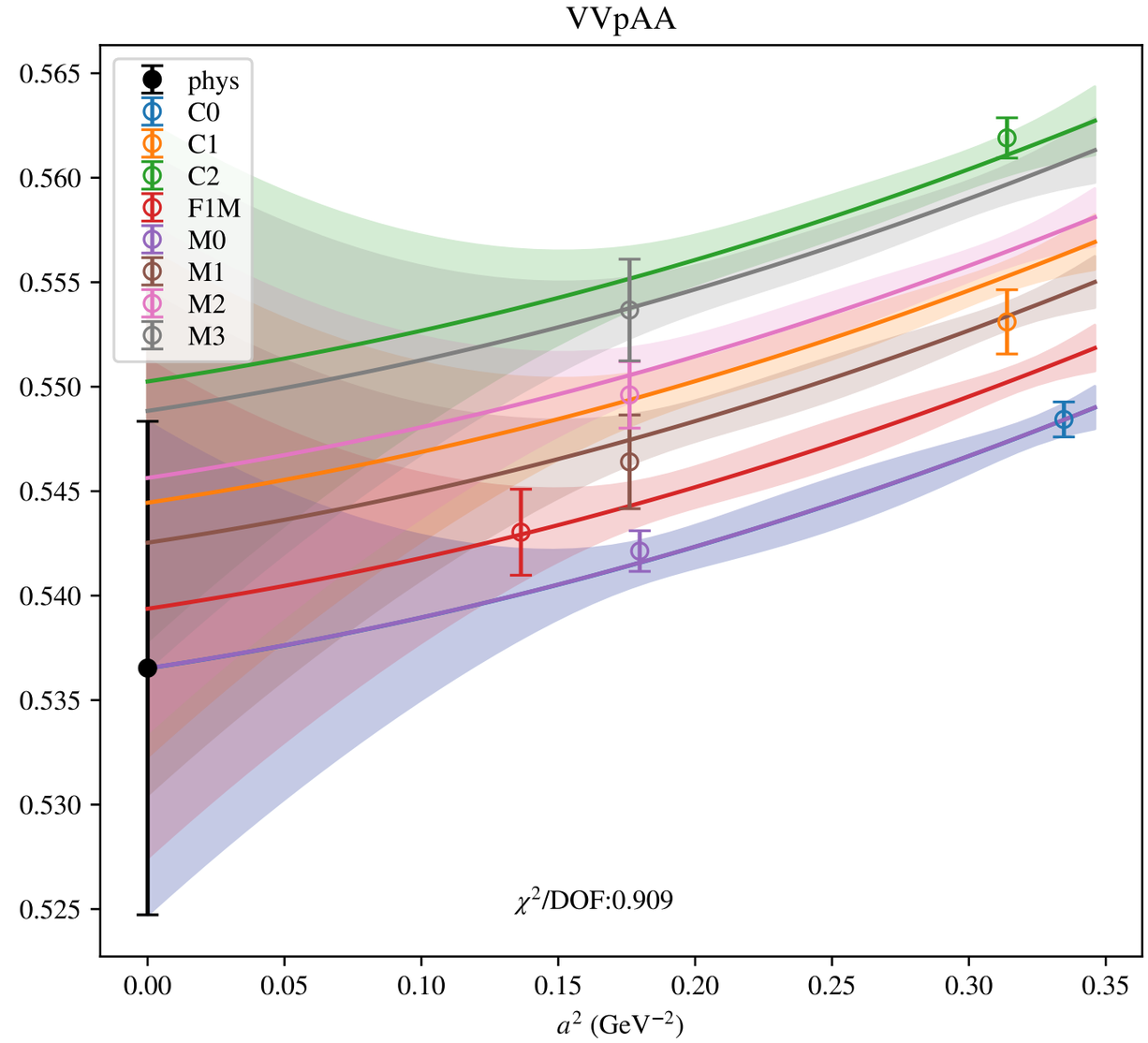


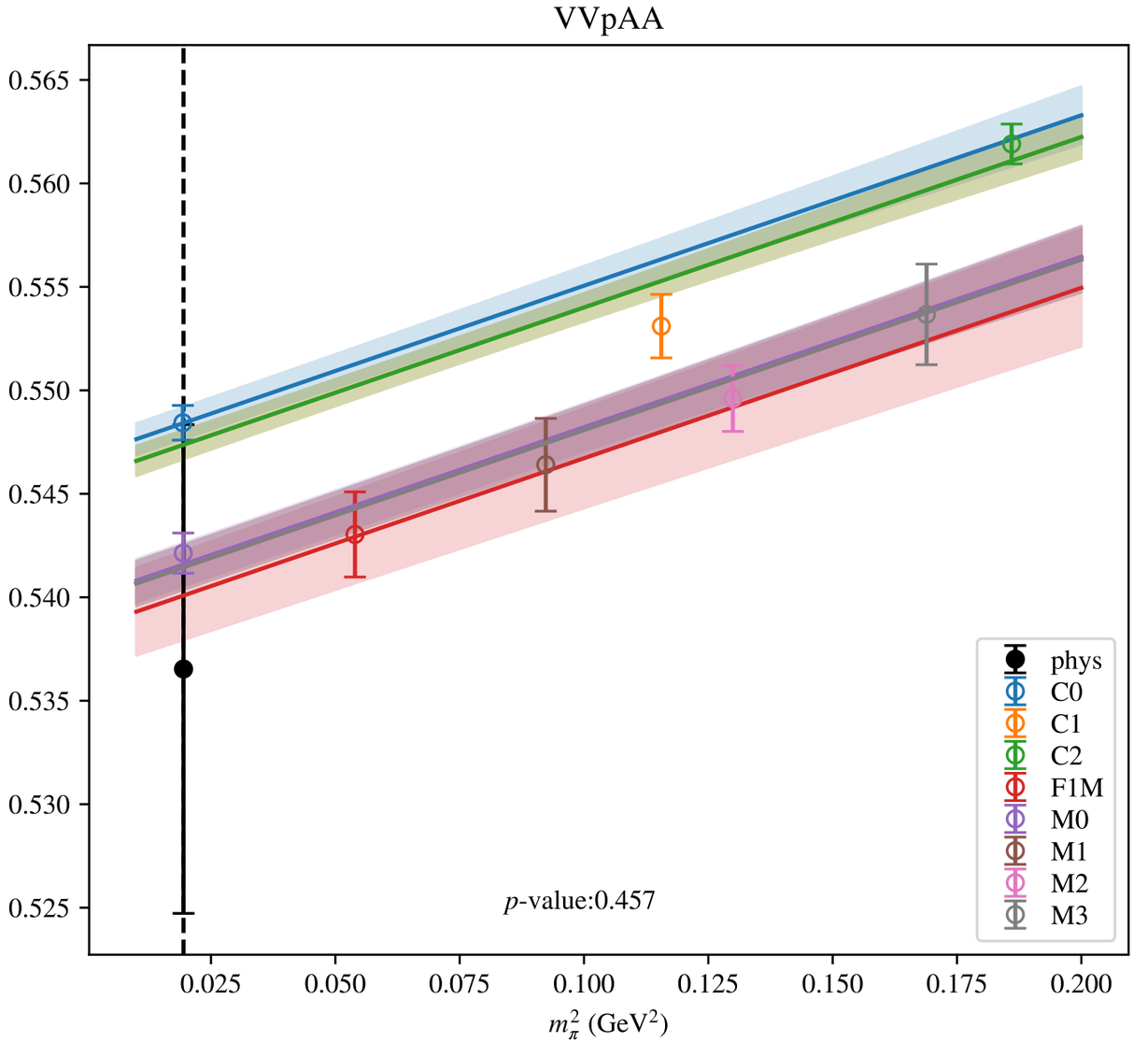



$a^2, a^4, m_\pi^2, \mu = 2.0$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:2.159
a^2 (GeV^{-2})
VVpAA
p-value:0.071
m_π^2 (GeV^2)

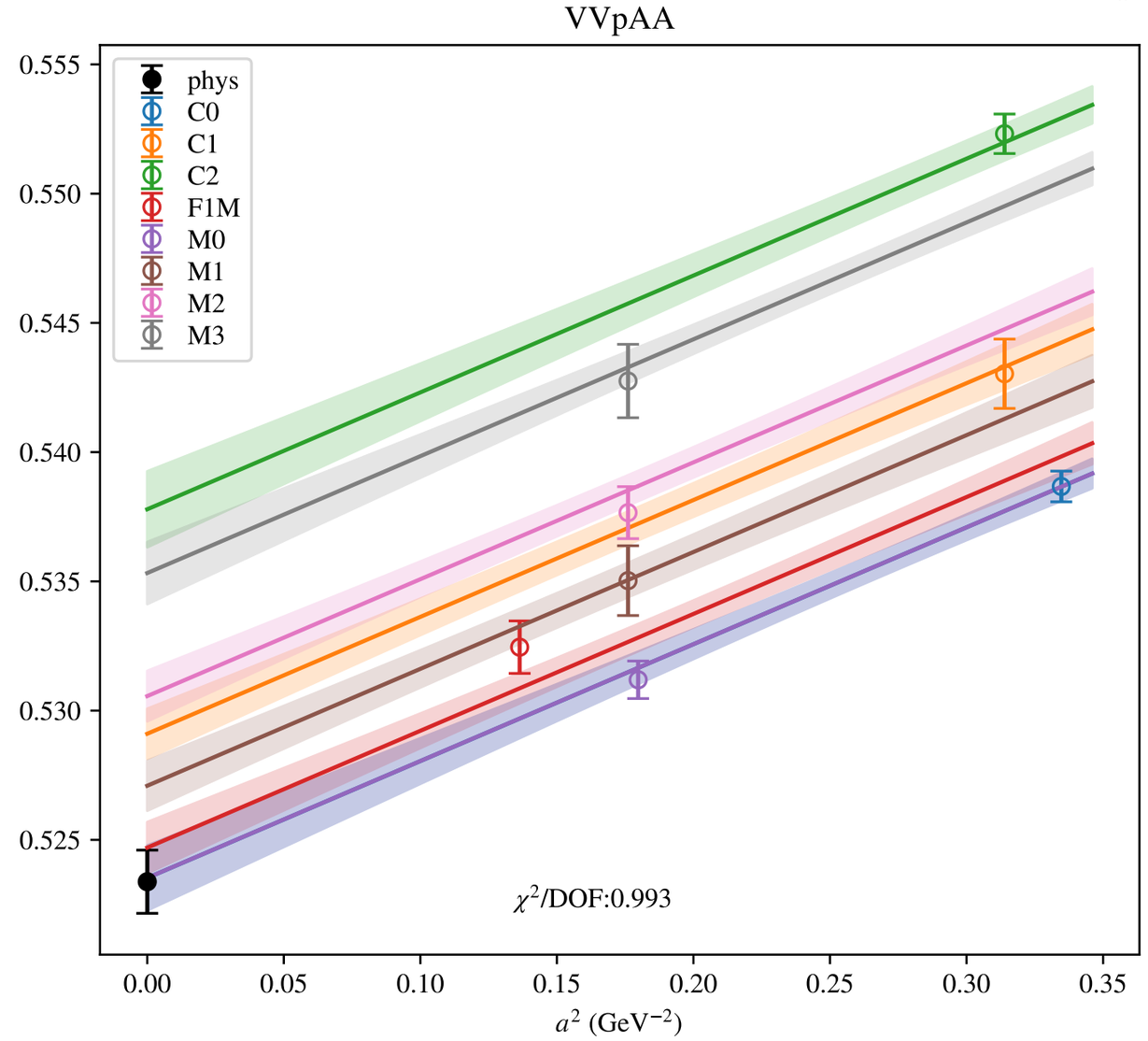

a^2, a^4, m_π^2, $\mu = 1.8$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.560
0.555
0.550
0.545
0.540
0.535
0.530
0.525
χ^2/DOF:1.600
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVpAA
p-value:0.171
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

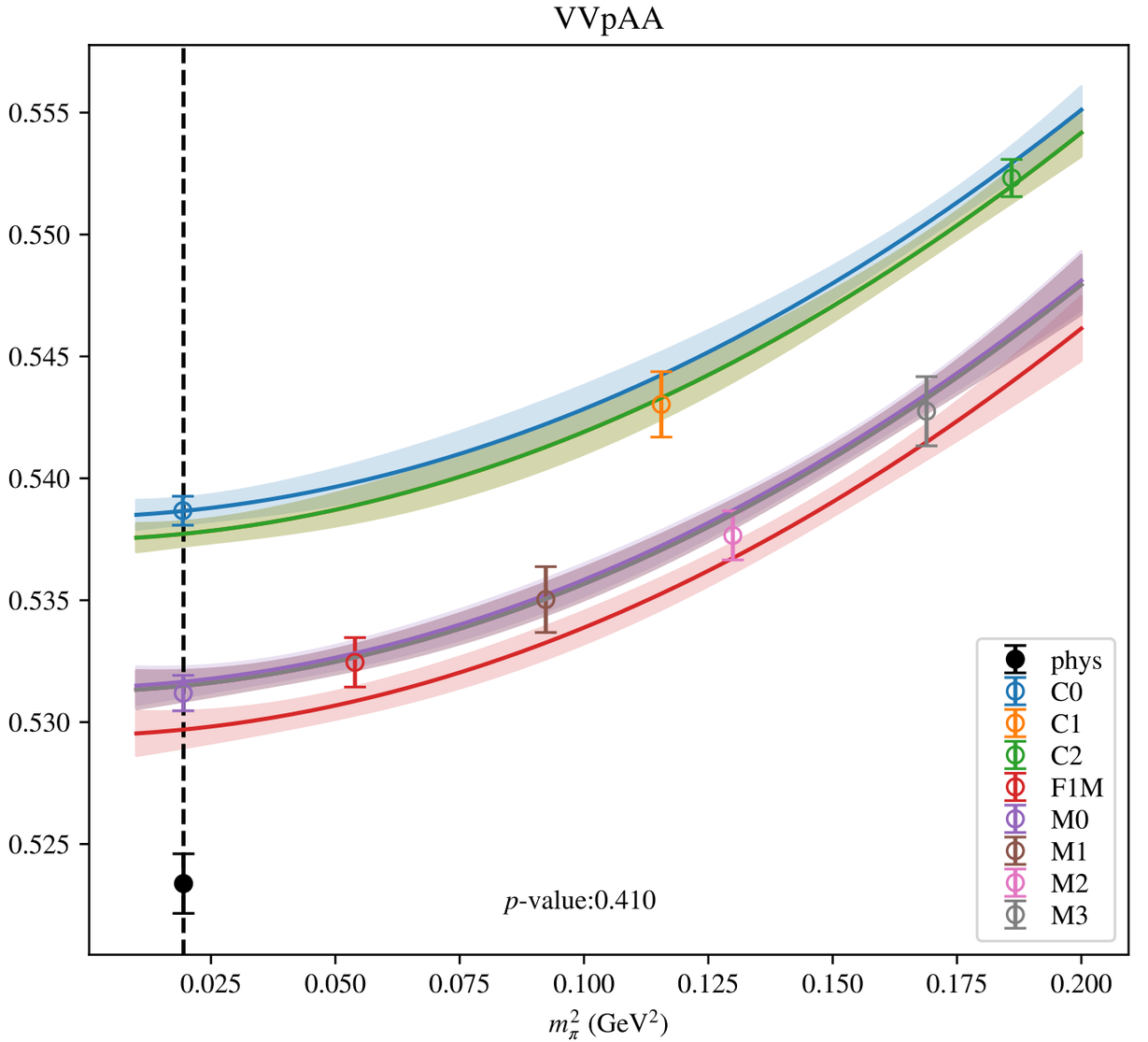
$a^2, a^4, m_\pi^2, \mu = 1.5$ GeV



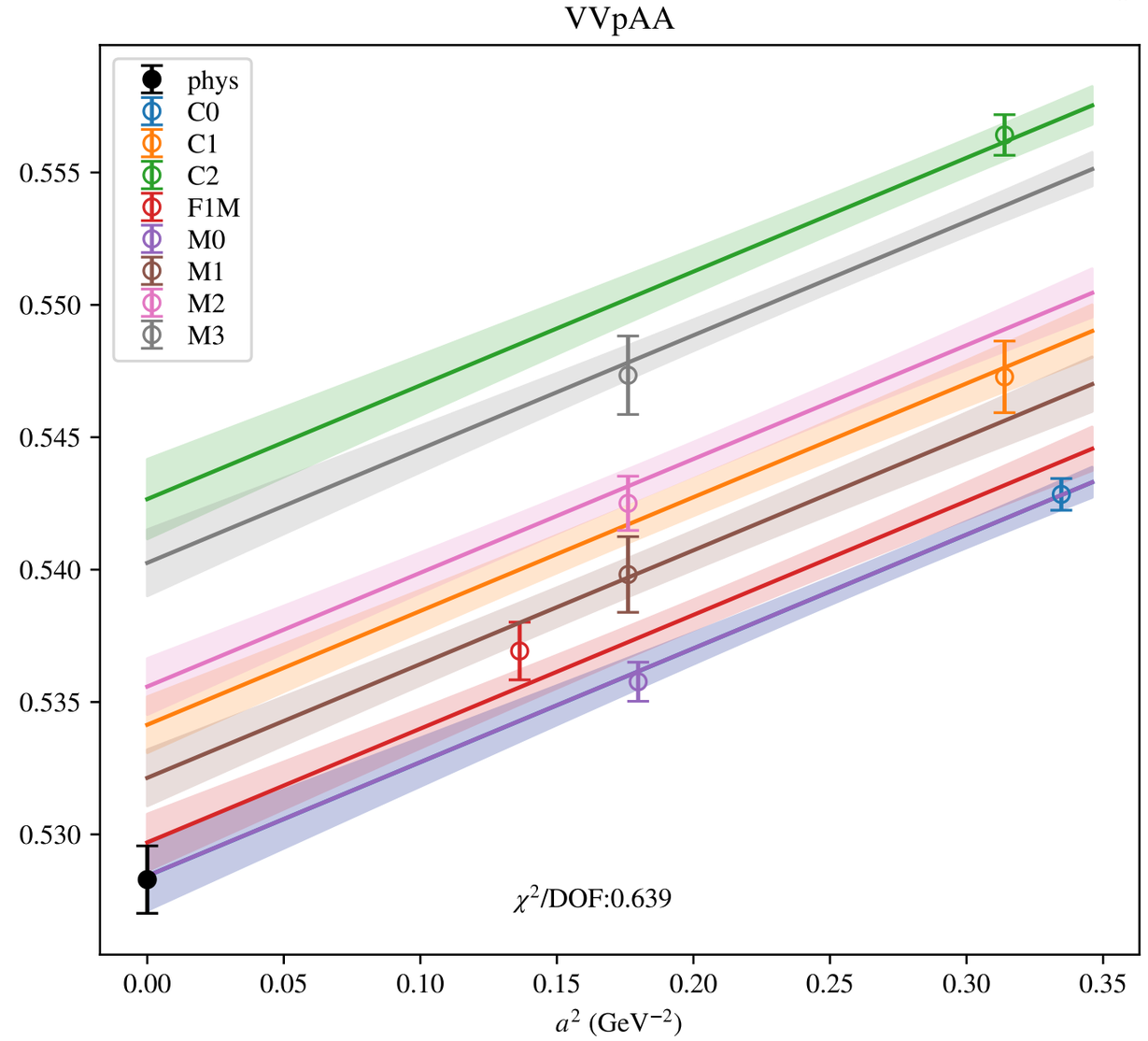


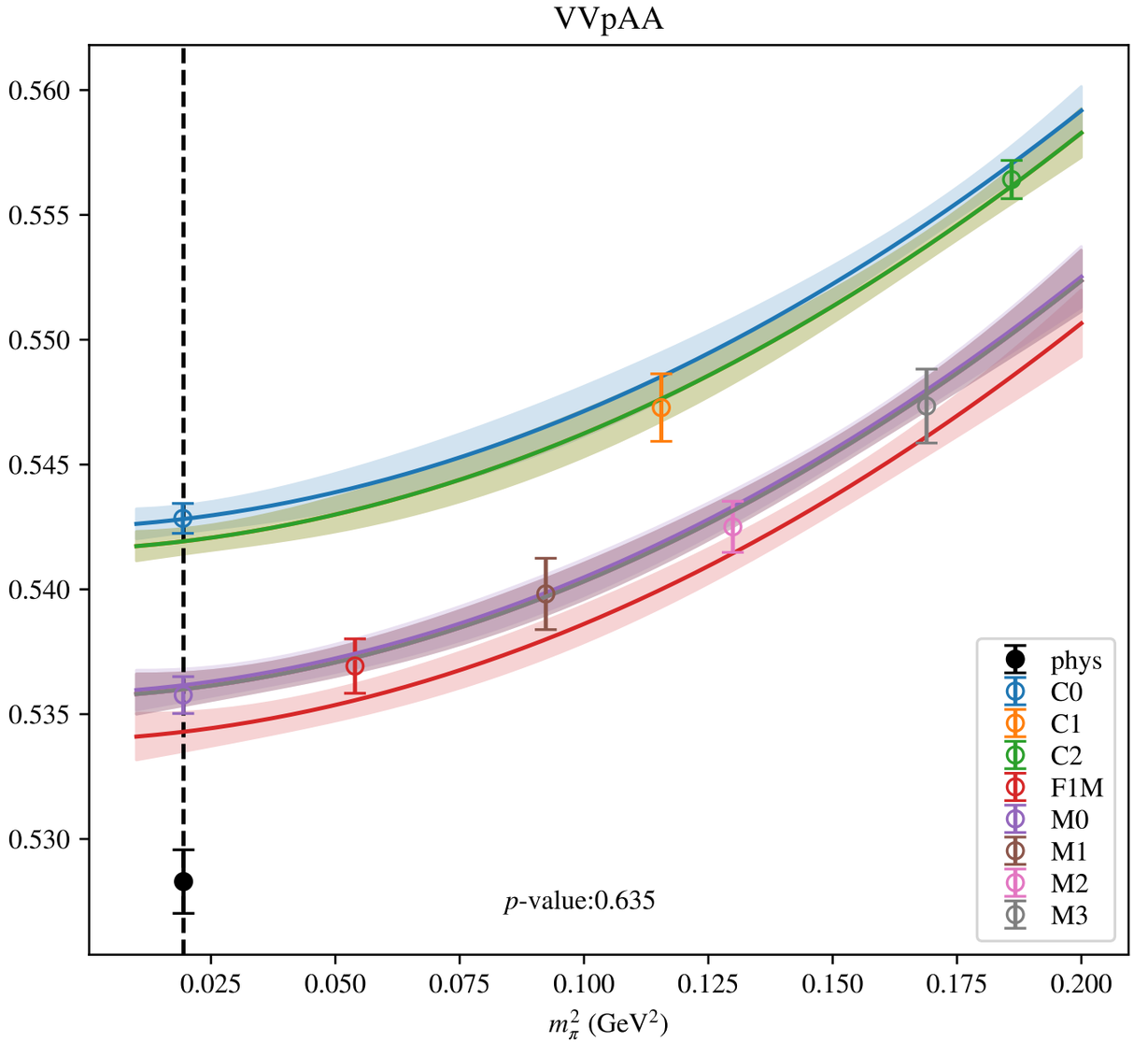
a^2, m_π^2, m_π^4, $\mu = 2.4$ GeV

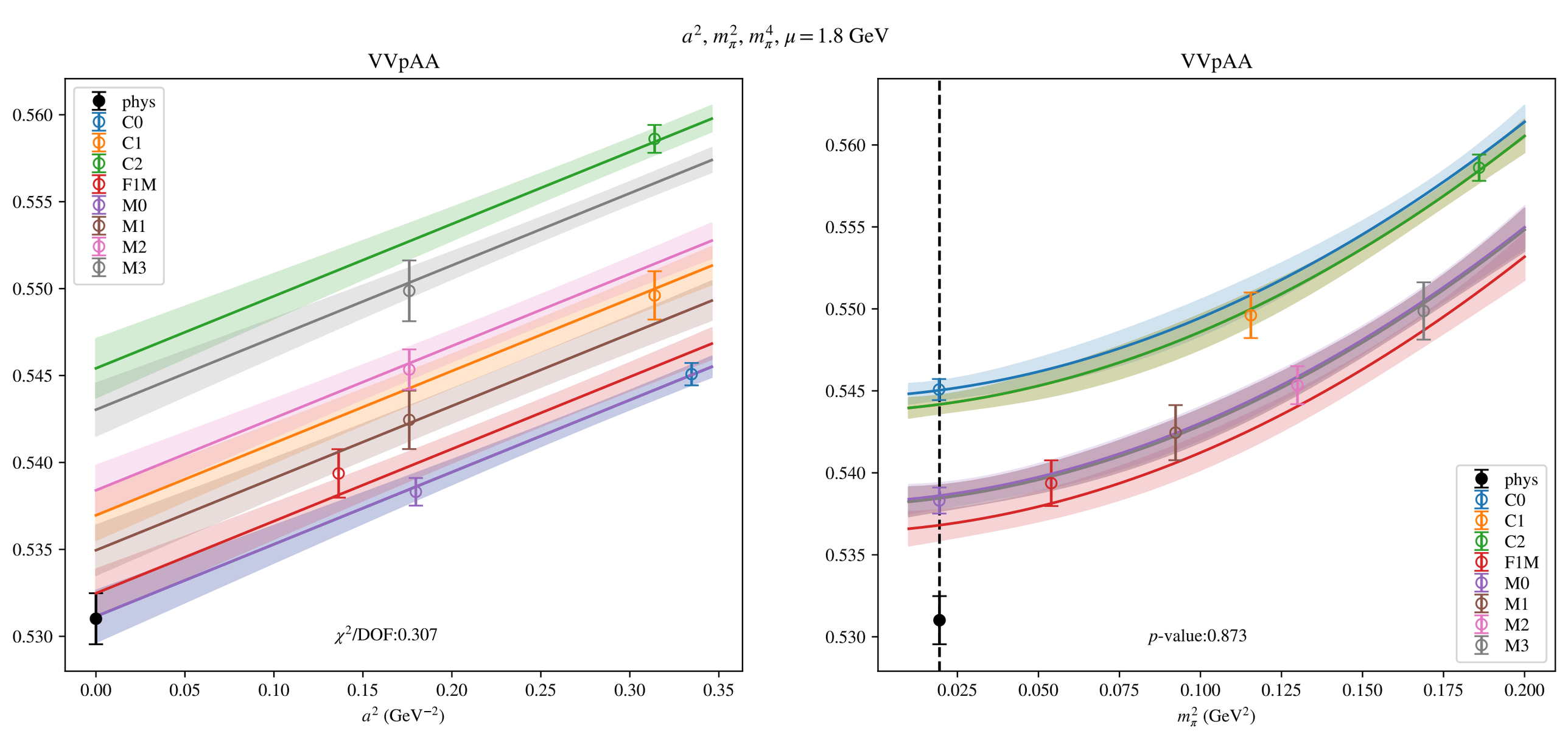


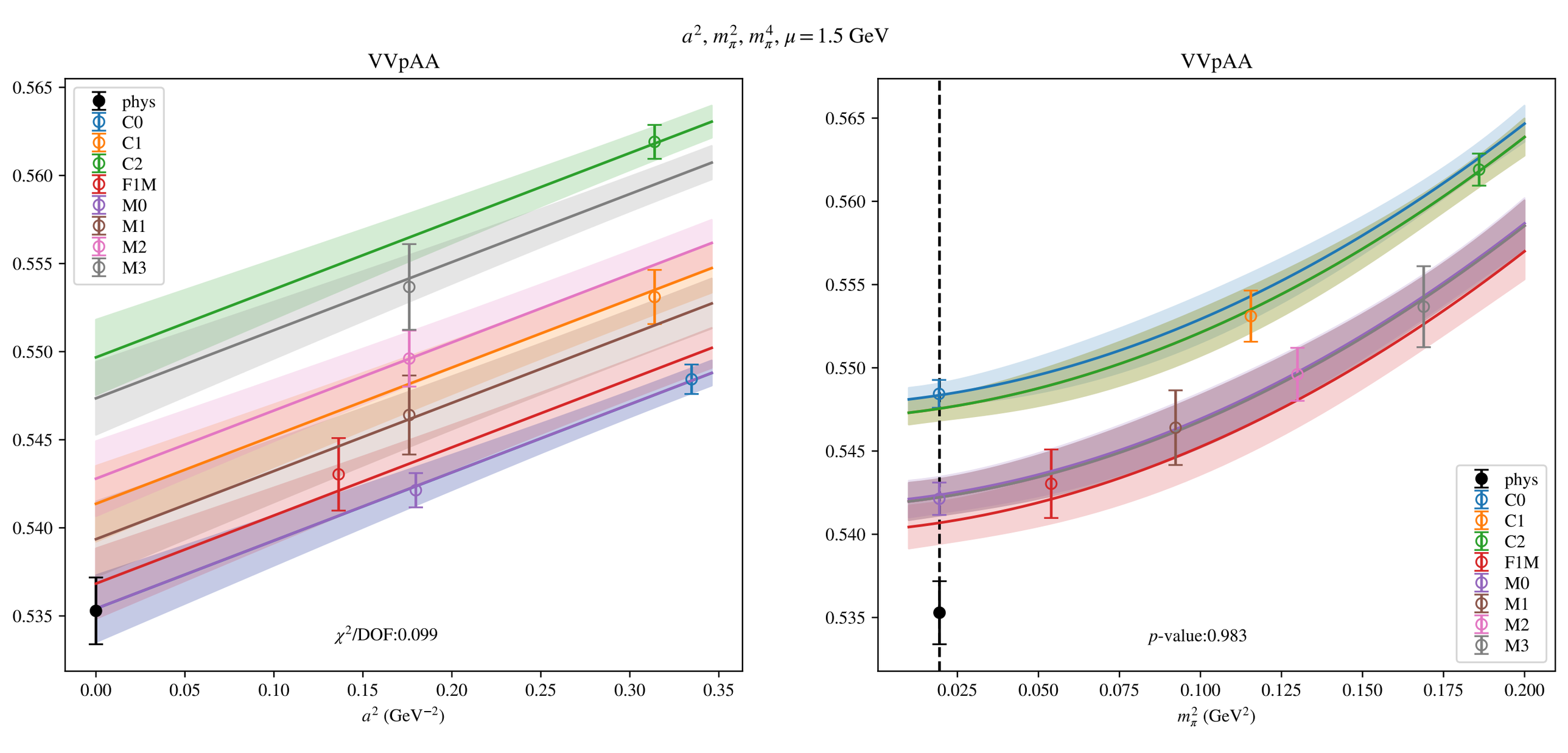


a^2, m_π^2, m_π^4, $\mu = 2.0$ GeV

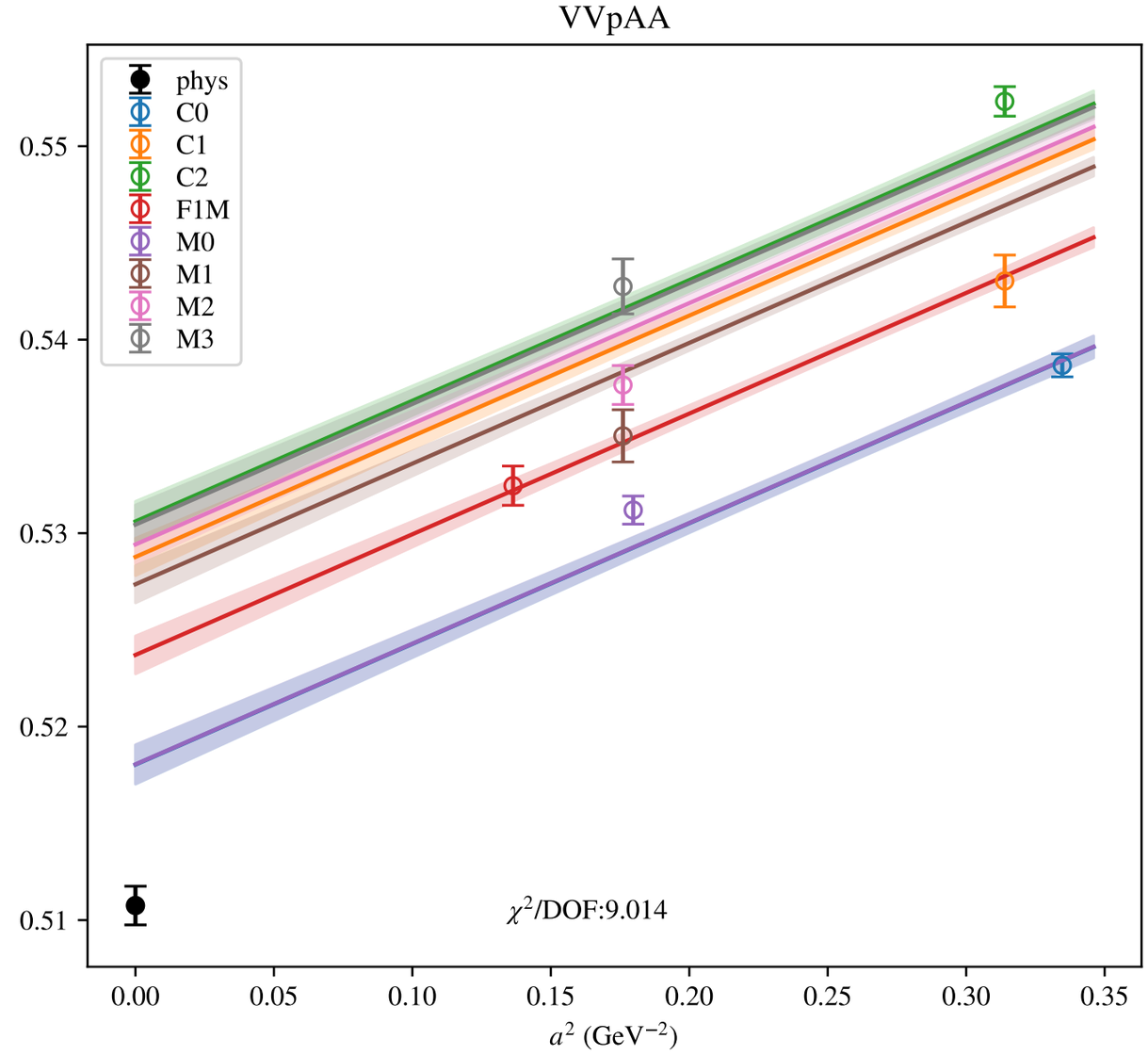


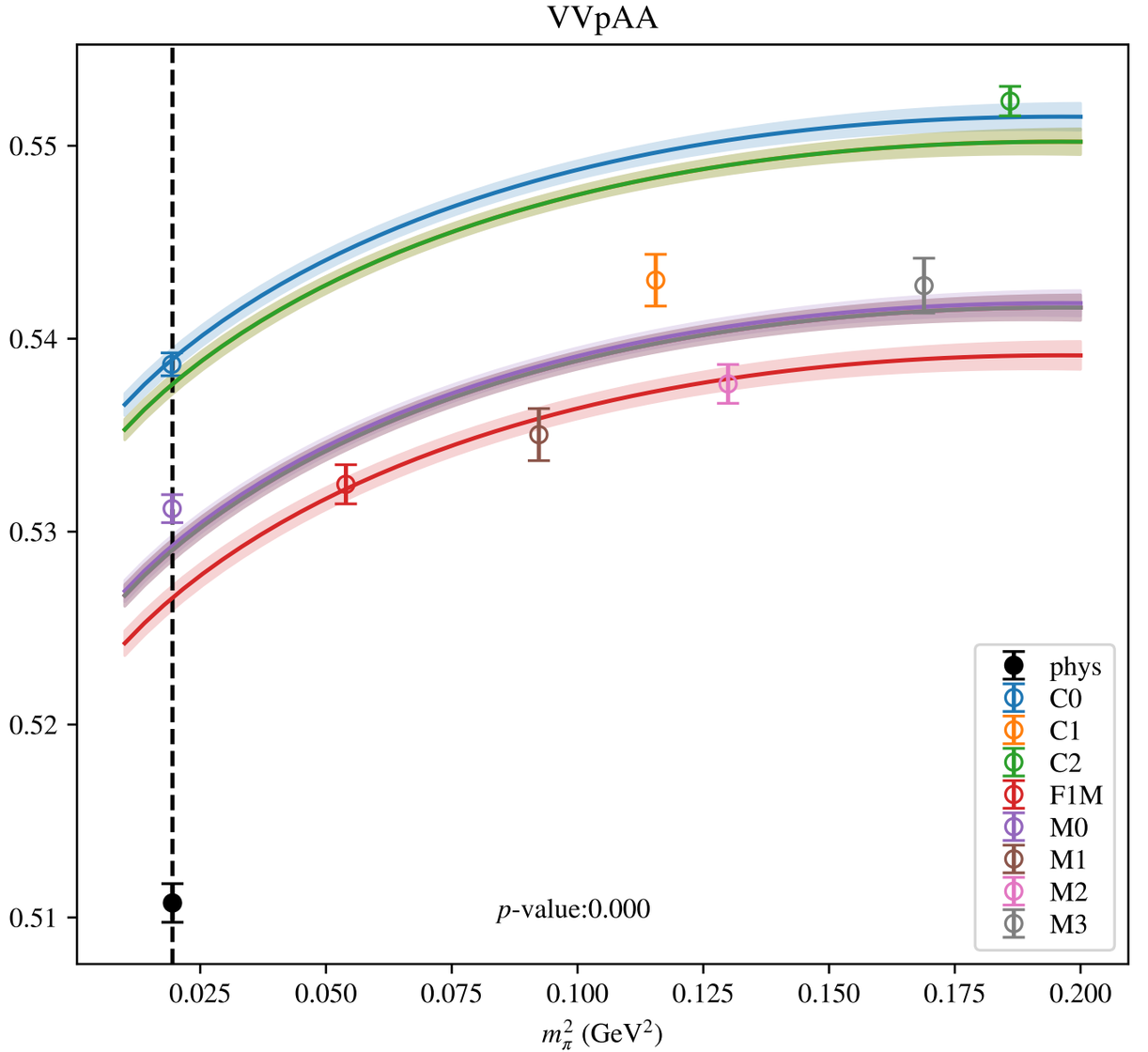


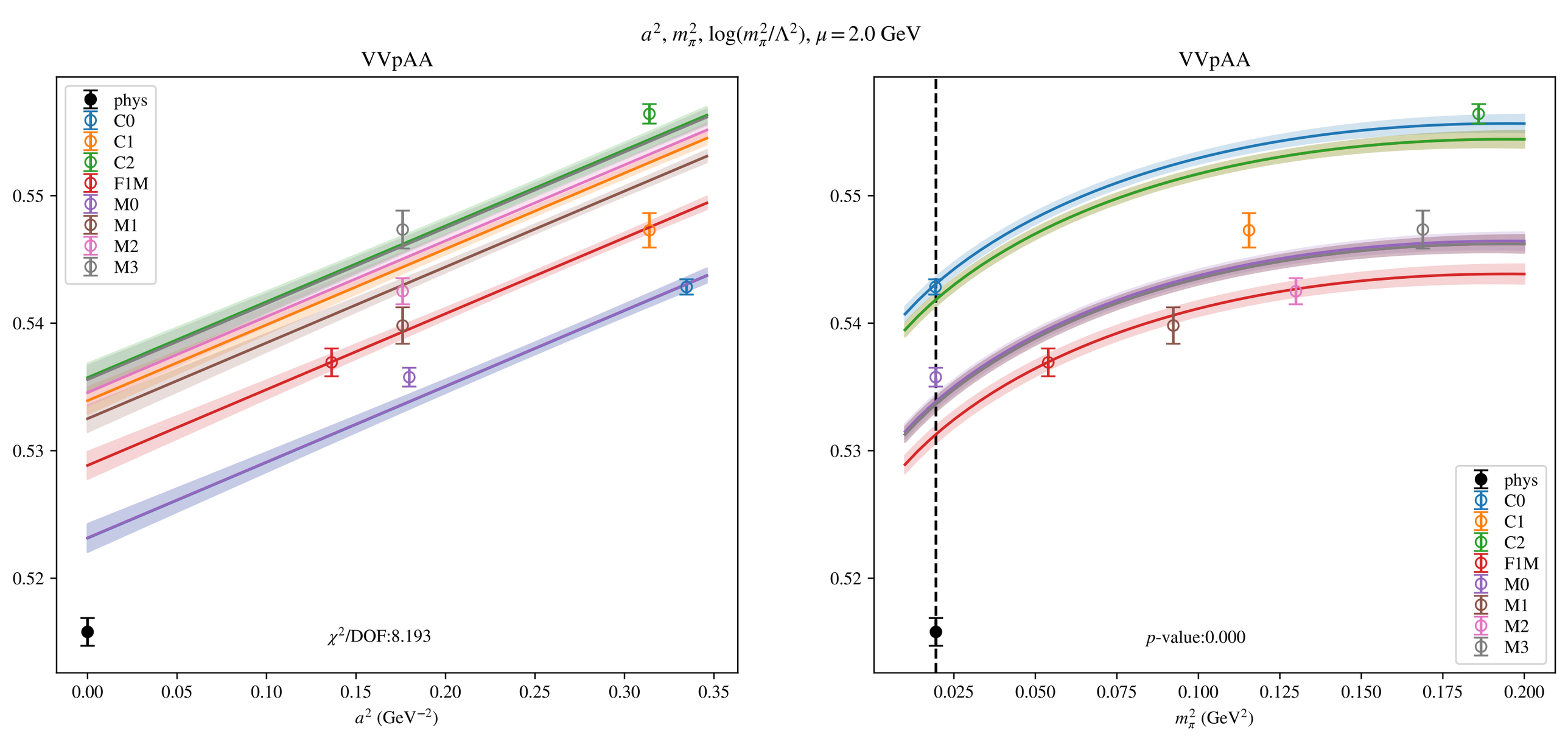

$a^2, m_\pi^2, m_\pi^4, \mu = 1.8$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.560
0.555
0.550
0.545
0.540
0.535
0.530
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
χ^2/DOF:0.307
VVpAA
0.560
0.555
0.550
0.545
0.540
0.535
0.530
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)
p-value:0.873
phys
C0
C1
C2
F1M
M0
M1
M2
M3

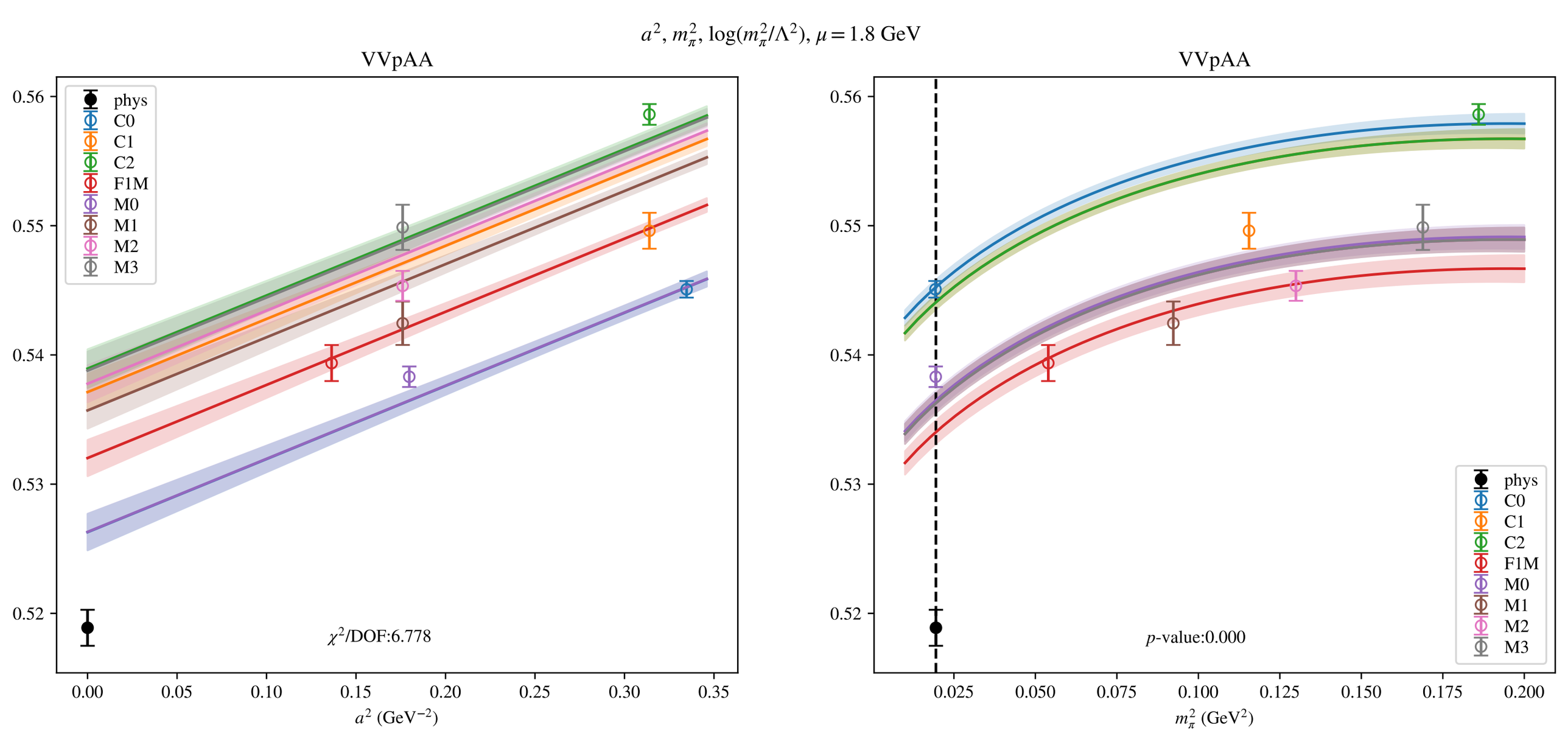

$a^2, m_\pi^2, m_\pi^4, \mu = 1.5$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:0.099
a^2 (GeV^{-2})
VVpAA
p-value:0.983
m_π^2 (GeV^2)

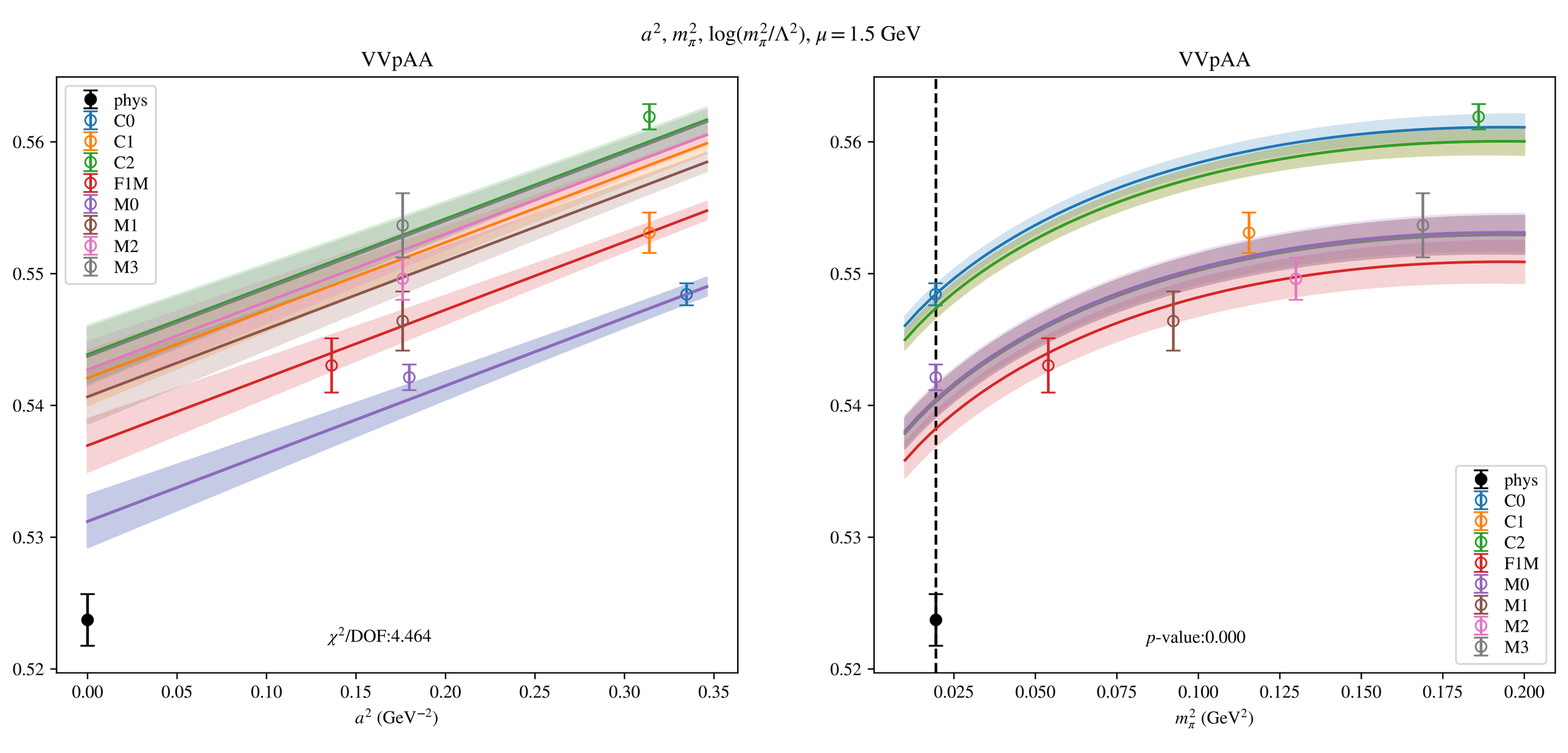
a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.4$ GeV






a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.0$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.55
0.54
0.53
0.52
χ^2/DOF:8.193
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVpAA
0.55
0.54
0.53
0.52
p-value:0.000
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.8$ GeV
VVpAA
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:6.778
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.52
0.53
0.54
0.55
0.56
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.5$ GeV
VVpAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.56
0.55
0.54
0.53
0.52
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
χ^2/DOF:4.464
VVpAA
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)
p-value:0.000

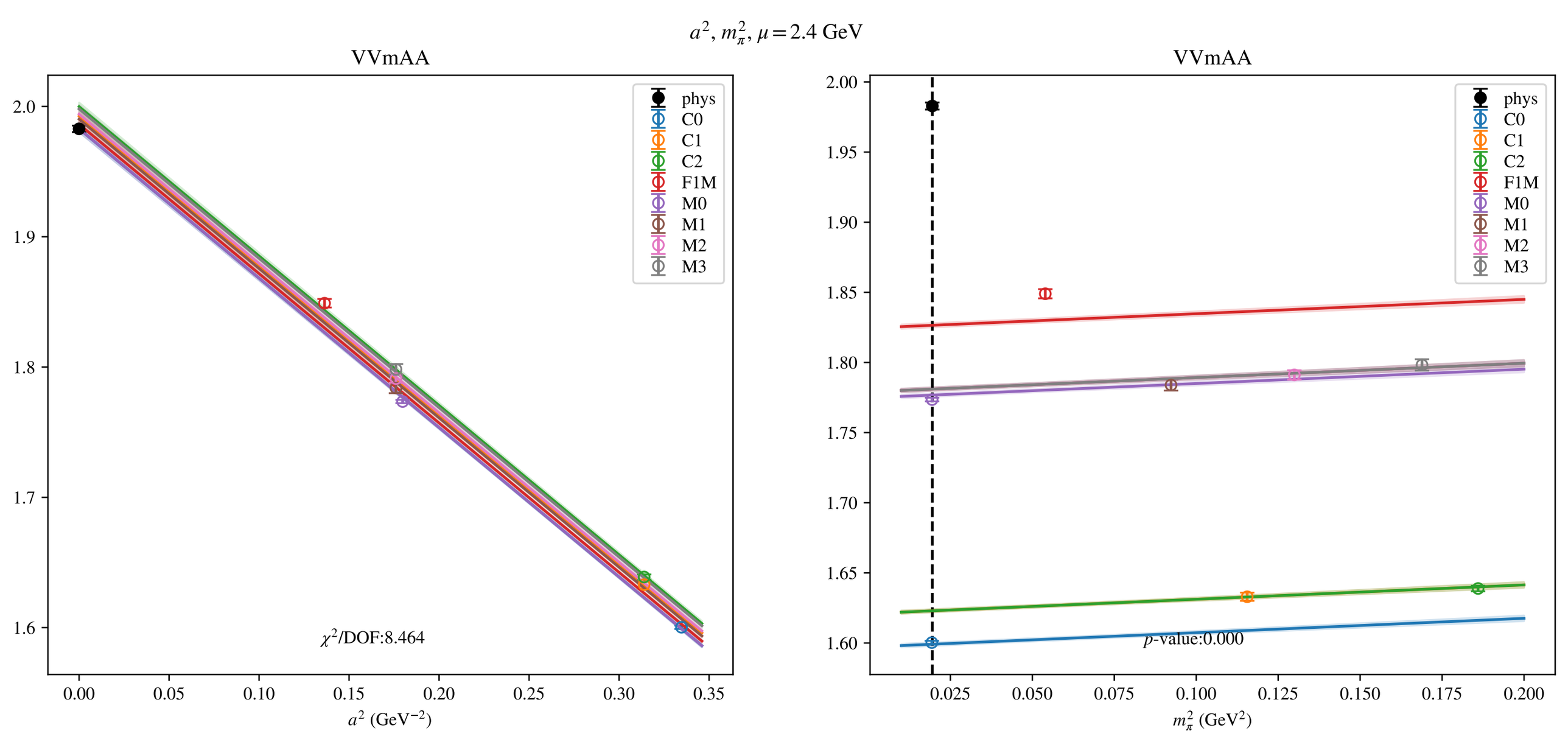
2 VVmAA

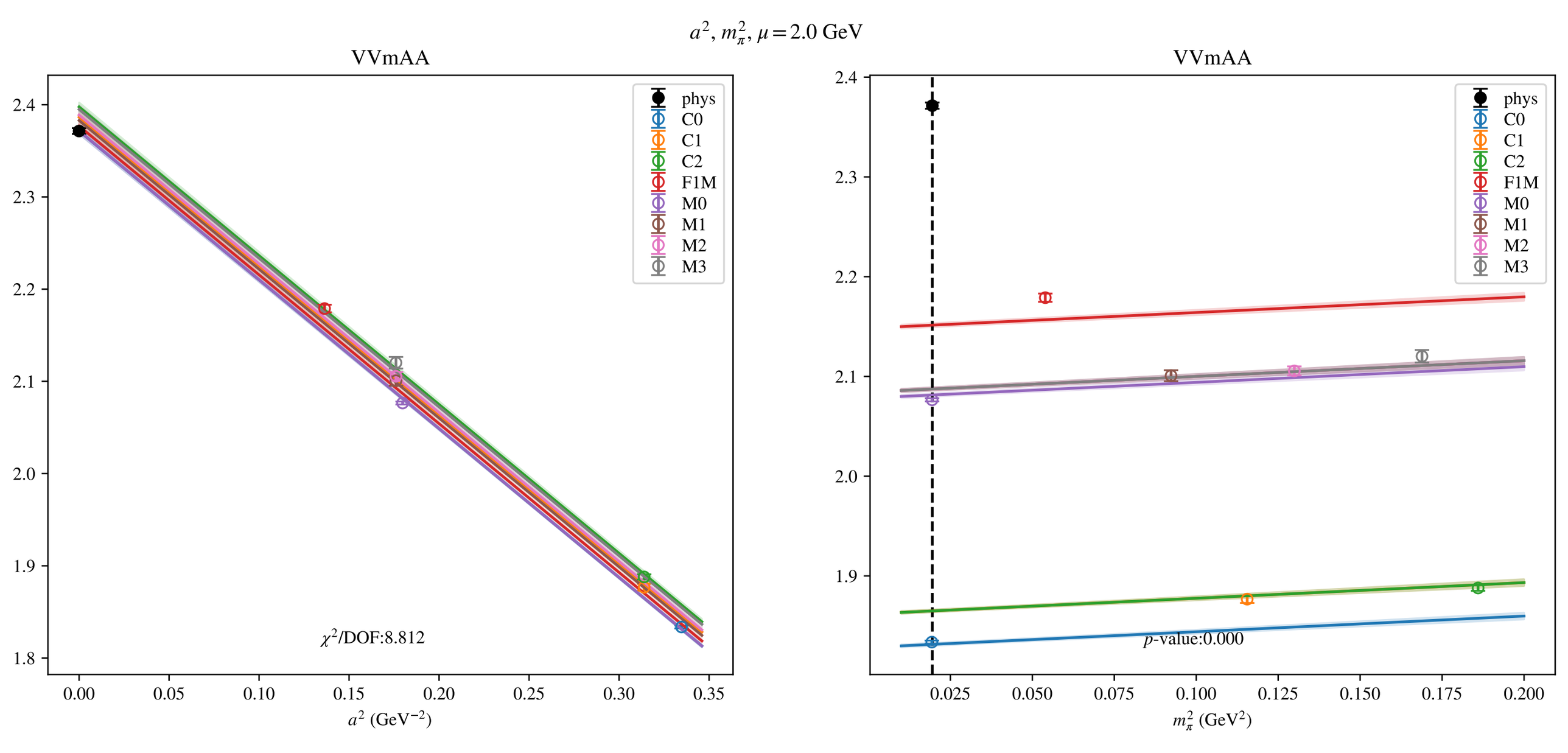
μ (GeV)	a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	**1.9828(25)**: 8.464 (0.0)	**2.070(13)**: 0.597 (0.55)	**2.122(21)**: 0.86 (0.487)	**1.9810(25)**: 9.602 (0.0)	**1.9481(24)**: 9.563 (0.0)
2.0	**2.3714(31)**: 8.812 (0.0)	**2.470(16)**: 0.354 (0.702)	**2.555(26)**: 0.418 (0.796)	**2.3688(31)**: 9.437 (0.0)	**2.3307(31)**: 8.041 (0.0)
1.8	**2.5968(42)**: 8.923 (0.0)	**2.692(19)**: 0.993 (0.371)	**2.821(31)**: 2.489 (0.041)	**2.5945(40)**: 10.51 (0.0)	**2.5516(41)**: 9.637 (0.0)
1.5	**2.9376(65)**: 9.386 (0.0)	**3.026(26)**: 1.469 (0.23)	**3.232(43)**: 5.497 (0.0)	**2.9360(58)**: 11.616 (0.0)	**2.8854(64)**: 10.9 (0.0)

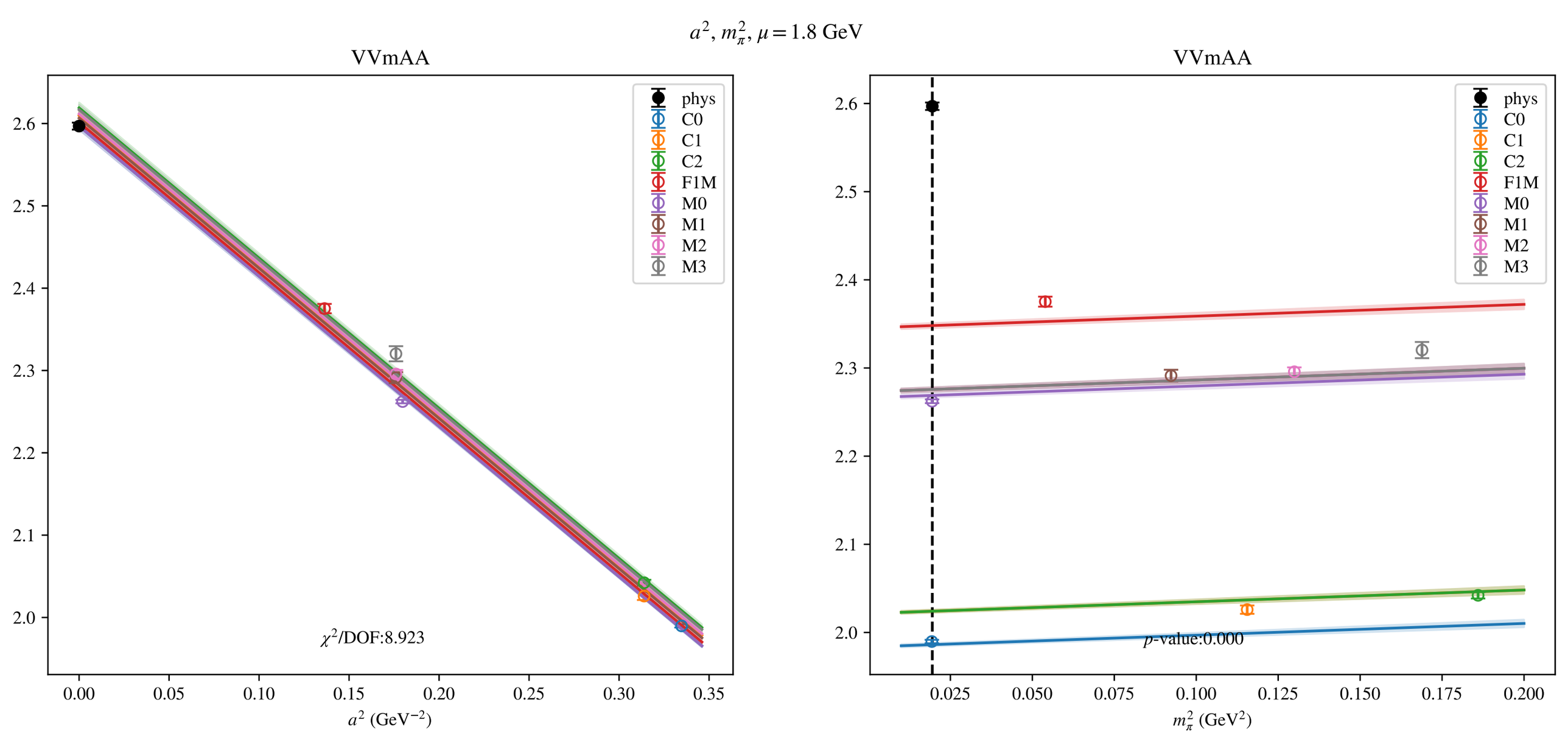
Table 3: Physical point value from chiral and continuum extrapolation at renormalisation scale μ. Entries are **value(error)**: χ^2/DOF (p-value).

μ (GeV)		a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	α	-0.578(37)	-0.79(32)	-1.12(78)	-0.576(39)	-0.574(38)
	β	0.00087(10)	0.00090(18)	0.001053(99)	0.00198(55)	-0.0038(10)
2.0	α	-0.681(36)	-0.88(31)	-1.27(76)	-0.679(36)	-0.679(36)
	β	0.00112(12)	0.00147(23)	0.00129(12)	0.00267(59)	-0.0036(12)
1.8	α	-0.703(37)	-0.89(33)	-1.35(80)	-0.701(37)	-0.701(38)
	β	0.00087(13)	0.00166(24)	0.00109(13)	0.00199(61)	-0.0039(13)
1.5	α	-0.733(40)	-0.89(38)	-1.47(91)	-0.732(38)	-0.730(40)
	β	0.00056(14)	0.00188(26)	0.00086(14)	0.00115(67)	-0.0042(14)

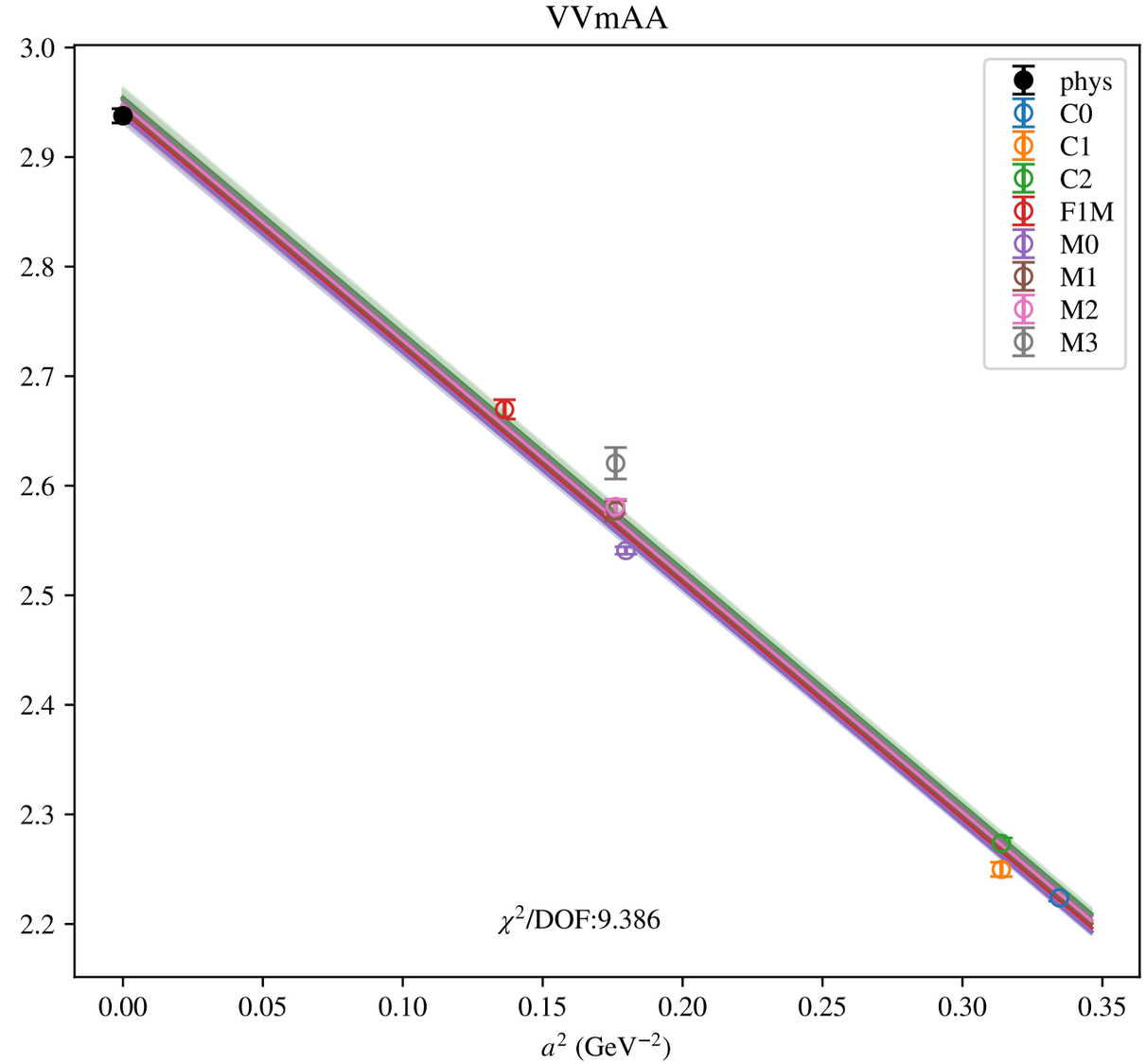
Table 4: Fit values of coefficients in $B = B_0(1 + \alpha a^2 + \beta \frac{m_\pi^2}{f_\pi^2} + \ldots)$.

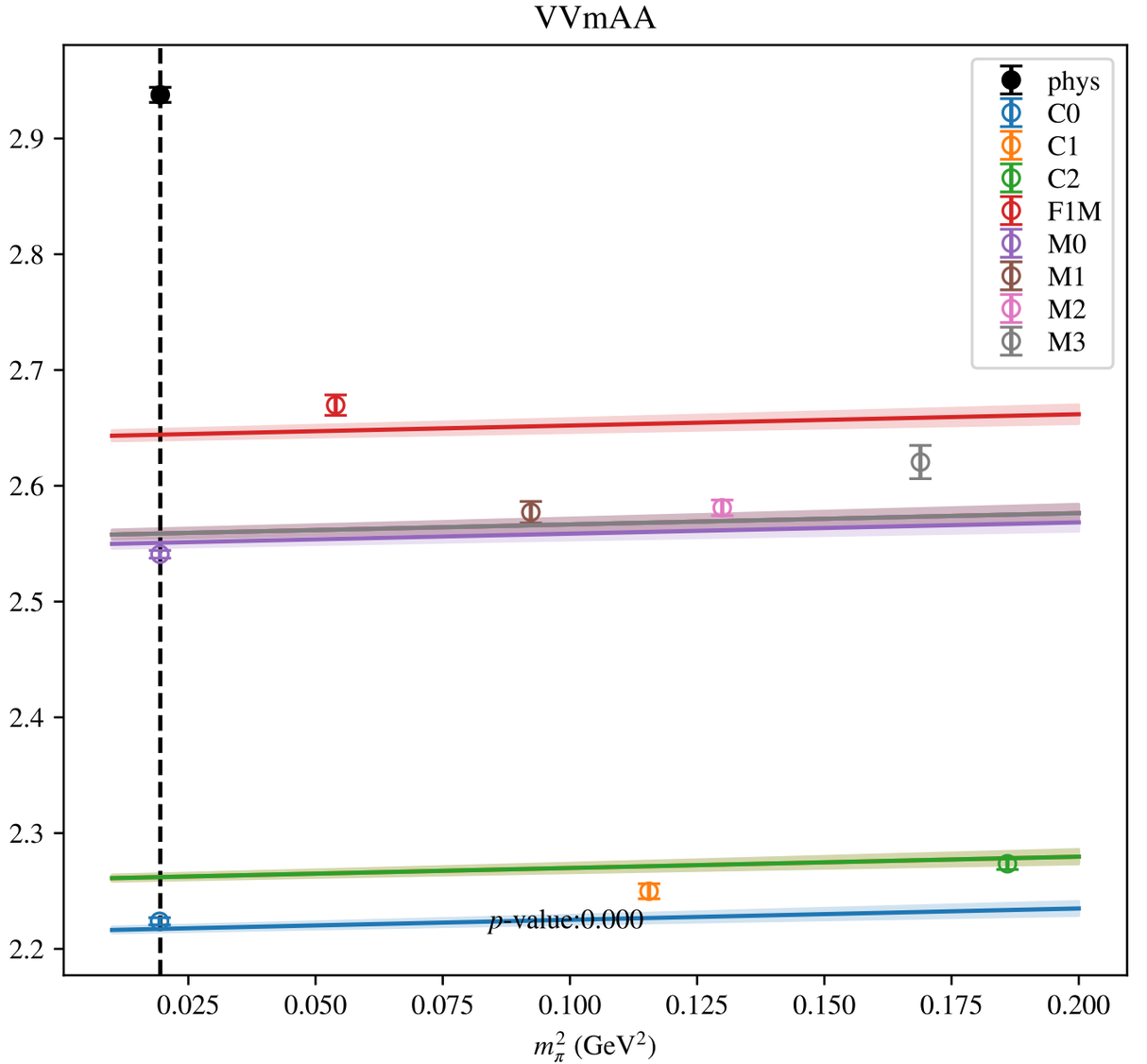

a^2, m_π^2, $\mu = 2.4$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:8.464
a^2 (GeV^{-2})
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
p-value:0.000
m_π^2 (GeV^2)

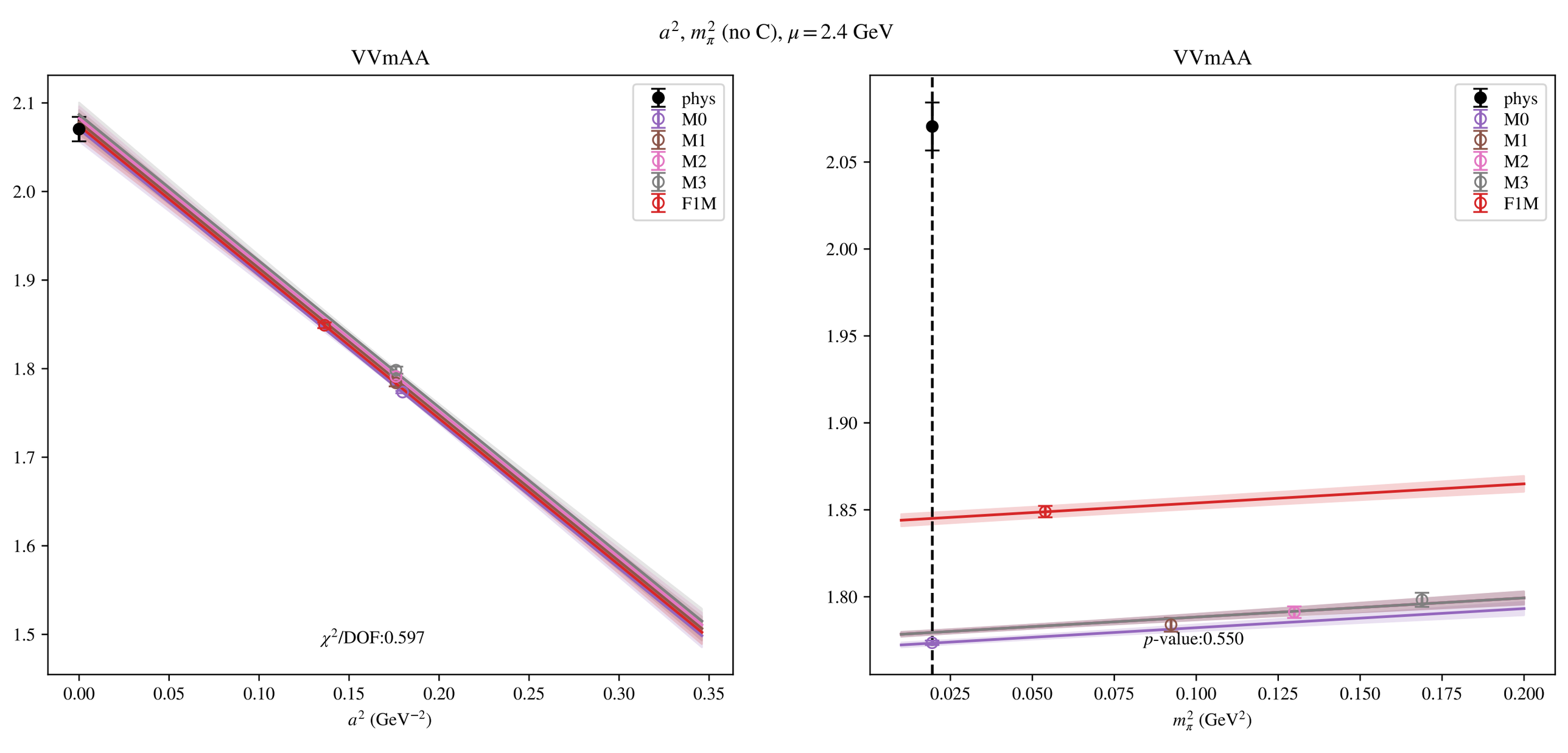

a^2, m_π^2, $\mu = 2.0$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:8.812
a^2 (GeV^{-2})
VVmAA
p-value:0.000
m_π^2 (GeV^2)

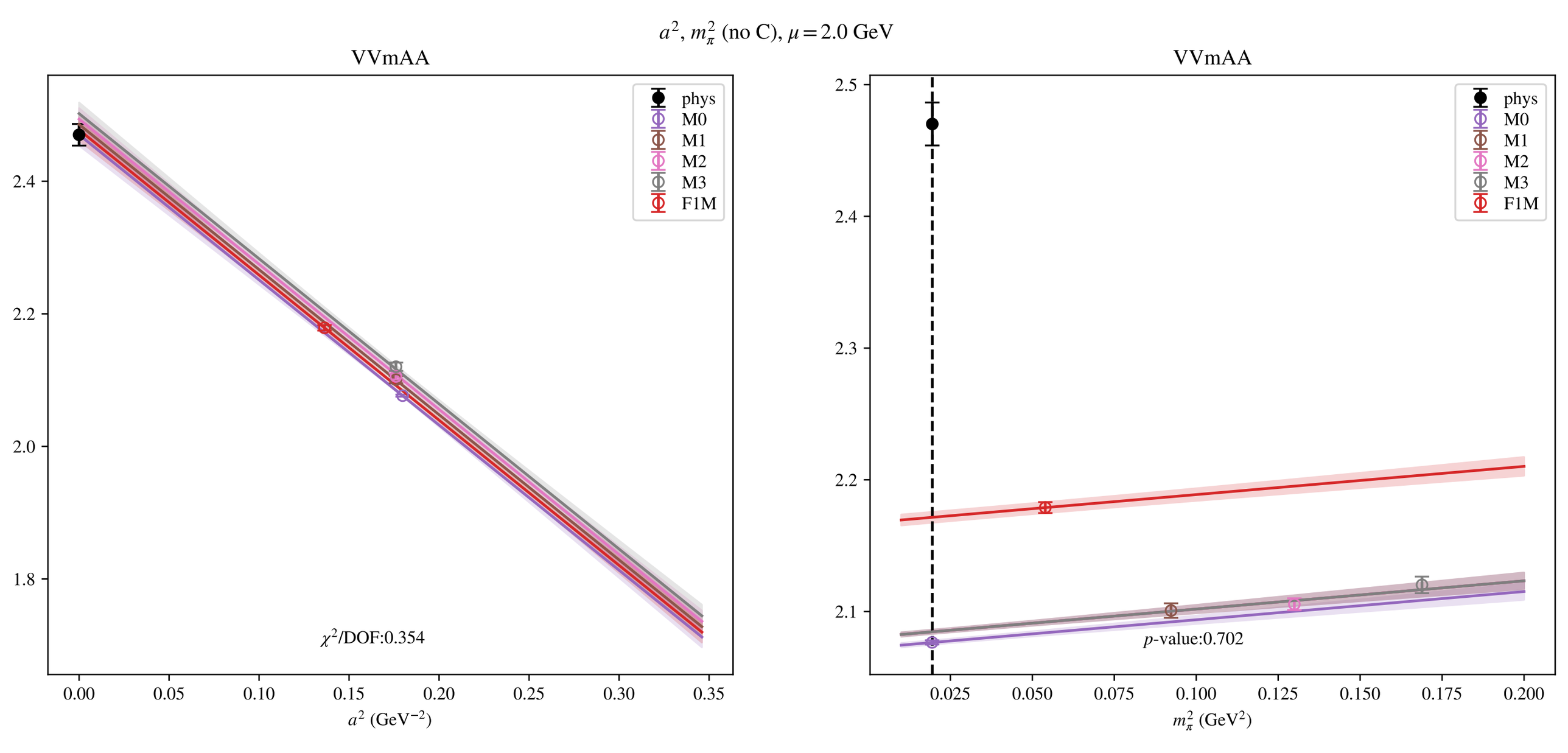

a^2, m_π^2, $\mu = 1.8$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:8.923
a^2 (GeV^{-2})
VVmAA
p-value:0.000
m_π^2 (GeV^2)

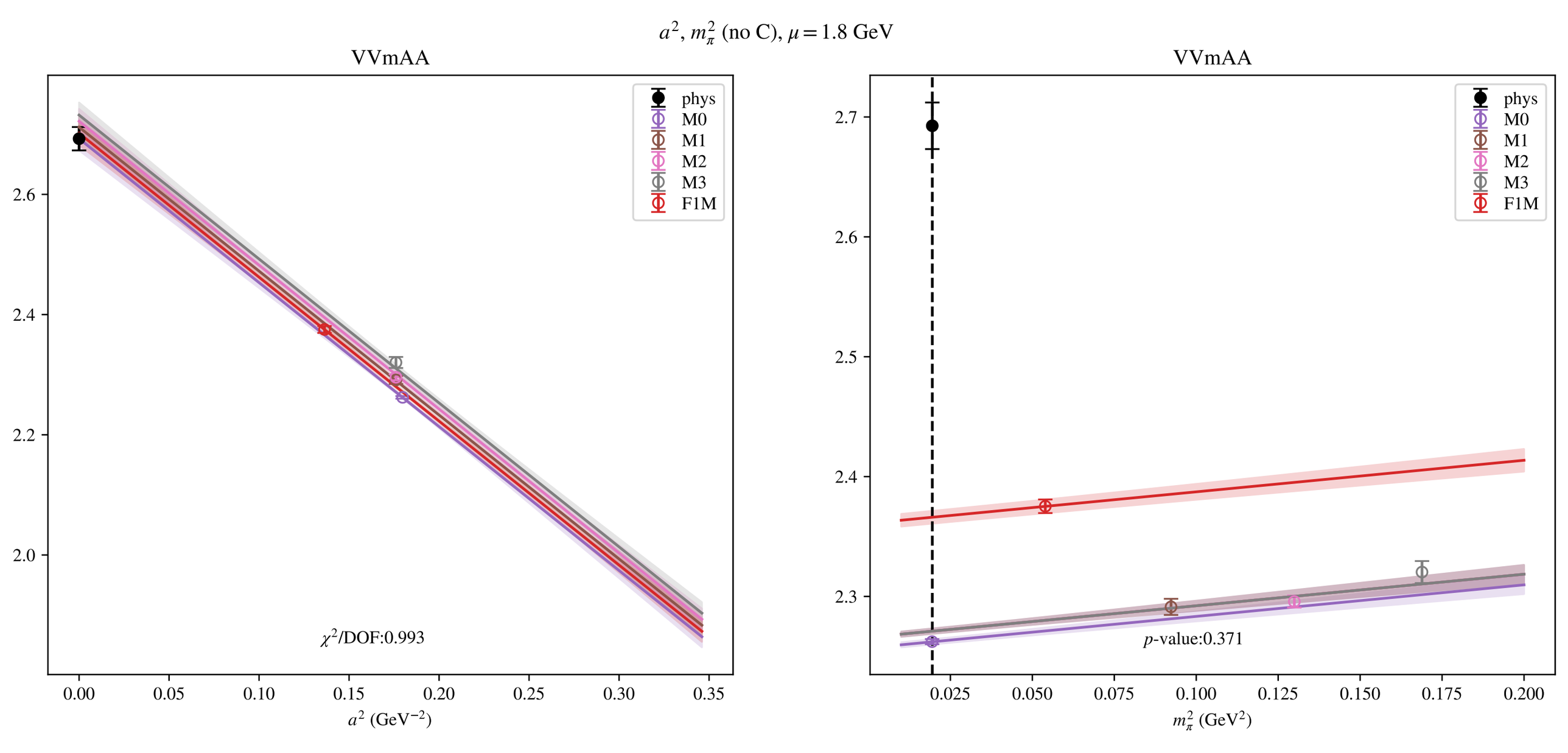
a^2, m_π^2, $\mu = 1.5$ GeV

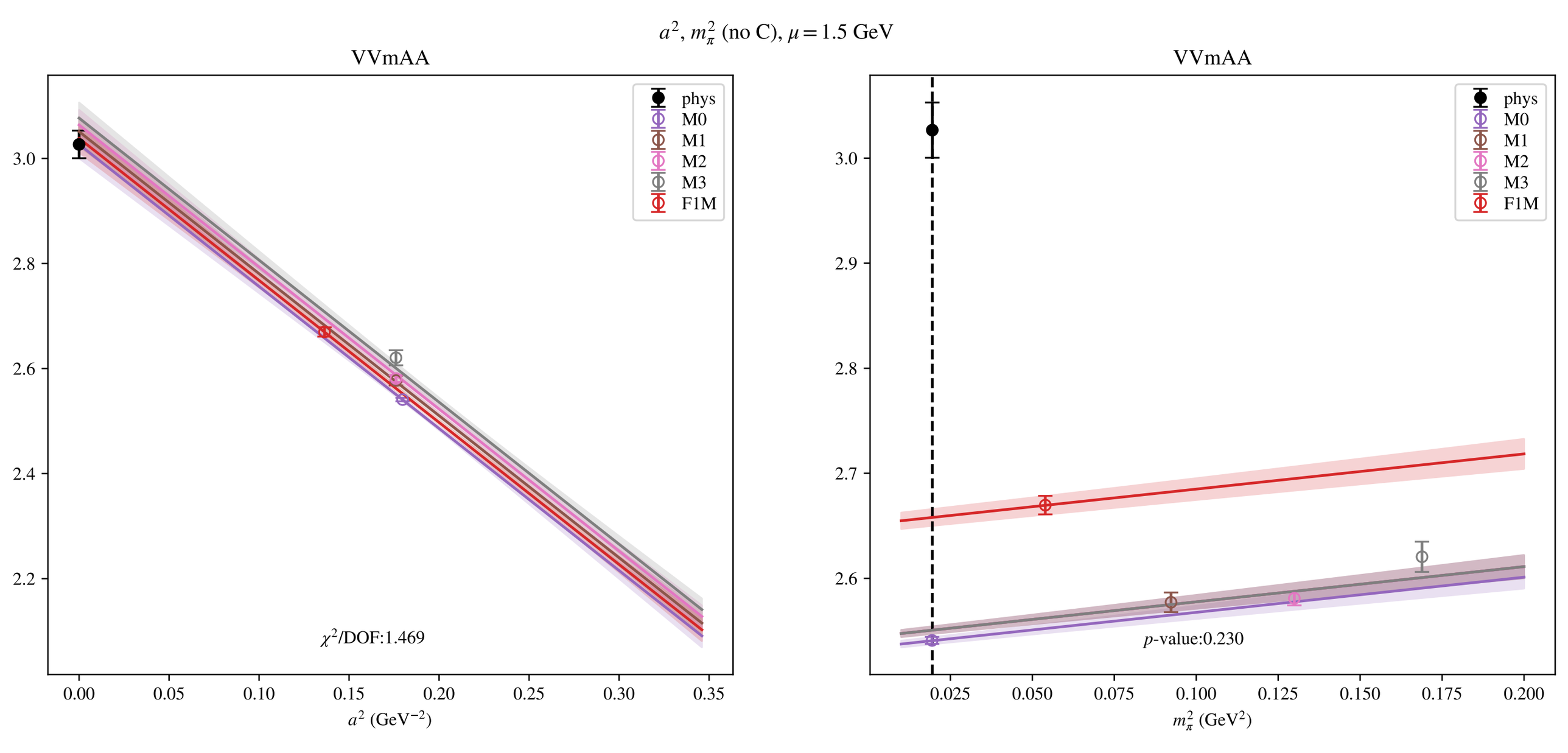




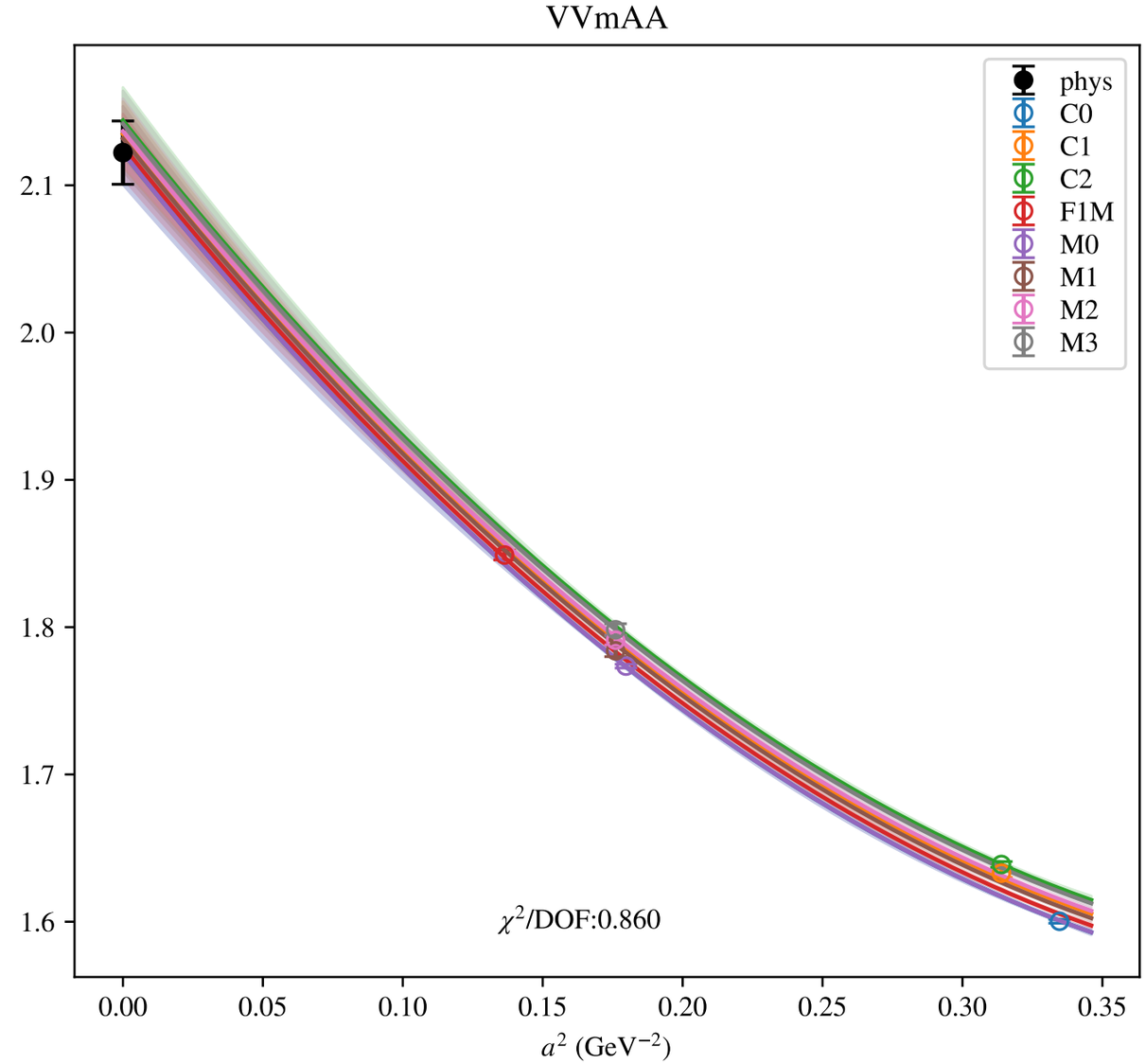

a^2, m_π^2 (no C), $\mu = 2.4$ GeV
VVmAA
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.597
a^2 (GeV^{-2})
VVmAA
phys
M0
M1
M2
M3
F1M
p-value:0.550
m_π^2 (GeV^2)

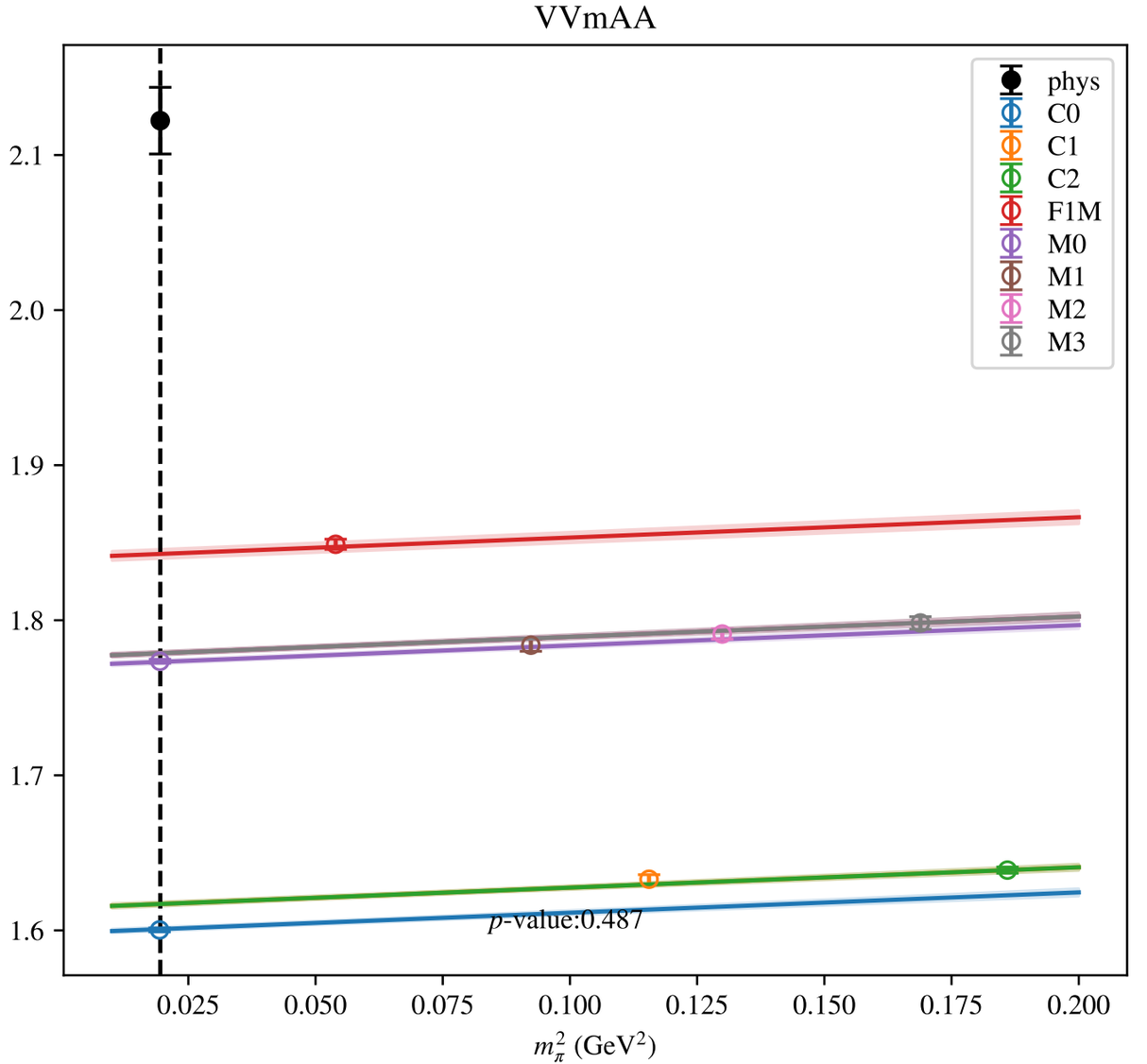

a^2, m_π^2 (no C), $\mu = 2.0$ GeV
VVmAA
phys
M0
M1
M2
M3
F1M
2.4
2.2
2.0
1.8
χ^2/DOF:0.354
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVmAA
phys
M0
M1
M2
M3
F1M
2.5
2.4
2.3
2.2
2.1
p-value:0.702
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2 (no C), $\mu = 1.8$ GeV
VVmAA
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.993
a^2 (GeV^{-2})
VVmAA
phys
M0
M1
M2
M3
F1M
p-value:0.371
m_π^2 (GeV^2)

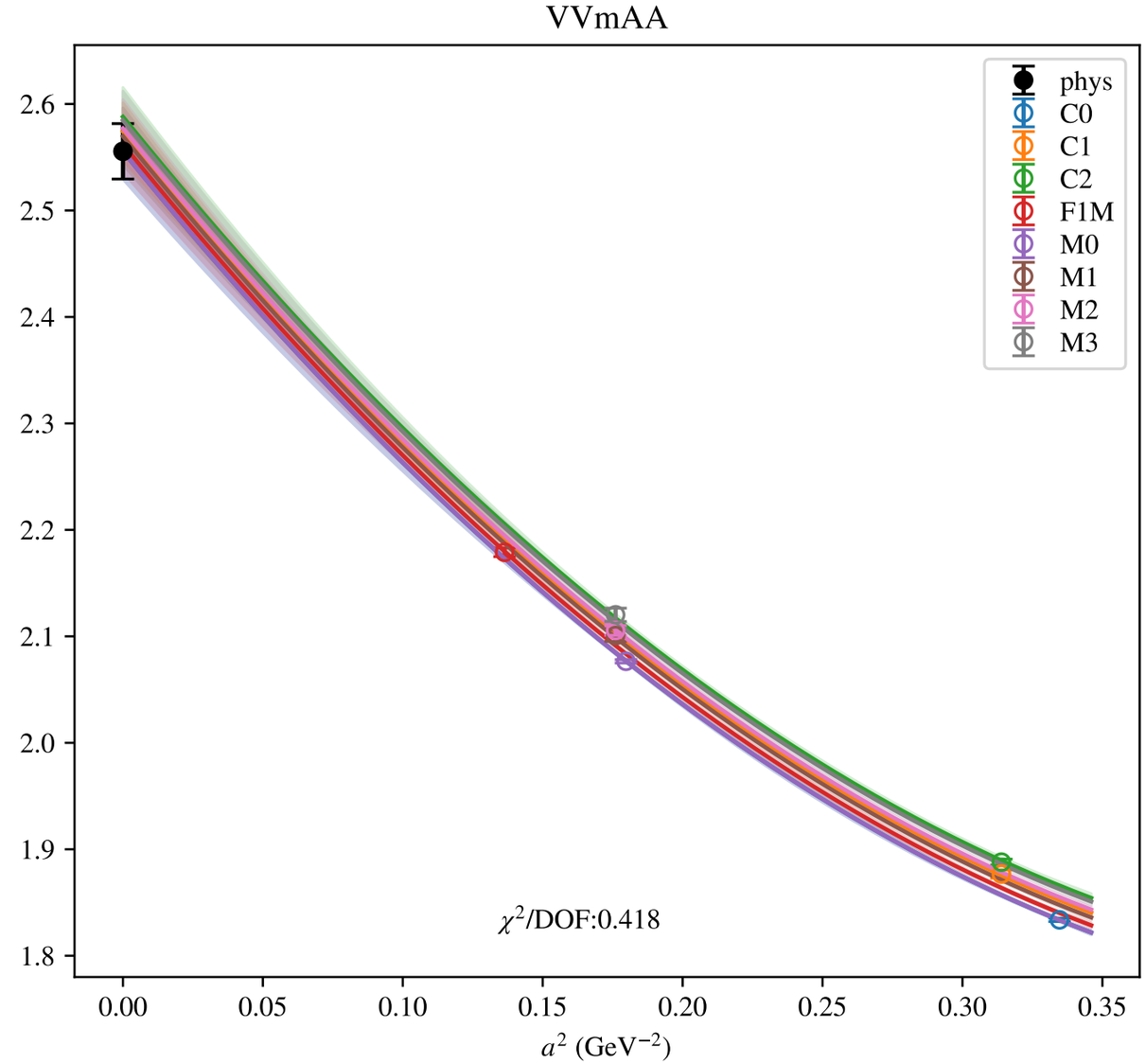

a^2, m_π^2 (no C), $\mu = 1.5$ GeV
VVmAA
phys
M0
M1
M2
M3
F1M
3.0
2.8
2.6
2.4
2.2
χ^2/DOF:1.469
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
VVmAA
phys
M0
M1
M2
M3
F1M
3.0
2.9
2.8
2.7
2.6
p-value:0.230
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

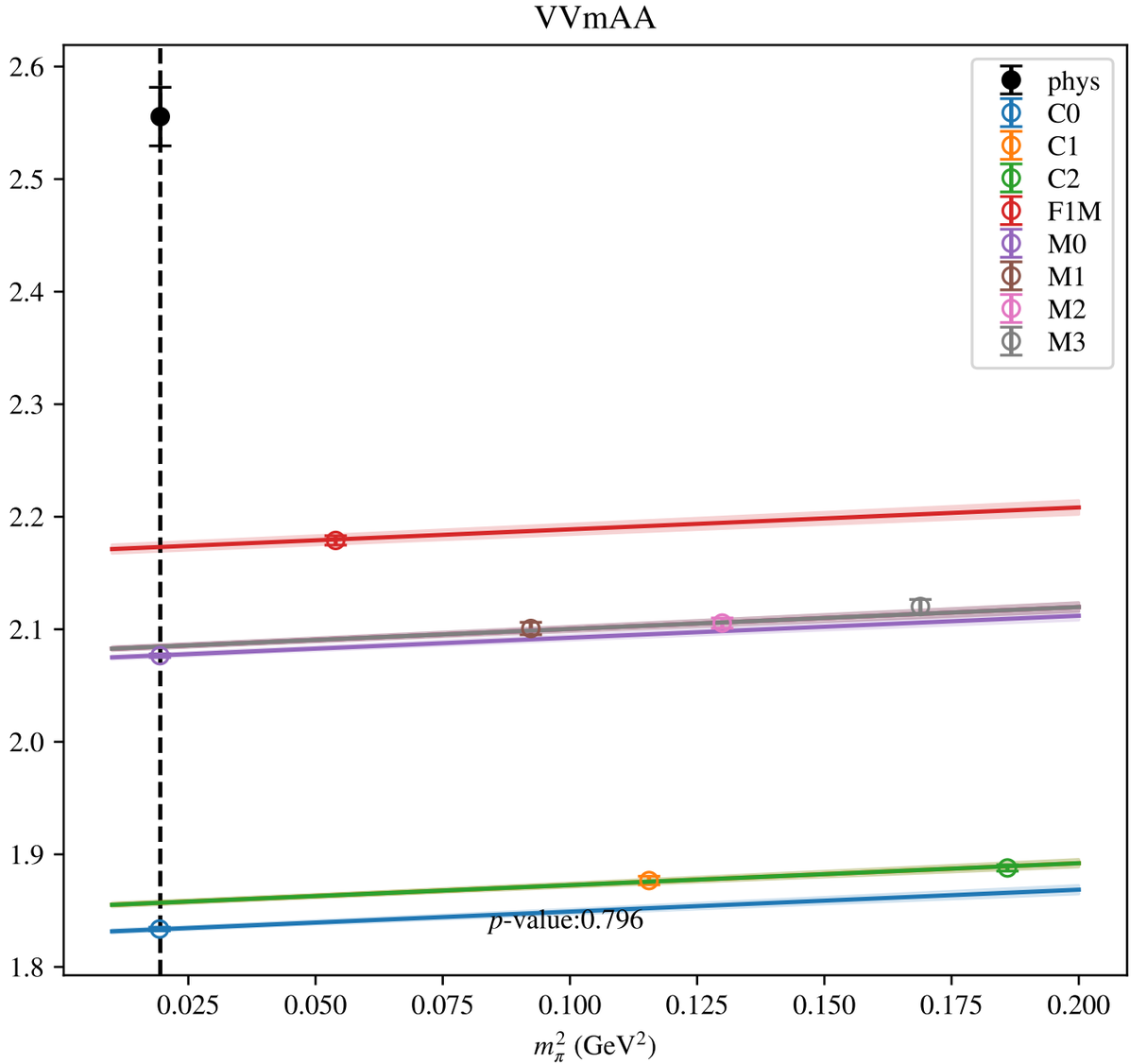
a^2, a^4, m_π^2, $\mu = 2.4$ GeV



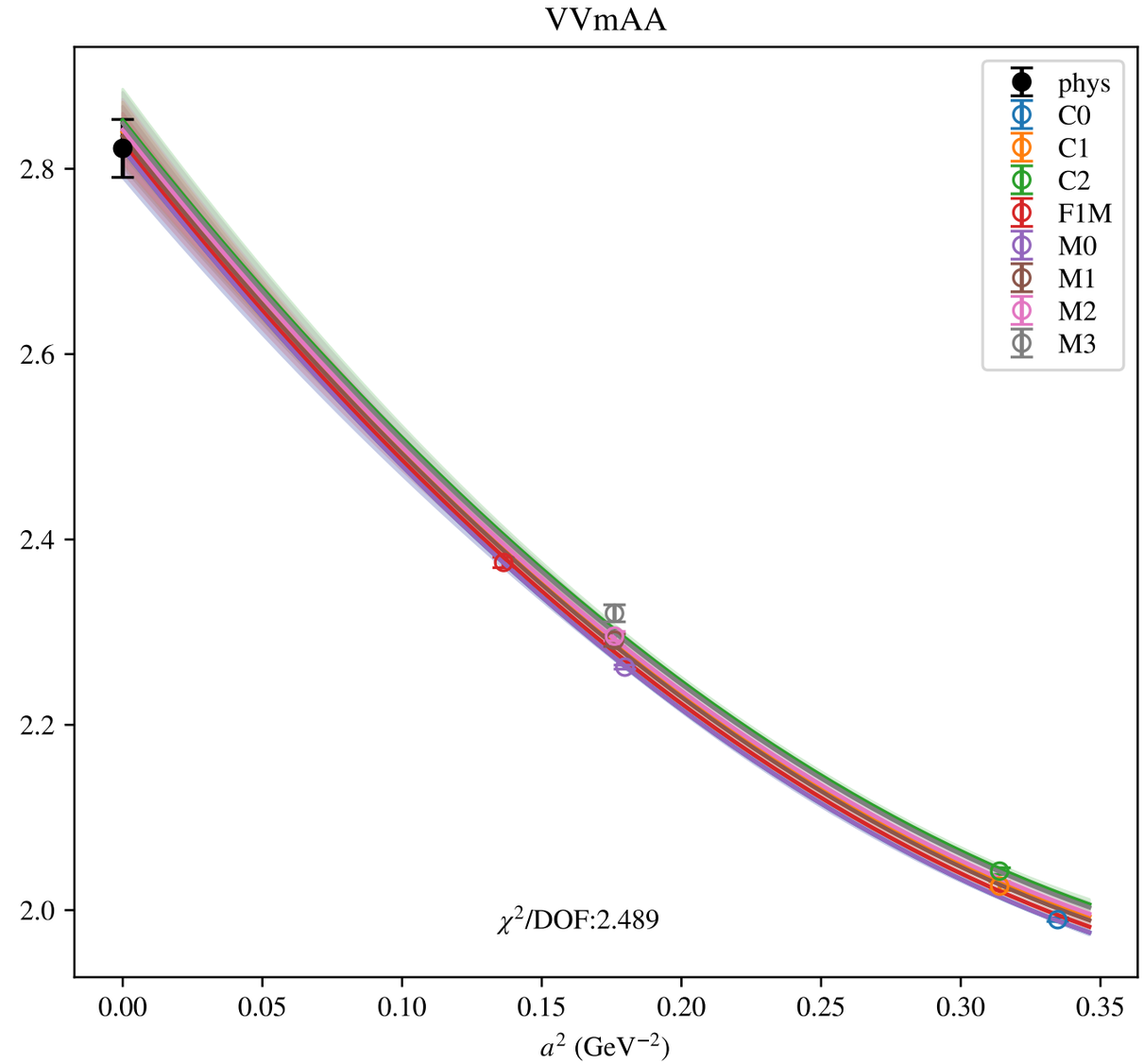


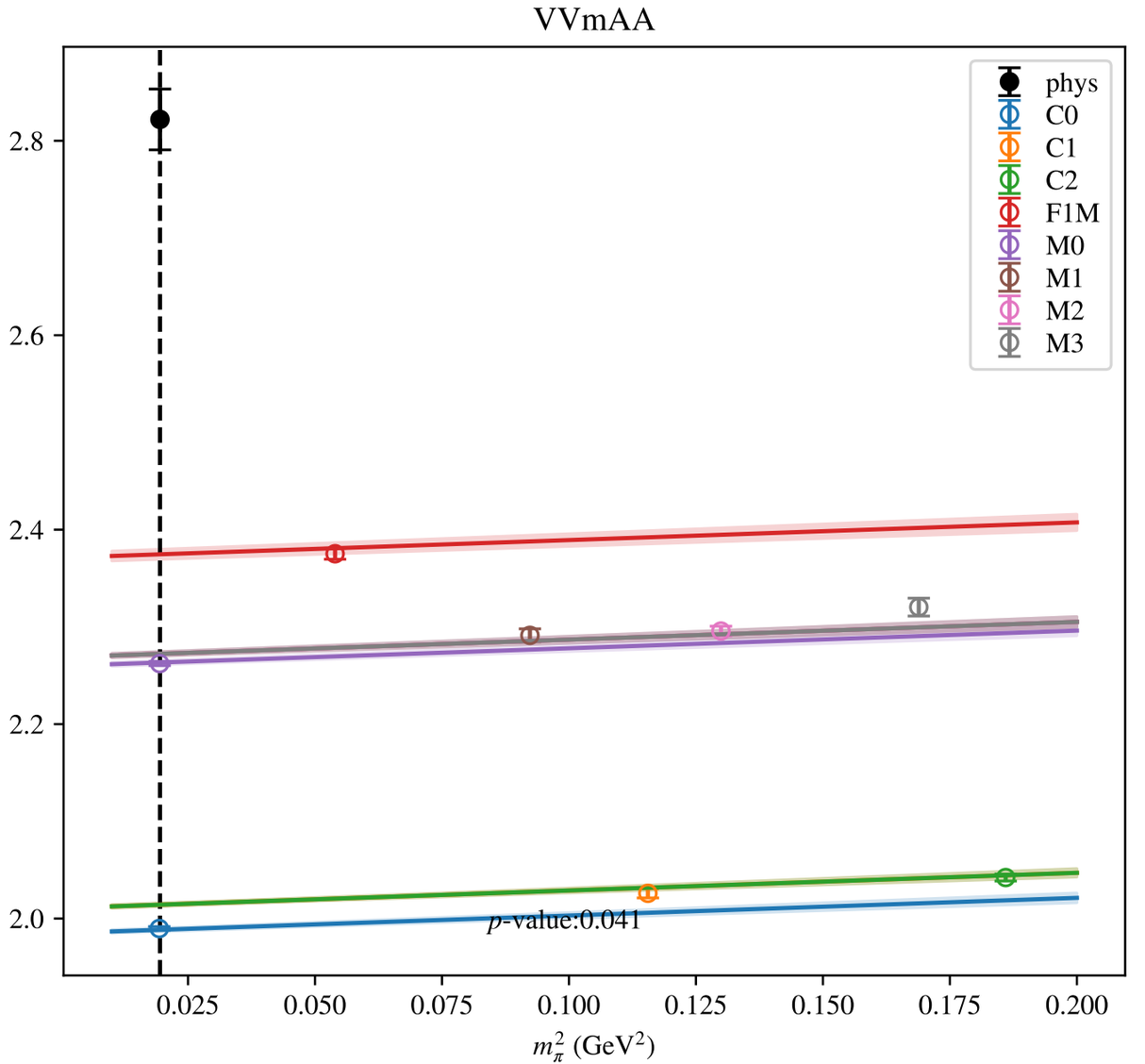
a^2, a^4, m_π^2, $\mu = 2.0$ GeV



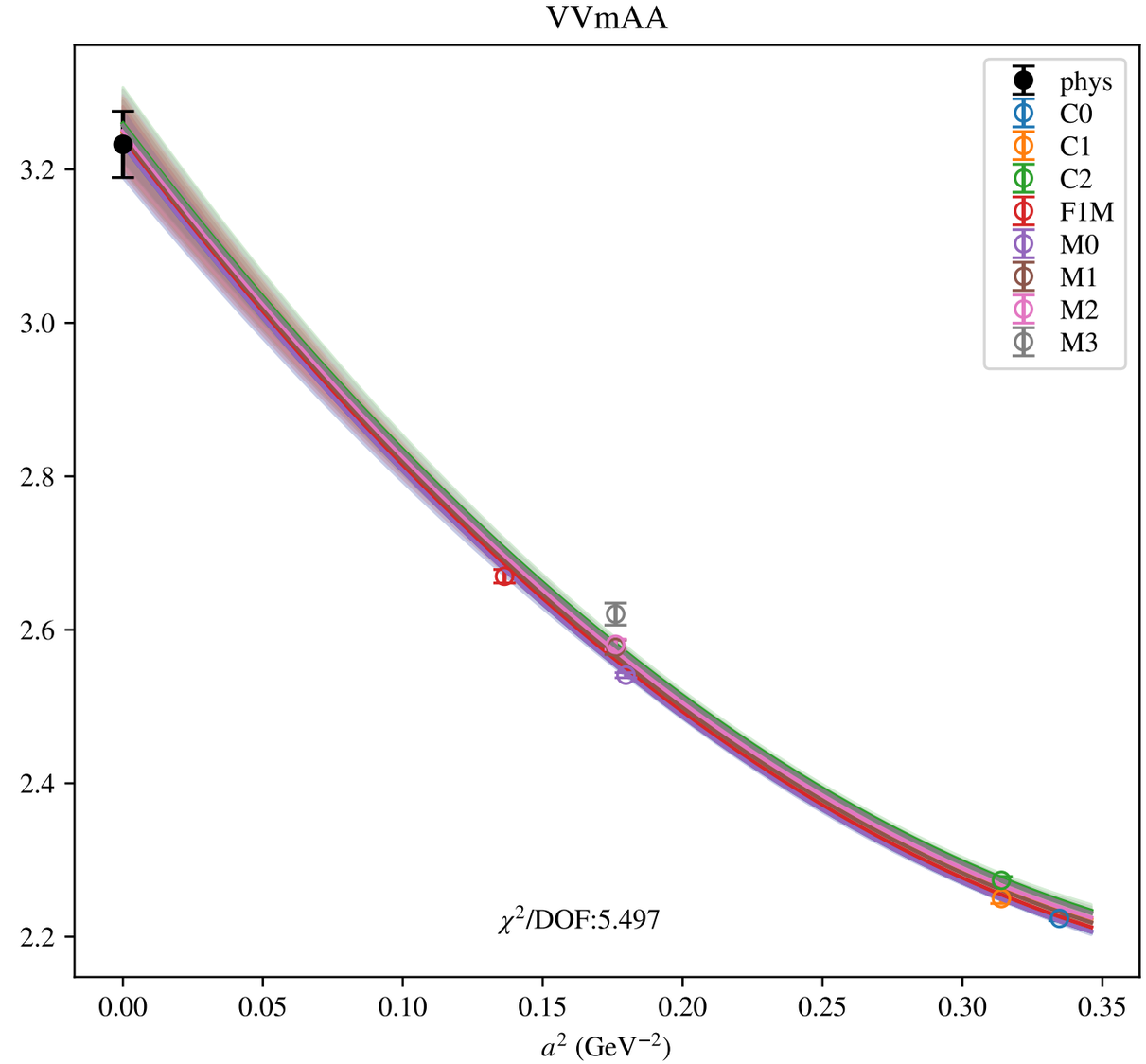


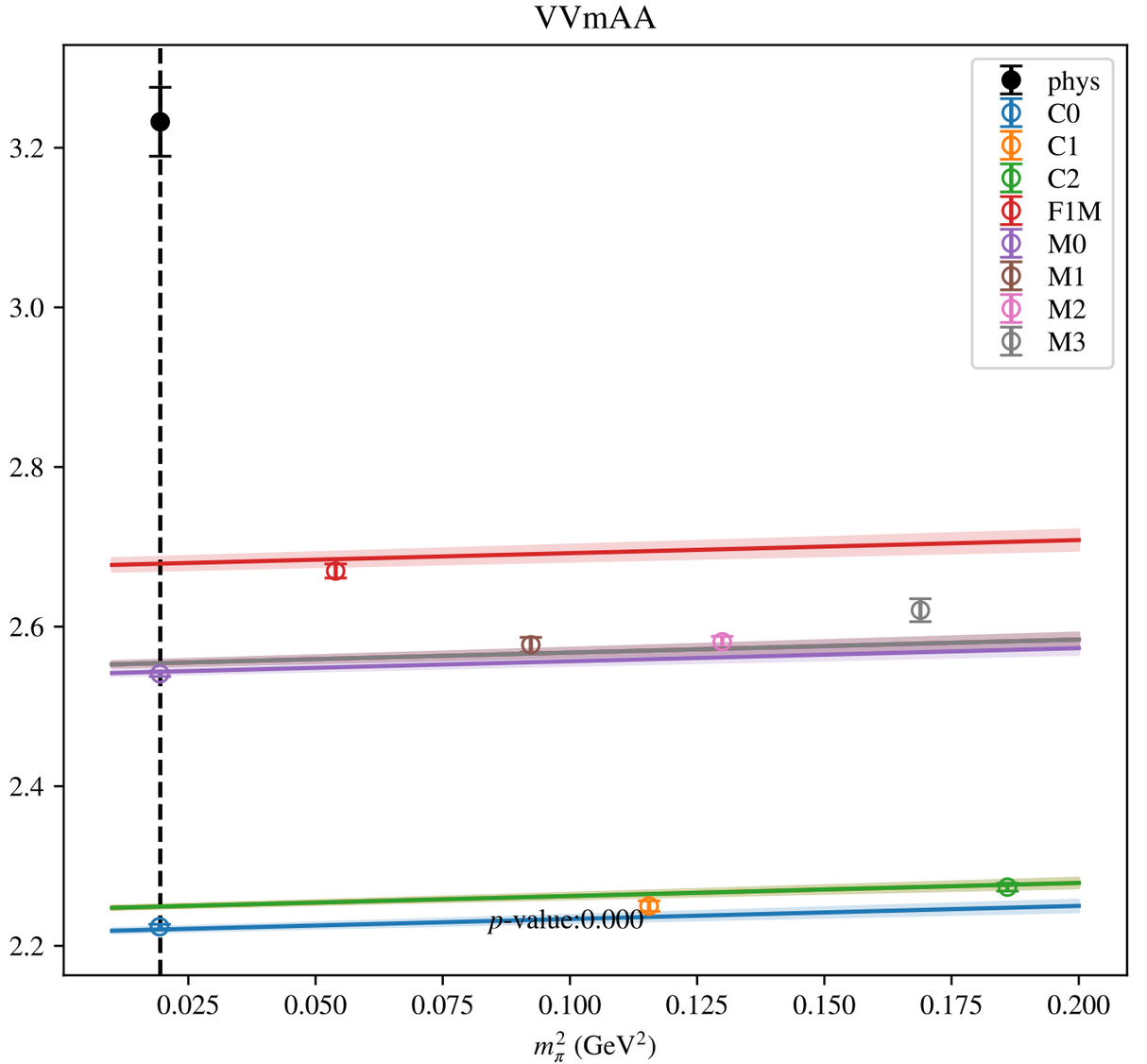
a^2, a^4, m_π^2, $\mu = 1.8$ GeV



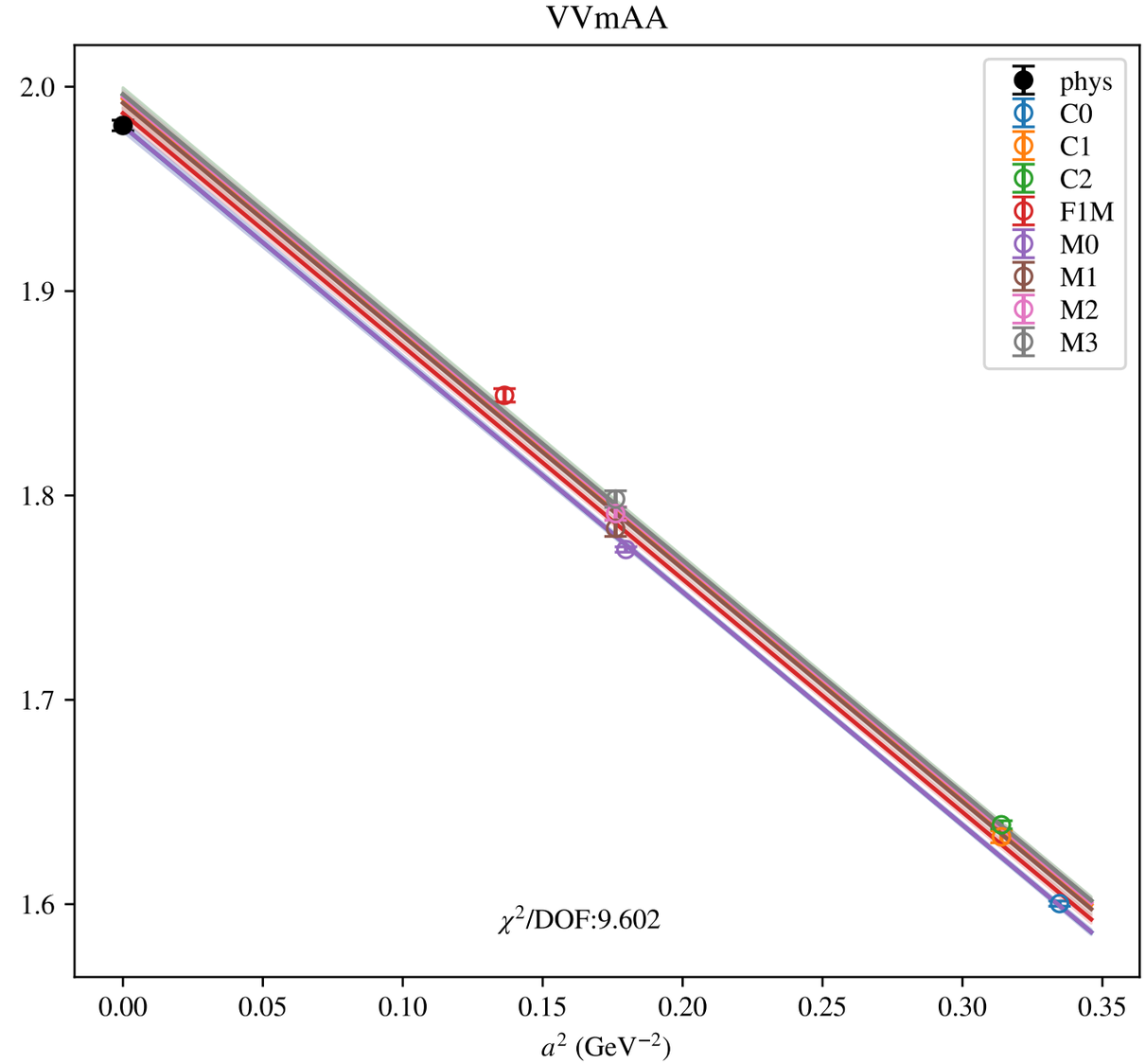


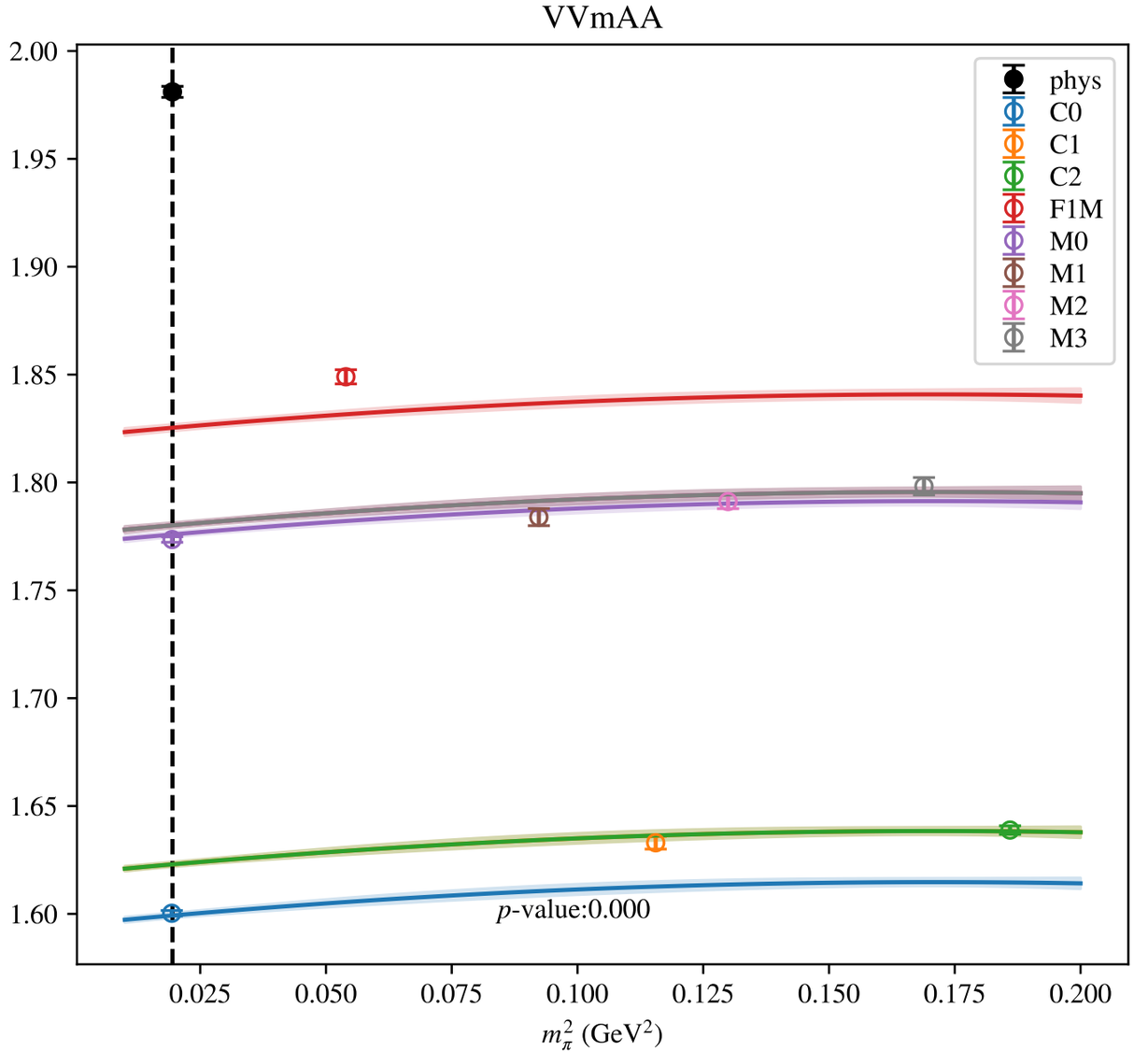
a^2, a^4, m_π^2, $\mu = 1.5$ GeV

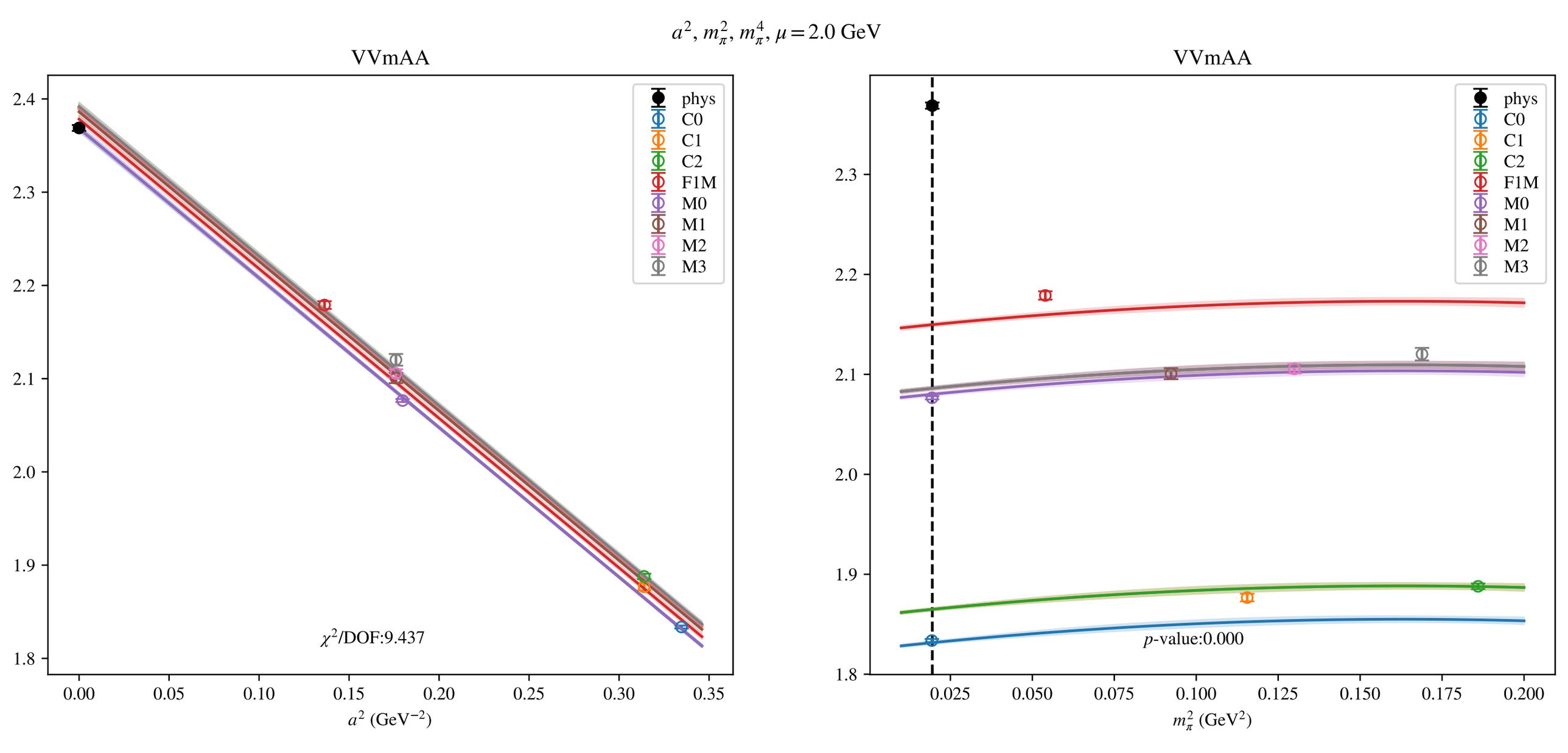


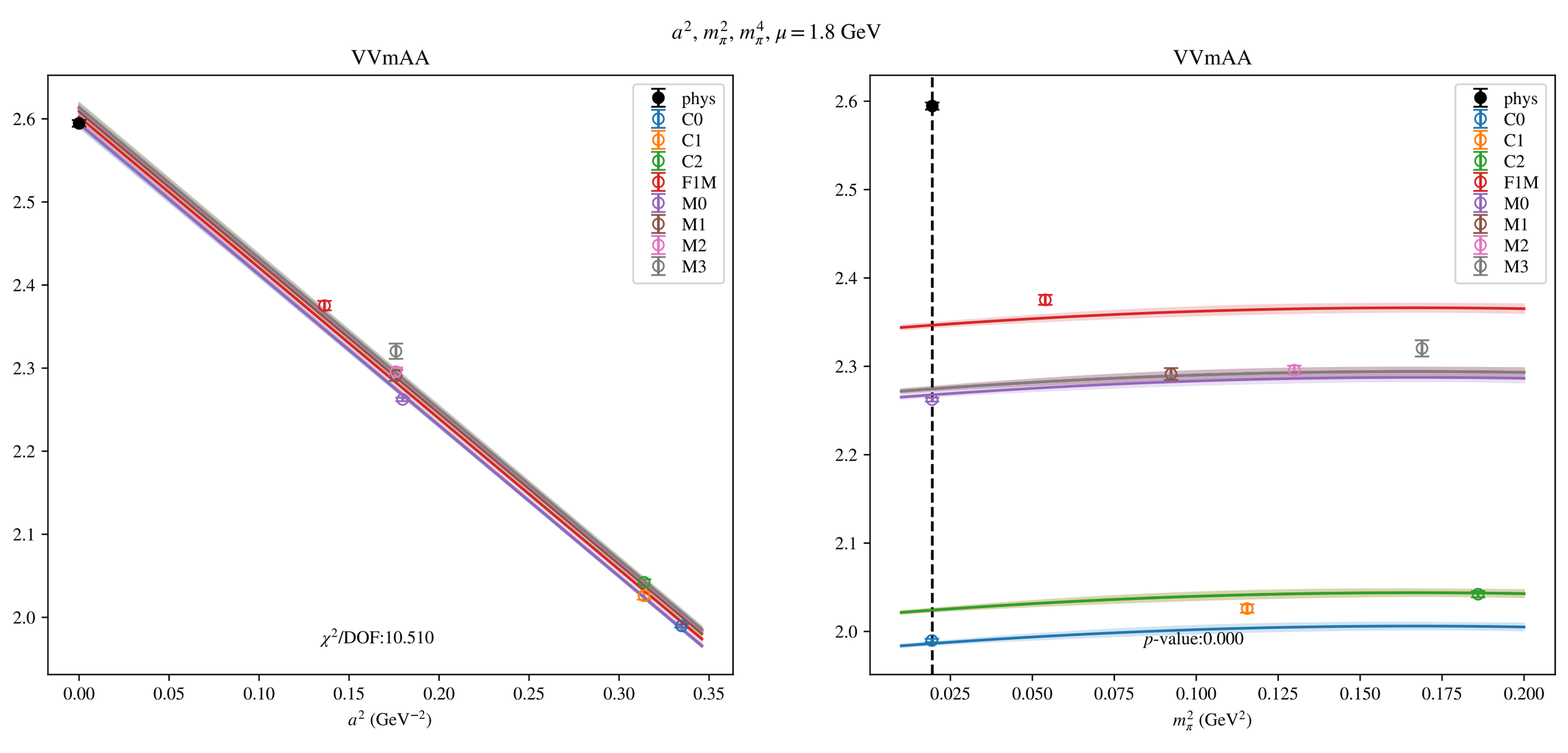


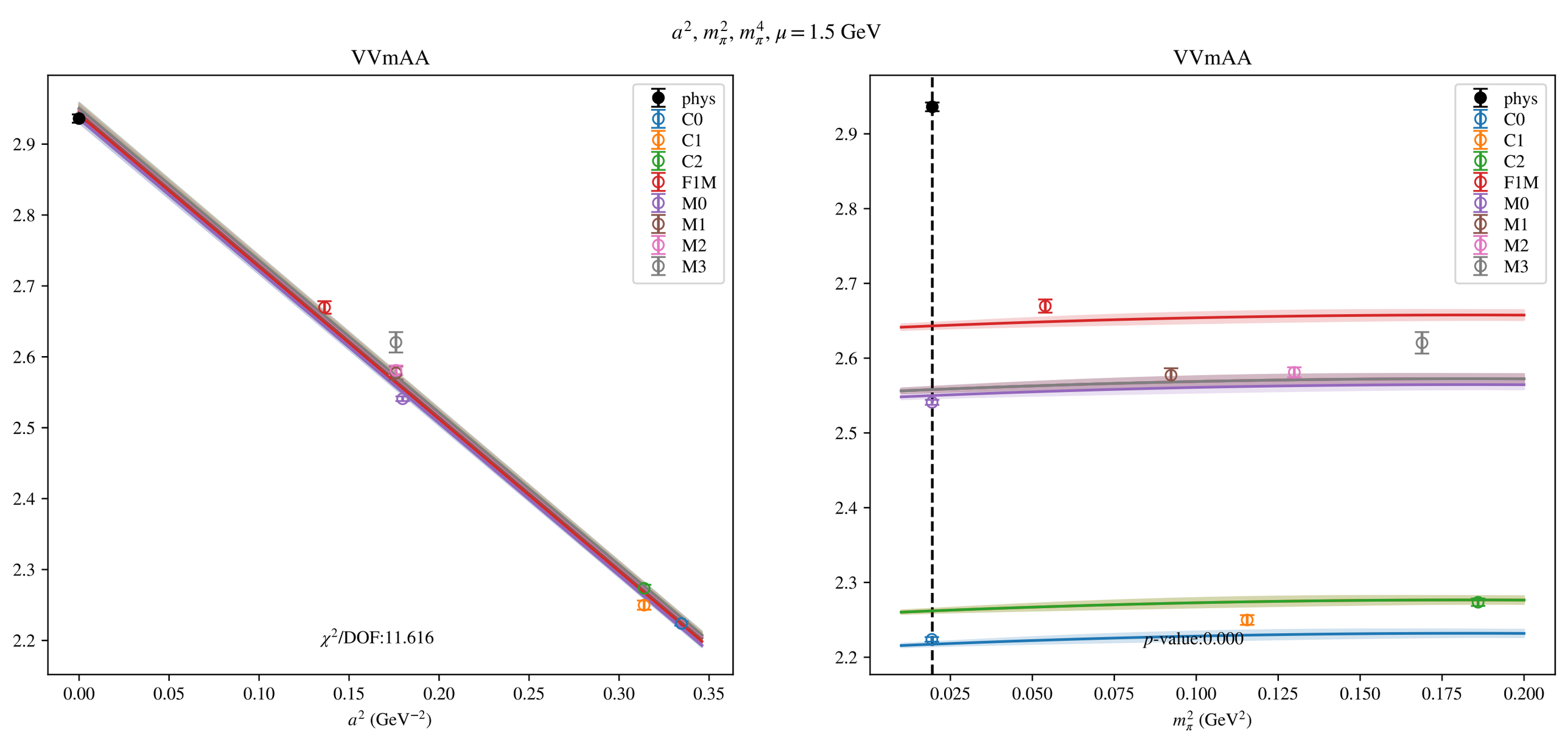
a^2, m_π^2, m_π^4, $\mu = 2.4$ GeV

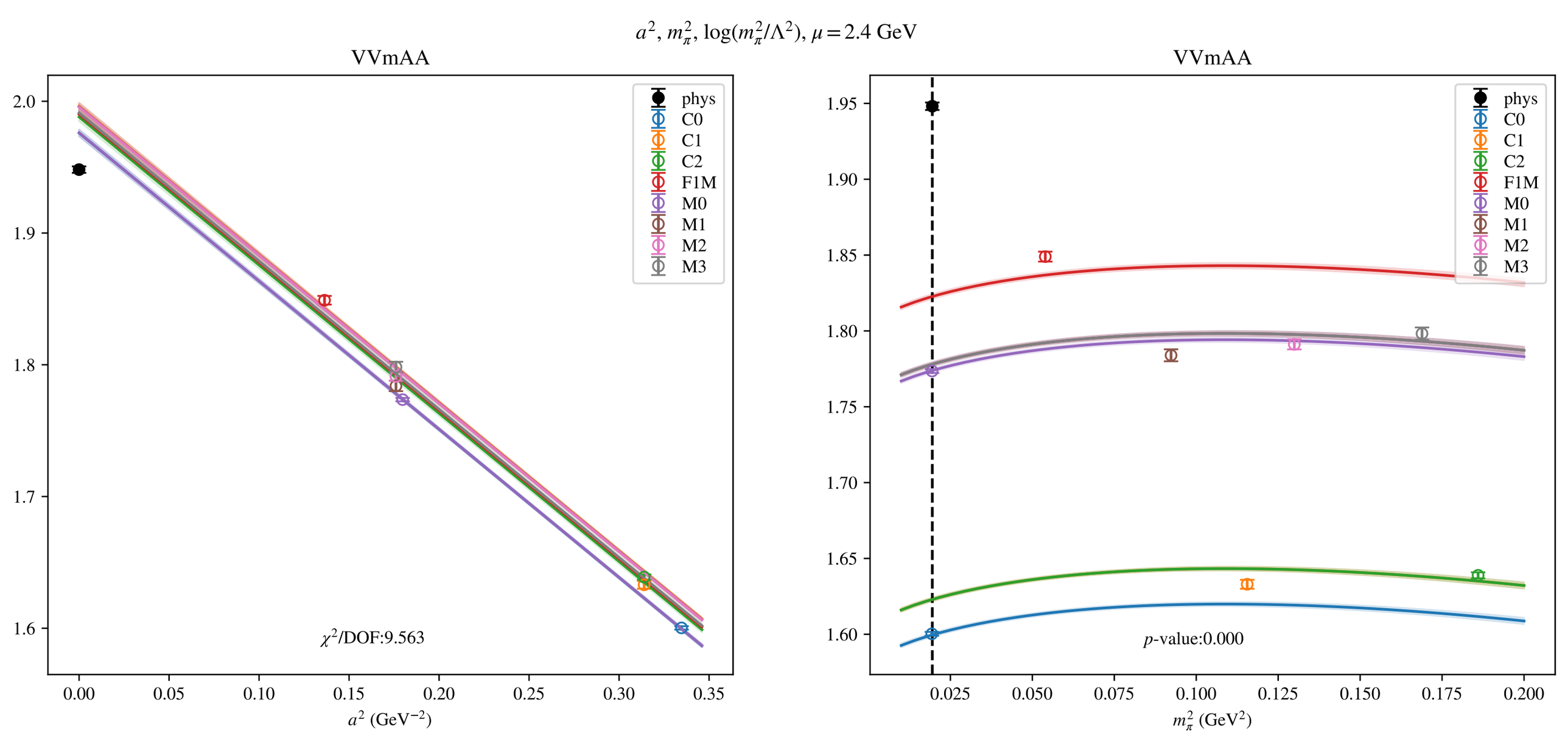




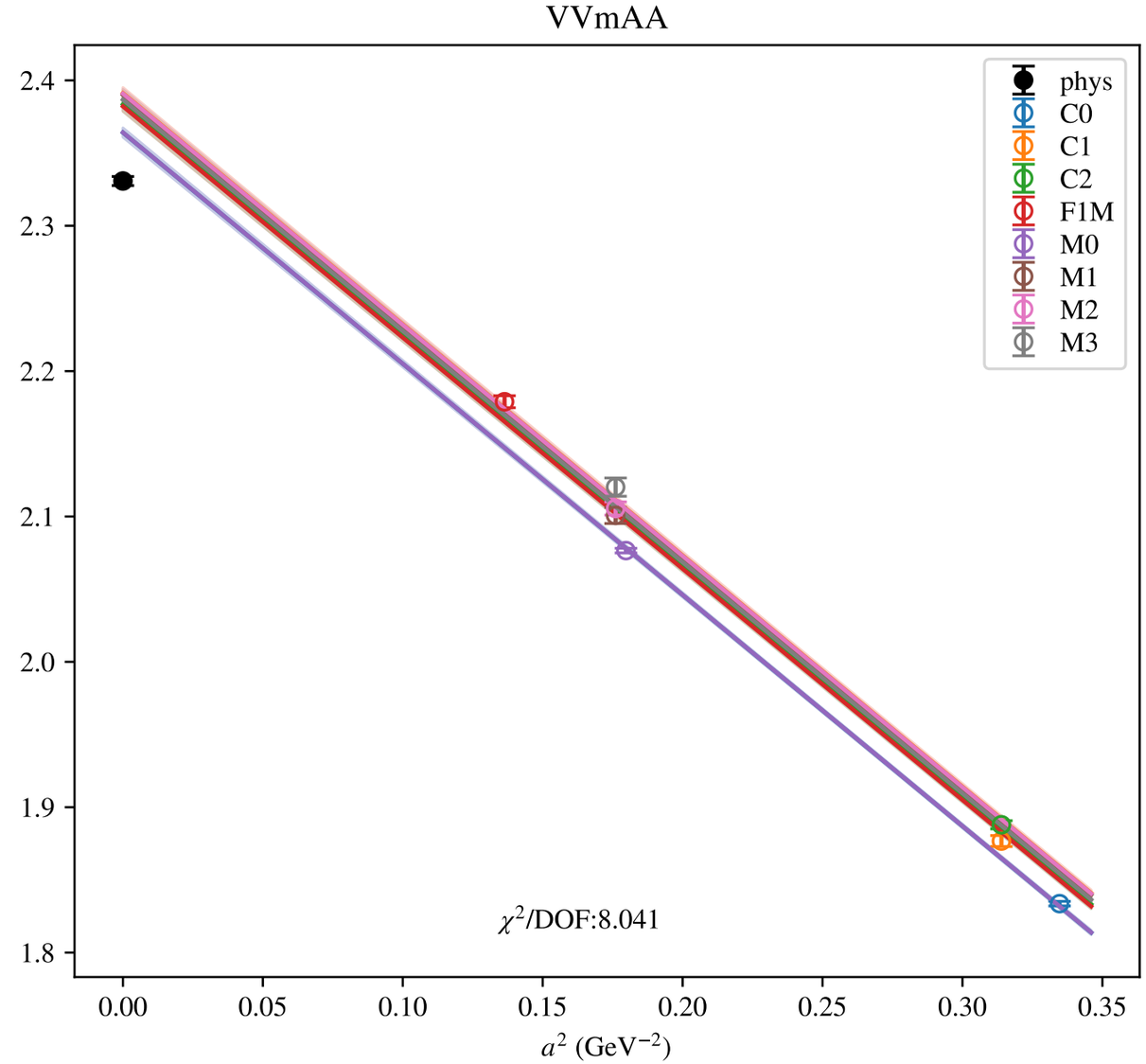

$a^2, m_\pi^2, m_\pi^4, \mu = 2.0$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:9.437
a^2 (GeV^{-2})
VVmAA
p-value:0.000
m_π^2 (GeV^2)

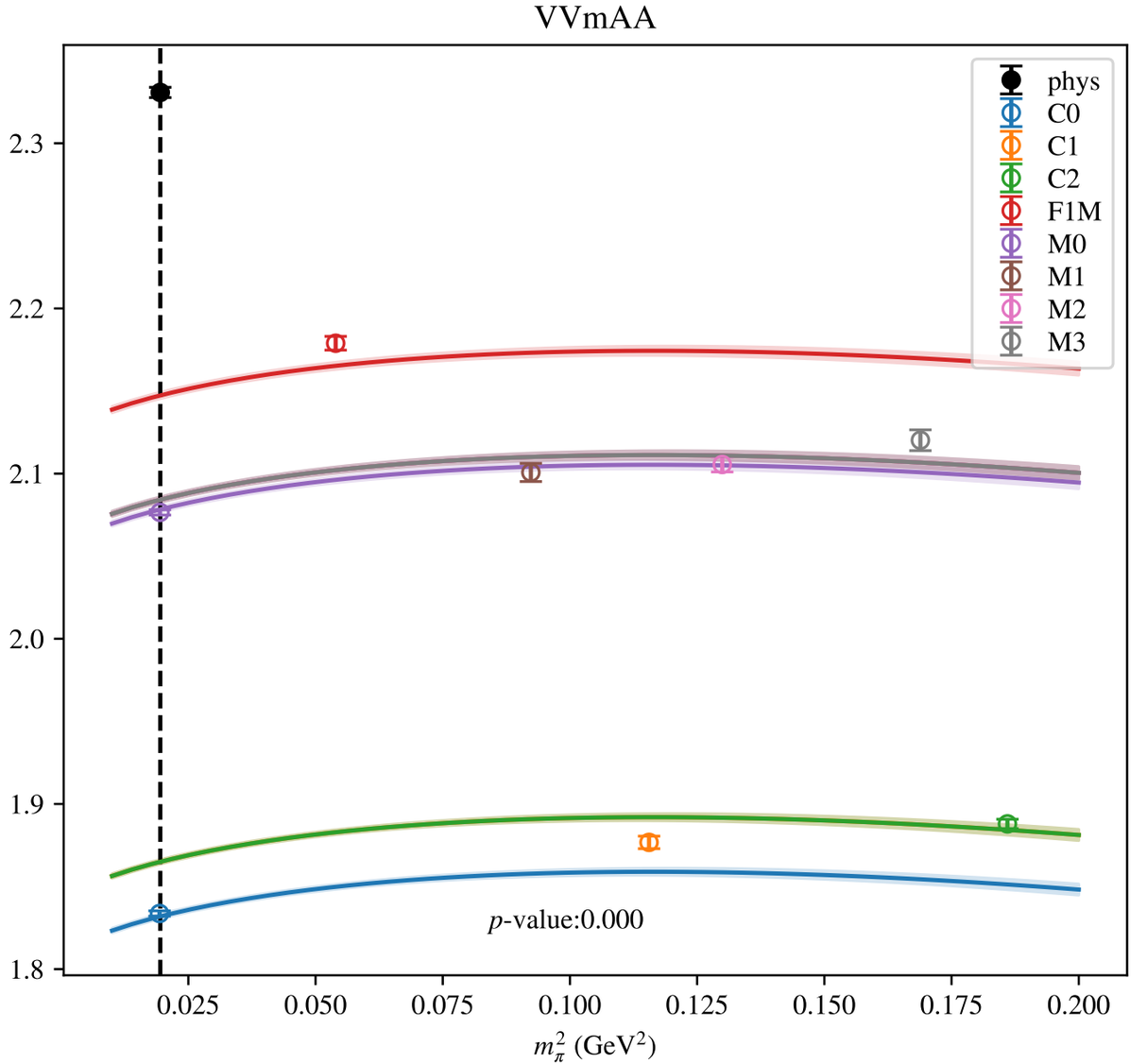

$a^2, m_\pi^2, m_\pi^4, \mu = 1.8$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:10.510
a^2 (GeV^{-2})
VVmAA
p-value:0.000
m_π^2 (GeV^2)


$a^2, m_\pi^2, m_\pi^4, \mu = 1.5$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:11.616
a^2 (GeV^{-2})
VVmAA
p-value:0.000
m_π^2 (GeV^2)

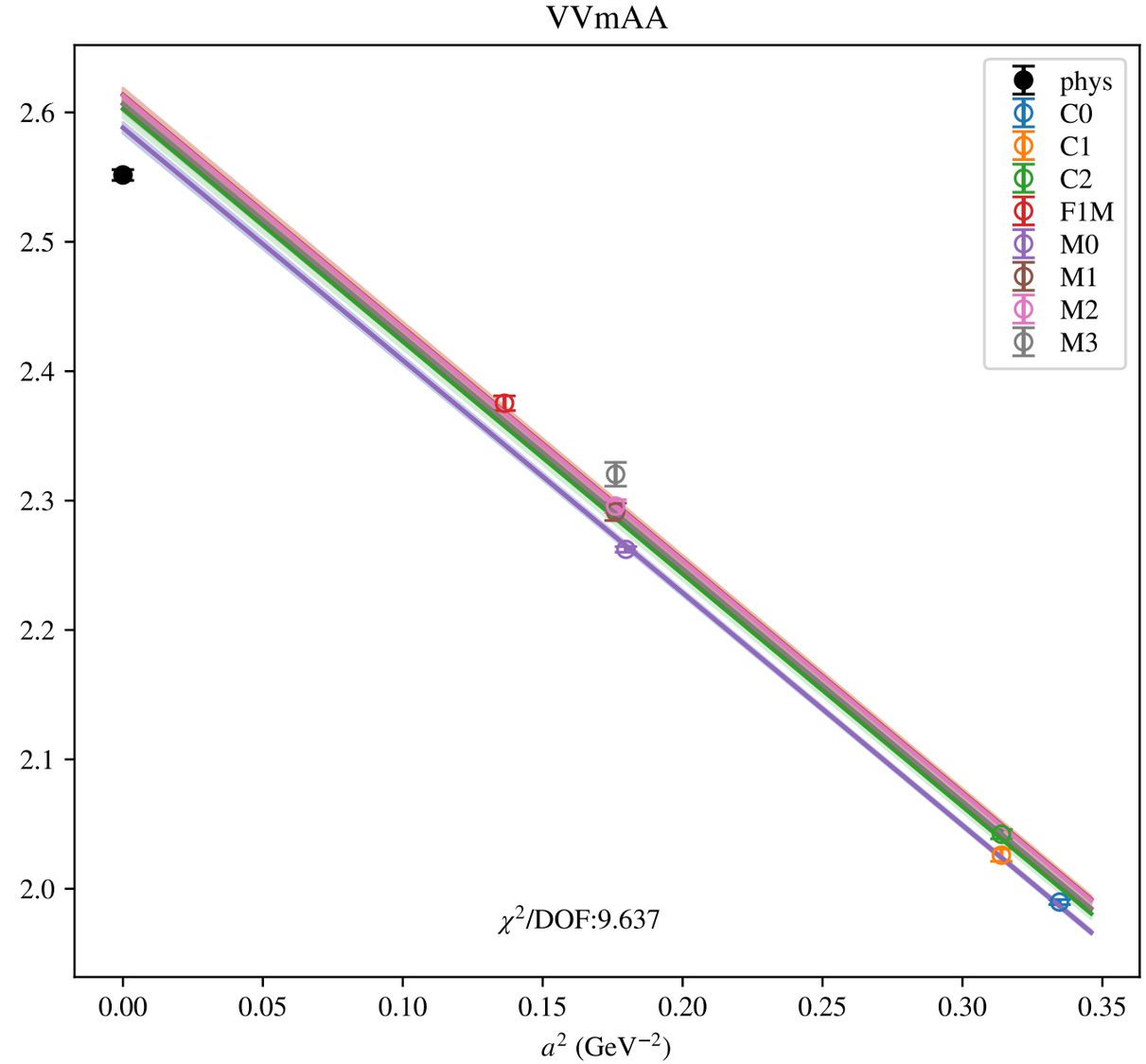

a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.4$ GeV
VVmAA
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:9.563
a^2 (GeV^{-2})
VVmAA
p-value:0.000
m_π^2 (GeV^2)

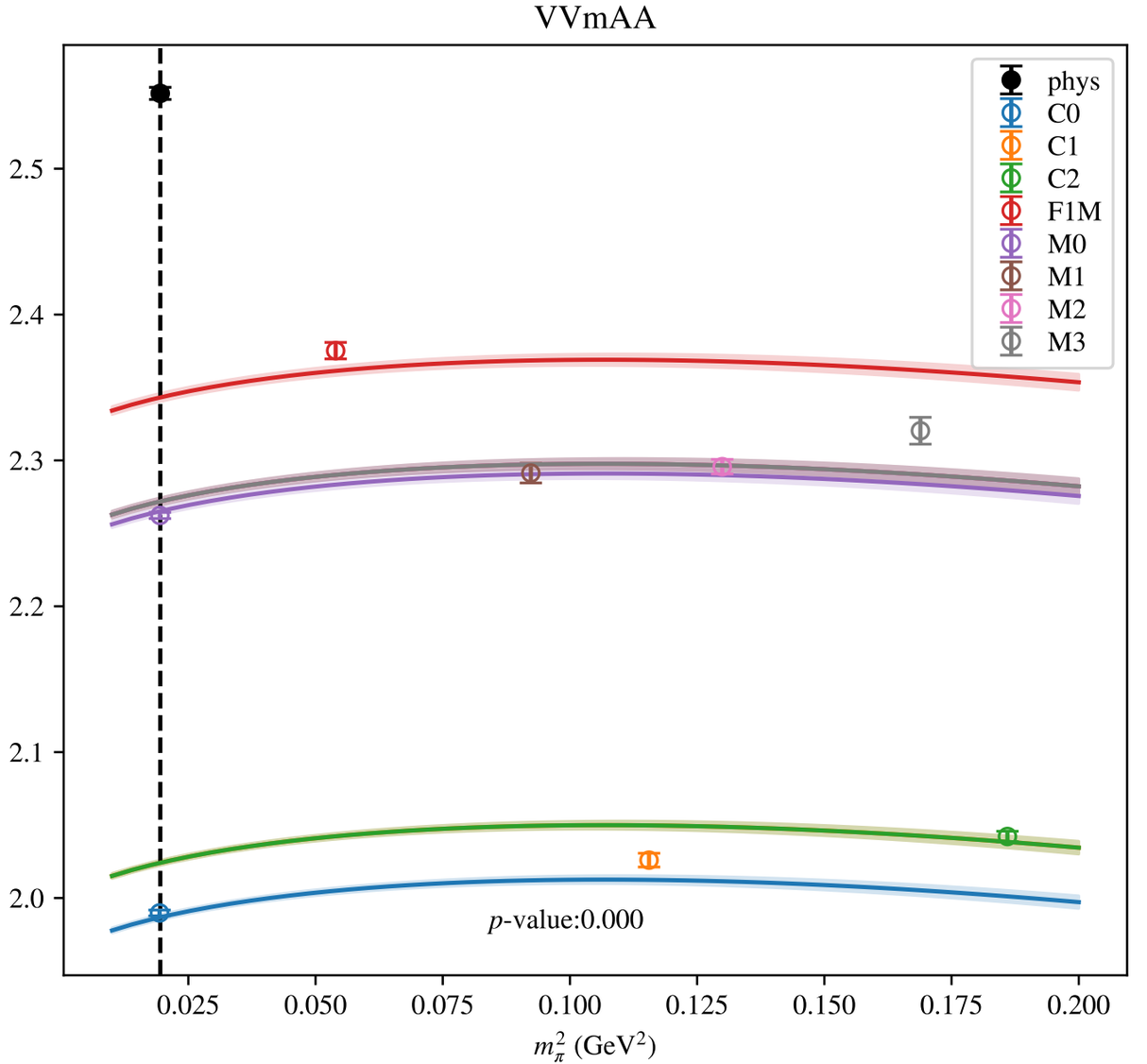
a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.0$ GeV



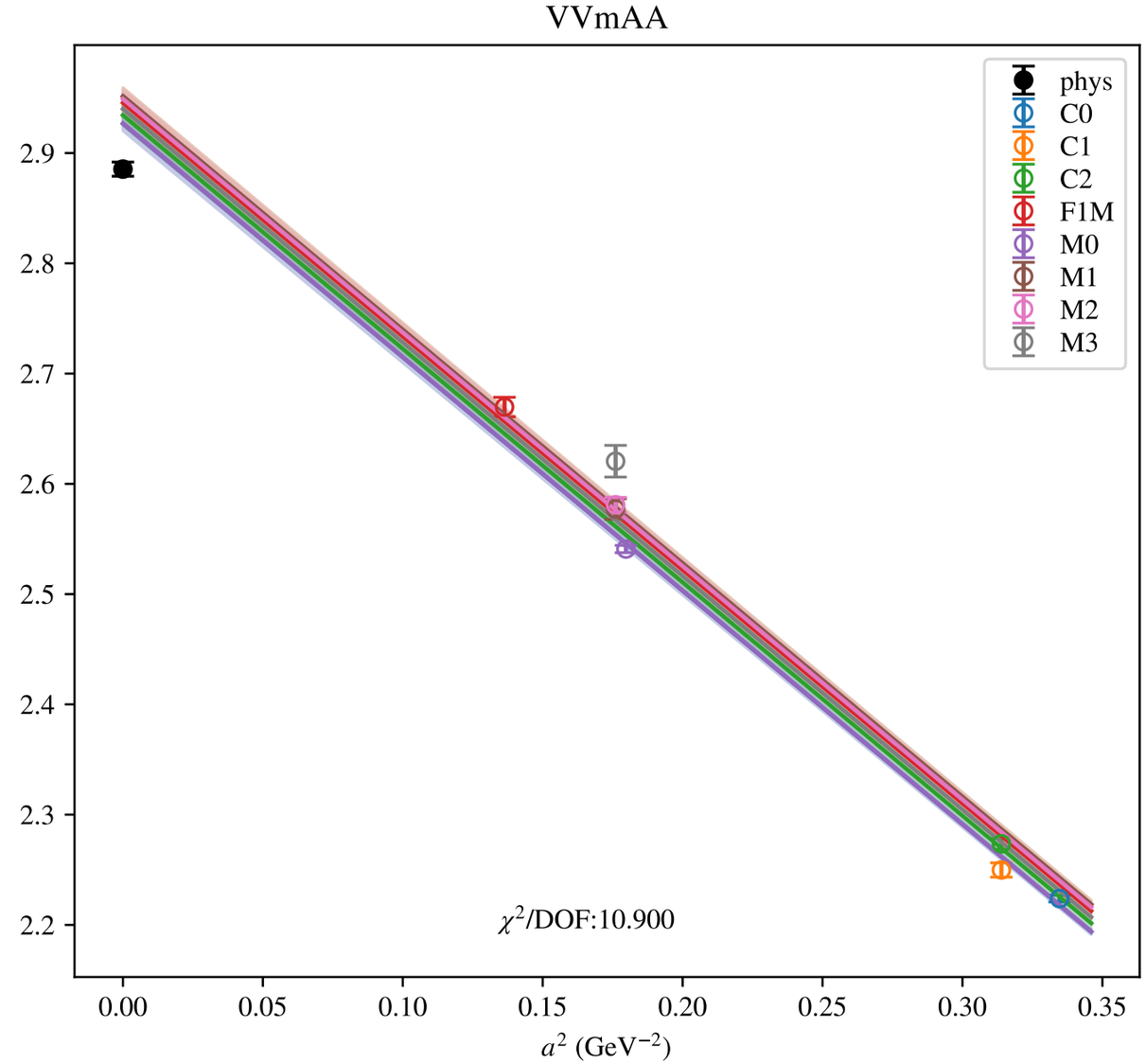


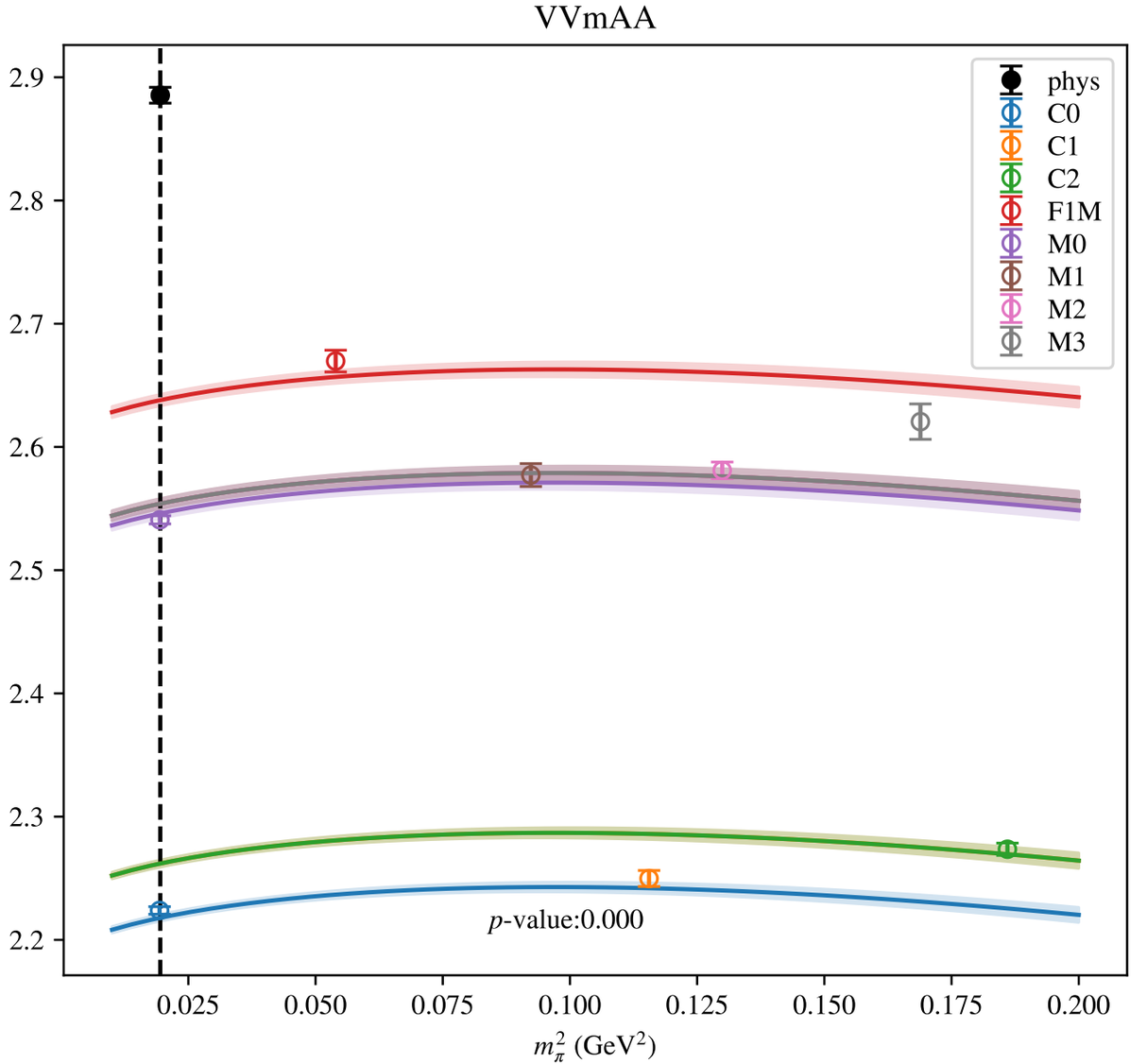
a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.8$ GeV





a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.5$ GeV





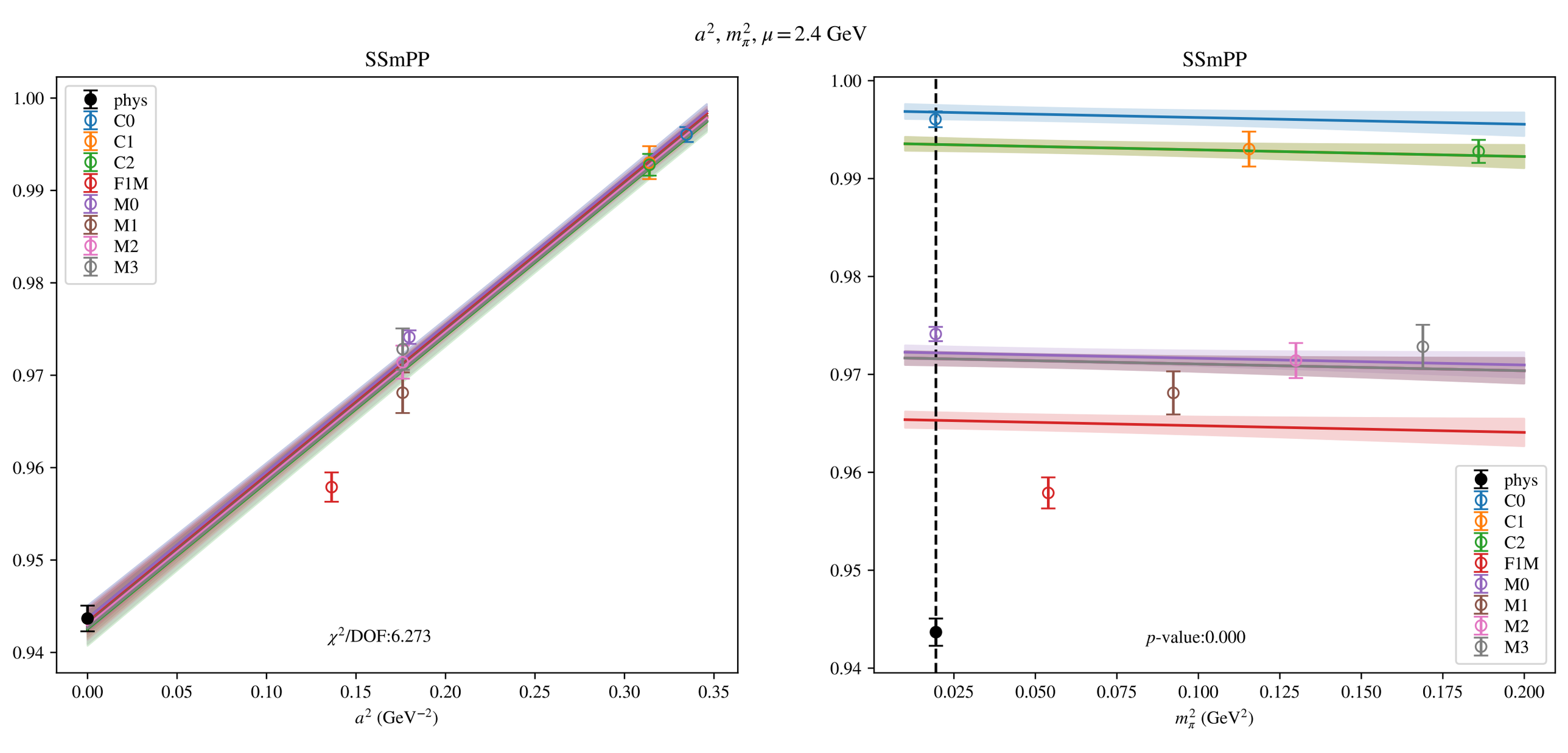
3 SSmPP

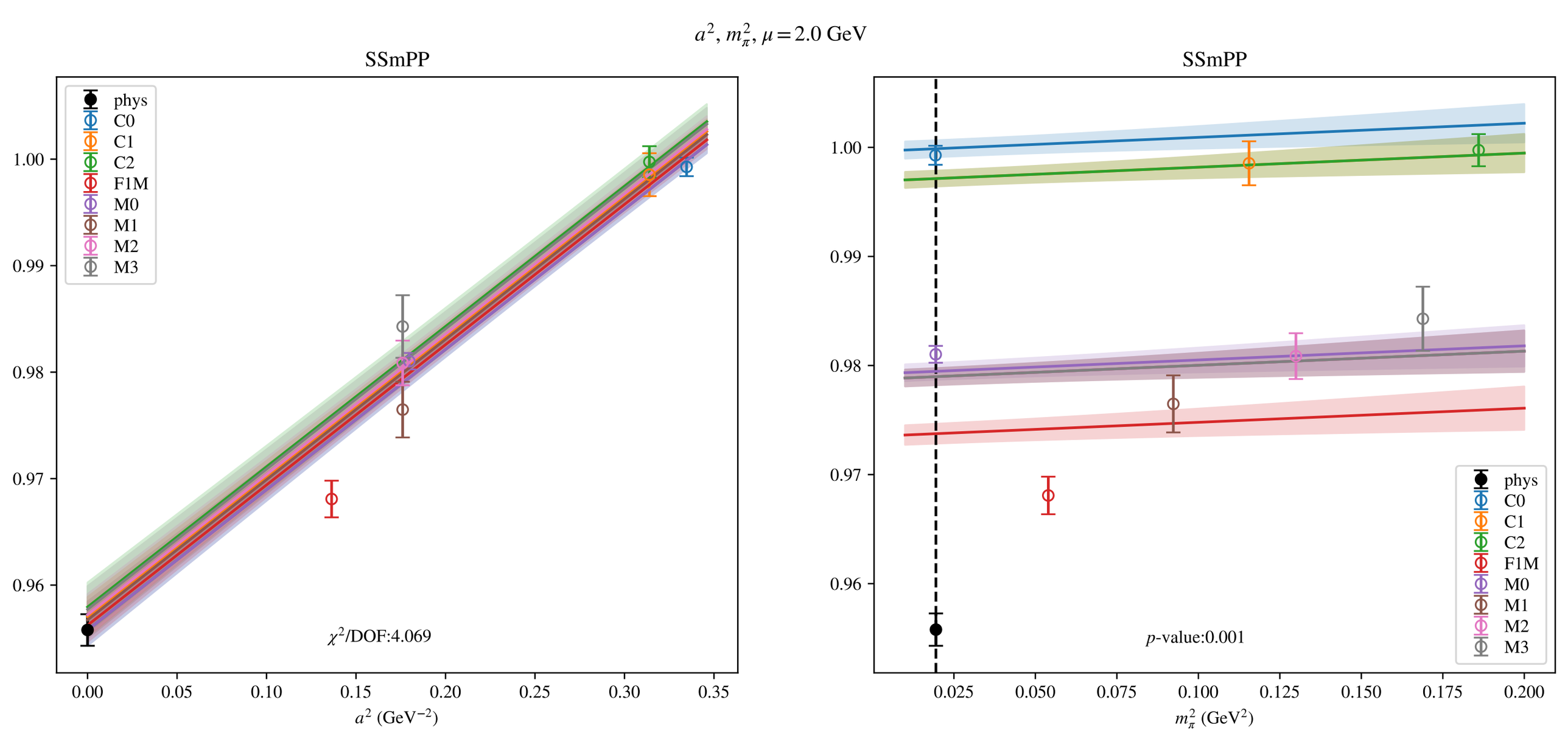
μ (GeV)	a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	**0.9436(13)**: 6.273 (0.0)	**0.9086(66)**: 1.786 (0.168)	**0.885(10)**: 1.117 (0.346)	**0.9453(14)**: 5.797 (0.0)	**0.9266(13)**: 18.643 (0.0)
2.0	**0.9557(14)**: 4.069 (0.001)	**0.9259(67)**: 1.711 (0.181)	**0.906(11)**: 1.012 (0.4)	**0.9572(15)**: 3.563 (0.007)	**0.9388(14)**: 13.53 (0.0)
1.8	**0.9631(18)**: 2.42 (0.033)	**0.9365(74)**: 2.117 (0.12)	**0.922(12)**: 1.336 (0.254)	**0.9647(17)**: 1.96 (0.098)	**0.9460(18)**: 8.945 (0.0)
1.5	**0.9741(27)**: 1.372 (0.231)	**0.9523(94)**: 2.007 (0.134)	**0.947(15)**: 1.41 (0.228)	**0.9759(24)**: 1.054 (0.378)	**0.9565(27)**: 4.87 (0.0)

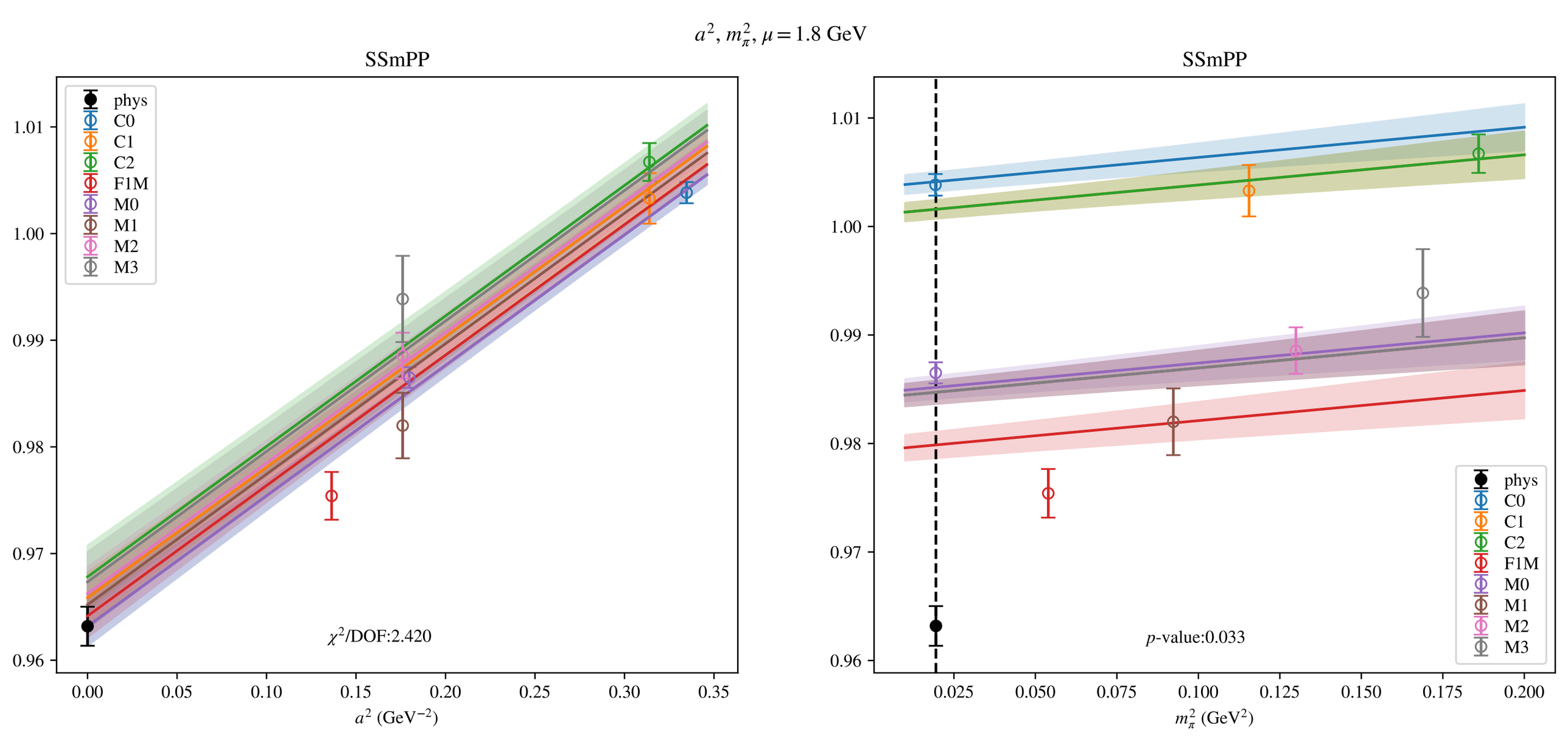
Table 5: Physical point value from chiral and continuum extrapolation at renormalisation scale μ. Entries are **value(error)**: χ^2/DOF (p-value).

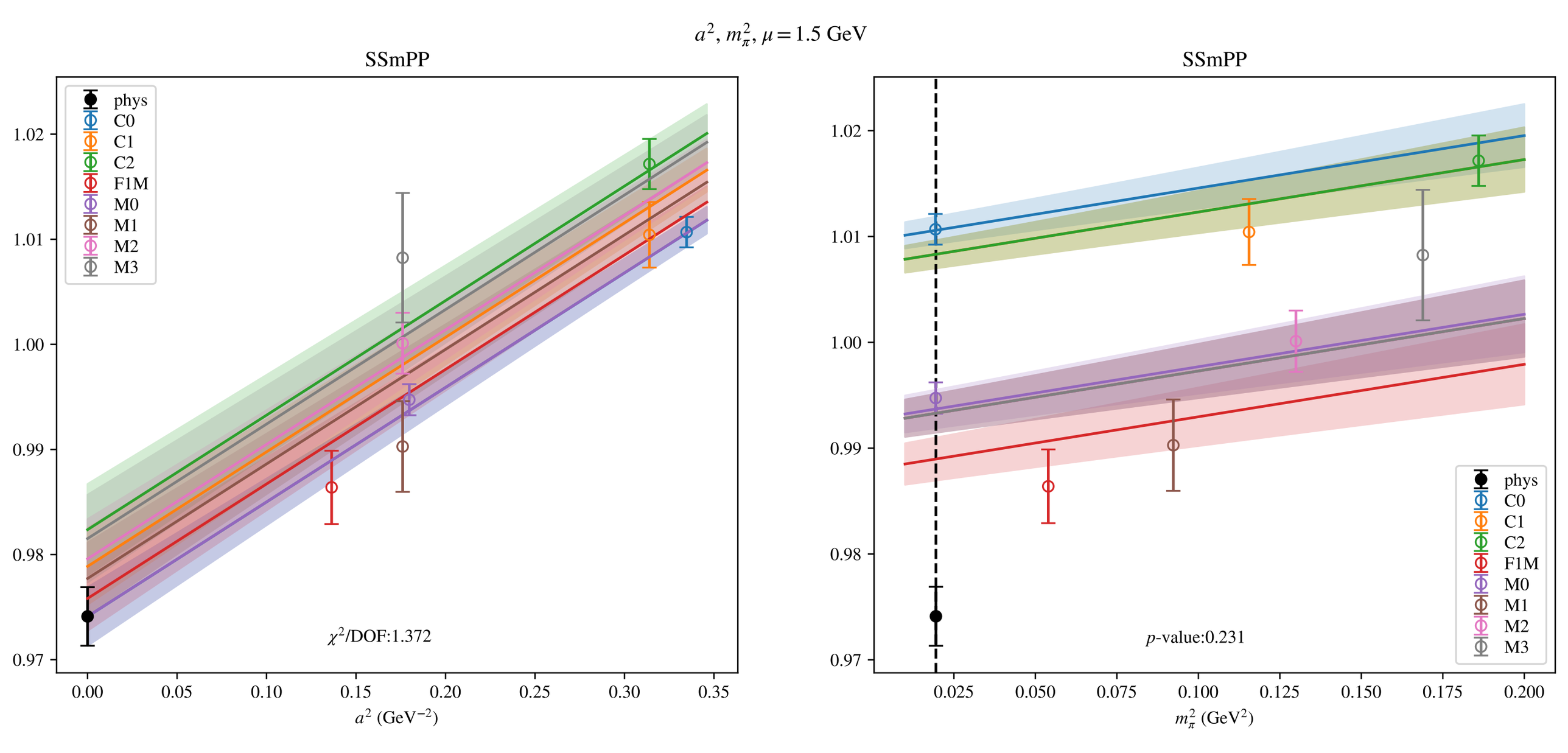
μ (GeV)		a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	α	0.1681(56)	0.399(44)	0.76(11)	0.1609(60)	0.1834(56)
	β	-0.0001(12)	-0.0001(22)	-0.0003(14)	-0.0020(64)	-0.0048(12)
2.0	α	0.1378(56)	0.330(43)	0.63(11)	0.1316(60)	0.1515(56)
	β	0.00023(15)	0.00022(29)	0.0	-0.0016(71)	-0.0045(16)
1.8	α	0.1270(59)	0.295(46)	0.52(12)	0.1206(60)	0.1410(59)
	β	0.00049(17)	0.00053(30)	0.00036(19)	-0.0013(74)	-0.0043(17)
1.5	α	0.1119(69)	0.245(53)	0.36(14)	0.1047(64)	0.1262(70)
	β	0.00086(20)	0.00102(36)	0.00078(23)	-0.0010(90)	-0.0039(20)

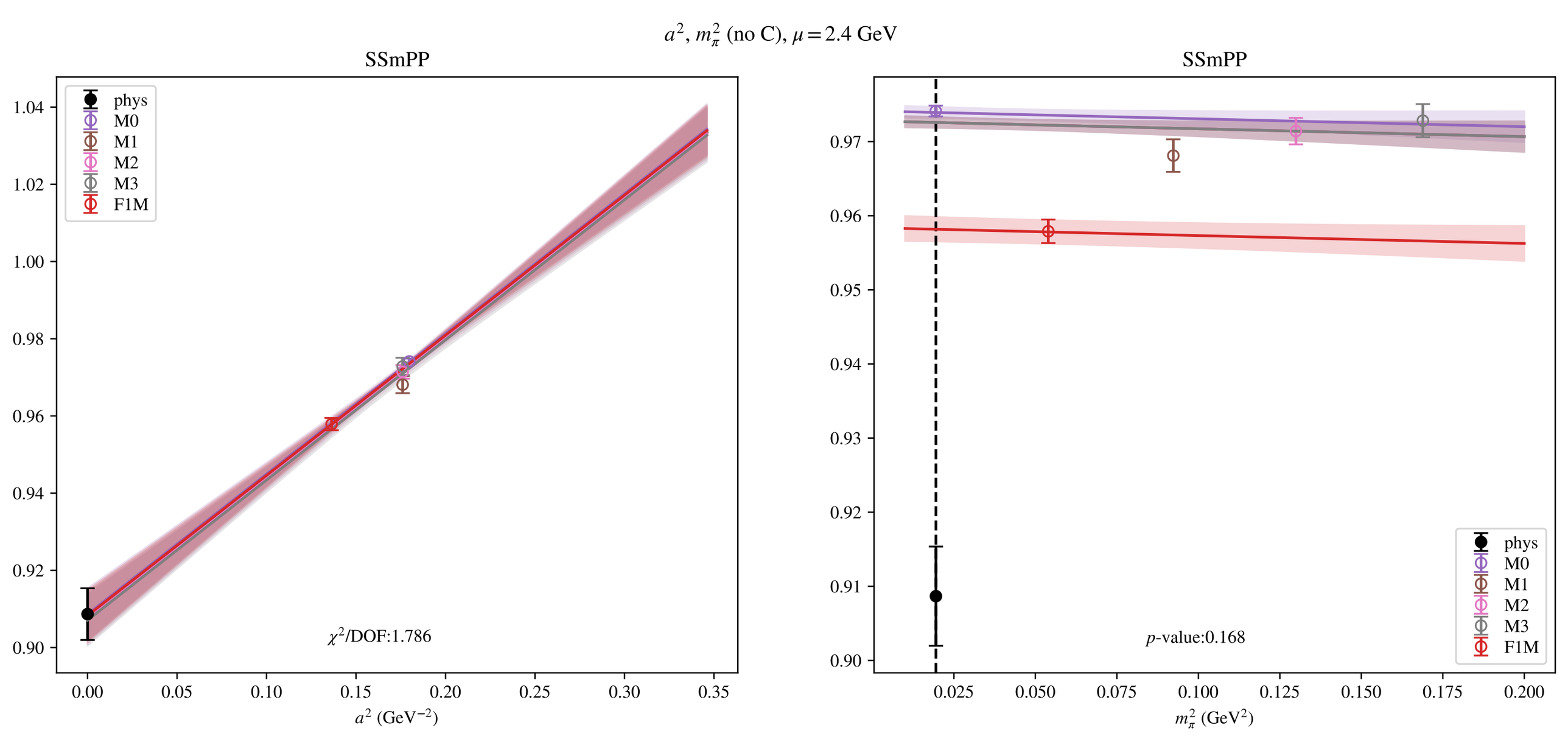
Table 6: Fit values of coefficients in $B = B_0(1 + \alpha a^2 + \beta \frac{m_\pi^2}{f_\pi^2} + \ldots)$.

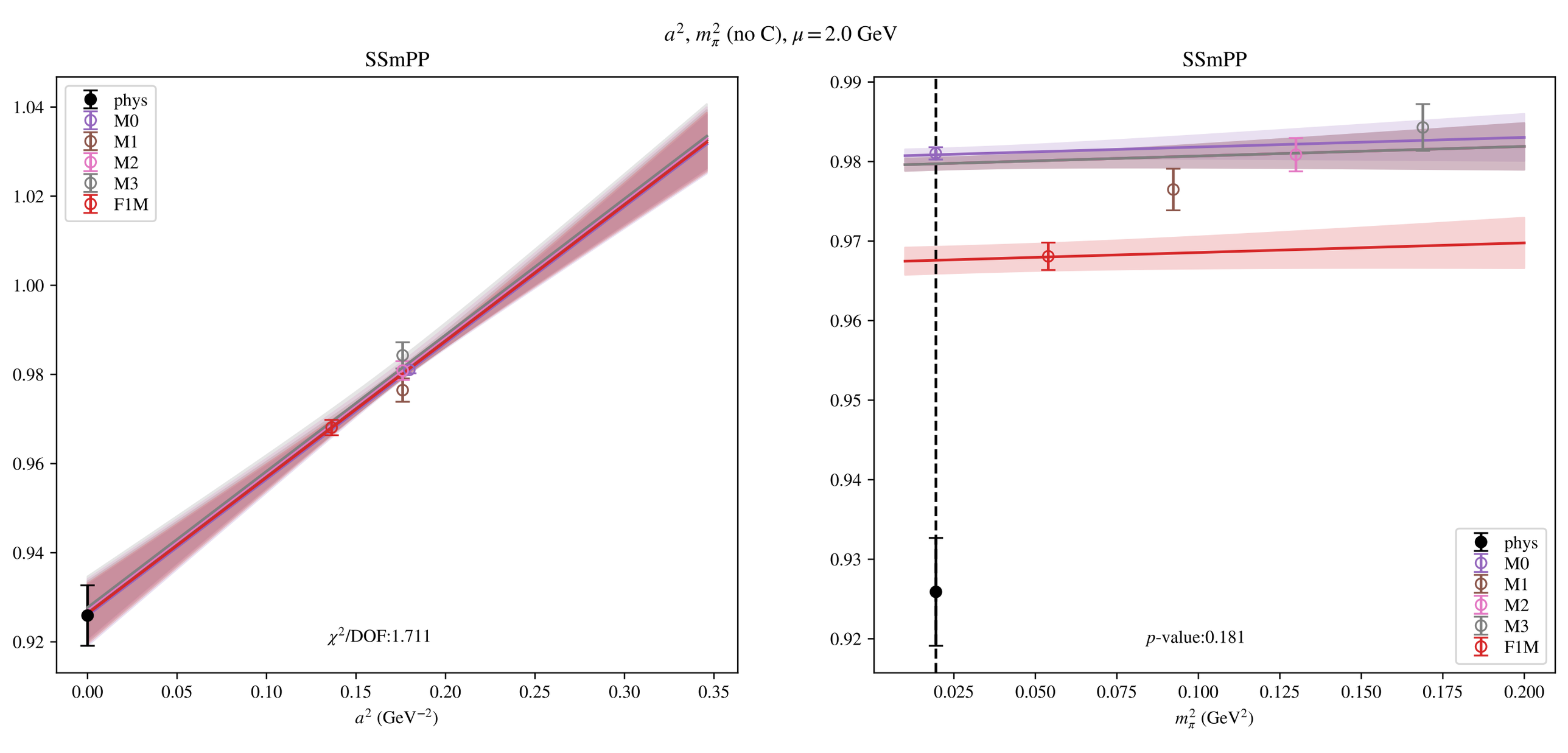

a^2, m_π^2, $\mu = 2.4$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:6.273
a^2 (GeV^{-2})
SSmPP
p-value:0.000
m_π^2 (GeV^2)

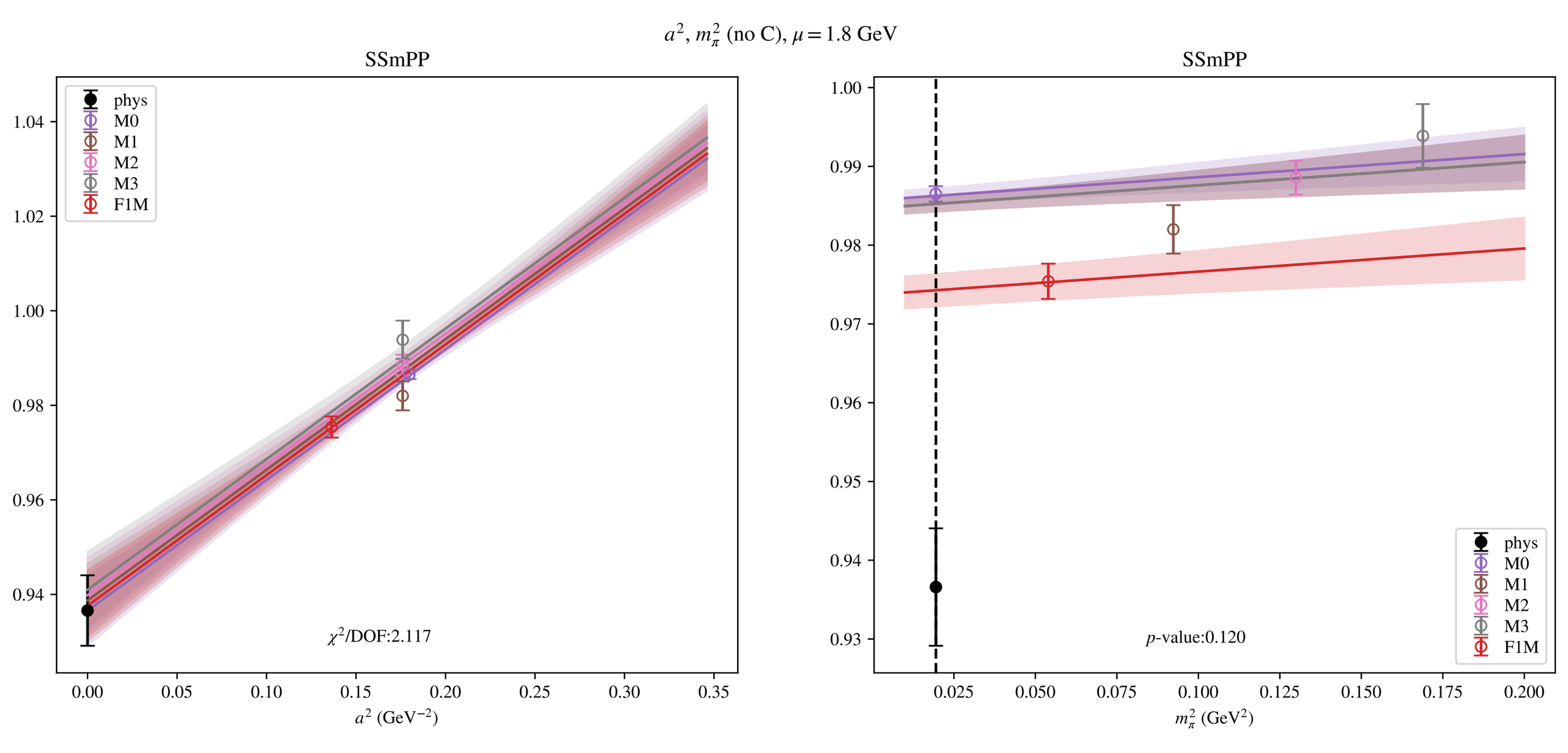

a^2, m_π^2, $\mu = 2.0$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.00
0.99
0.98
0.97
0.96
χ^2/DOF:4.069
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.00
0.99
0.98
0.97
0.96
p-value:0.001
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

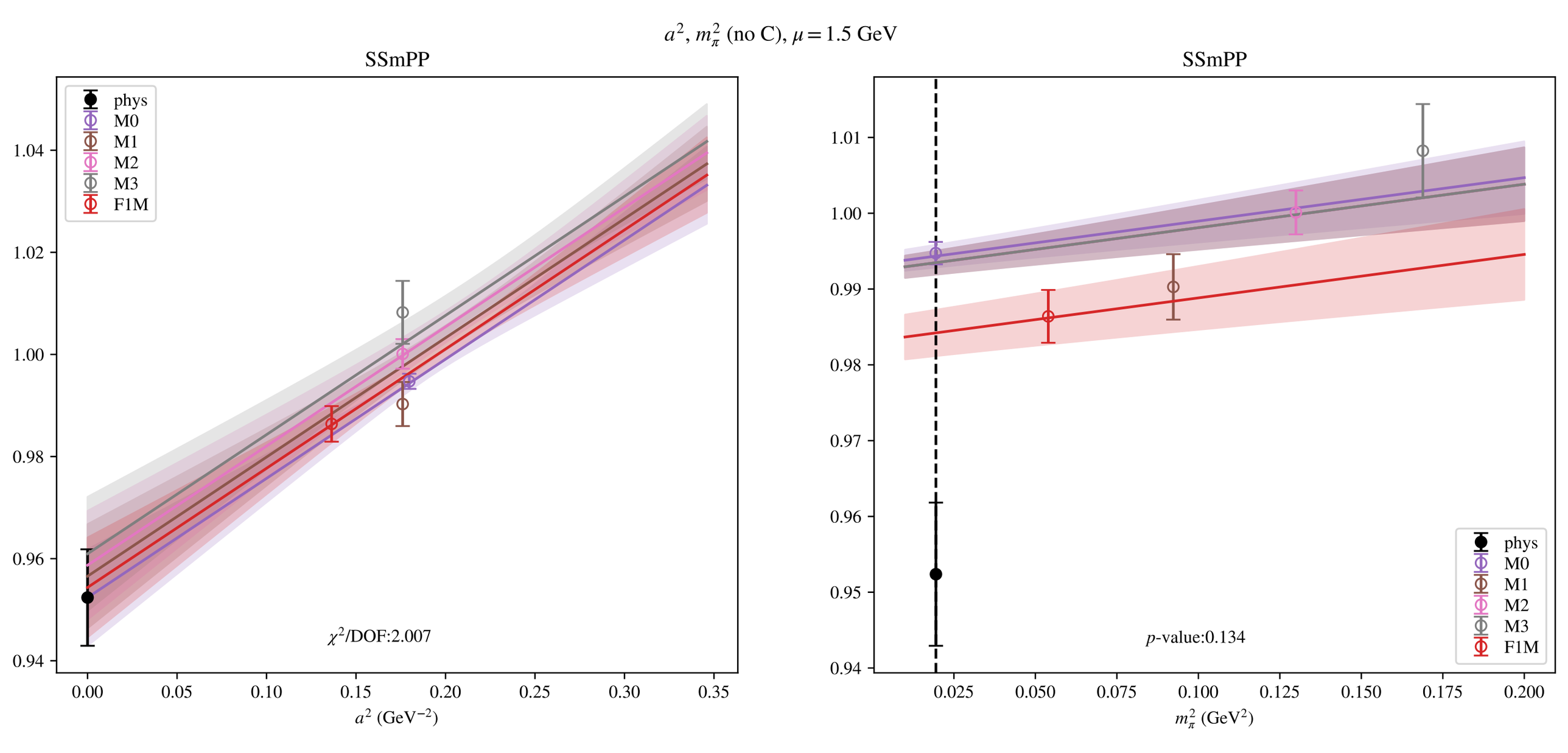

$a^2, m_\pi^2, \mu = 1.8$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.01
1.00
0.99
0.98
0.97
0.96
χ^2/DOF:2.420
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.01
1.00
0.99
0.98
0.97
0.96
p-value:0.033
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


$a^2, m_\pi^2, \mu = 1.5$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.02
1.01
1.00
0.99
0.98
0.97
χ^2/DOF:1.372
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.02
1.01
1.00
0.99
0.98
0.97
p-value:0.231
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

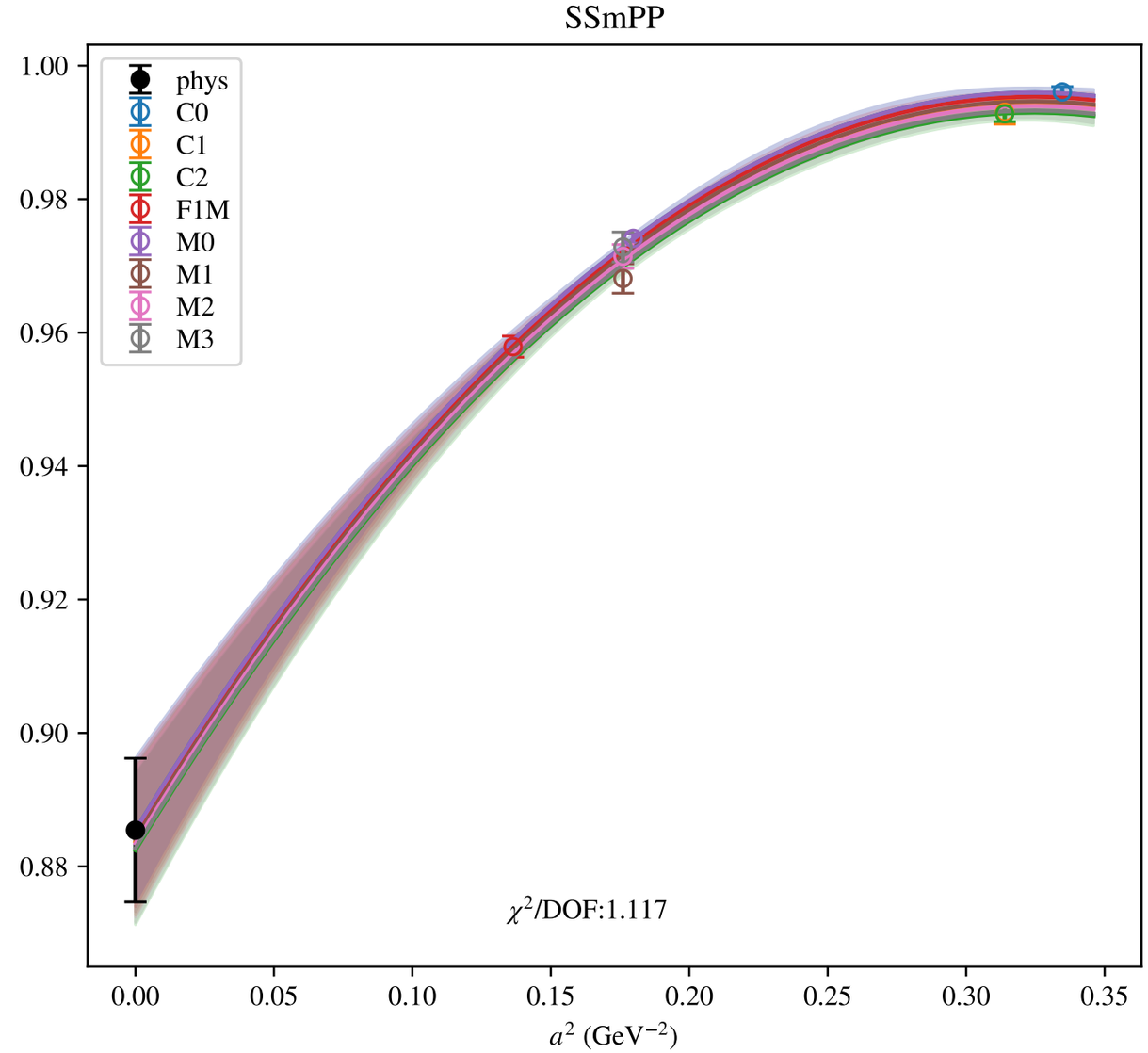

a^2, m_π^2 (no C), $\mu = 2.4$ GeV
SSmPP
phys
M0
M1
M2
M3
F1M
χ^2/DOF:1.786
a^2 (GeV^{-2})
SSmPP
p-value:0.168
m_π^2 (GeV^2)

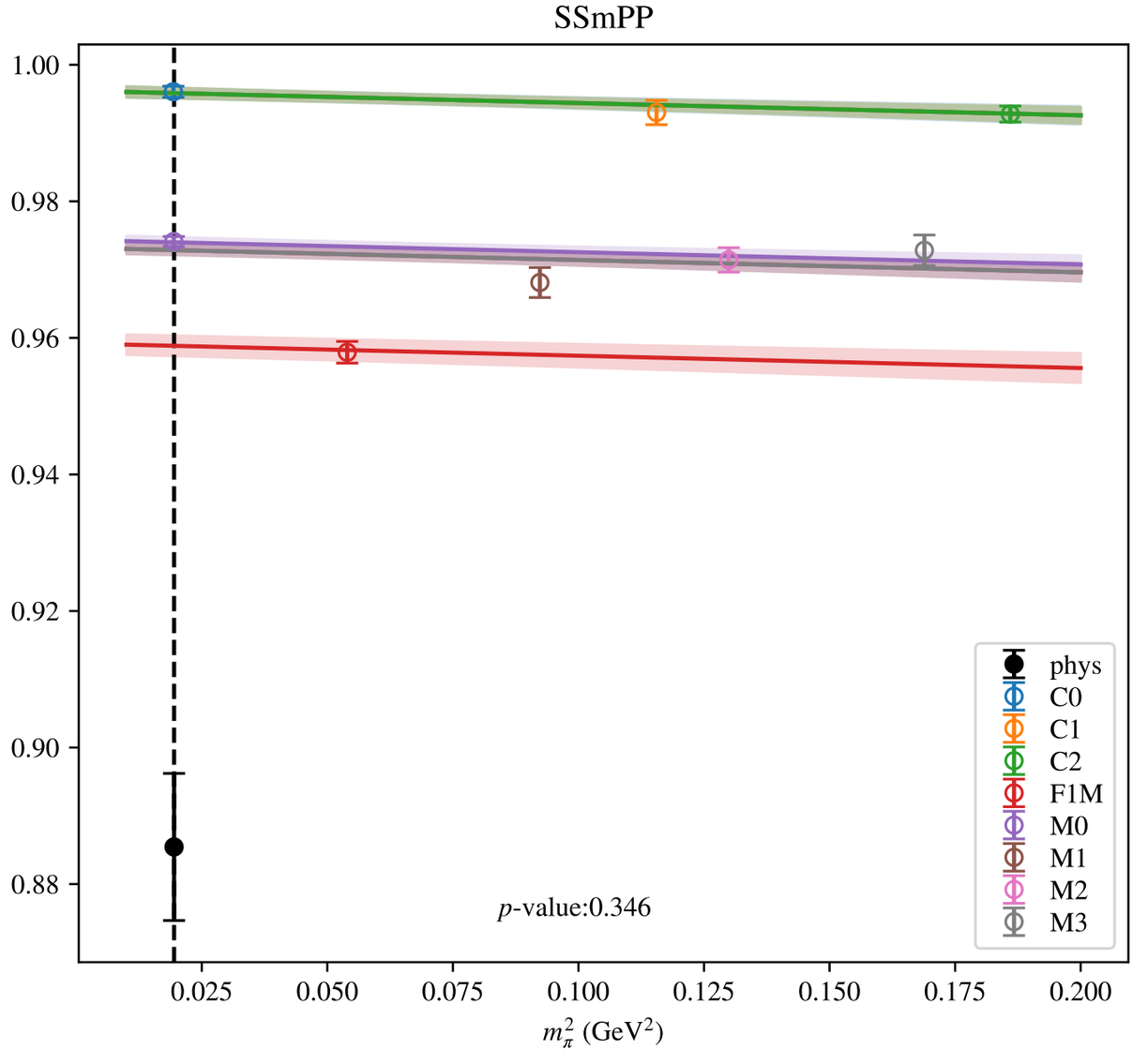

a^2, m_π^2 (no C), $\mu = 2.0$ GeV
SSmPP
phys
M0
M1
M2
M3
F1M
1.04
1.02
1.00
0.98
0.96
0.94
0.92
χ^2/DOF:1.711
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
0.99
0.98
0.97
0.96
0.95
0.94
0.93
0.92
p-value:0.181
phys
M0
M1
M2
M3
F1M
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

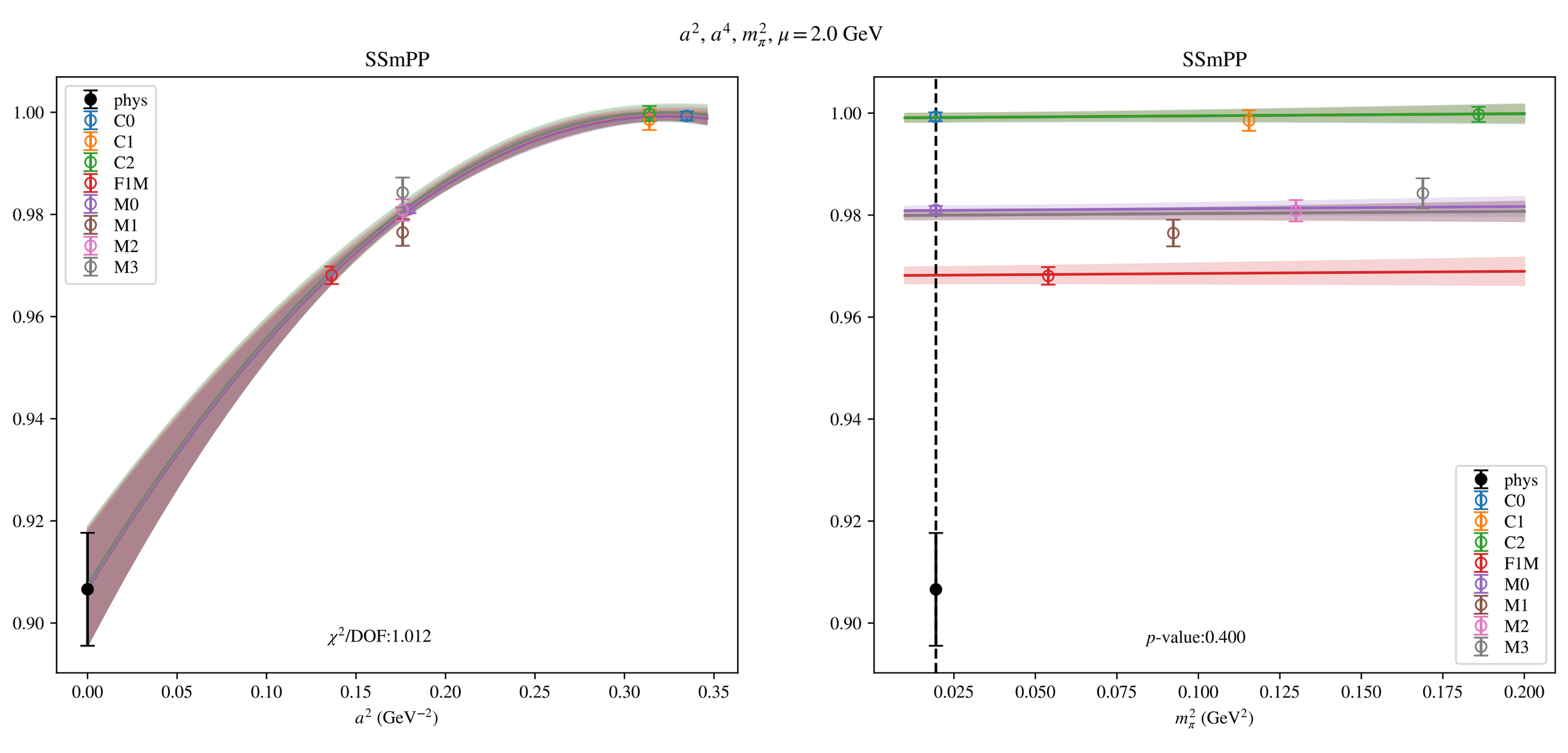

a^2, m_π^2 (no C), $\mu = 1.8$ GeV
SSmPP
phys
M0
M1
M2
M3
F1M
χ^2/DOF:2.117
a^2 (GeV^{-2})
SSmPP
p-value:0.120
m_π^2 (GeV^2)

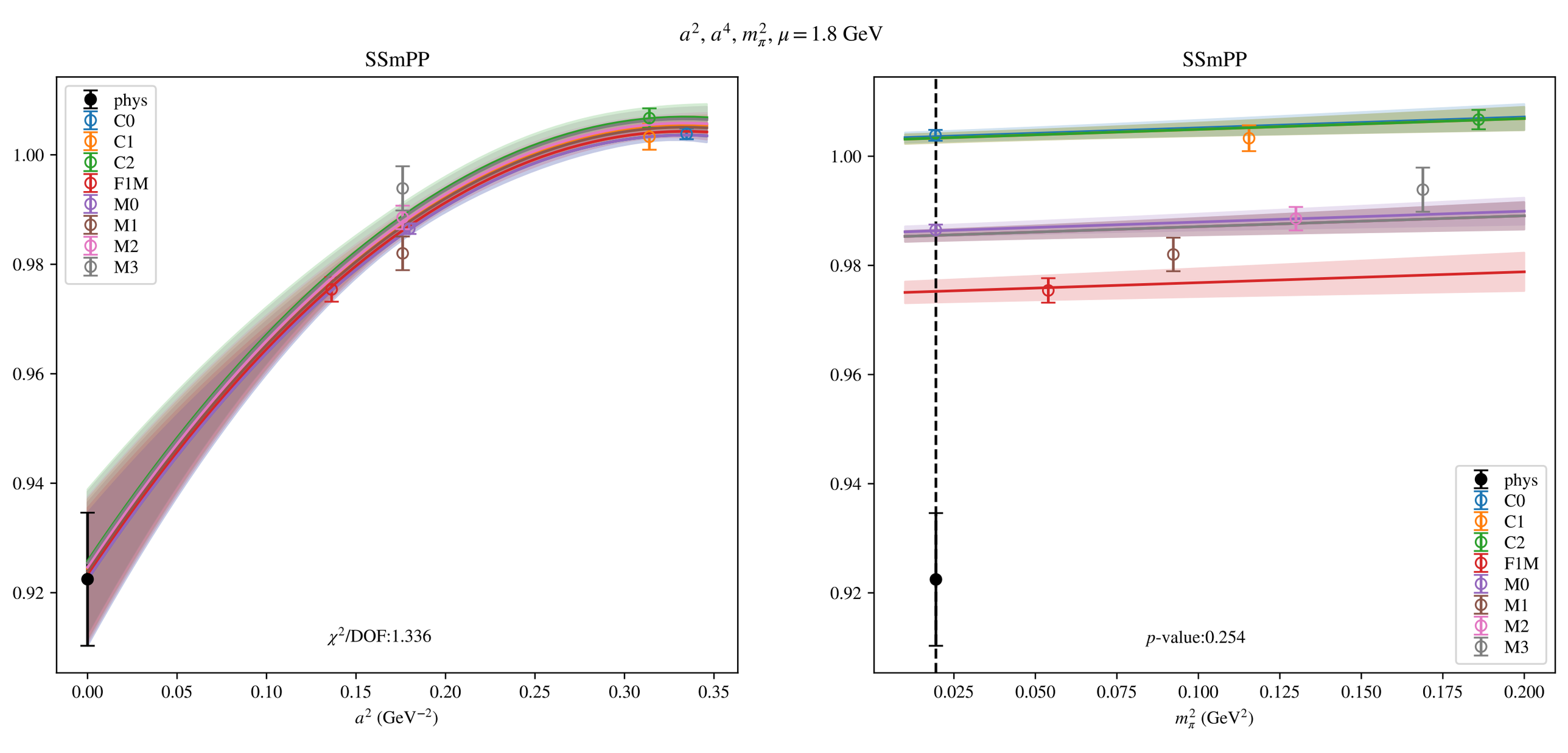

a^2, m_π^2 (no C), $\mu = 1.5$ GeV
SSmPP
phys
M0
M1
M2
M3
F1M
χ^2/DOF:2.007
a^2 (GeV^{-2})
SSmPP
p-value:0.134
m_π^2 (GeV^2)

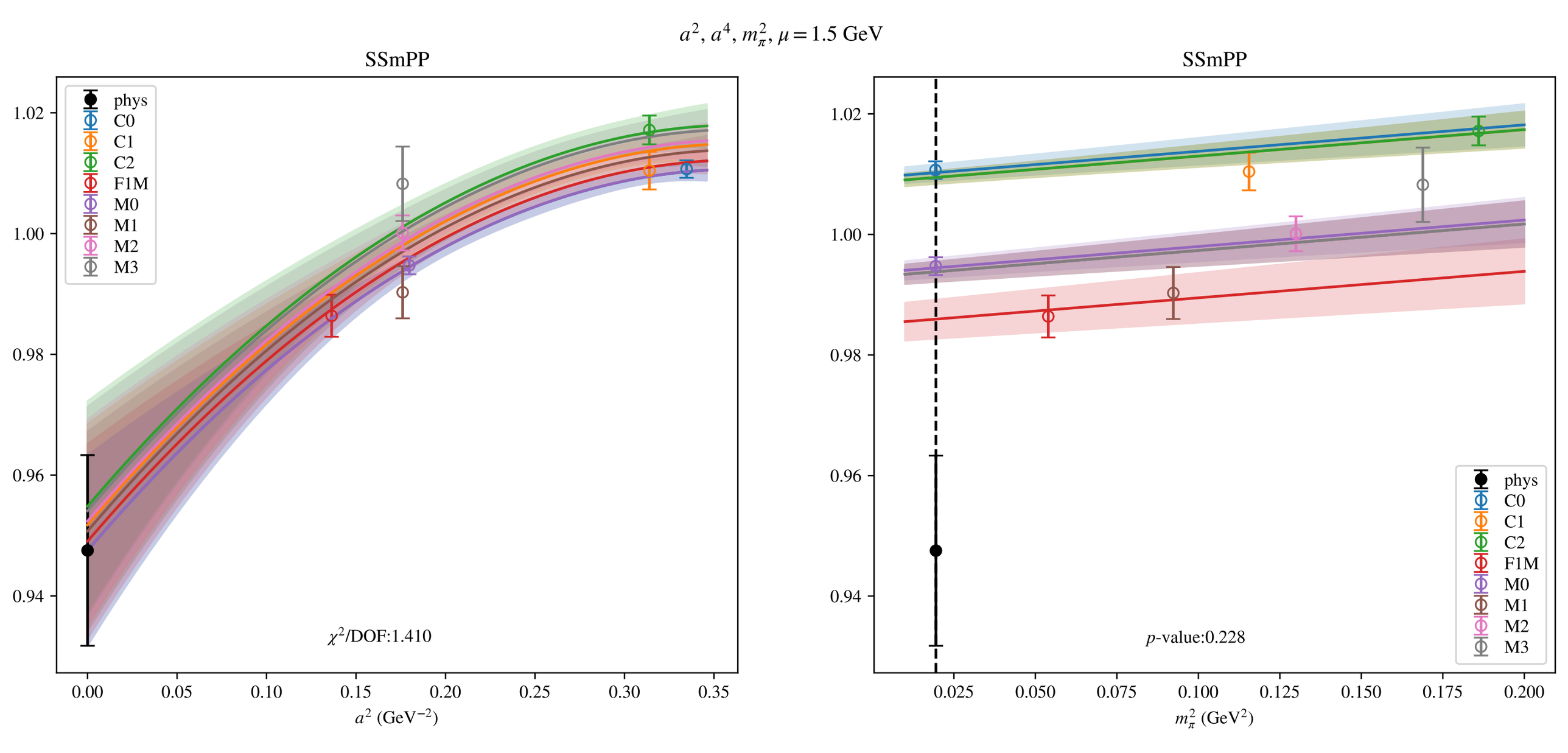
$a^2, a^4, m_\pi^2, \mu = 2.4$ GeV

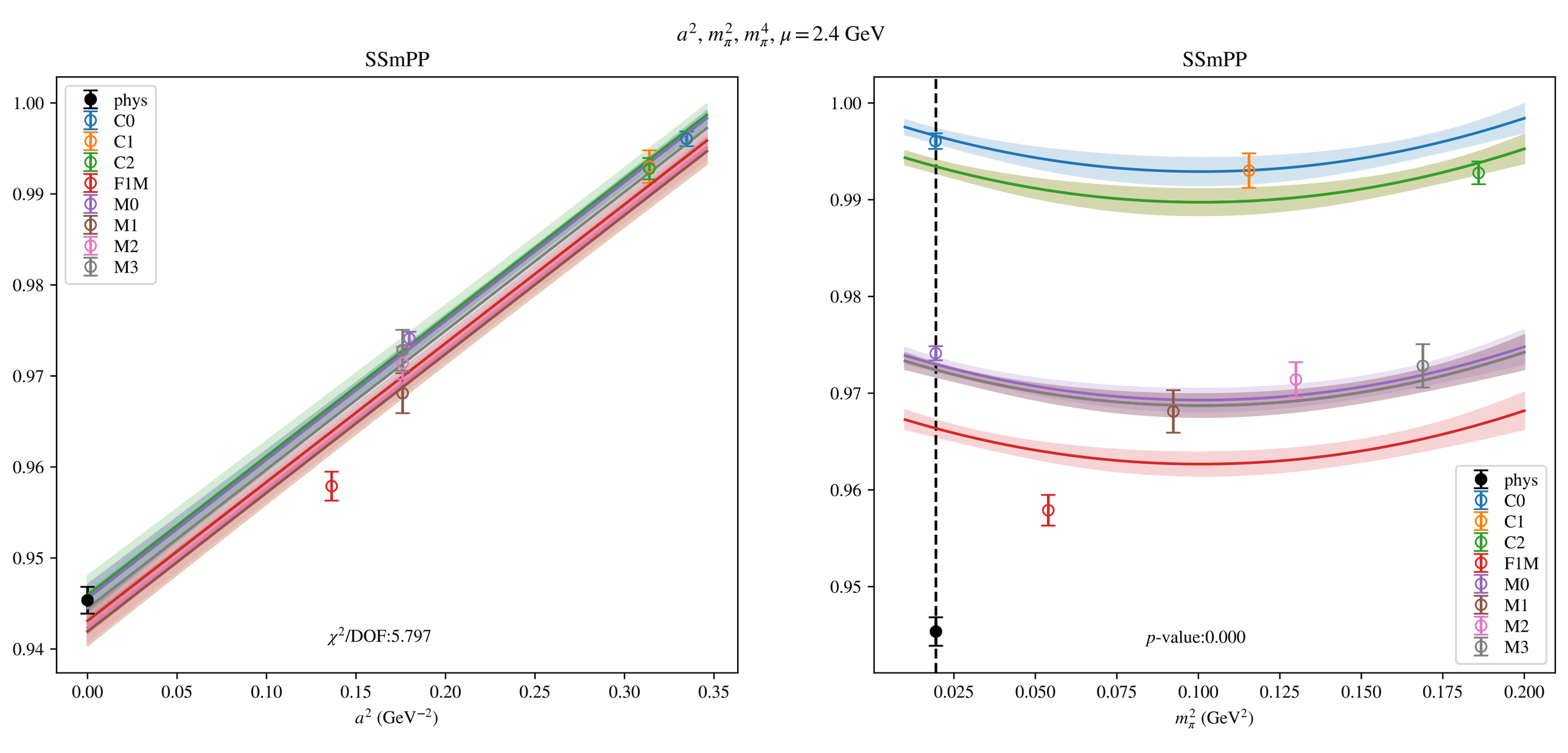


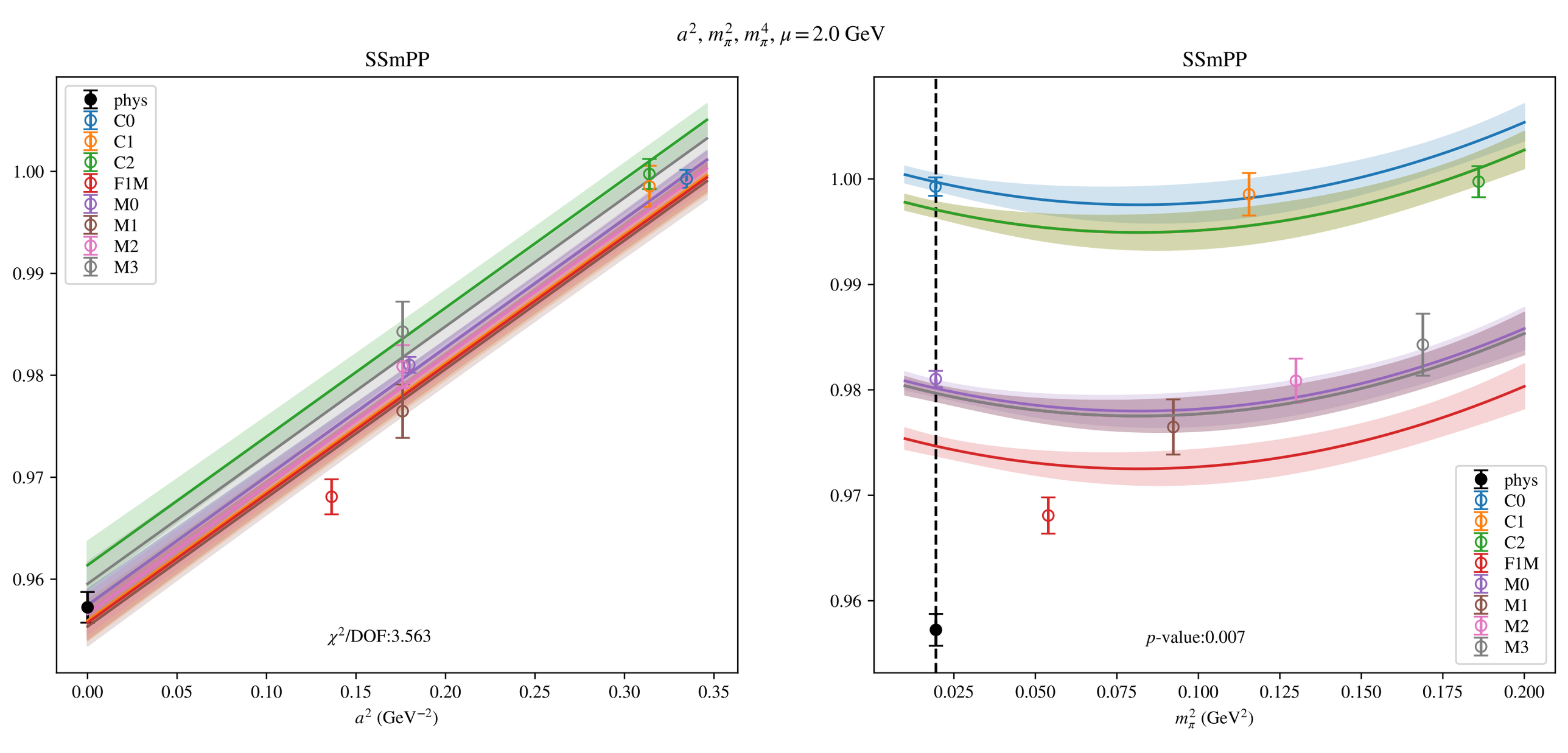


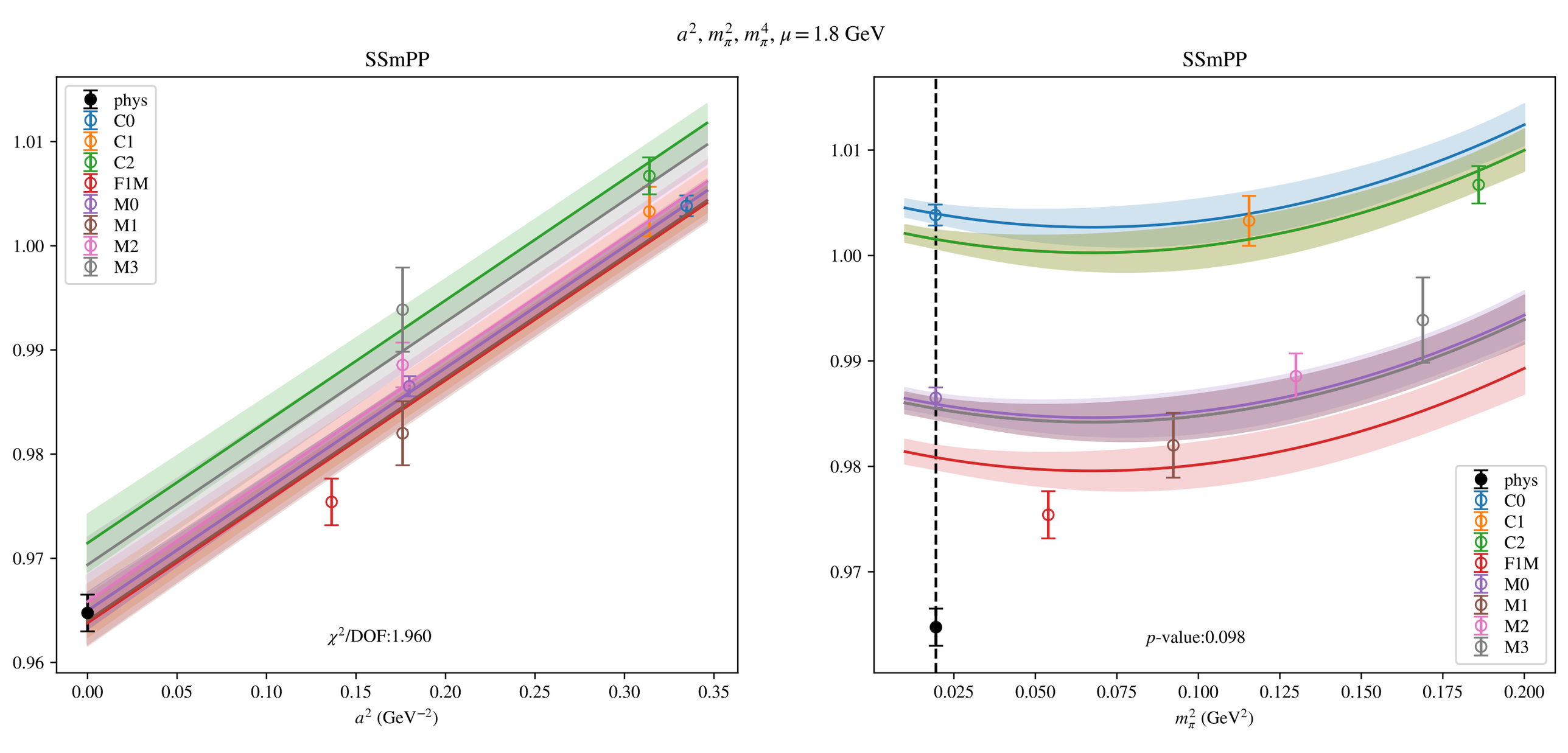

$a^2, a^4, m_\pi^2, \mu = 2.0$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.00
0.98
0.96
0.94
0.92
0.90
χ^2/DOF:1.012
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
p-value:0.400
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

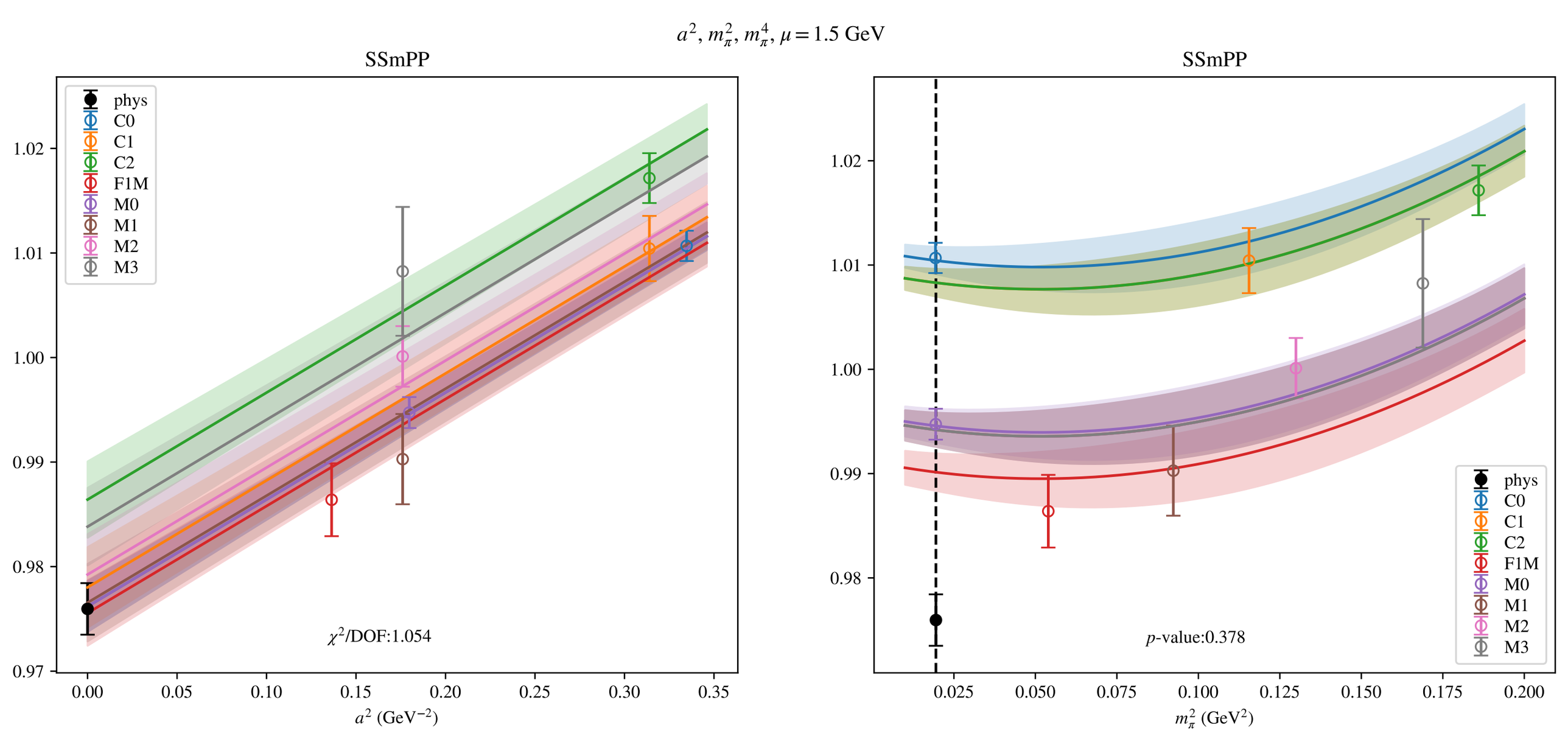

$a^2, a^4, m_\pi^2, \mu = 1.8$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.00
0.98
0.96
0.94
0.92
χ^2/DOF:1.336
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.00
0.98
0.96
0.94
0.92
p-value:0.254
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

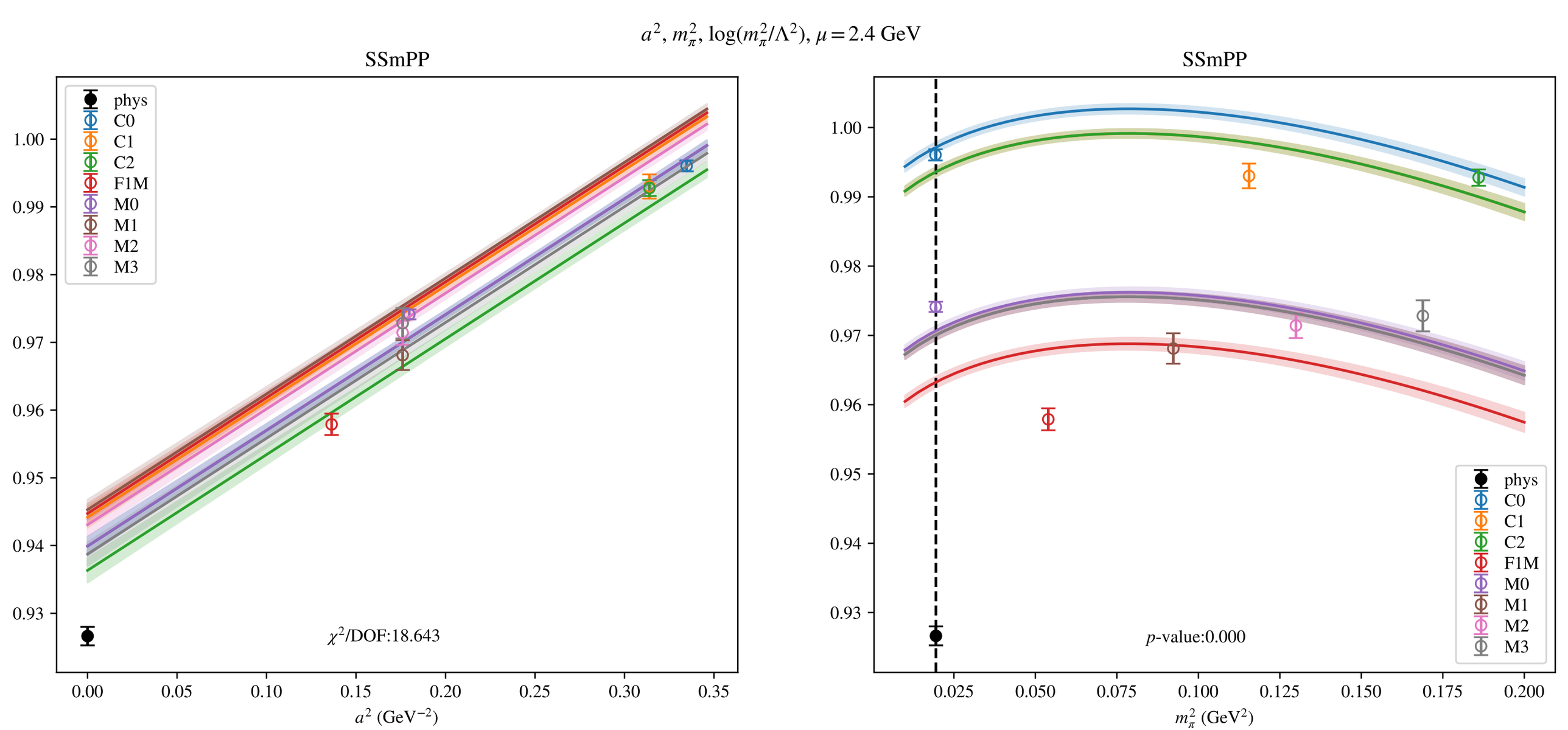

$a^2, a^4, m_\pi^2, \mu = 1.5$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.02
1.00
0.98
0.96
0.94
χ^2/DOF:1.410
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.02
1.00
0.98
0.96
0.94
p-value:0.228
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

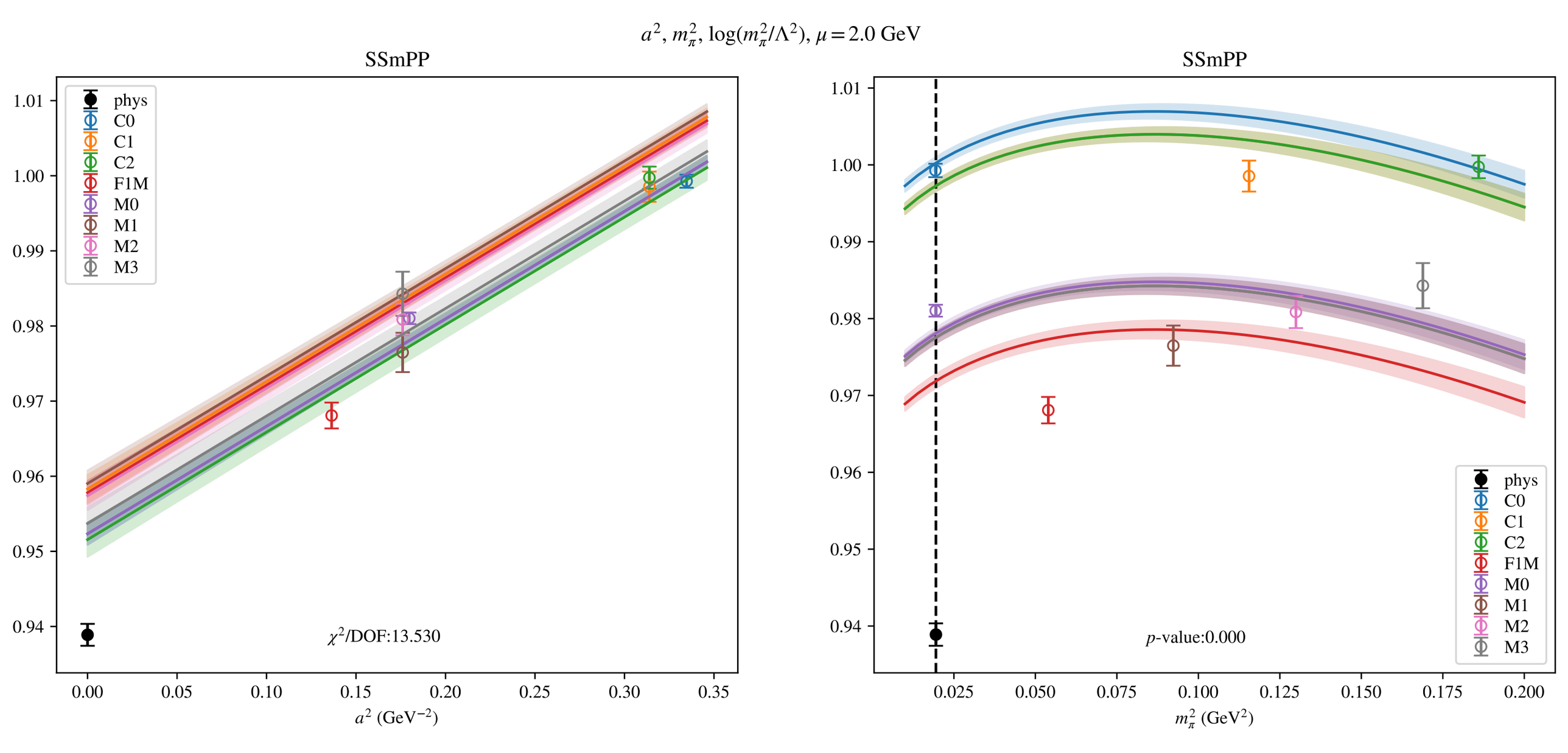

$a^2, m_\pi^2, m_\pi^4, \mu = 2.4$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.00
0.99
0.98
0.97
0.96
0.95
0.94
χ^2/DOF:5.797
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.00
0.99
0.98
0.97
0.96
0.95
p-value:0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)
phys
C0
C1
C2
F1M
M0
M1
M2
M3

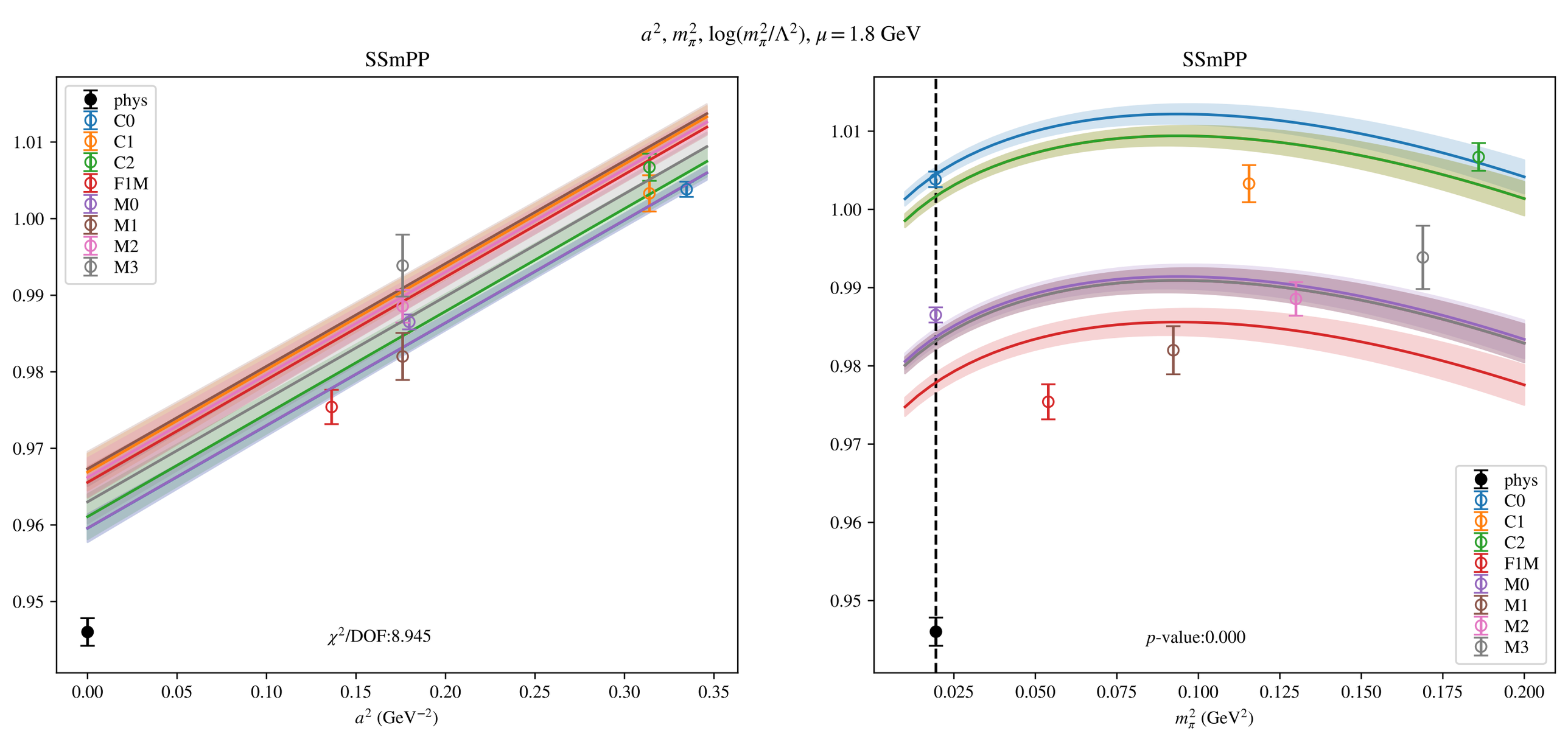

$a^2, m_\pi^2, m_\pi^4, \mu = 2.0$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.00
0.99
0.98
0.97
0.96
χ^2/DOF:3.563
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.00
0.99
0.98
0.97
0.96
p-value:0.007
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

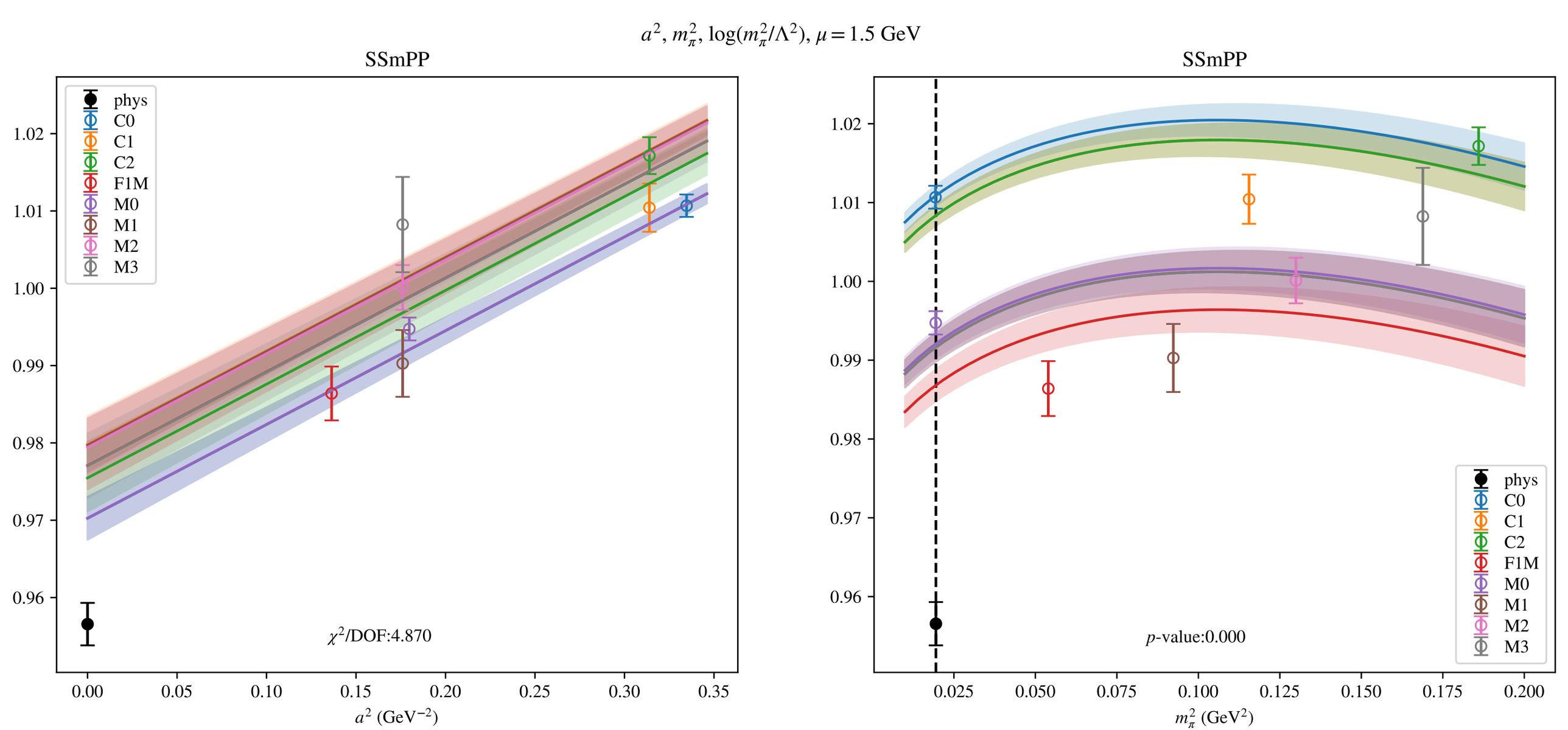

$a^2, m_\pi^2, m_\pi^4, \mu = 1.8$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.01
1.00
0.99
0.98
0.97
0.96
χ^2/DOF:1.960
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.01
1.00
0.99
0.98
0.97
p-value:0.098
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


$a^2, m_\pi^2, m_\pi^4, \mu = 1.5$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.02
1.01
1.00
0.99
0.98
0.97
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
χ^2/DOF:1.054
SSmPP
1.02
1.01
1.00
0.99
0.98
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)
p-value:0.378
phys
C0
C1
C2
F1M
M0
M1
M2
M3


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.4$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.00
0.99
0.98
0.97
0.96
0.95
0.94
0.93
χ^2/DOF:18.643
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.00
0.99
0.98
0.97
0.96
0.95
0.94
0.93
p-value:0.000
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.0$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:13.530
a^2 (GeV^{-2})
SSmPP
p-value:0.000
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.8$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.01
1.00
0.99
0.98
0.97
0.96
0.95
χ^2/DOF:8.945
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.01
1.00
0.99
0.98
0.97
0.96
0.95
p-value:0.000
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.5$ GeV
SSmPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
1.02
1.01
1.00
0.99
0.98
0.97
0.96
χ^2/DOF:4.870
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSmPP
1.02
1.01
1.00
0.99
0.98
0.97
0.96
p-value:0.000
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

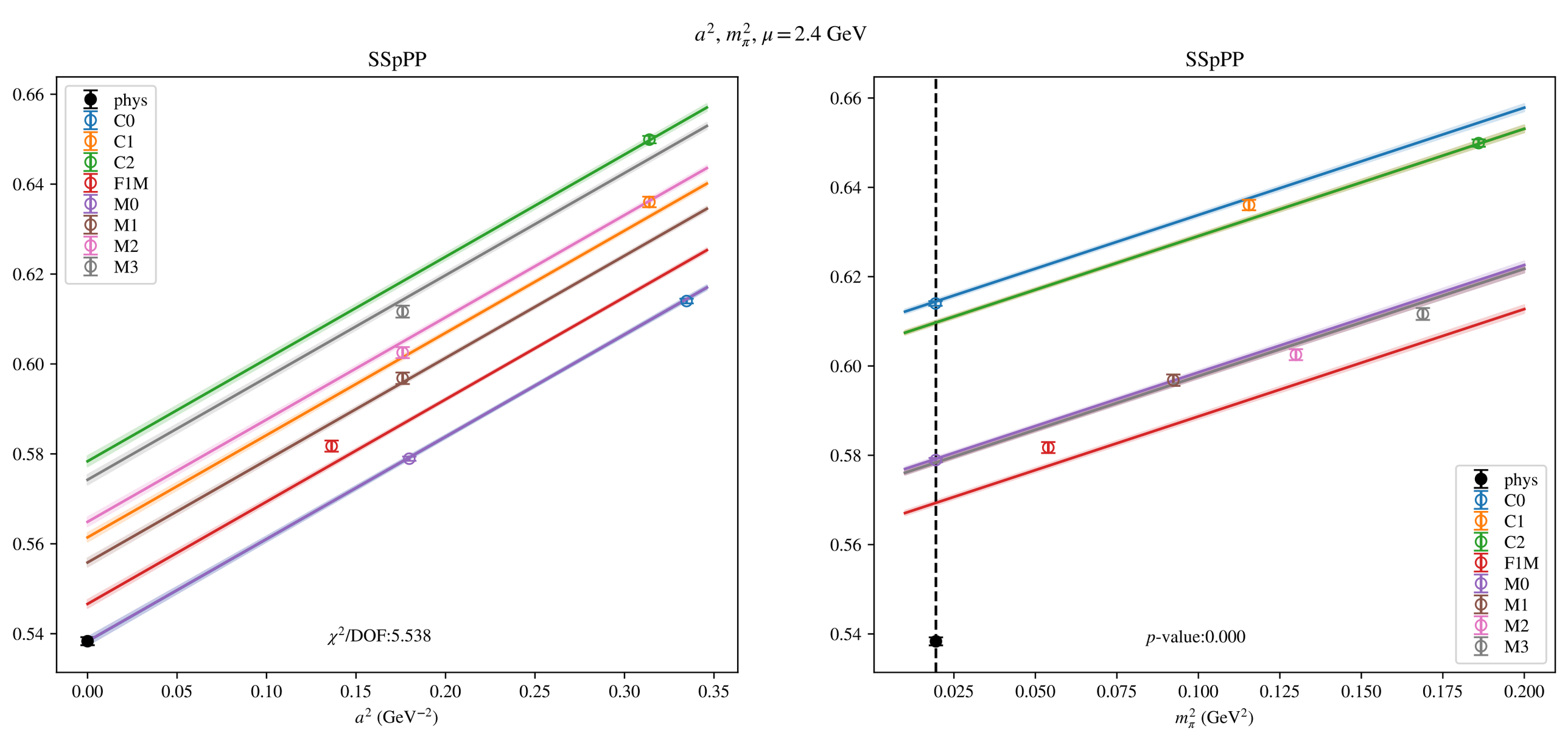
4 SSpPP

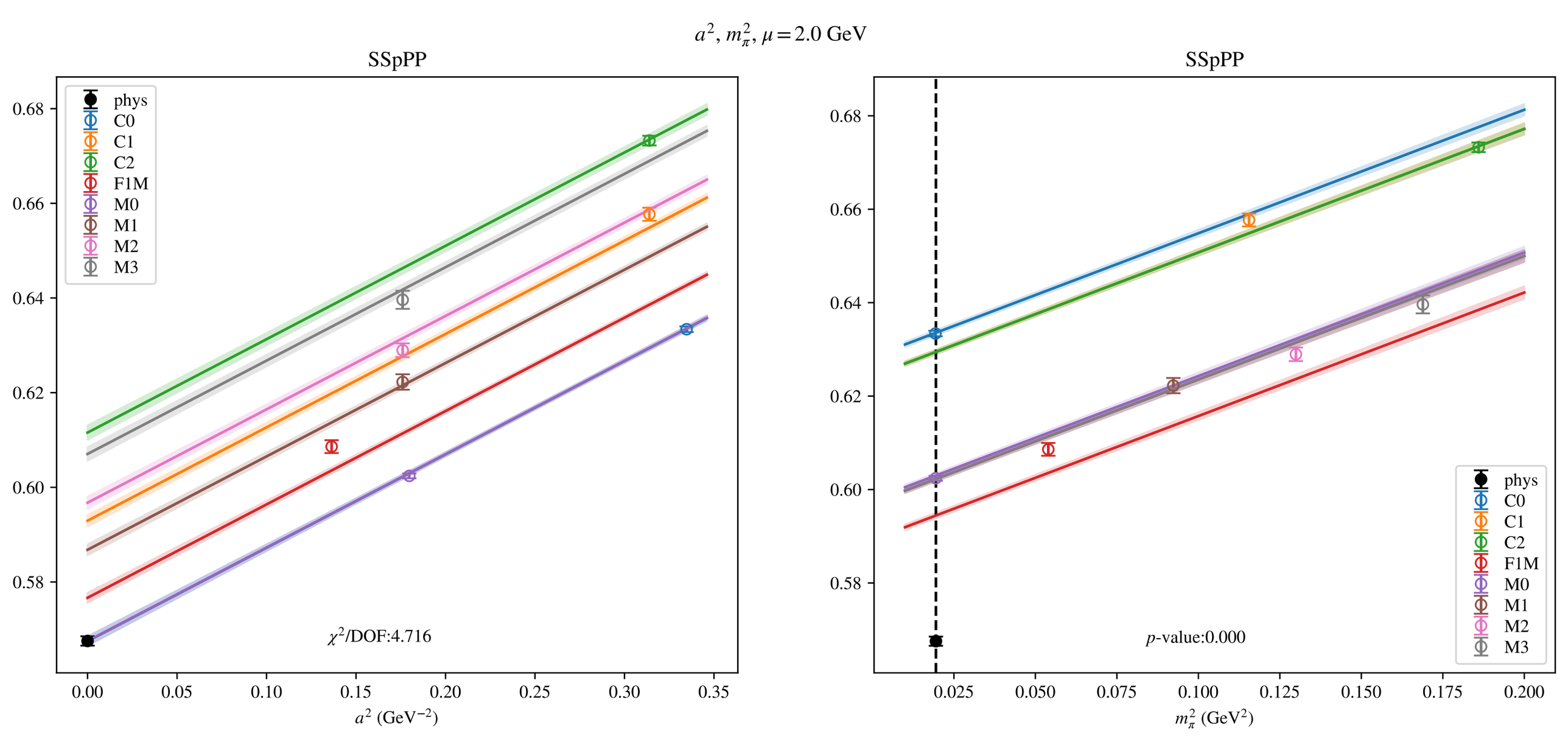
μ (GeV)	a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	**0.53833(89)**: 5.538 (0.0)	**0.5585(52)**: 1.377 (0.252)	**0.5565(86)**: 5.756 (0.0)	**0.53751(95)**: 5.517 (0.0)	**0.54787(91)**: 14.558 (0.0)
2.0	**0.56754(98)**: 4.716 (0.0)	**0.5922(55)**: 0.797 (0.451)	**0.5969(91)**: 3.427 (0.008)	**0.5666(10)**: 4.48 (0.001)	**0.57742(99)**: 12.333 (0.0)
1.8	**0.5840(12)**: 3.149 (0.008)	**0.6114(59)**: 0.41 (0.664)	**0.6210(99)**: 1.37 (0.242)	**0.5832(11)**: 3.371 (0.009)	**0.5943(12)**: 8.019 (0.0)
1.5	**0.6089(17)**: 1.887 (0.093)	**0.6400(71)**: 0.233 (0.792)	**0.657(12)**: 0.272 (0.896)	**0.6084(15)**: 2.247 (0.061)	**0.6199(18)**: 4.156 (0.001)

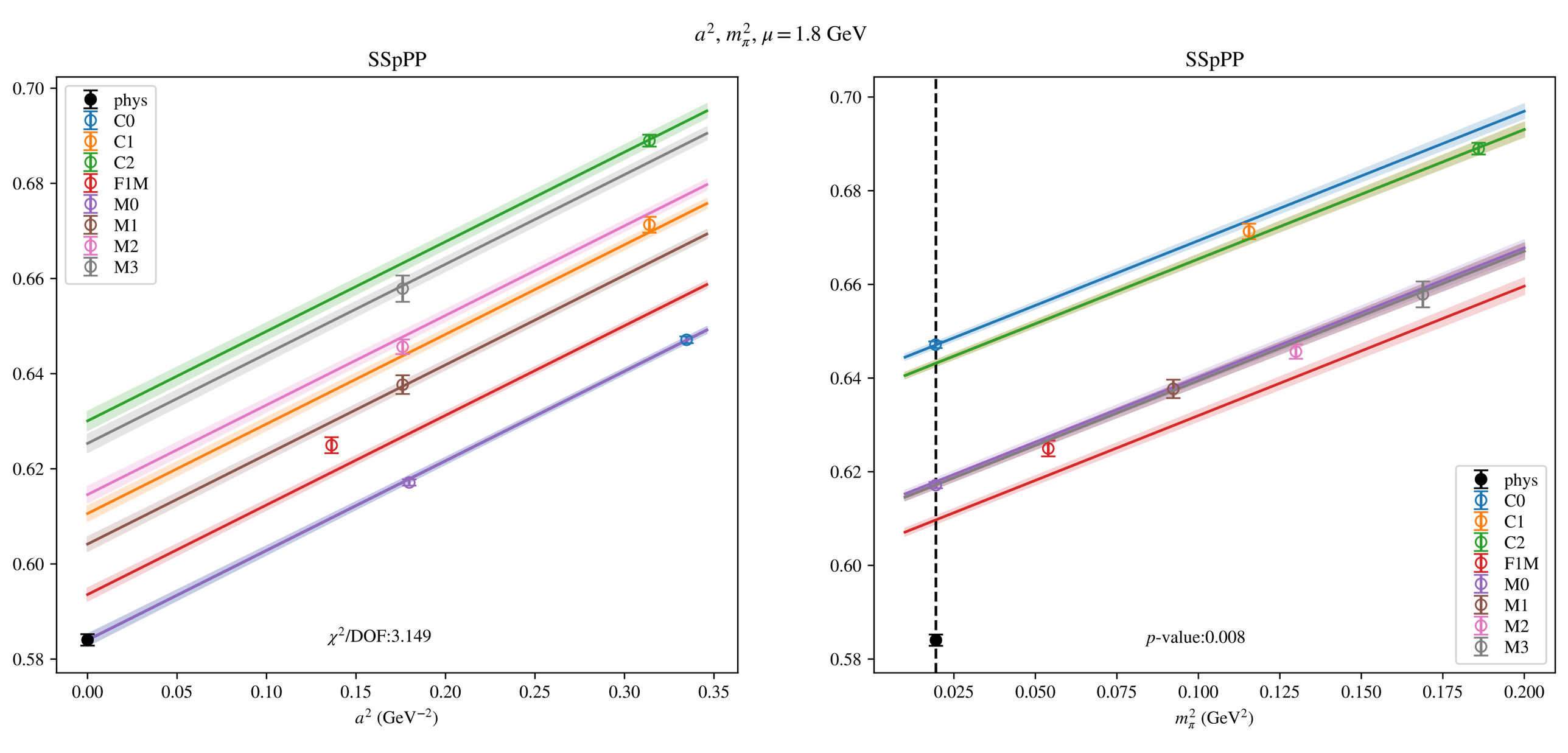
Table 7: Physical point value from chiral and continuum extrapolation at renormalisation scale μ. Entries are **value(error)**: χ^2/DOF (p-value).

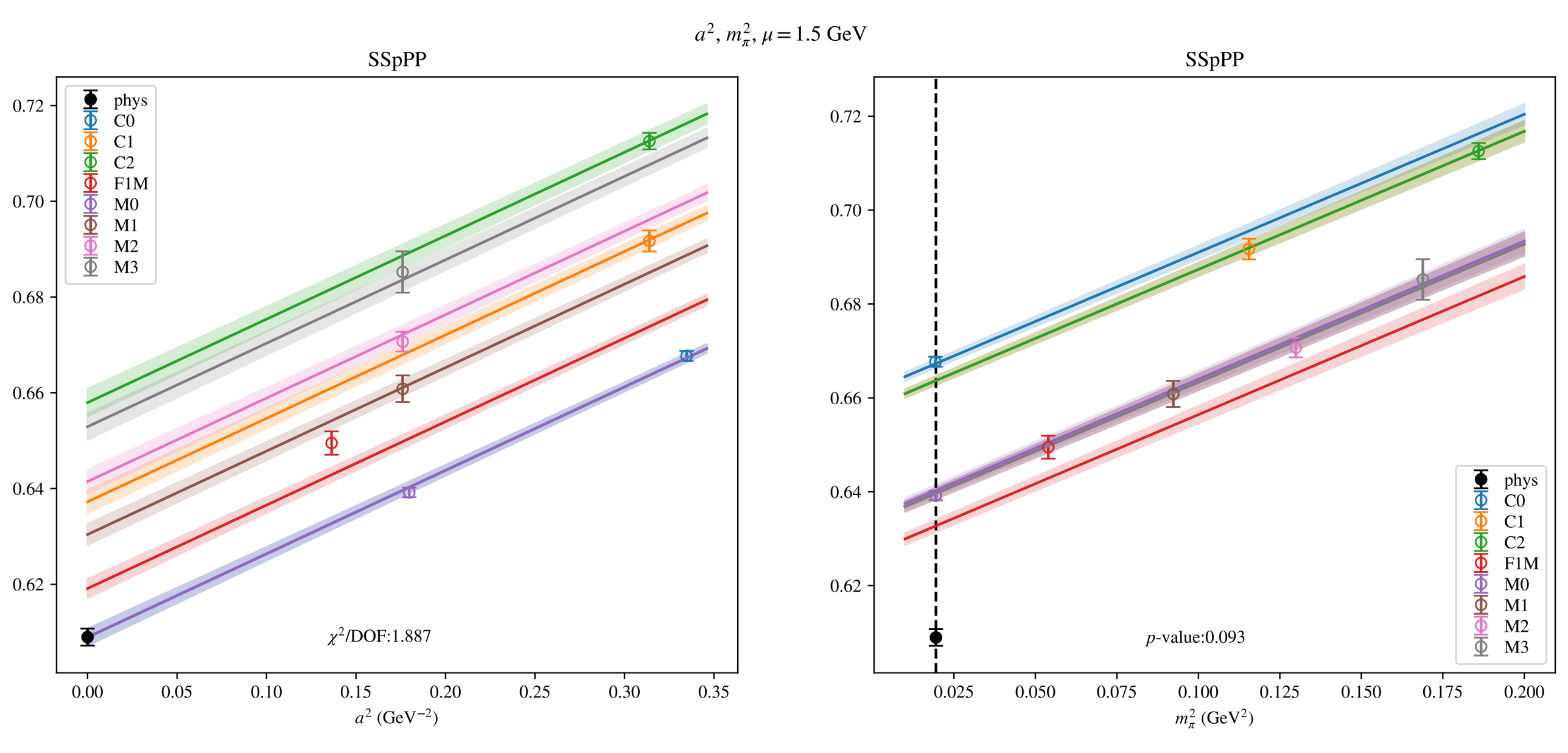
μ (GeV)		a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	α	0.4261(69)	0.205(56)	0.11(14)	0.4334(77)	0.4100(68)
	β	0.00765(14)	0.00685(23)	0.00751(15)	0.00953(77)	0.01234(14)
2.0	α	0.3507(67)	0.096(54)	-0.1(13)	0.3581(75)	0.3364(67)
	β	0.00799(18)	0.00723(30)	0.00774(17)	0.01010(85)	0.01272(17)
1.8	α	0.3254(70)	0.052(56)	-0.2(13)	0.3312(75)	0.3104(69)
	β	0.00812(19)	0.00748(31)	0.00782(18)	0.00967(87)	0.01287(19)
1.5	α	0.2889(77)	-0.008	-0.3(15)	0.2926(76)	0.2734(76)
	β	0.00829(22)	0.00784(37)	0.00792(18)	0.0092(10)	0.01303(22)

Table 8: Fit values of coefficients in $B = B_0(1 + \alpha a^2 + \beta \frac{m_\pi^2}{f_\pi^2} + \ldots)$.

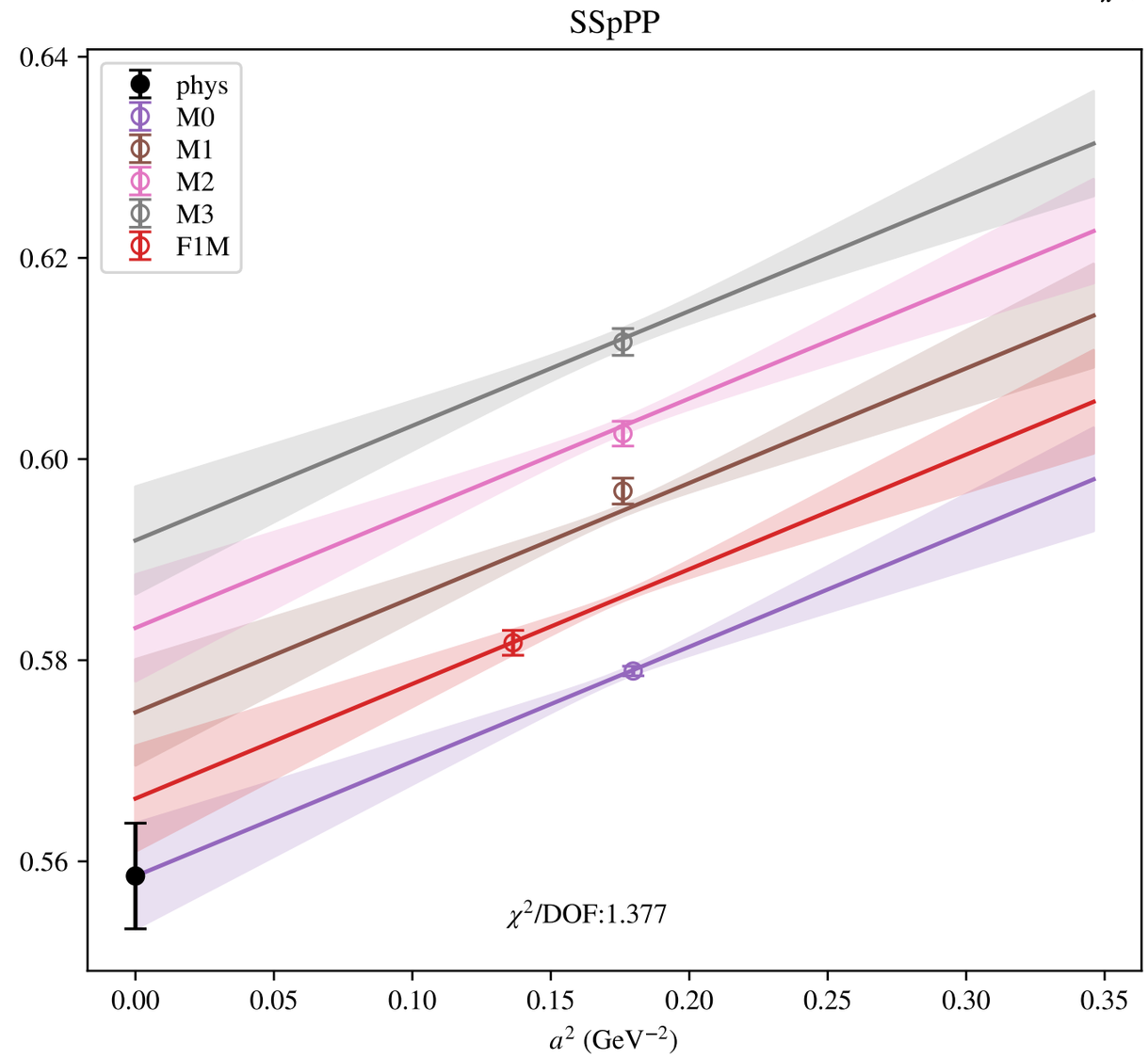

a^2, m_π^2, $\mu = 2.4$ GeV
SSpPP
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:5.538
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.54
0.56
0.58
0.60
0.62
0.64
0.66
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200

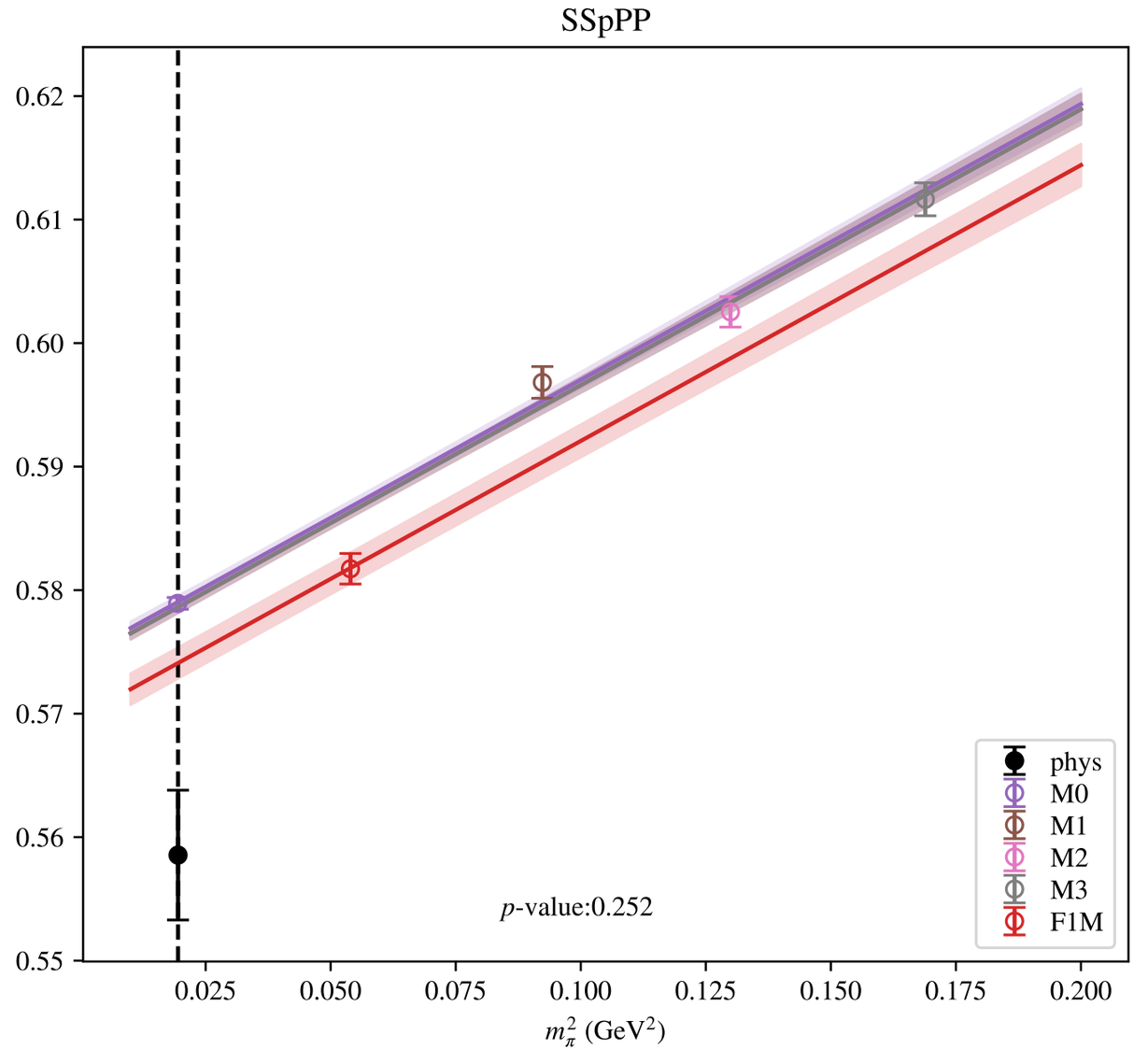

a^2, m_π^2, $\mu = 2.0$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.68
0.66
0.64
0.62
0.60
0.58
χ^2/DOF:4.716
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
p-value:0.000
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

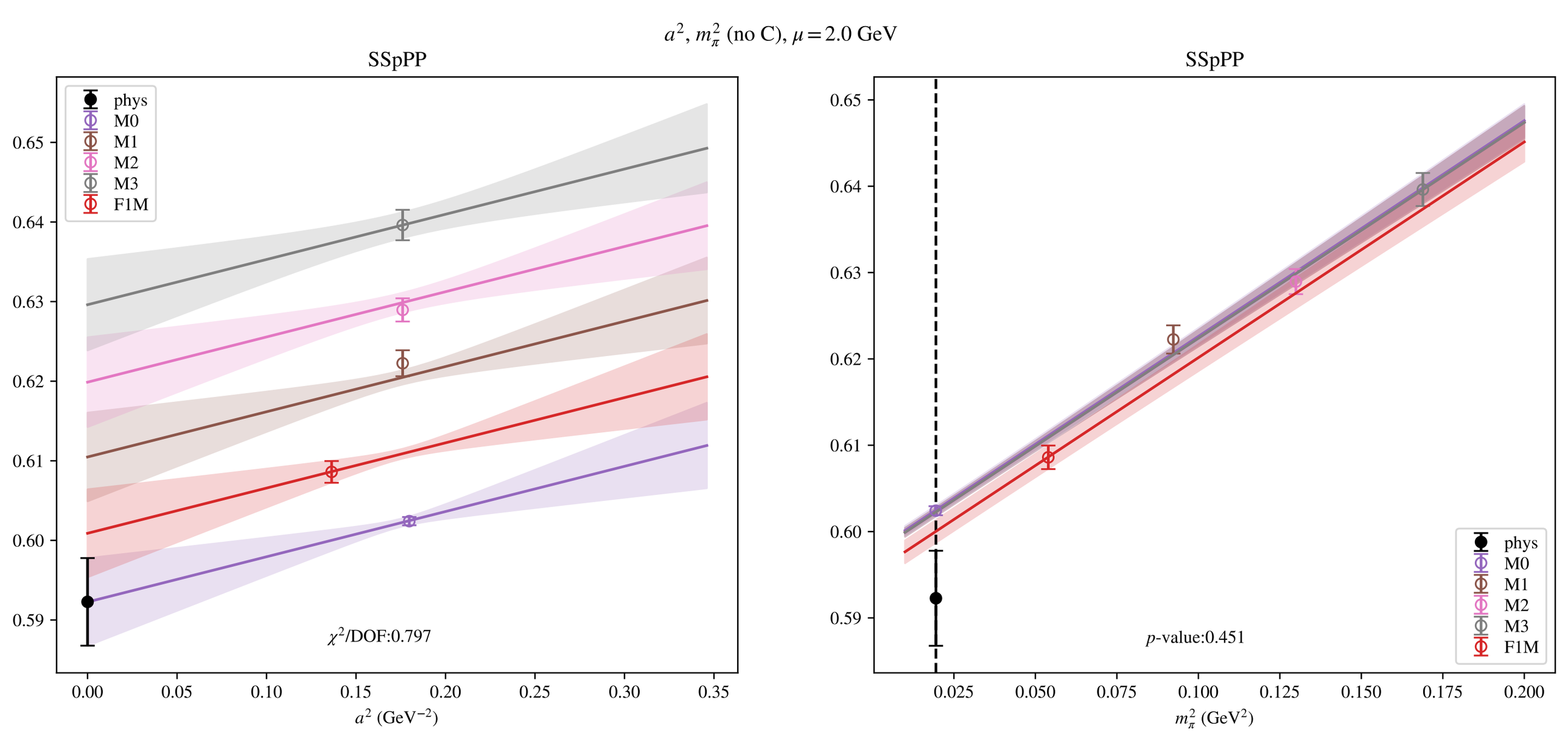

a^2, m_π^2, $\mu = 1.8$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:3.149
a^2 (GeV^{-2})
SSpPP
p-value:0.008
m_π^2 (GeV^2)

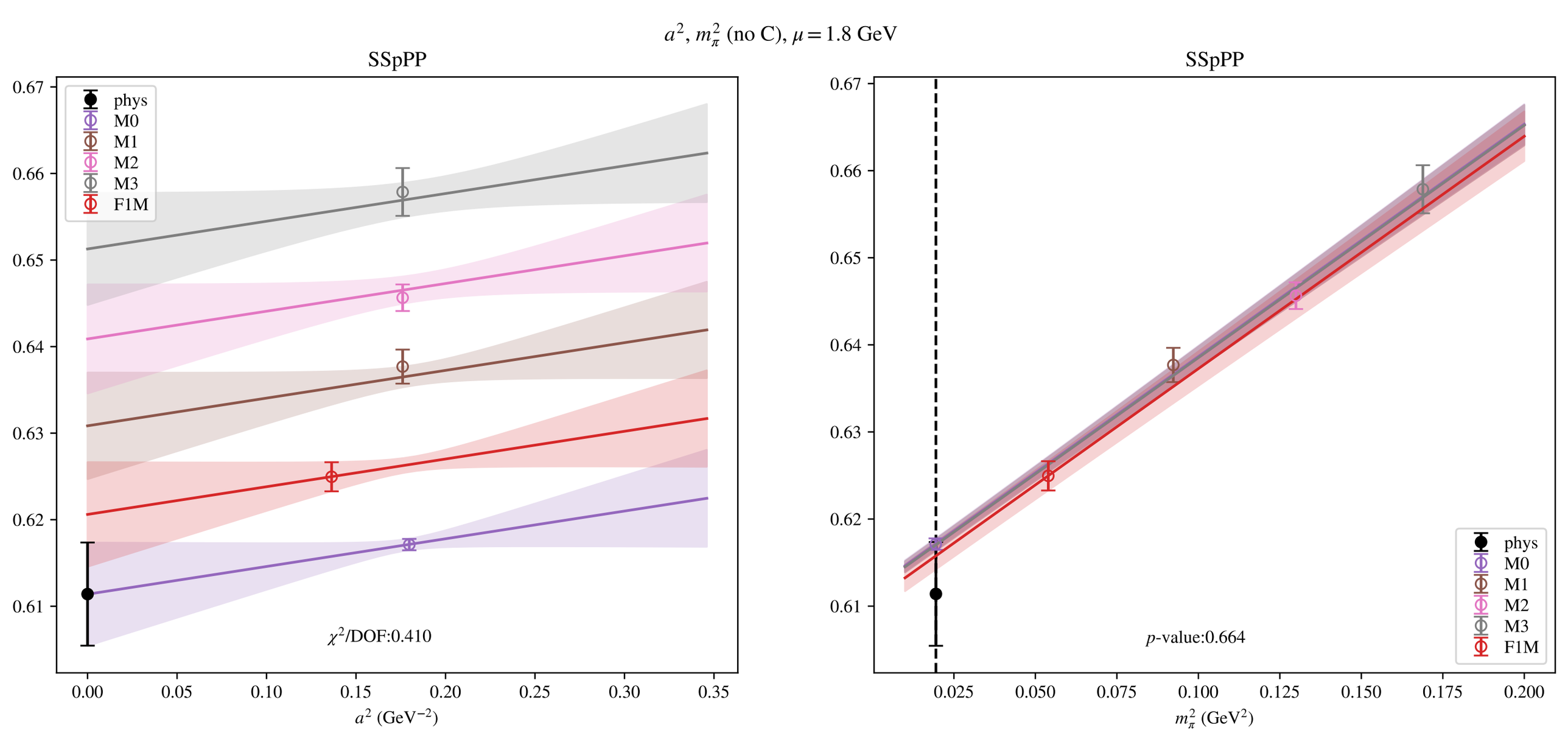

a^2, m_π^2, $\mu = 1.5$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.72
0.70
0.68
0.66
0.64
0.62
χ^2/DOF:1.887
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
p-value:0.093
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

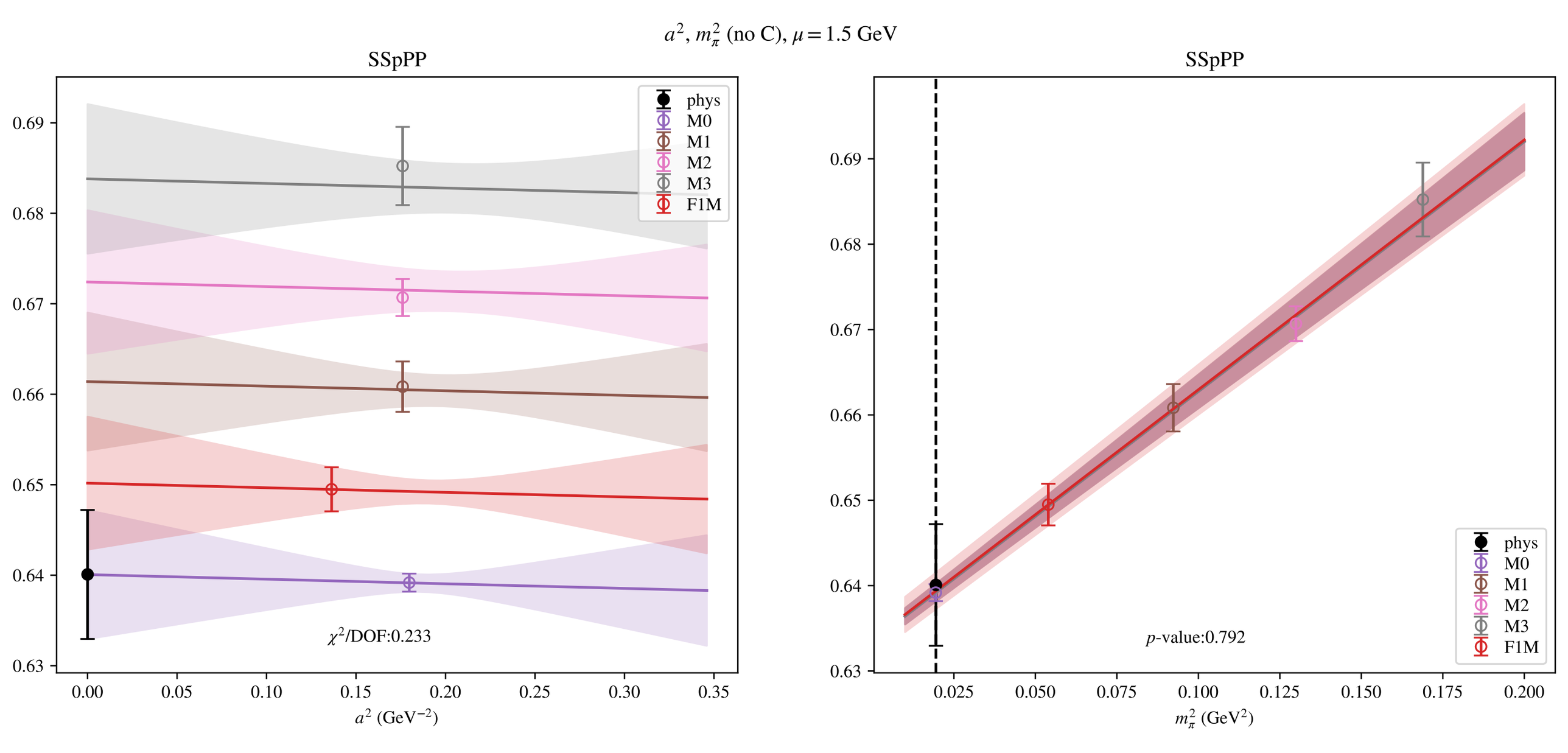
a^2, m_π^2 (no C), $\mu = 2.4$ GeV

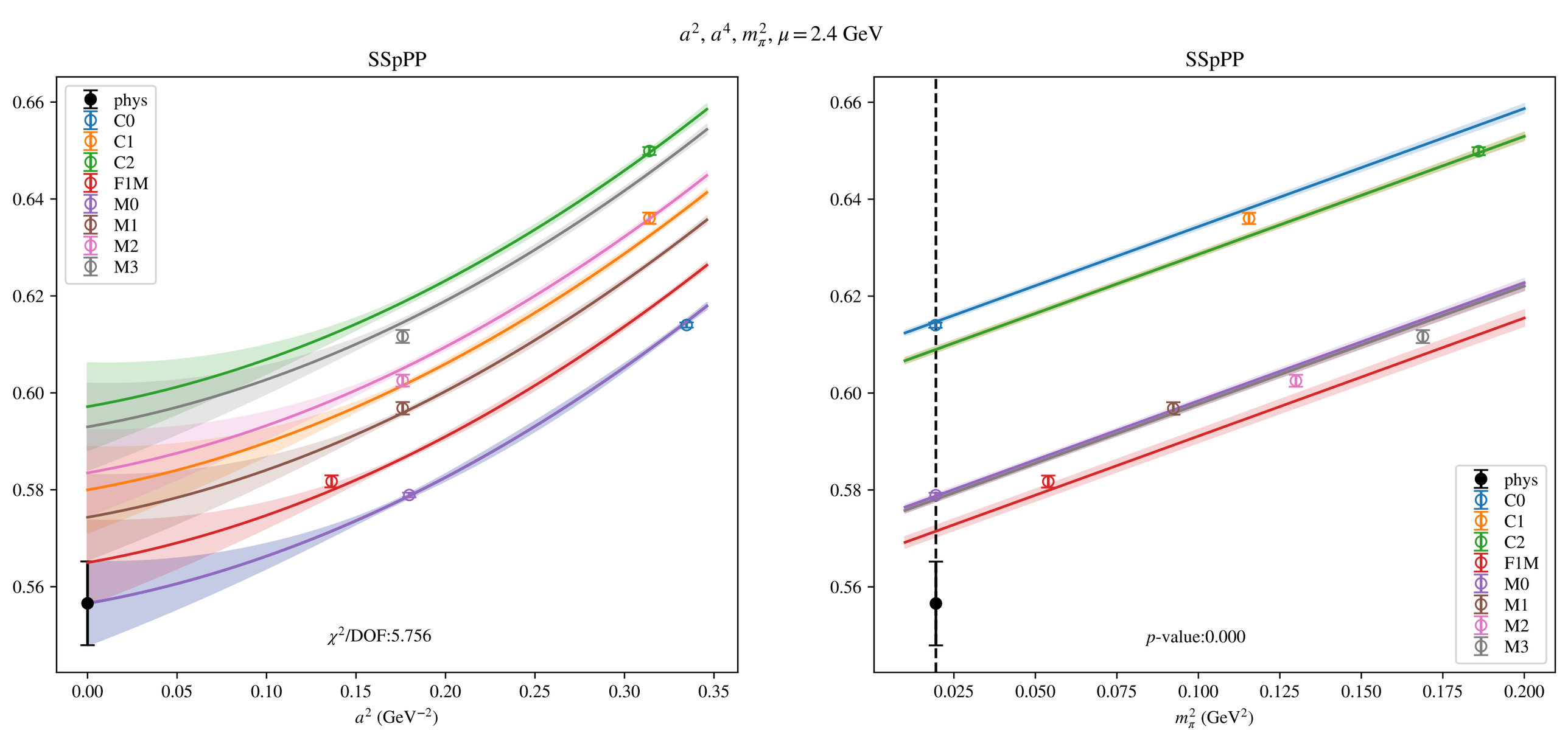


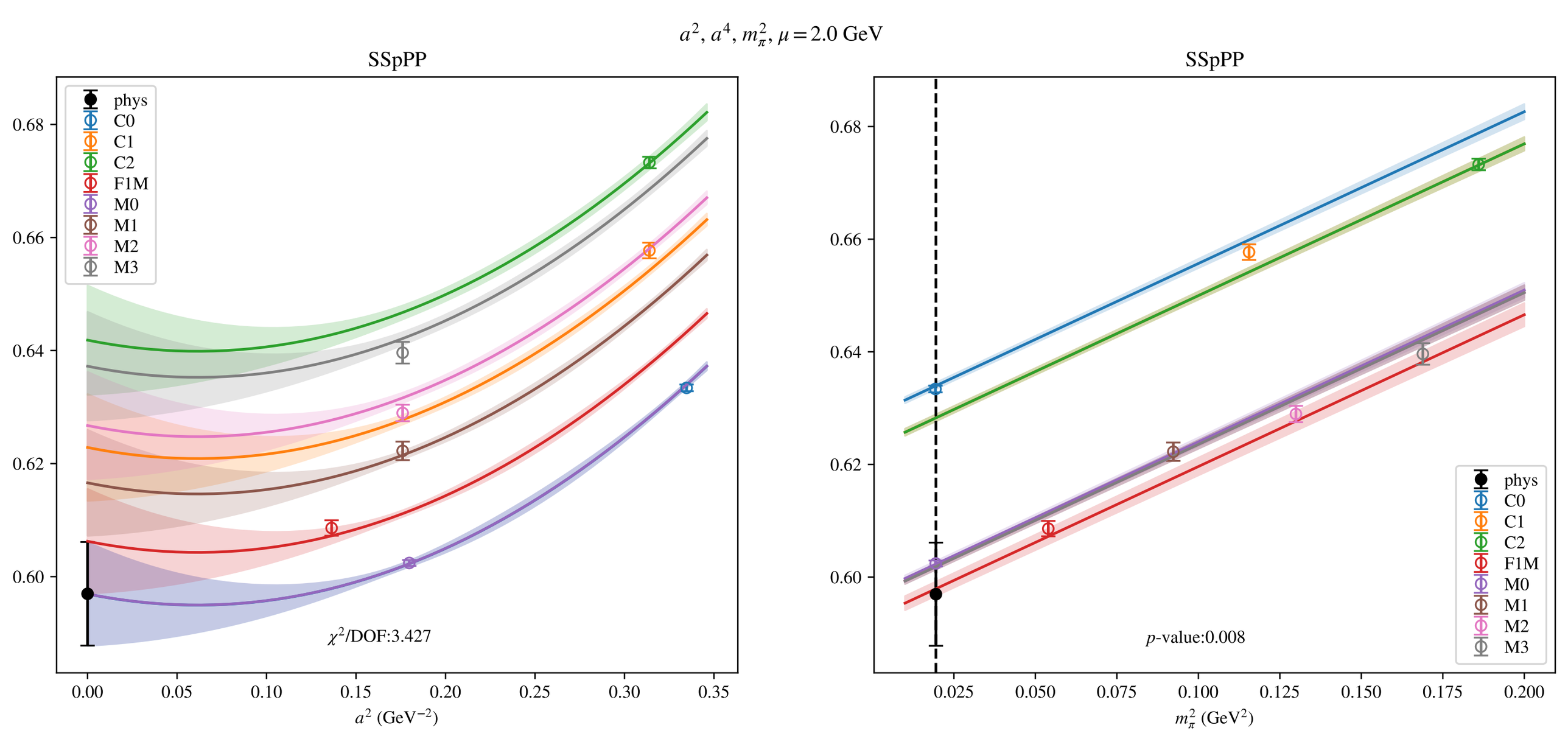


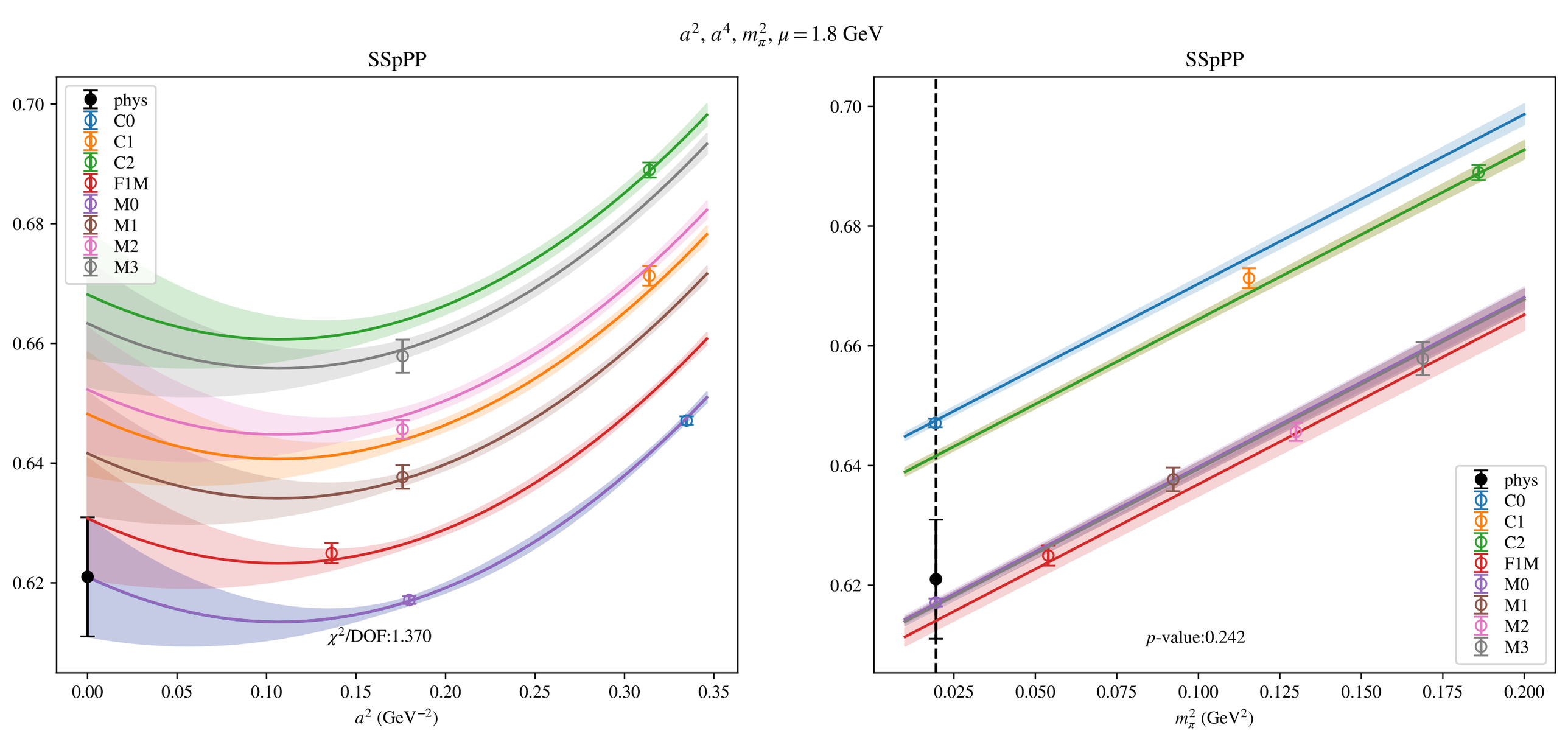

a^2, m_π^2 (no C), $\mu = 2.0$ GeV
SSpPP
phys
M0
M1
M2
M3
F1M
0.65
0.64
0.63
0.62
0.61
0.60
0.59
χ^2/DOF:0.797
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
0.65
0.64
0.63
0.62
0.61
0.60
0.59
p-value:0.451
phys
M0
M1
M2
M3
F1M
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2 (no C), $\mu = 1.8$ GeV
SSpPP
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.410
a^2 (GeV^{-2})
SSpPP
p-value:0.664
m_π^2 (GeV^2)

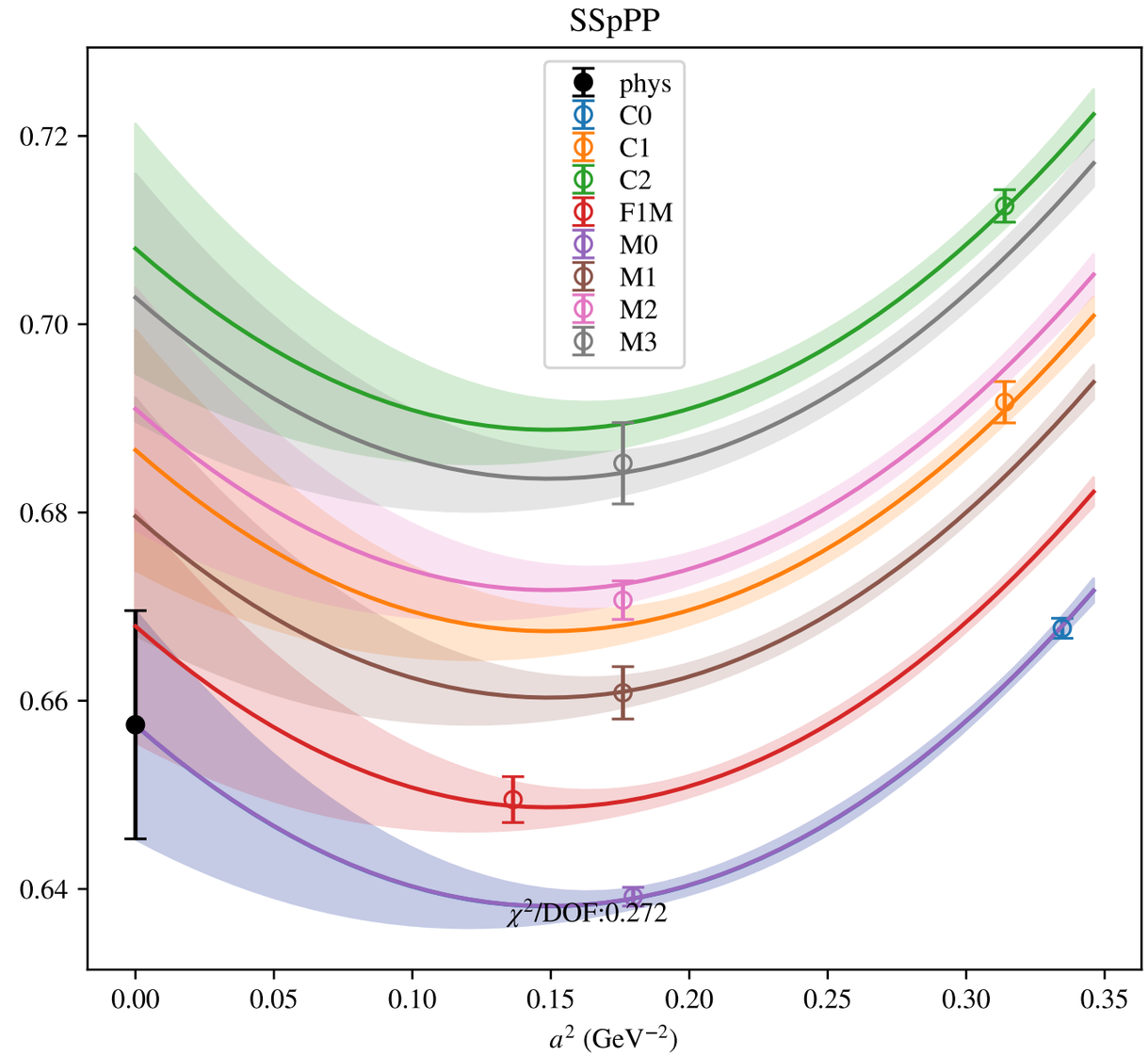

a^2, m_π^2 (no C), $\mu = 1.5$ GeV
SSpPP
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.233
a^2 (GeV^{-2})
SSpPP
p-value:0.792
m_π^2 (GeV^2)

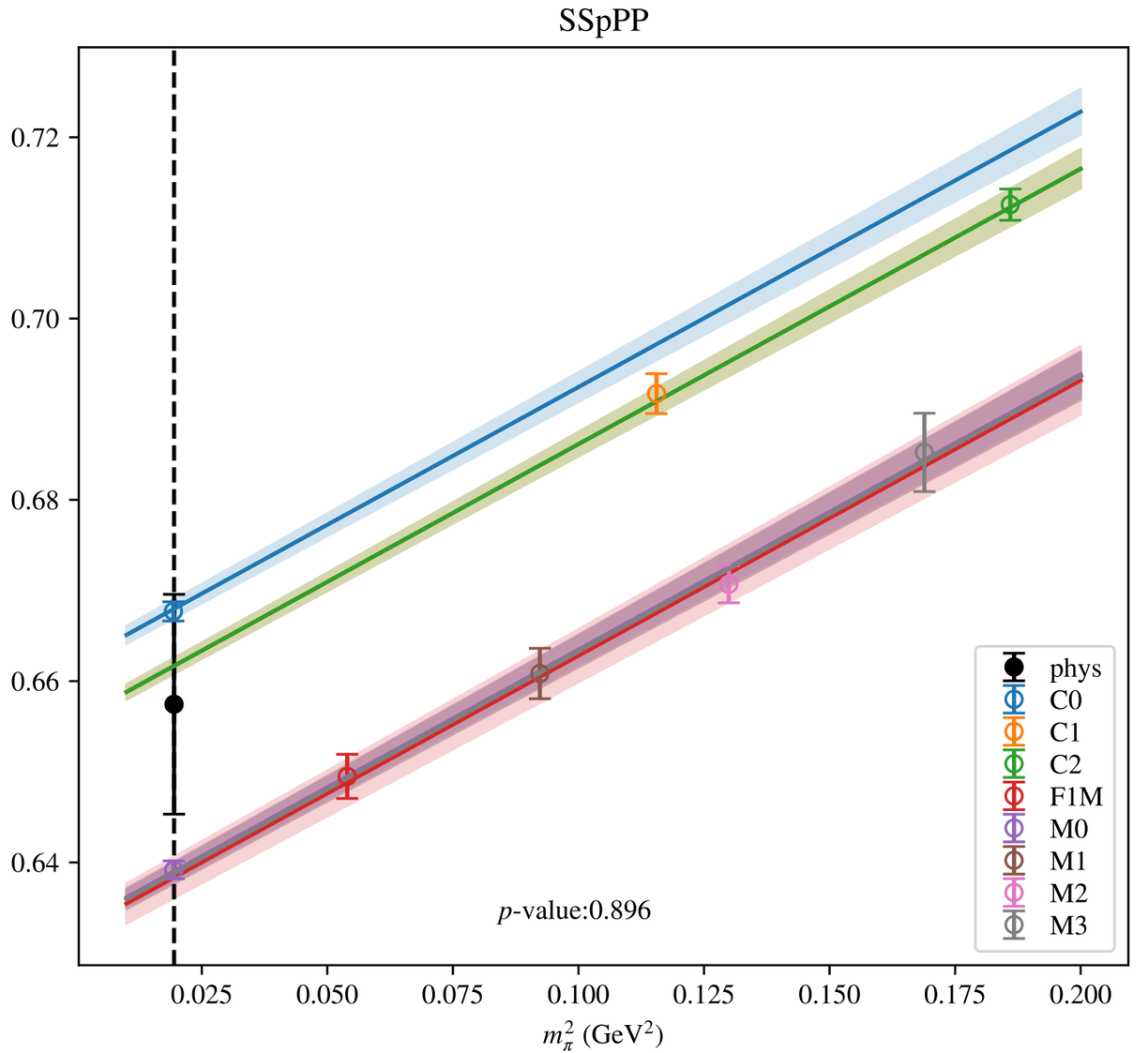

a^2, a^4, m_π^2, $\mu = 2.4$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:5.756
a^2 (GeV^{-2})
SSpPP
p-value:0.000
m_π^2 (GeV^2)

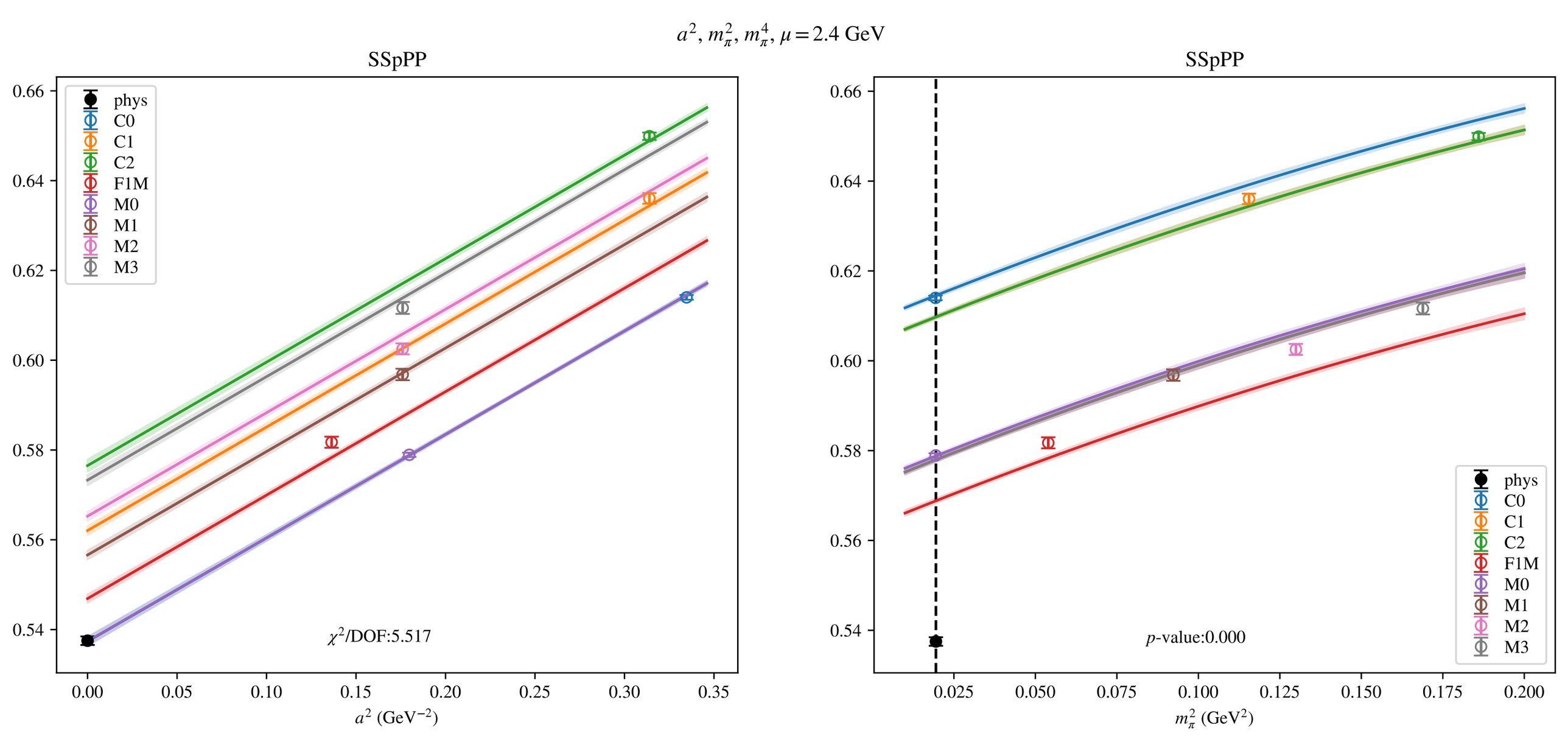

a^2, a^4, m_π^2, $\mu = 2.0$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.68
0.66
0.64
0.62
0.60
χ^2/DOF:3.427
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
p-value:0.008
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

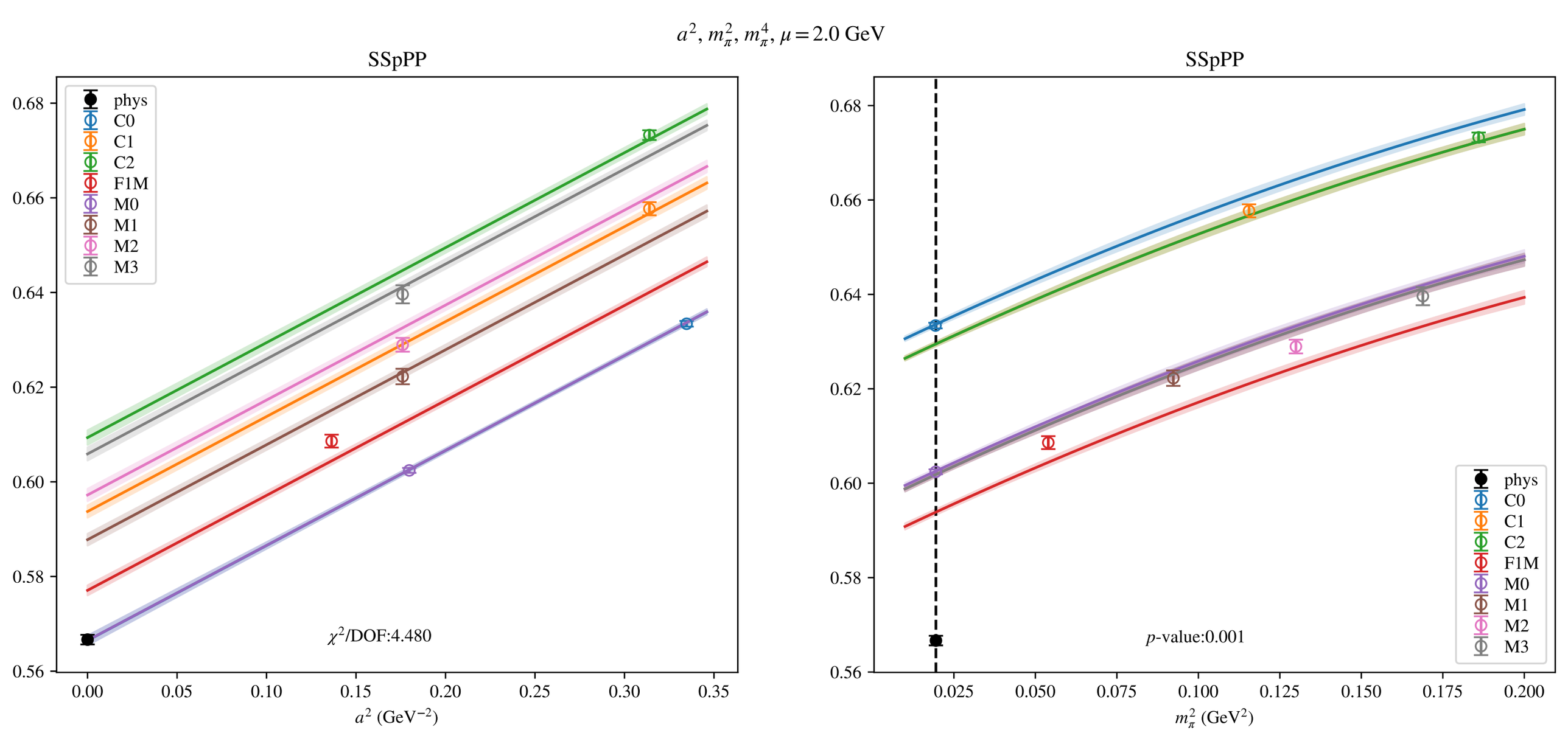

a^2, a^4, m_π^2, $\mu = 1.8$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.70
0.68
0.66
0.64
0.62
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
χ^2/DOF:1.370
SSpPP
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)
p-value:0.242

a^2, a^4, m_π^2, $\mu = 1.5$ GeV

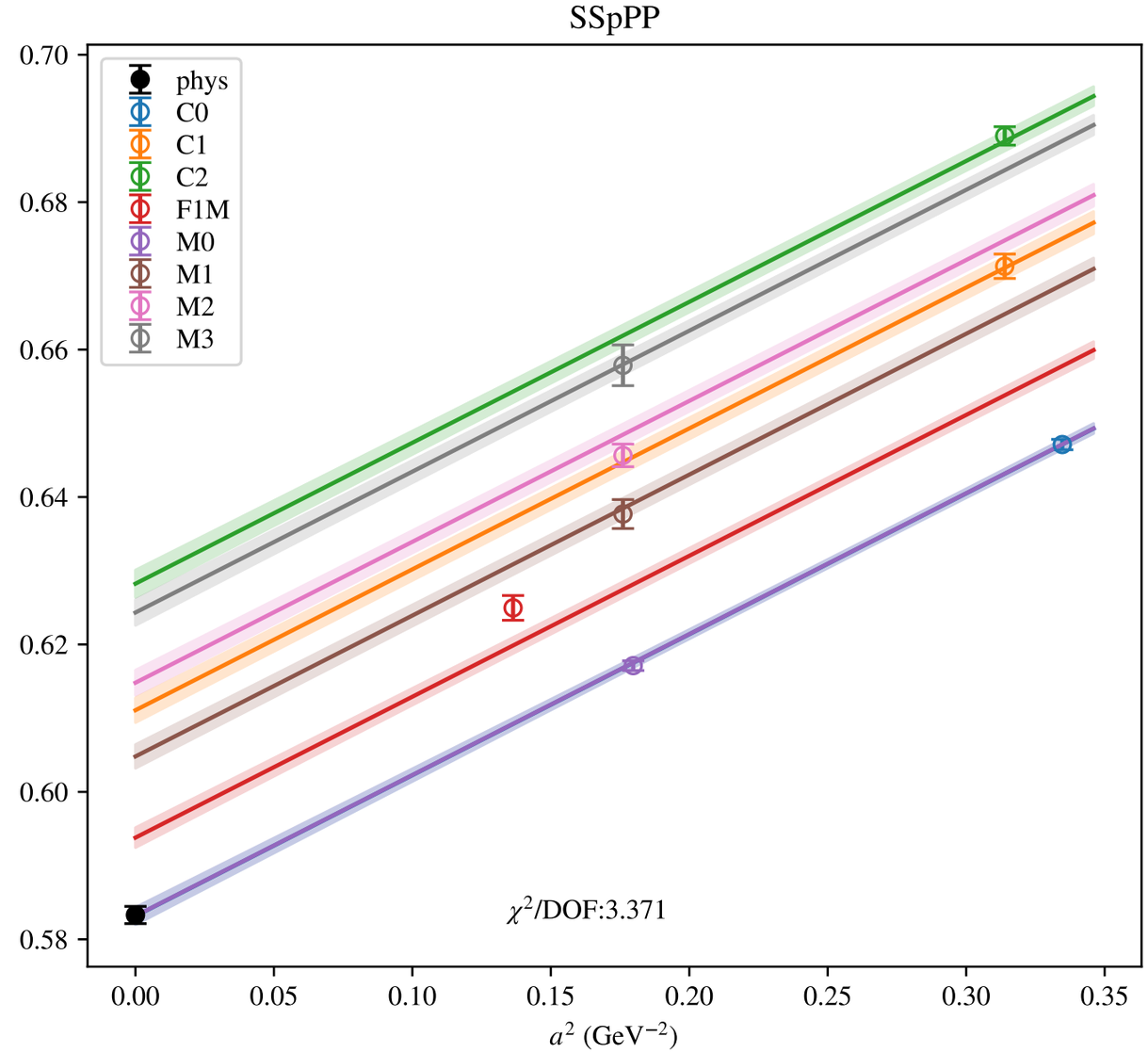


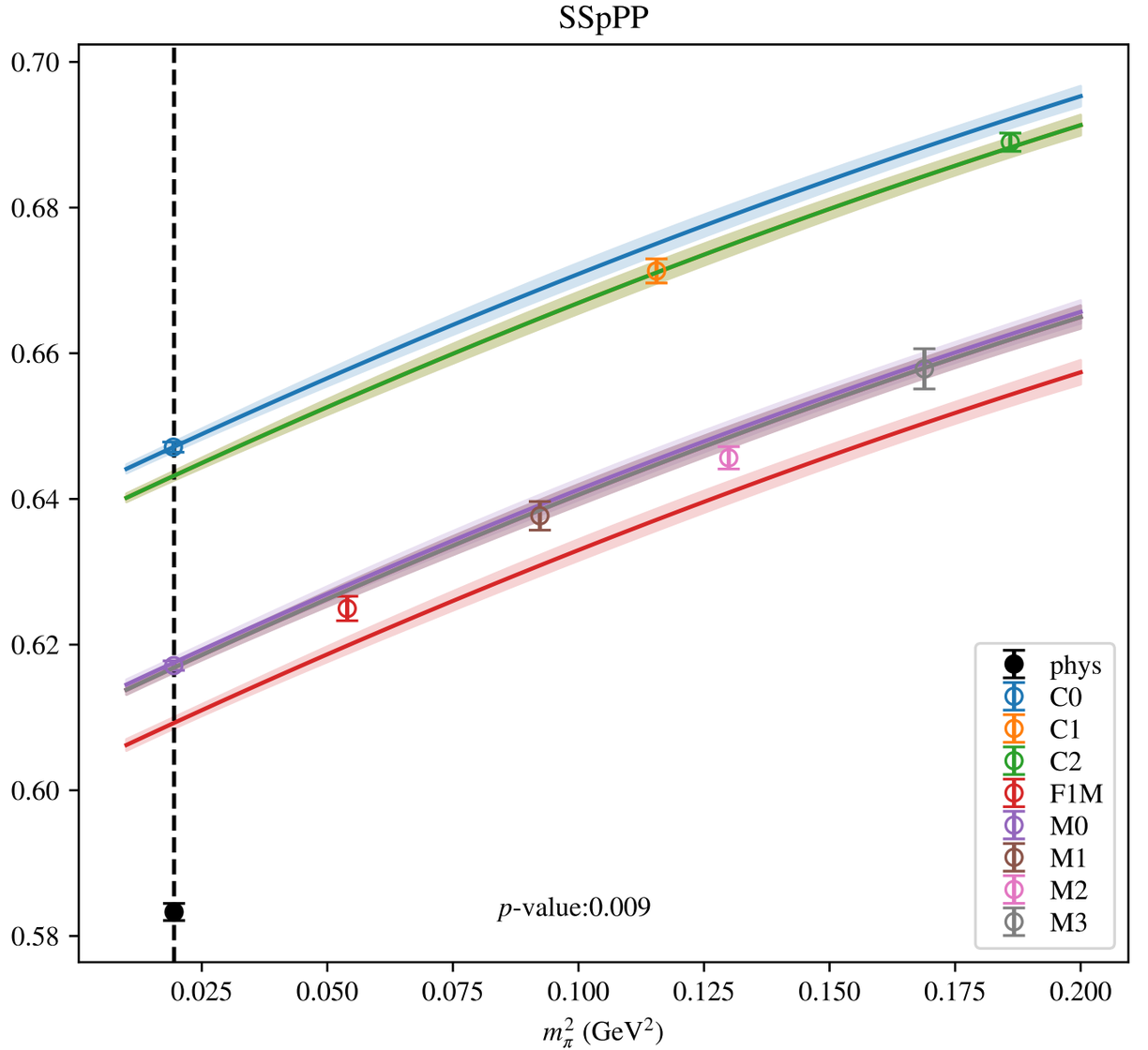


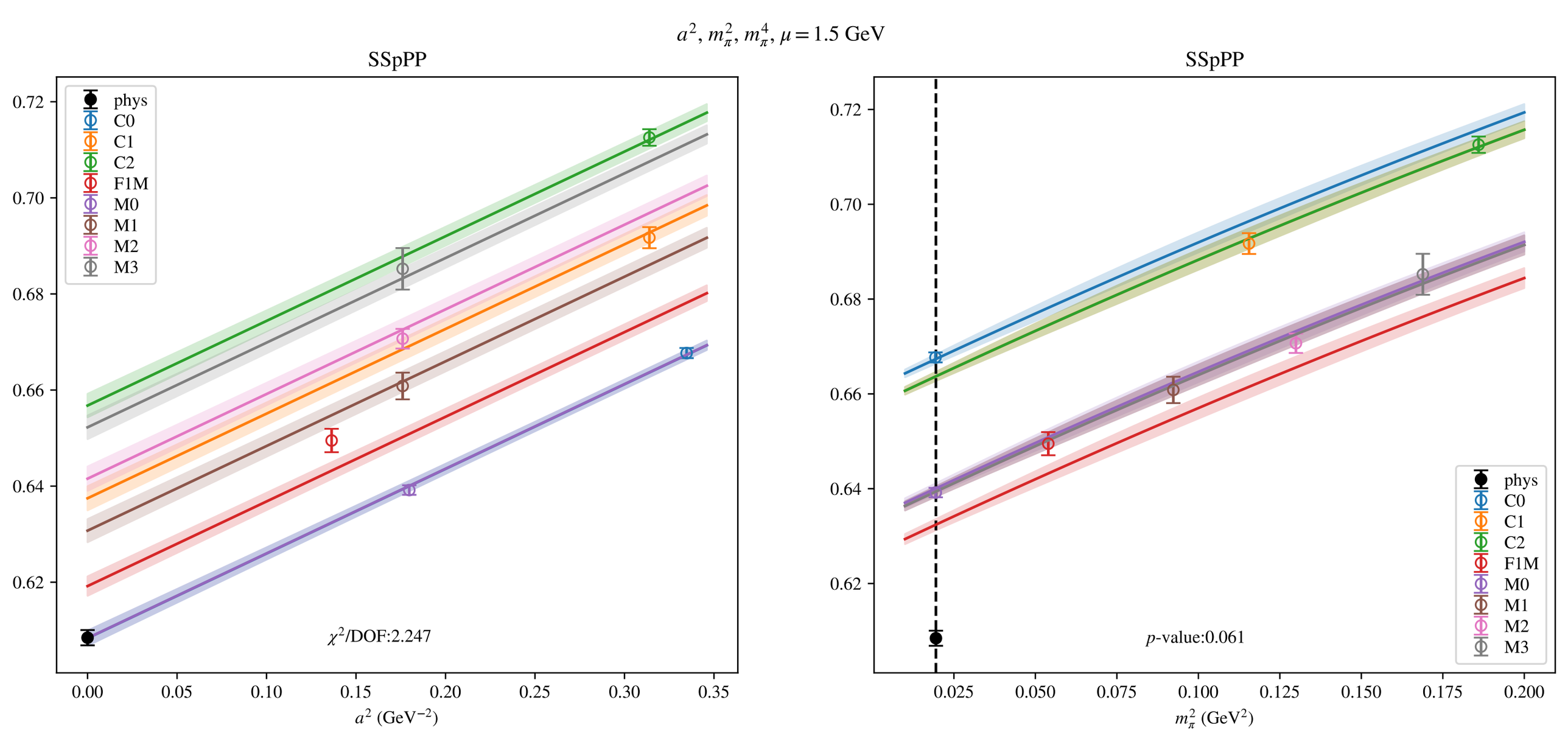

$a^2, m_\pi^2, m_\pi^4, \mu = 2.4$ GeV
SSpPP
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:5.517
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.66
0.64
0.62
0.60
0.58
0.56
0.54
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200

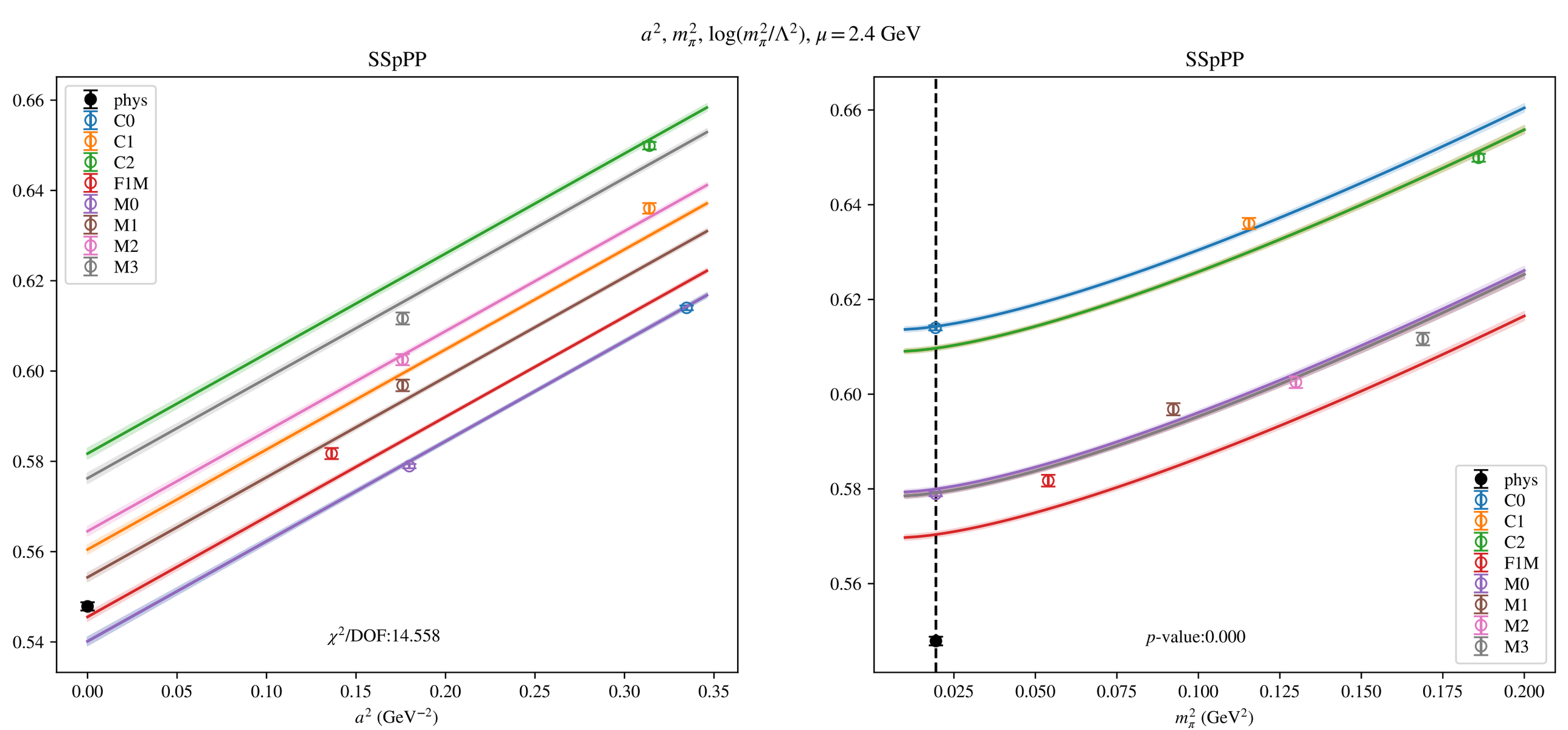

a^2, m_π^2, m_π^4, $\mu = 2.0$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:4.480
a^2 (GeV^{-2})
SSpPP
p-value:0.001
m_π^2 (GeV^2)

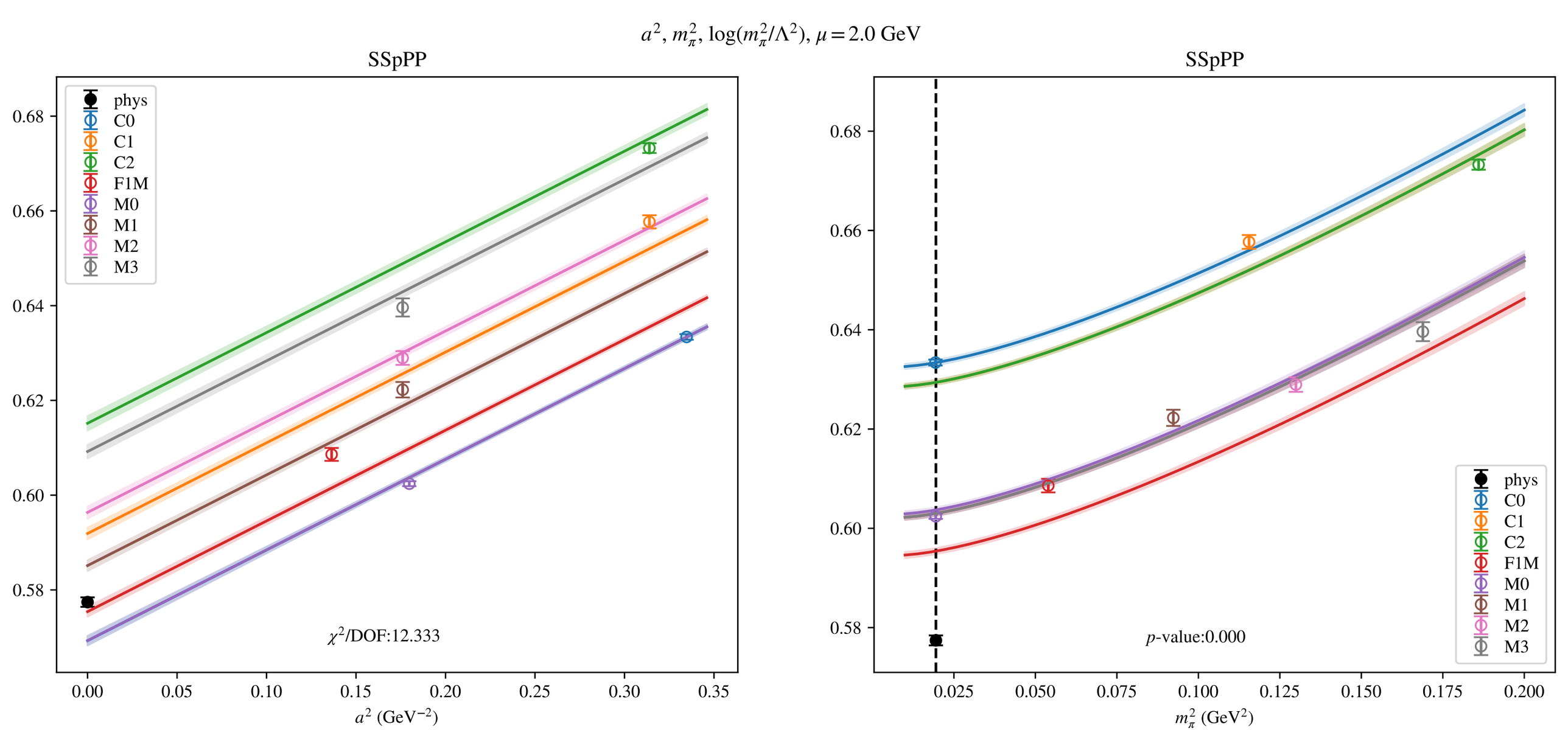
$a^2, m_\pi^2, m_\pi^4, \mu = 1.8$ GeV

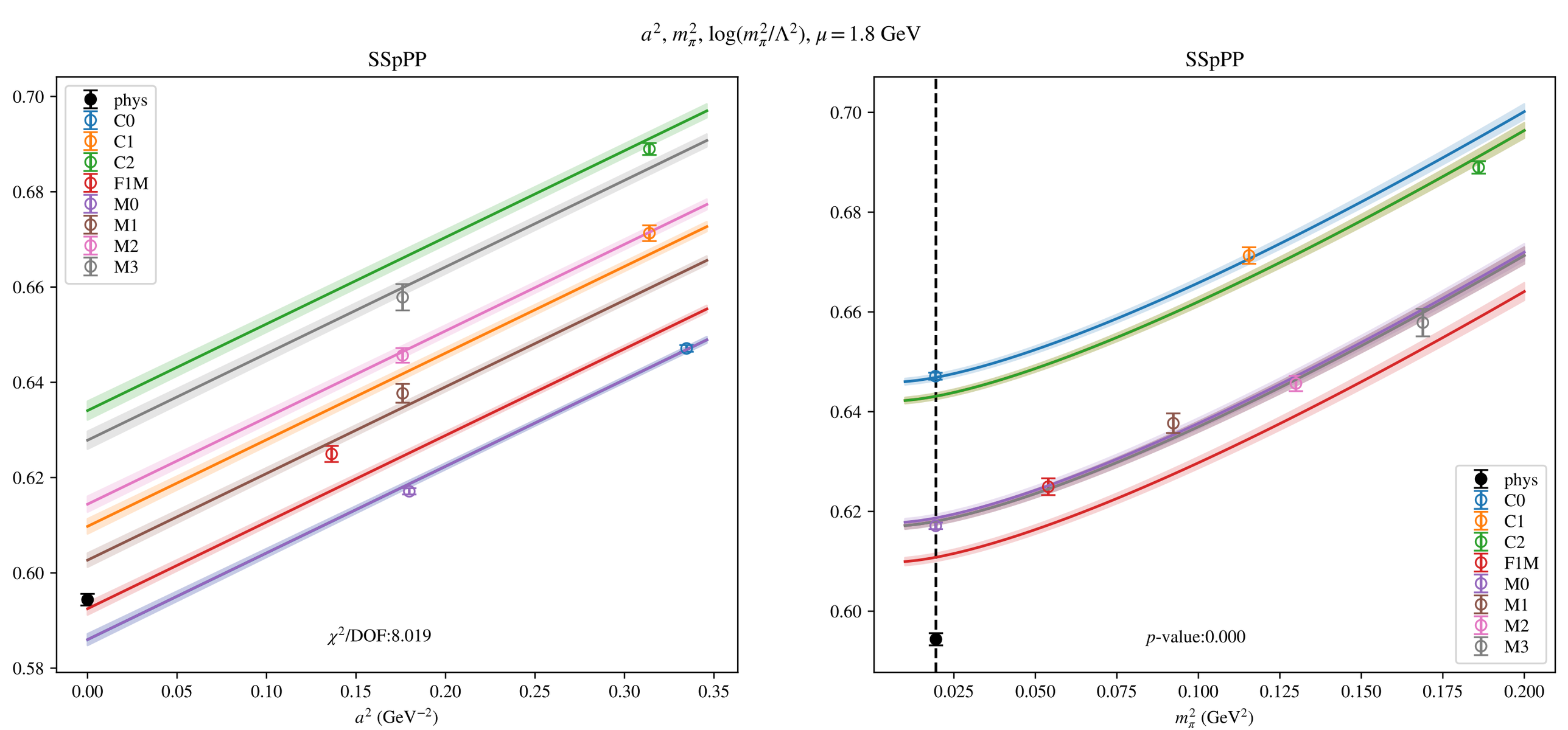


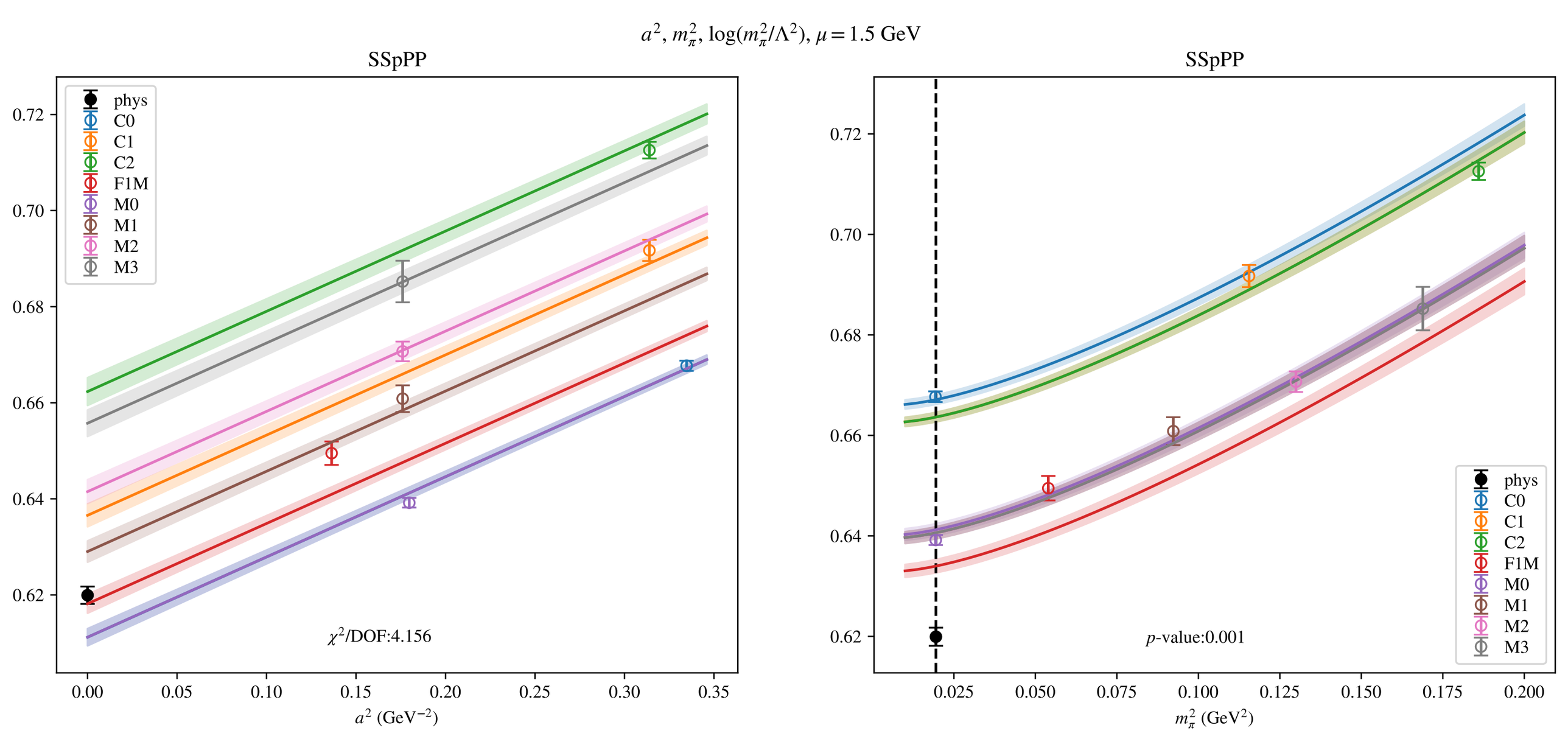



$a^2, m_\pi^2, m_\pi^4, \mu = 1.5$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.72
0.70
0.68
0.66
0.64
0.62
χ^2/DOF:2.247
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
p-value:0.061
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.4$ GeV
SSpPP
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:14.558
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.54
0.56
0.58
0.60
0.62
0.64
0.66
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.0$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.68
0.66
0.64
0.62
0.60
0.58
χ^2/DOF:12.333
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
0.68
0.66
0.64
0.62
0.60
0.58
p-value:0.000
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.8$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:8.019
a^2 (GeV^{-2})
SSpPP
p-value:0.000
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.5$ GeV
SSpPP
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.72
0.70
0.68
0.66
0.64
0.62
χ^2/DOF:4.156
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
SSpPP
0.72
0.70
0.68
0.66
0.64
0.62
p-value:0.001
phys
C0
C1
C2
F1M
M0
M1
M2
M3
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

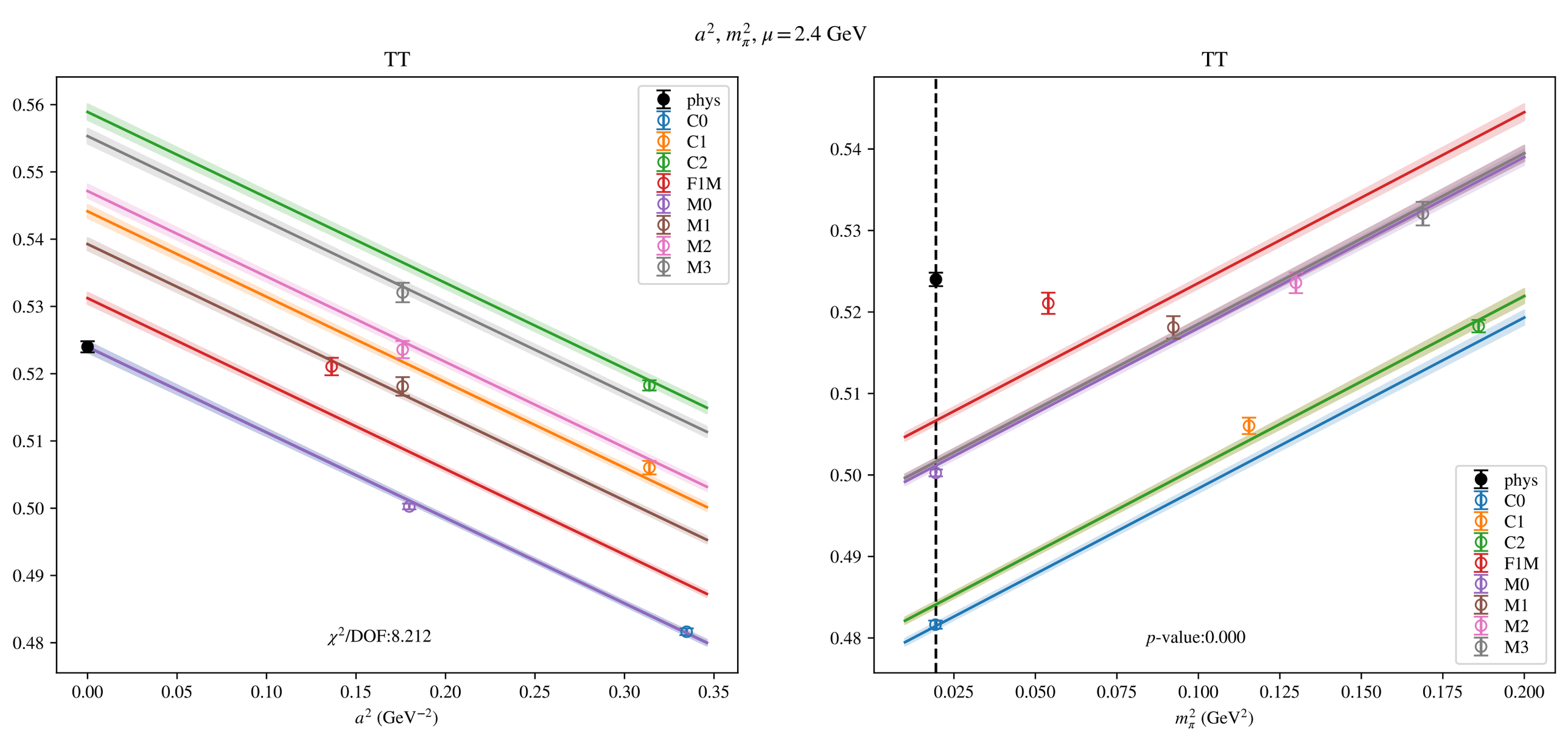
5 TT

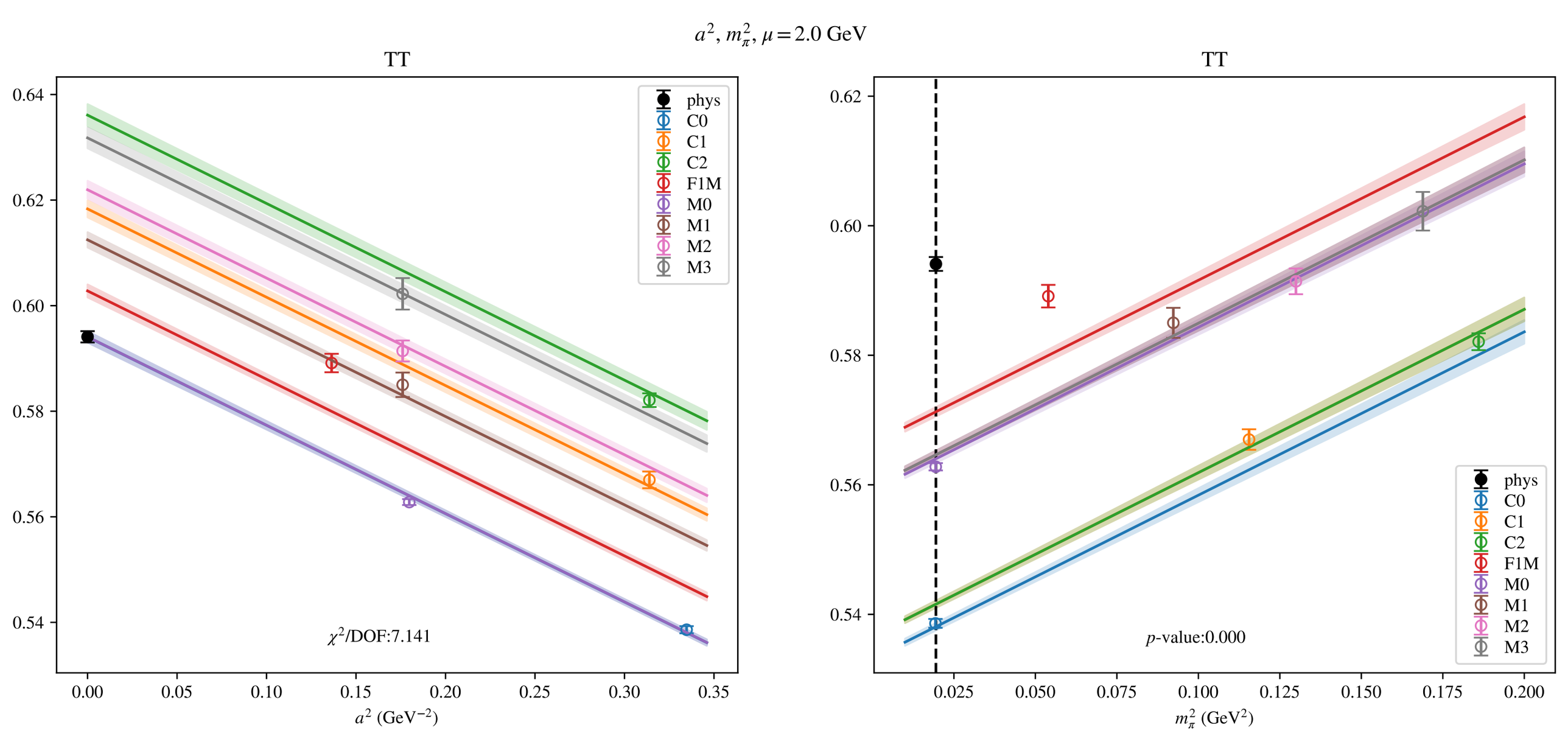
μ (GeV)	a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	**0.52399(82)**: 8.212 (0.0)	**0.5570(52)**: 0.839 (0.432)	**0.5693(86)**: 3.317 (0.01)	**0.52309(82)**: 6.953 (0.0)	**0.53288(83)**: 20.113 (0.0)
2.0	**0.5940(10)**: 7.141 (0.0)	**0.6355(60)**: 0.563 (0.569)	**0.658(10)**: 1.281 (0.275)	**0.5930(10)**: 6.036 (0.0)	**0.6039(10)**: 14.63 (0.0)
1.8	**0.6358(17)**: 3.741 (0.002)	**0.6796(79)**: 0.363 (0.695)	**0.711(13)**: 0.386 (0.819)	**0.6345(15)**: 3.542 (0.007)	**0.6468(17)**: 7.548 (0.0)
1.5	**0.6990(32)**: 2.017 (0.073)	**0.745(12)**: 0.194 (0.823)	**0.791(20)**: 0.255 (0.907)	**0.6975(26)**: 2.13 (0.074)	**0.7116(32)**: 3.696 (0.002)

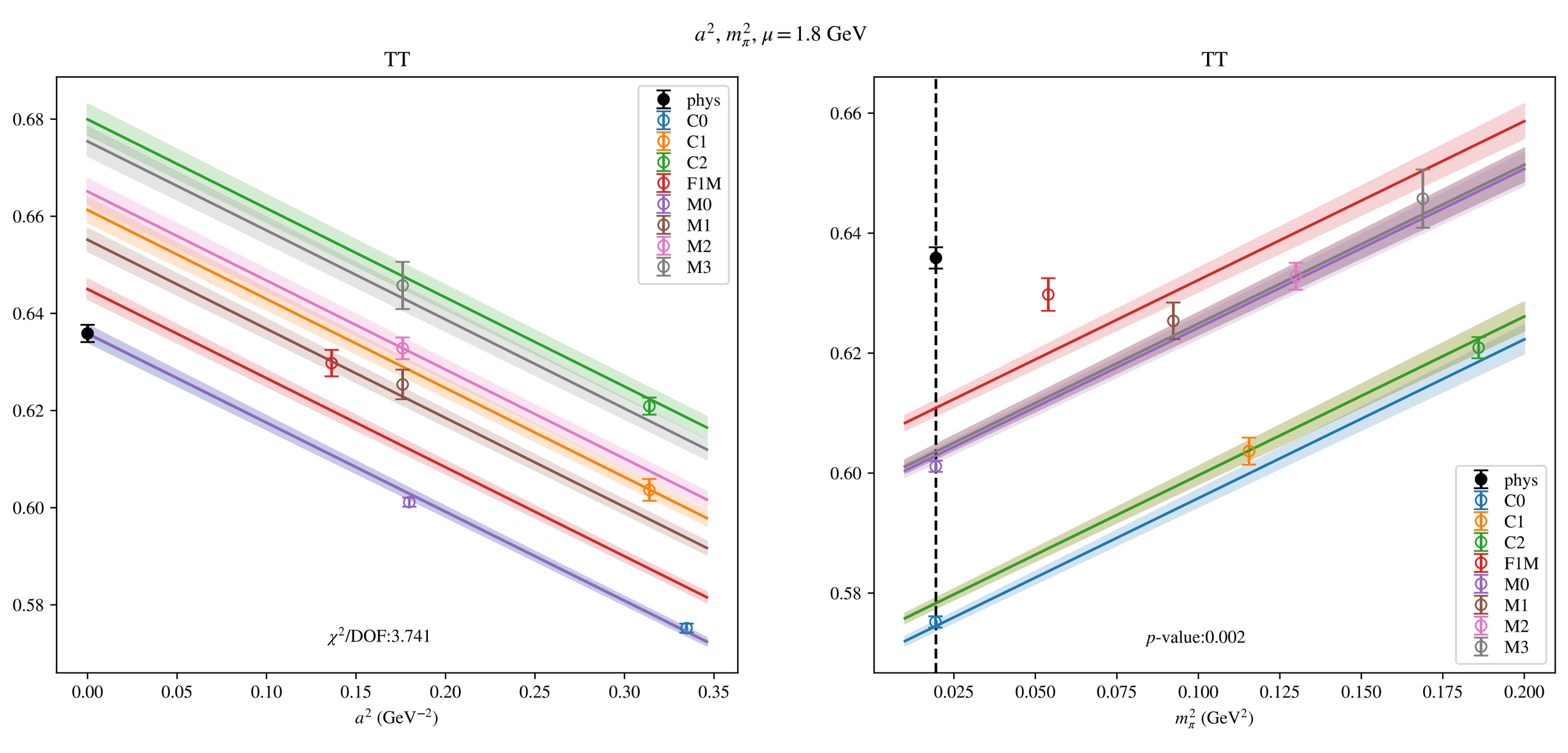
Table 9: Physical point value from chiral and continuum extrapolation at renormalisation scale μ. Entries are **value(error)**: χ^2/DOF (p-value).

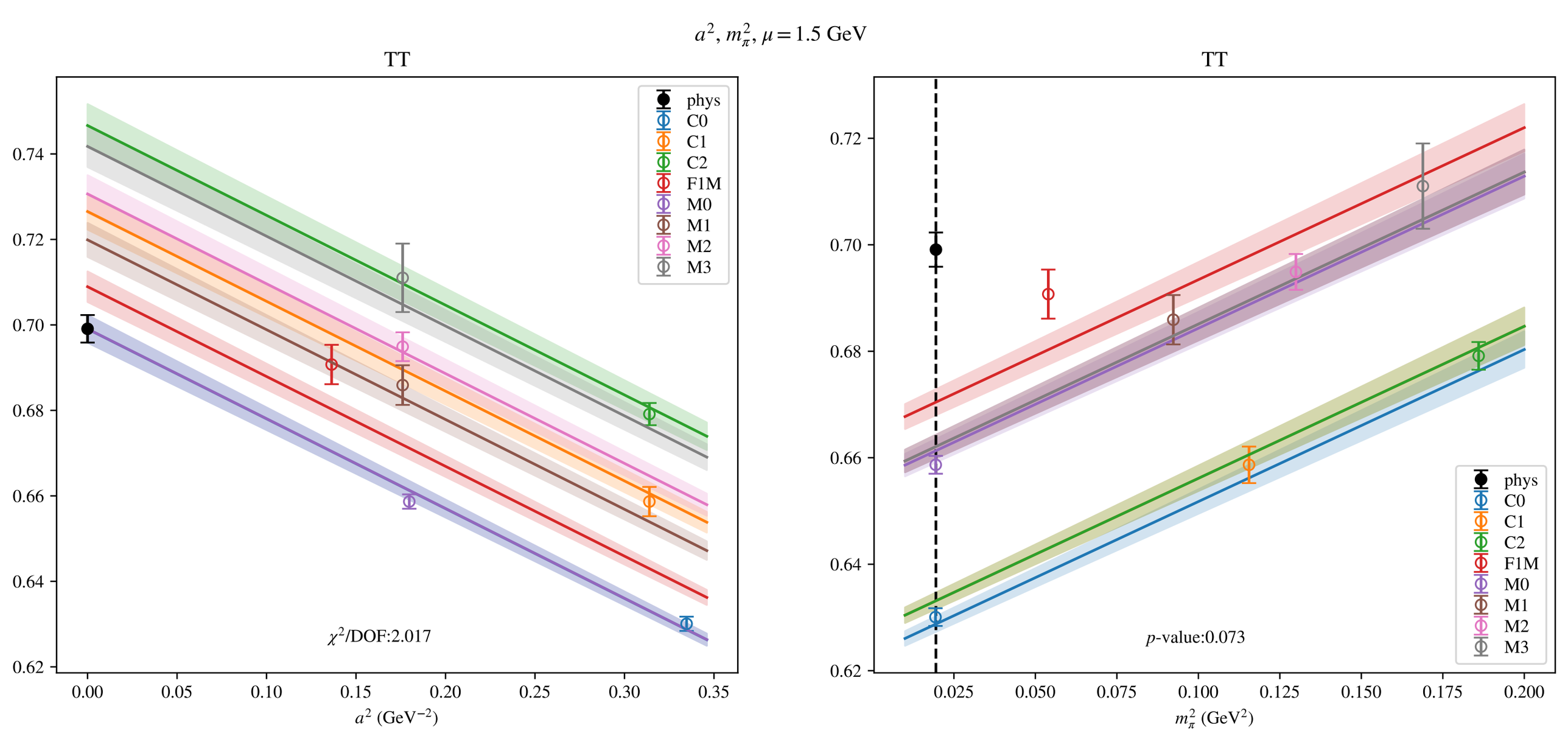
μ (GeV)		a^2, m_π^2	a^2, m_π^2 (no C)	a^2, a^4, m_π^2	a^2, m_π^2, m_π^4	a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$
2.4	α	-0.244(51)	-0.57(48)	-0.9(12)	-0.239(53)	-0.249(50)
	β	0.00685(14)	0.00633(25)	0.00656(12)	0.00962(72)	0.01156(13)
2.0	α	-0.284(51)	-0.64(48)	-1.1(12)	-0.278(53)	-0.288(51)
	β	0.00728(23)	0.00685(43)	0.00685(19)	0.01082(99)	0.01205(22)
1.8	α	-0.290(59)	-0.64(55)	-1.2(13)	-0.284(56)	-0.296(59)
	β	0.00713(24)	0.00708(40)	0.00674(19)	0.0100(10)	0.01189(24)
1.5	α	-0.302(78)	-0.65(72)	-1.3(17)	-0.296(63)	-0.310(76)
	β	0.00700(26)	0.00741(46)	0.00661(19)	0.0094(13)	0.01173(26)

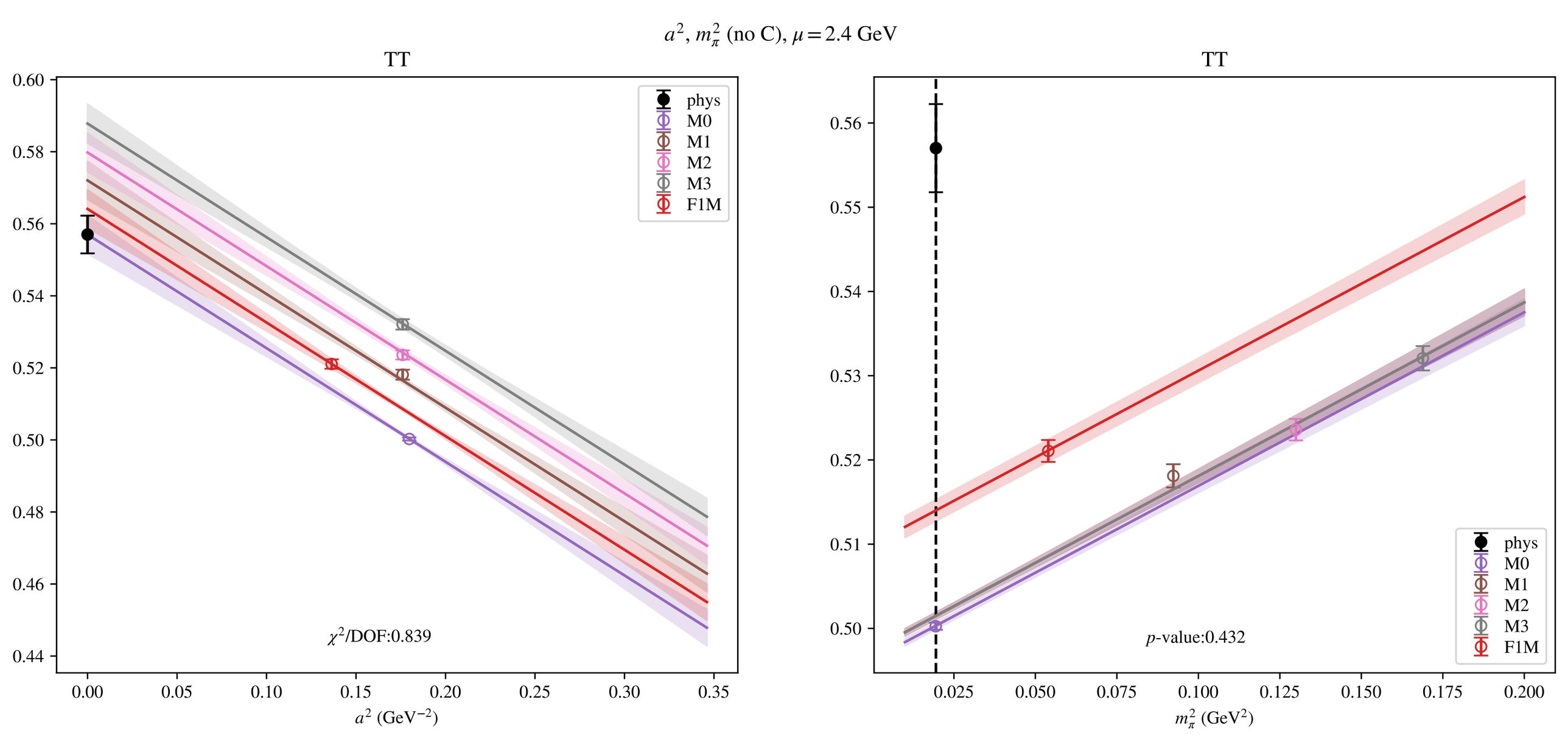
Table 10: Fit values of coefficients in $B = B_0(1 + \alpha a^2 + \beta \frac{m_\pi^2}{f_\pi^2} + \ldots)$.

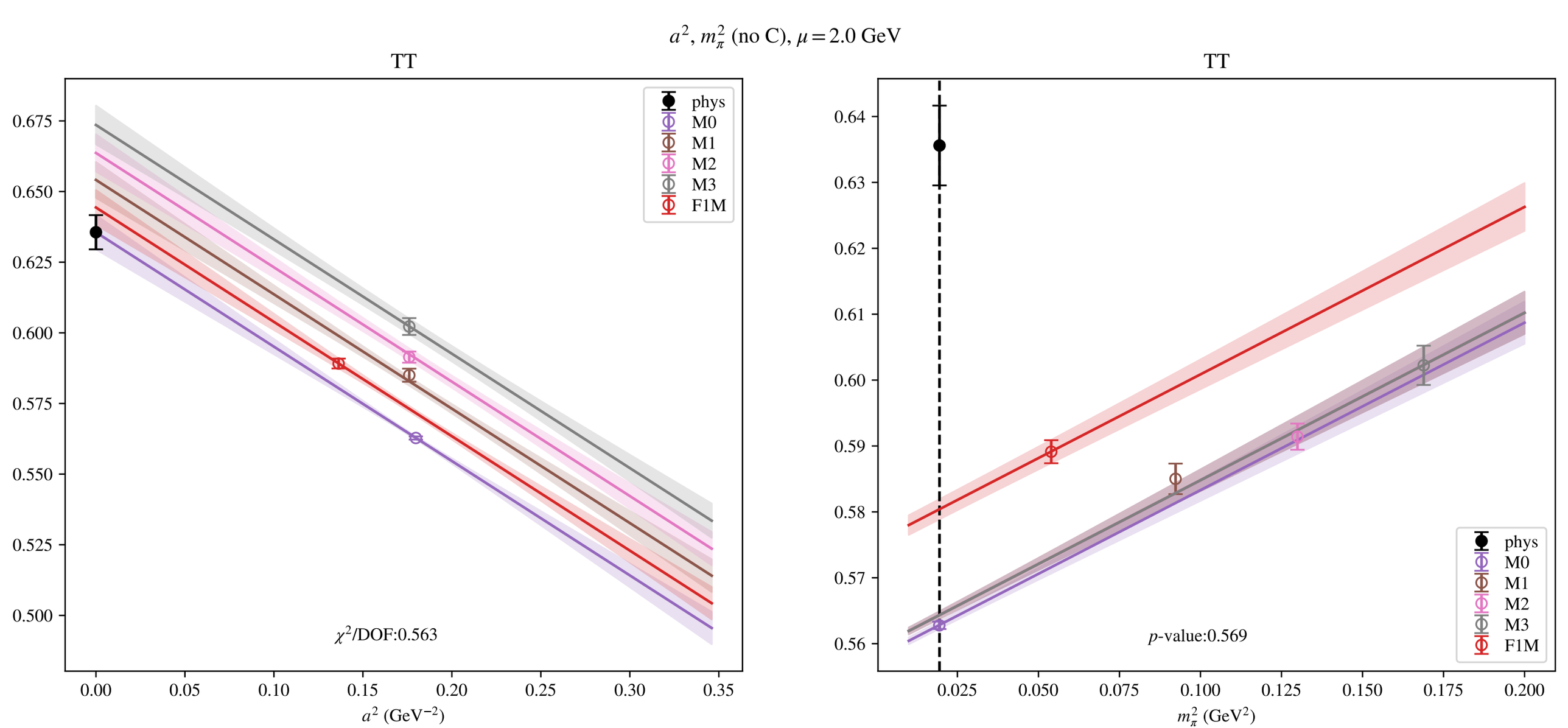

a^2, m_π^2, $\mu = 2.4$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:8.212
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.56
0.55
0.54
0.53
0.52
0.51
0.50
0.49
0.48
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200

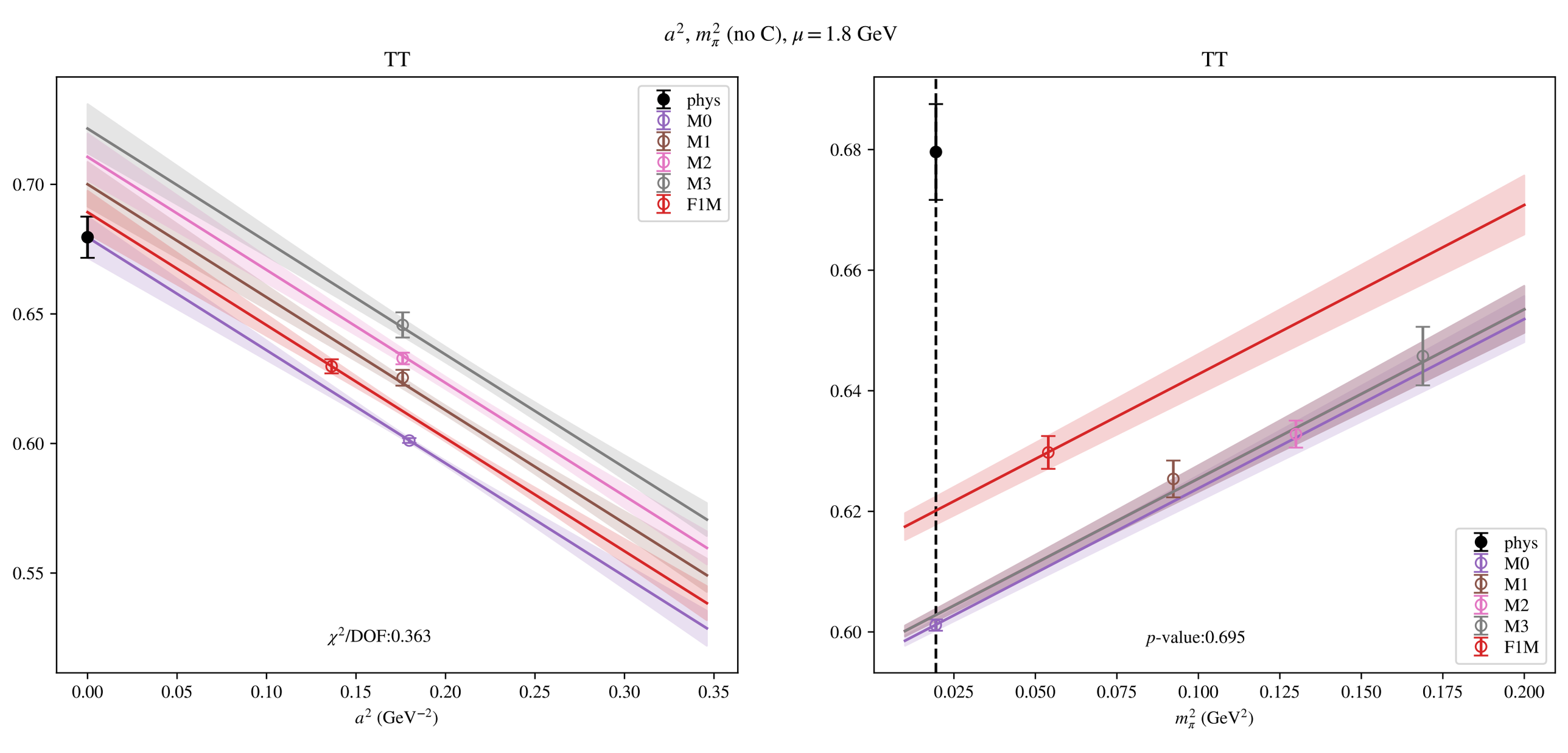

$a^2, m_\pi^2, \mu = 2.0$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:7.141
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.64
0.62
0.60
0.58
0.56
0.54
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200

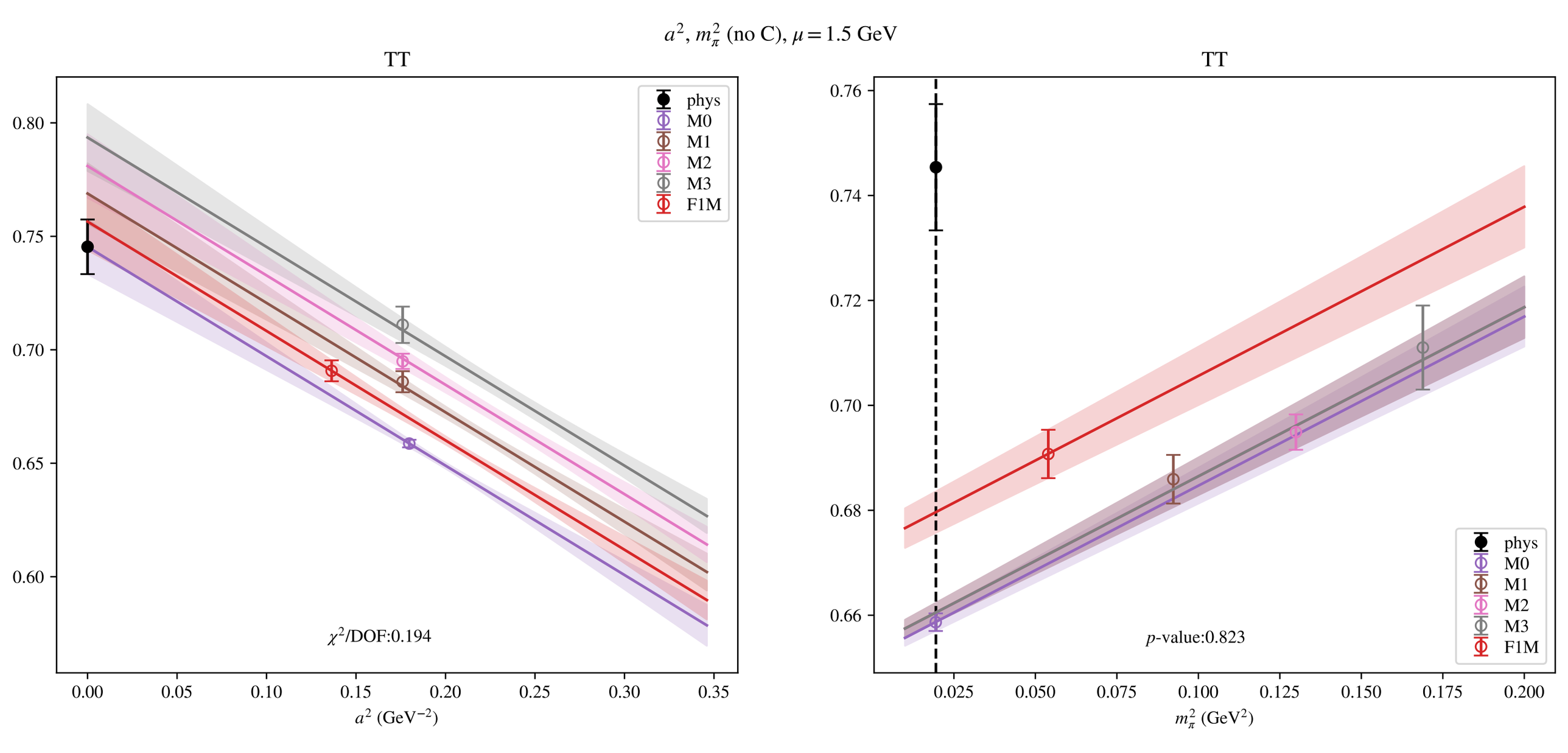

$a^2, m_\pi^2, \mu = 1.8$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:3.741
p-value:0.002
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.58
0.60
0.62
0.64
0.66
0.68
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200


$a^2, m_\pi^2, \mu = 1.5$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:2.017
p-value:0.073
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.62
0.64
0.66
0.68
0.70
0.72
0.74
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200

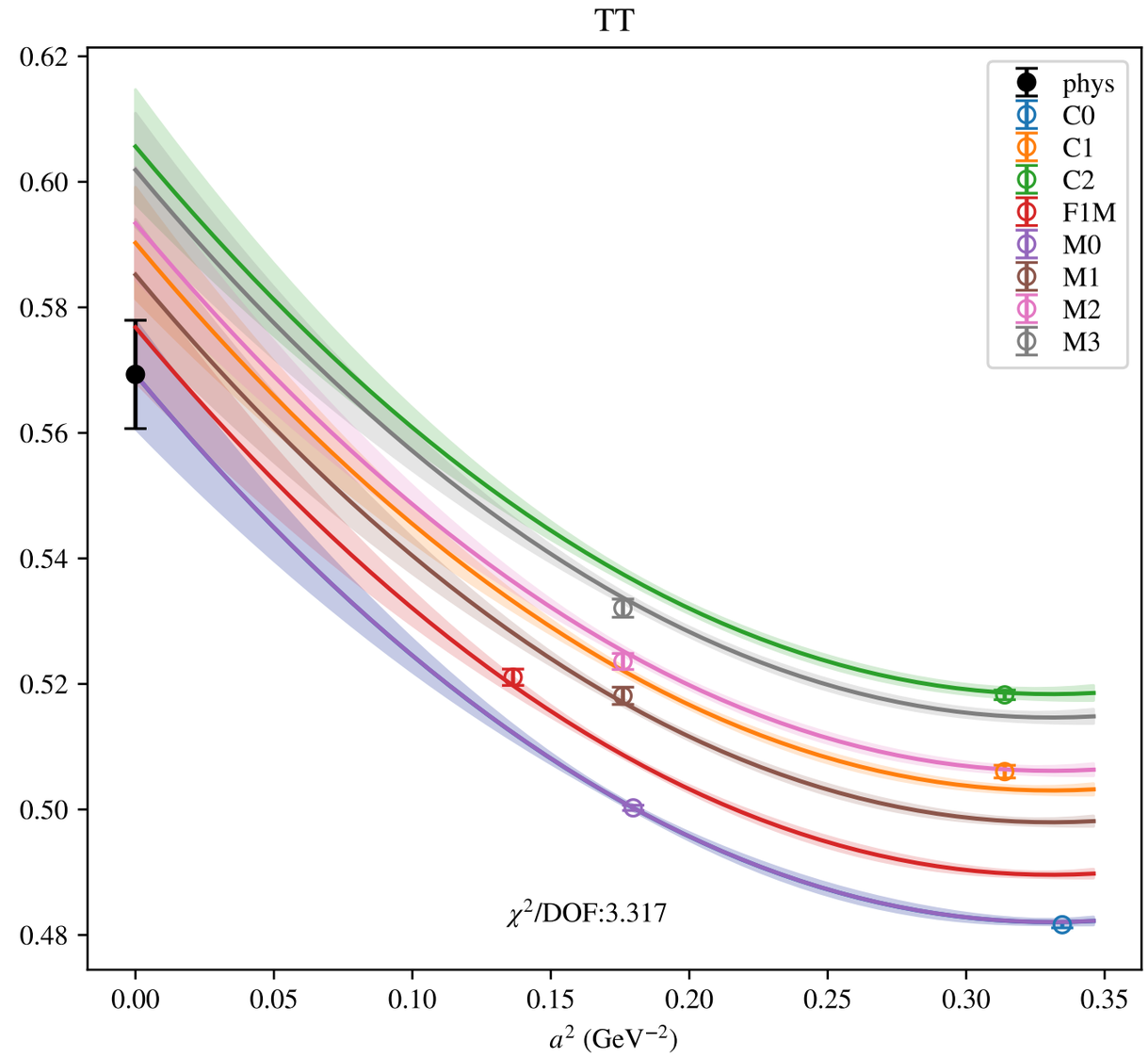

a^2, m_π^2 (no C), $\mu = 2.4$ GeV
TT
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.839
a^2 (GeV^{-2})
TT
p-value:0.432
m_π^2 (GeV^2)

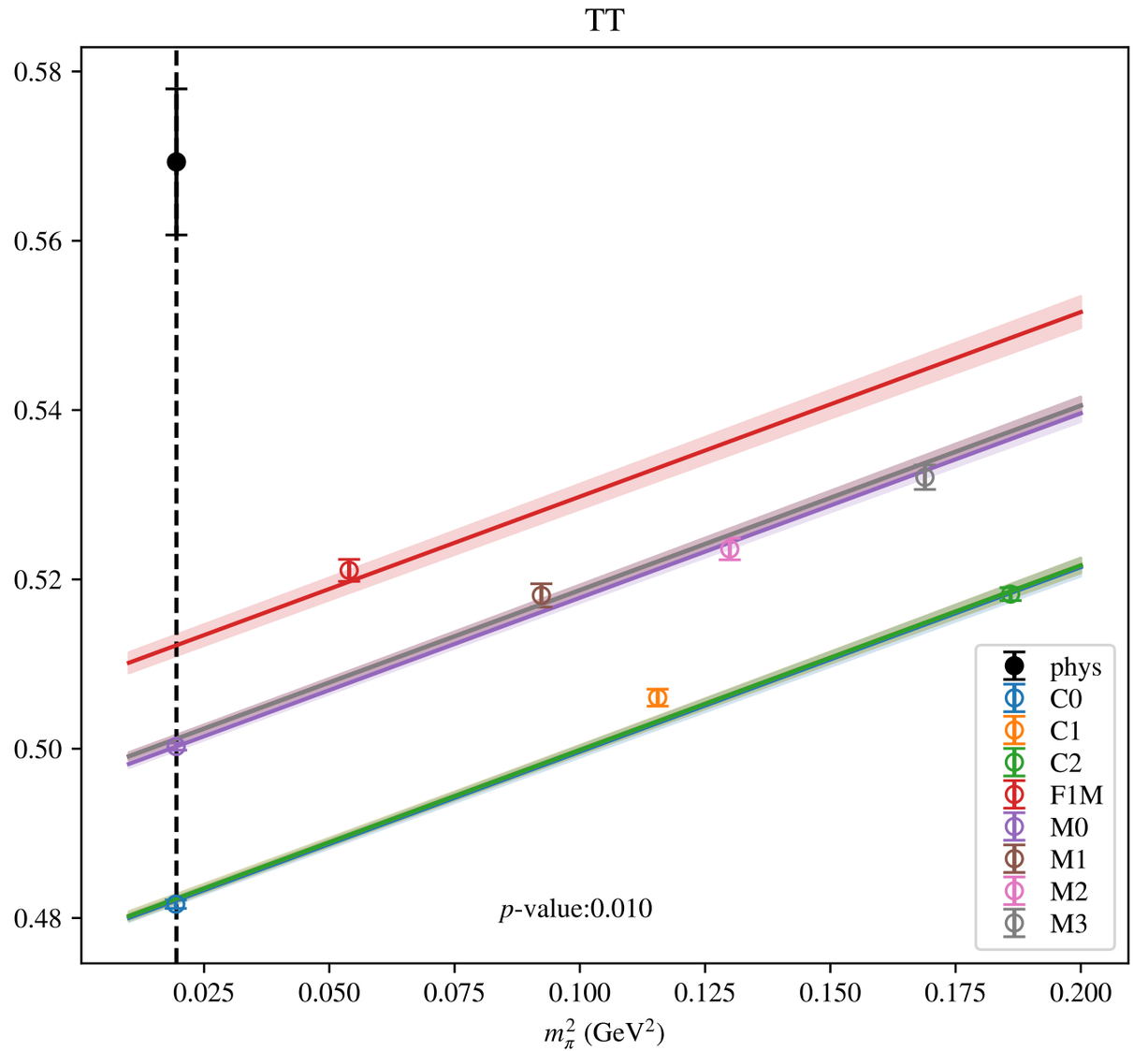

a^2, m_π^2 (no C), $\mu = 2.0$ GeV
TT
phys
M0
M1
M2
M3
F1M
χ^2/DOF:0.563
a^2 (GeV^{-2})
TT
p-value:0.569
m_π^2 (GeV^2)


a^2, m_π^2 (no C), $\mu = 1.8$ GeV
TT
phys
M0
M1
M2
M3
F1M
0.70
0.65
0.60
0.55
χ^2/DOF:0.363
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
TT
0.68
0.66
0.64
0.62
0.60
p-value:0.695
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

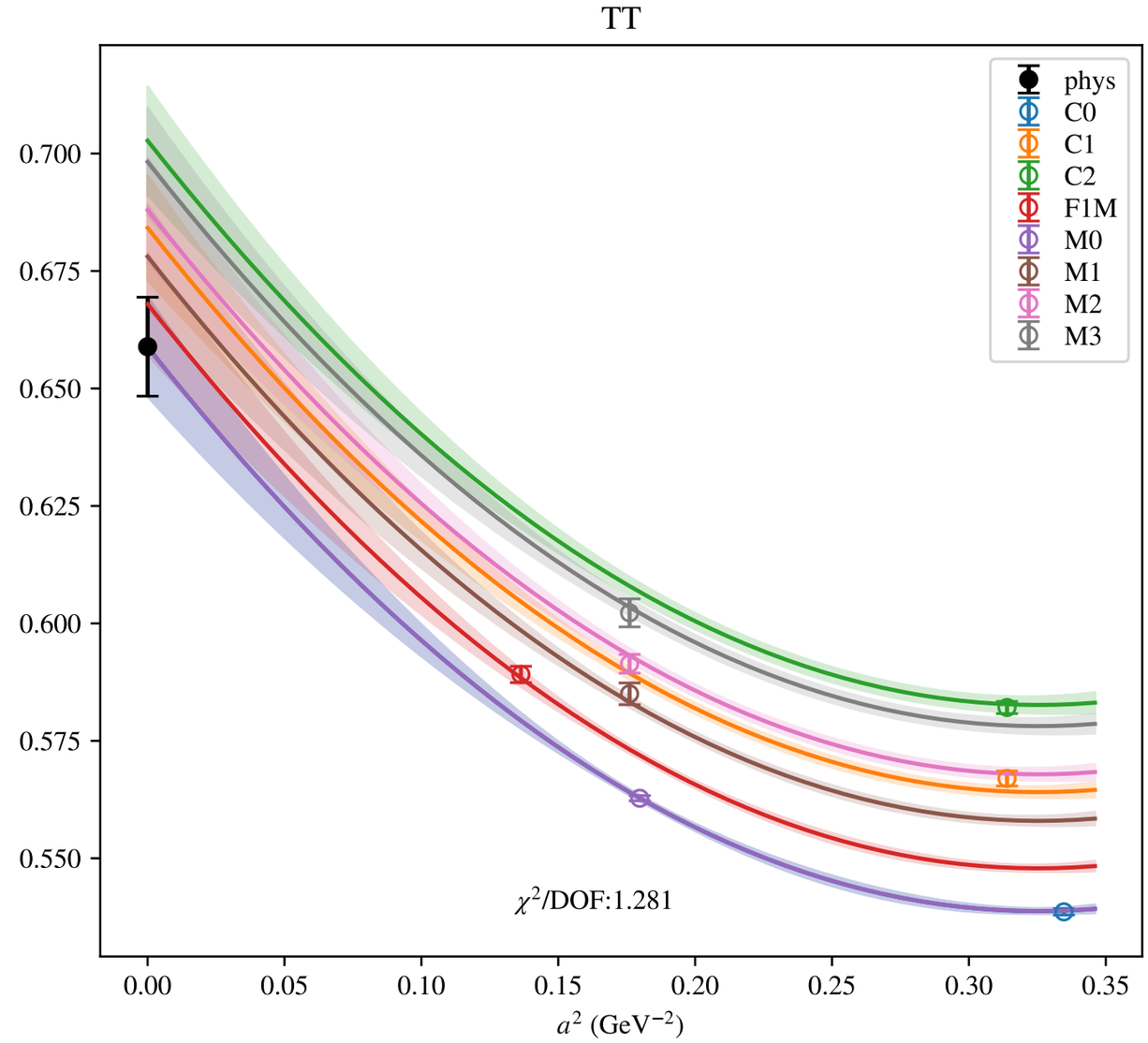

a^2, m_π^2 (no C), $\mu = 1.5$ GeV
TT
phys
M0
M1
M2
M3
F1M
0.80
0.75
0.70
0.65
0.60
χ^2/DOF:0.194
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
a^2 (GeV^{-2})
TT
0.76
0.74
0.72
0.70
0.68
0.66
p-value:0.823
phys
M0
M1
M2
M3
F1M
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200
m_π^2 (GeV^2)

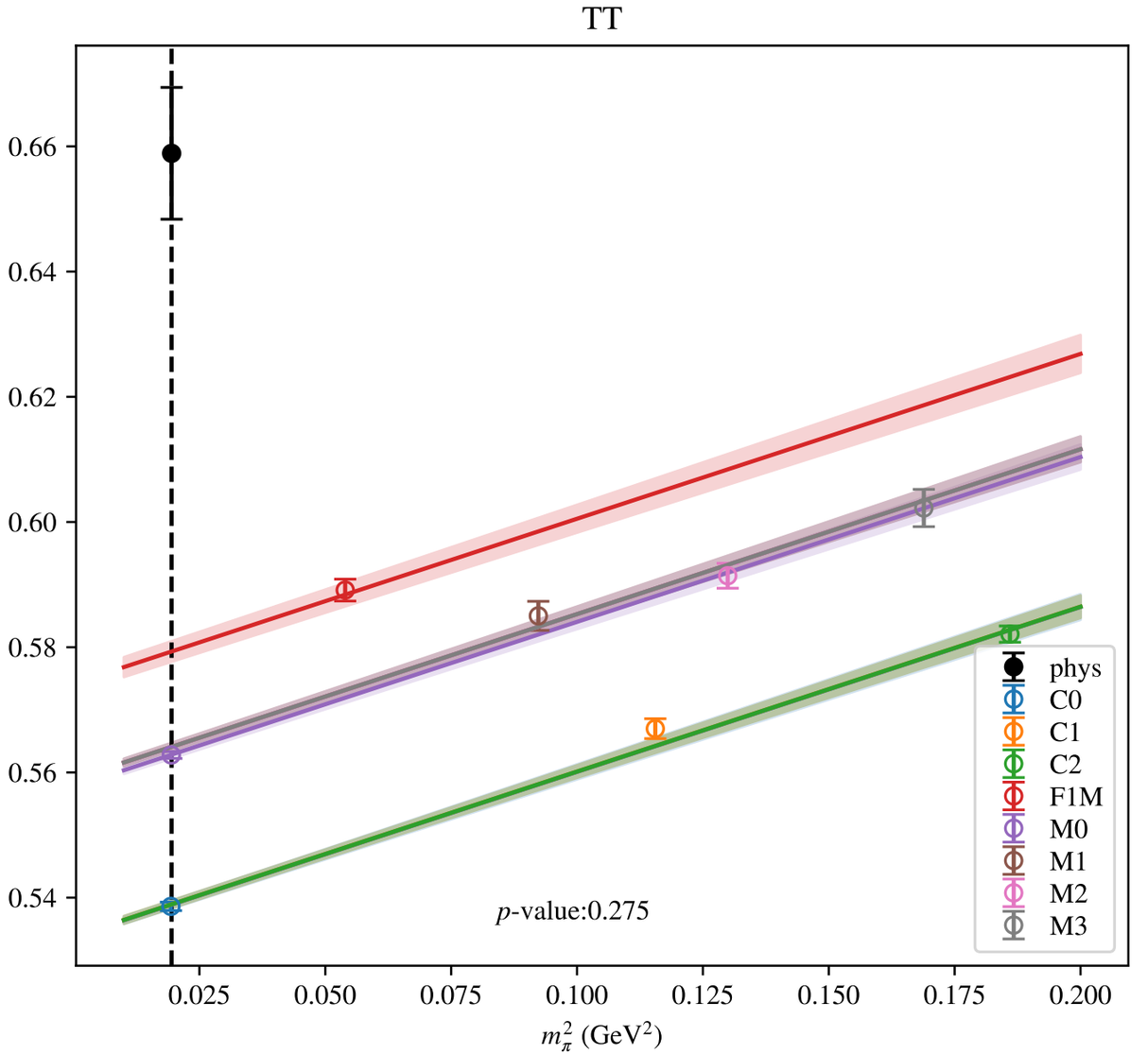
$a^2, a^4, m_\pi^2, \mu = 2.4$ GeV



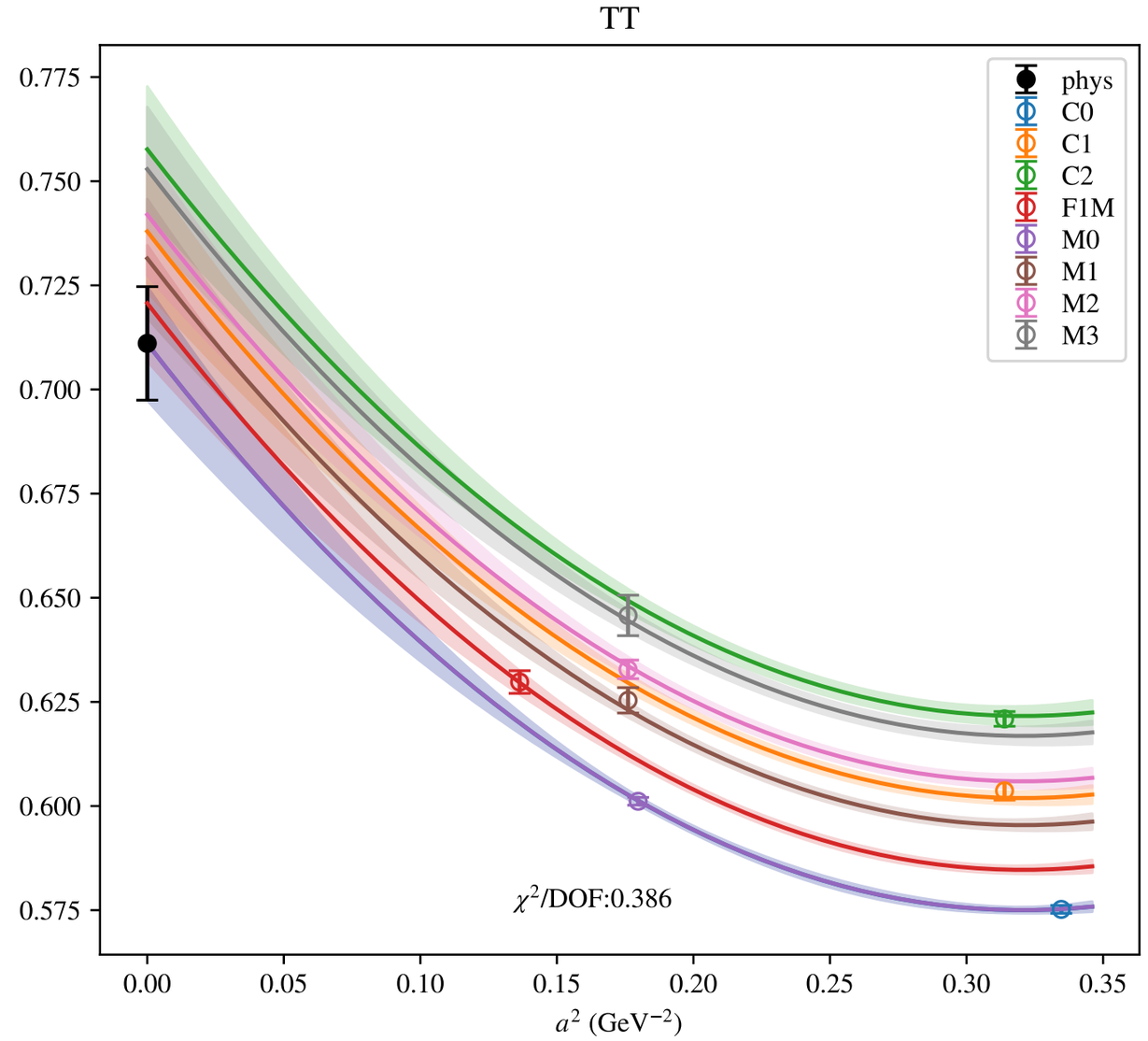


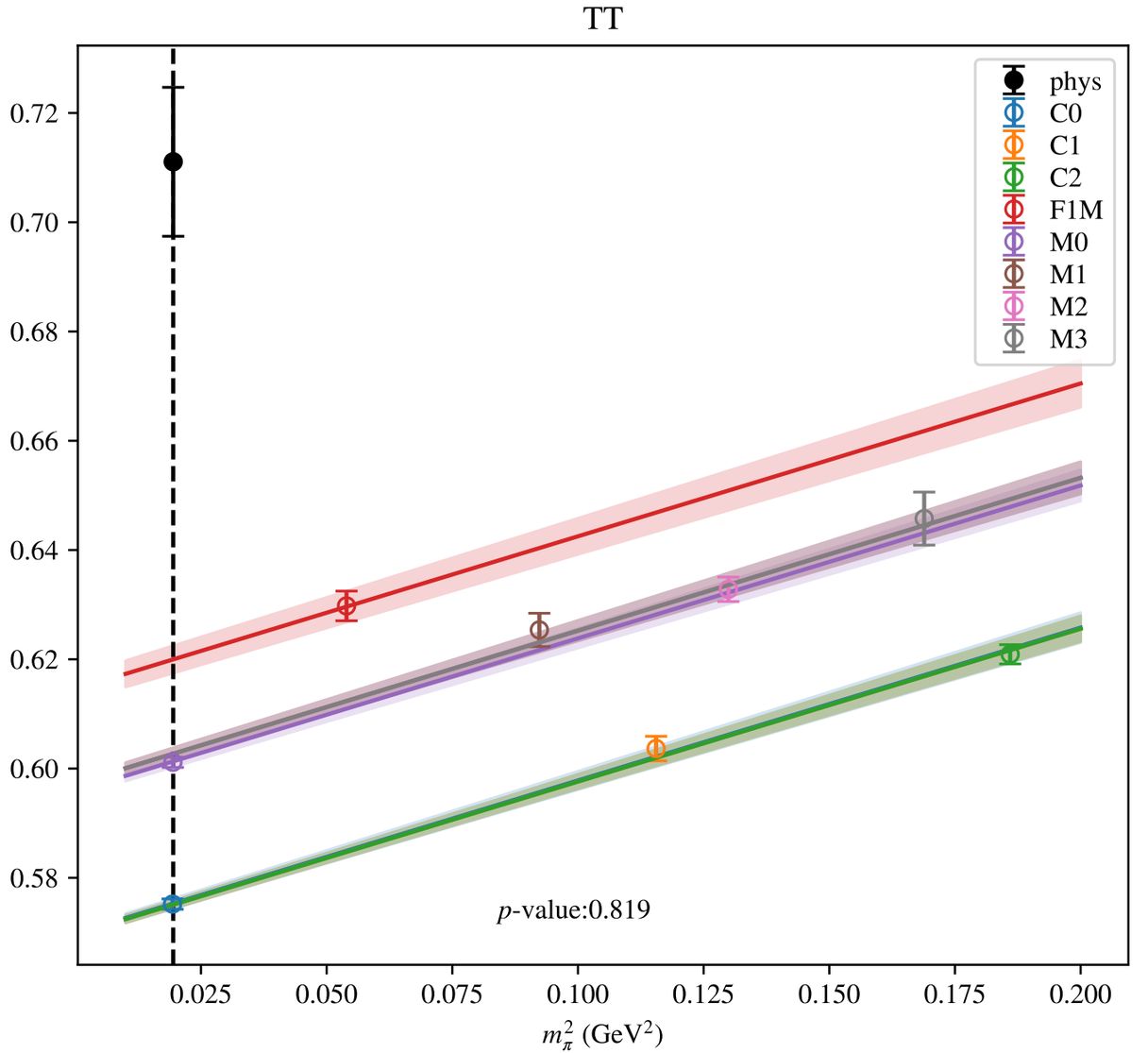
a^2, a^4, m_π^2, $\mu = 2.0$ GeV

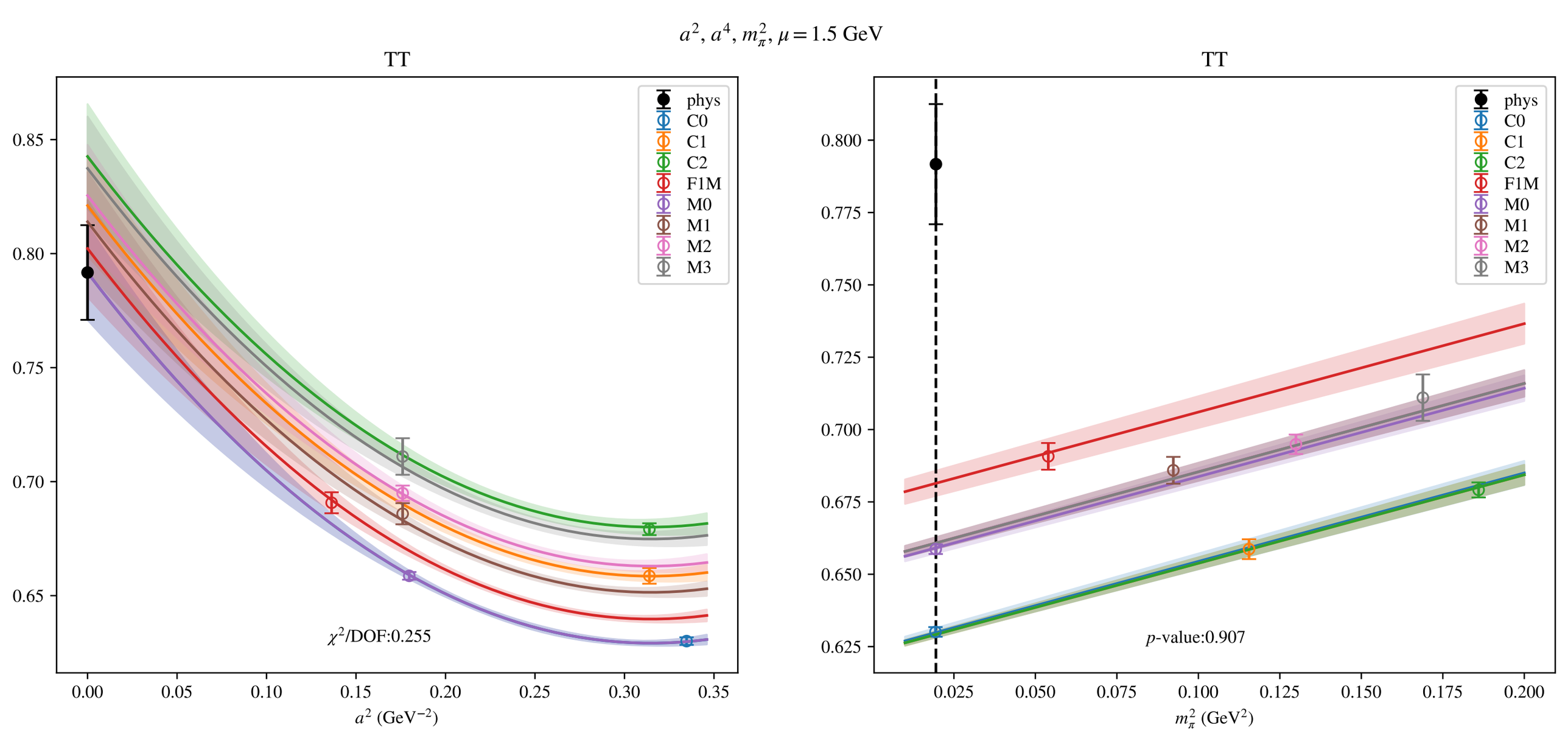


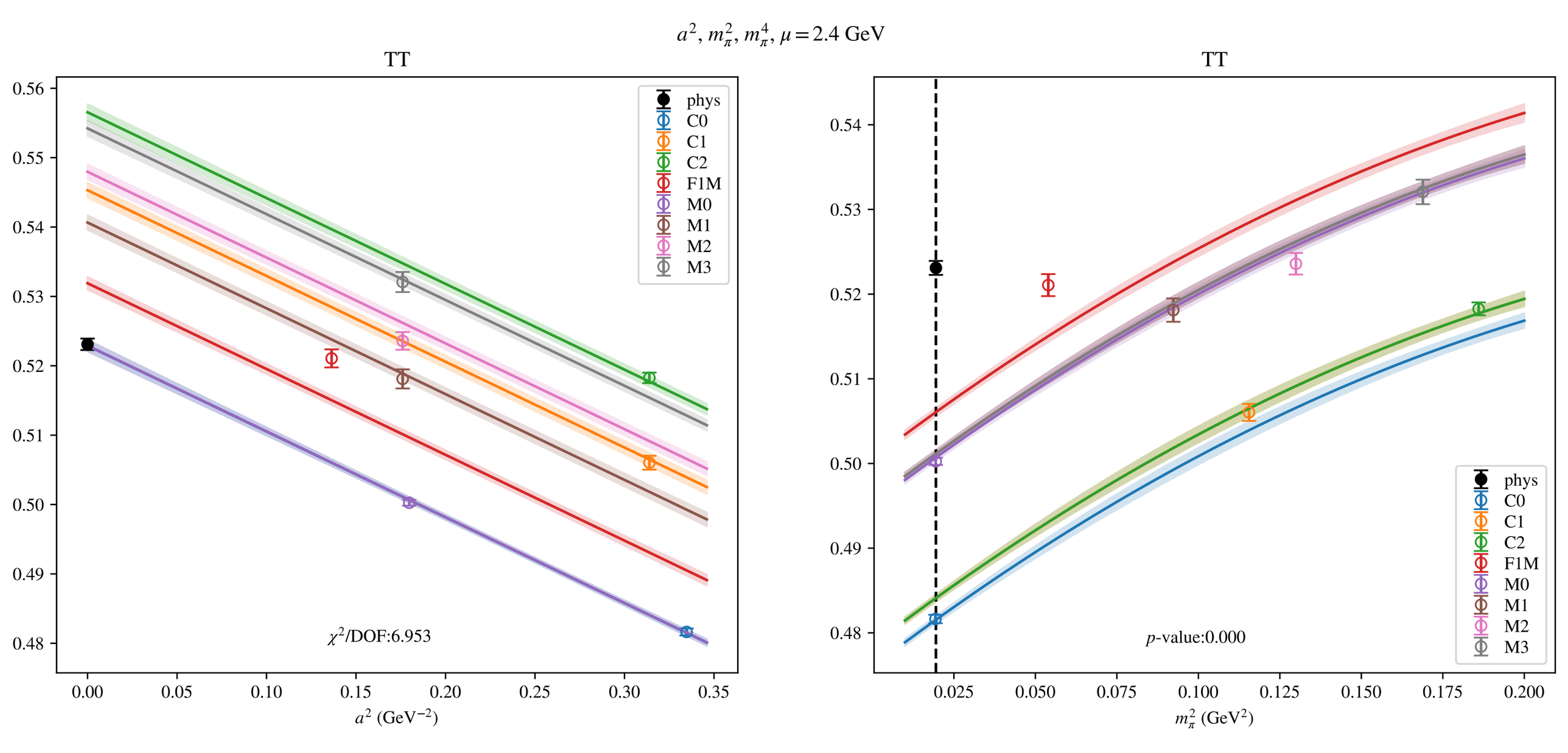


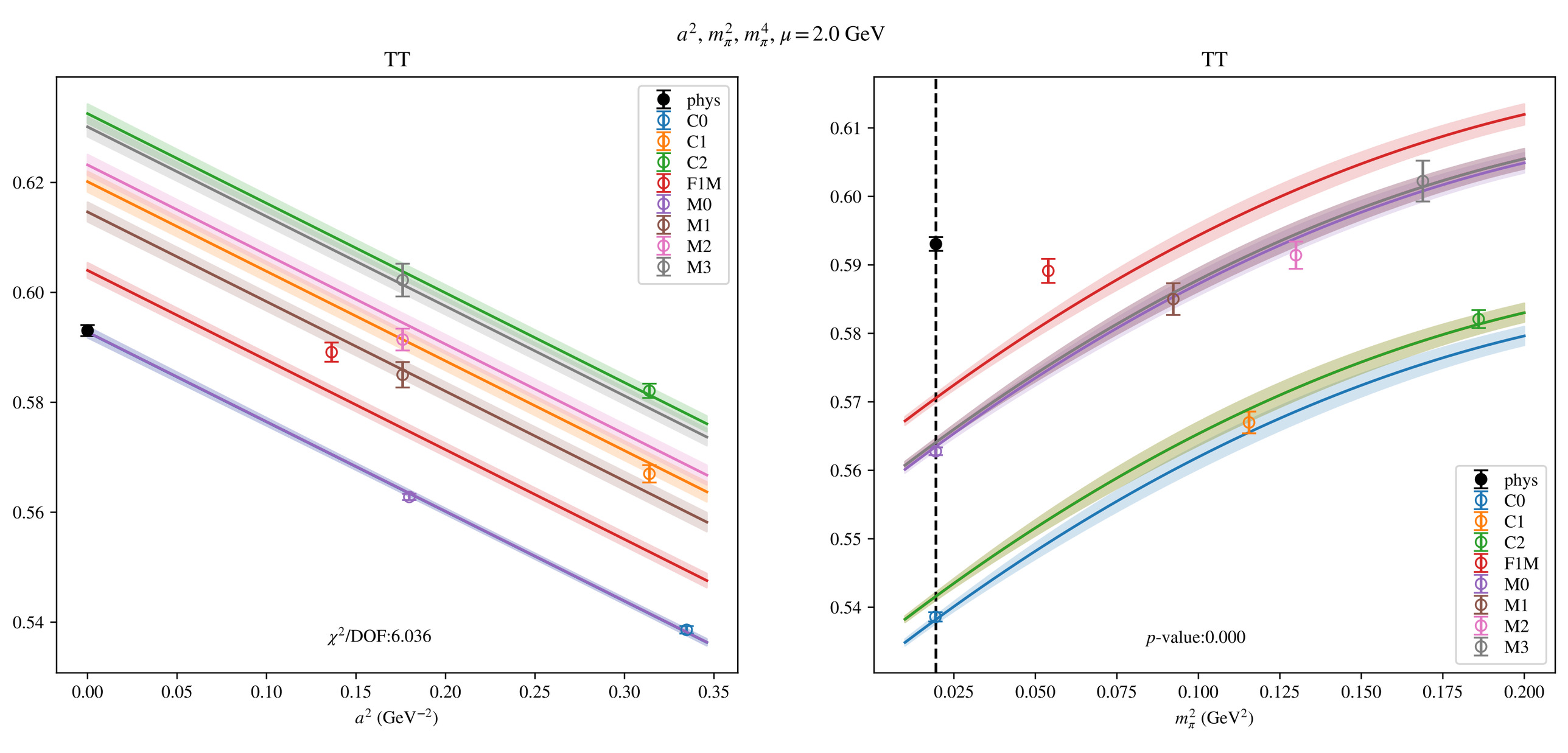
a^2, a^4, m_π^2, $\mu = 1.8$ GeV

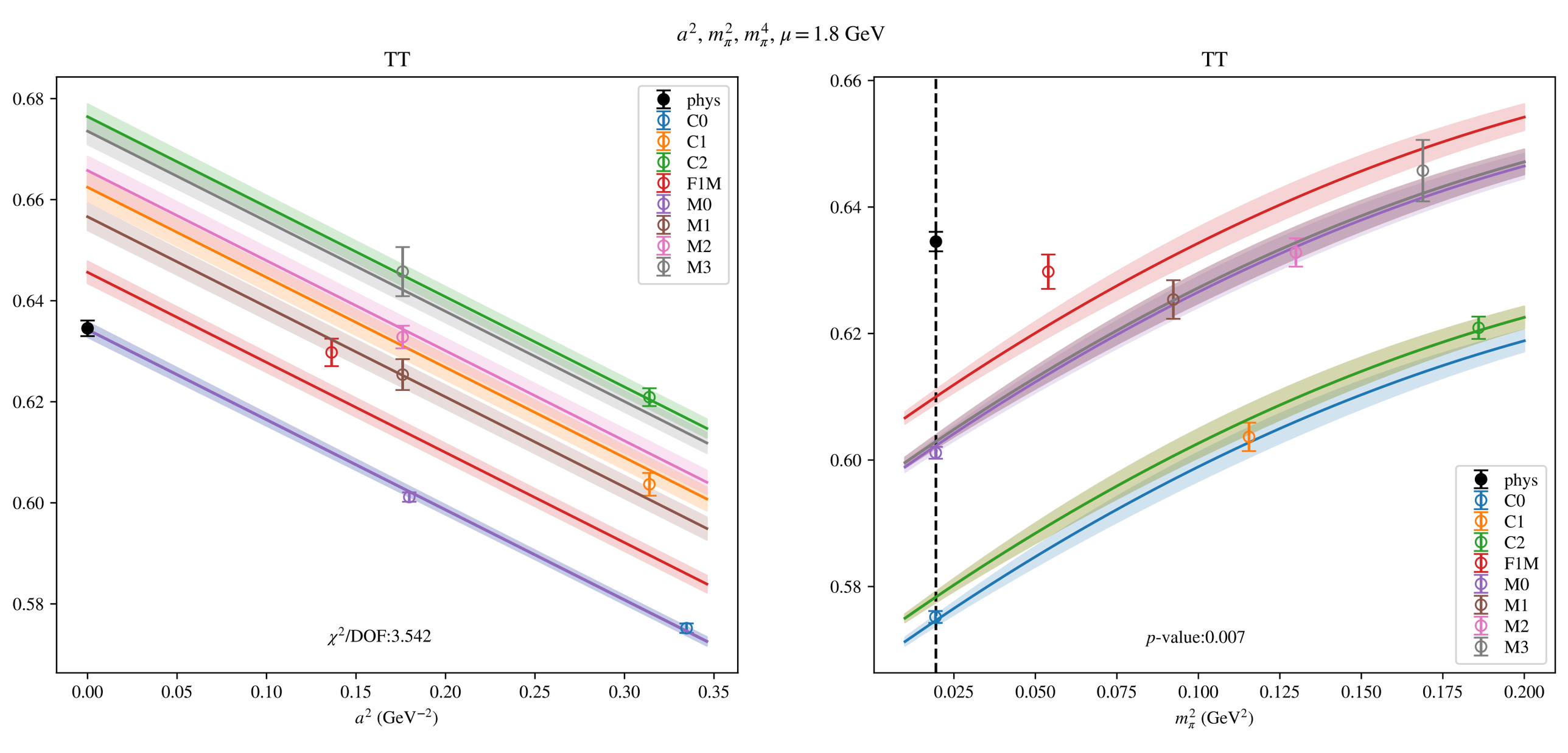


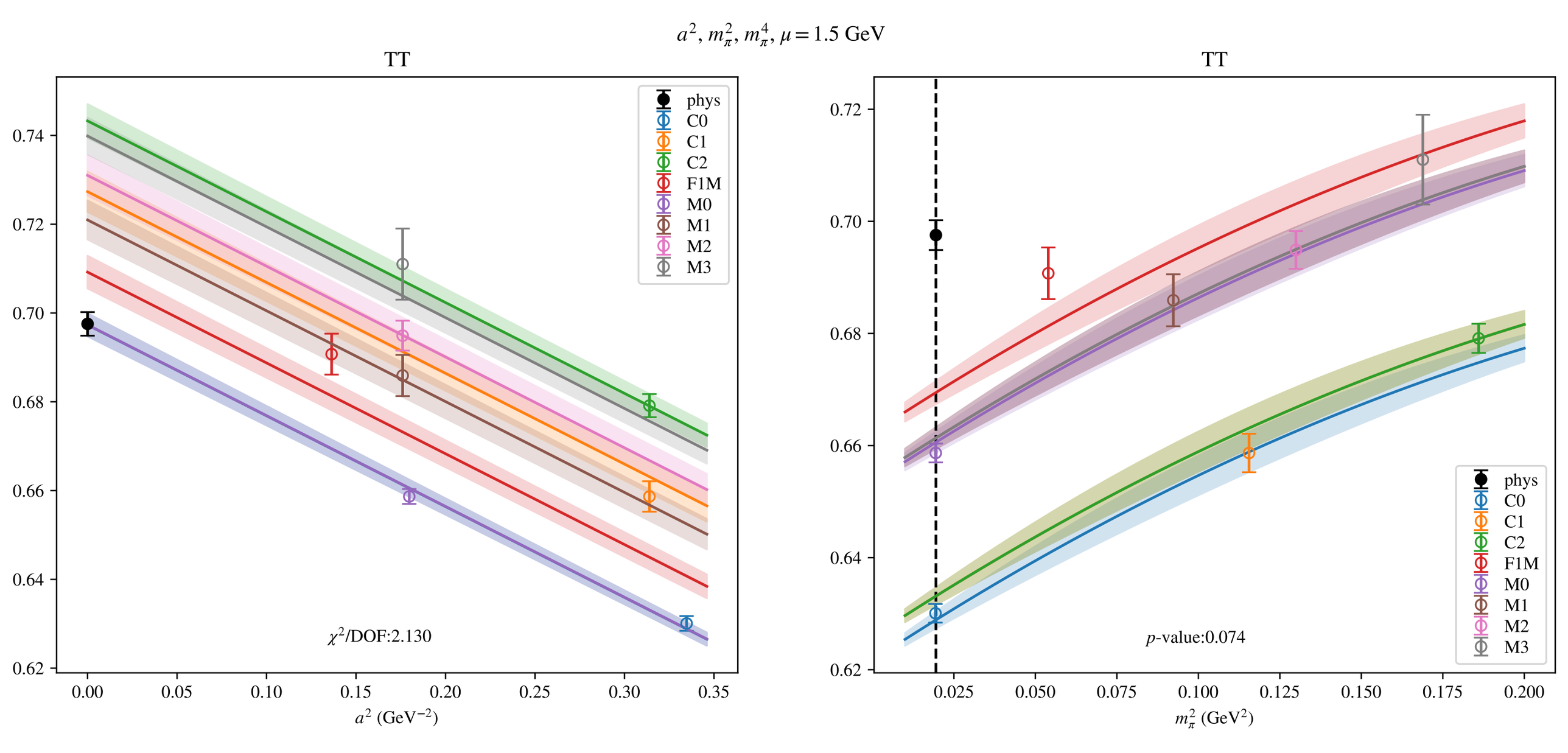


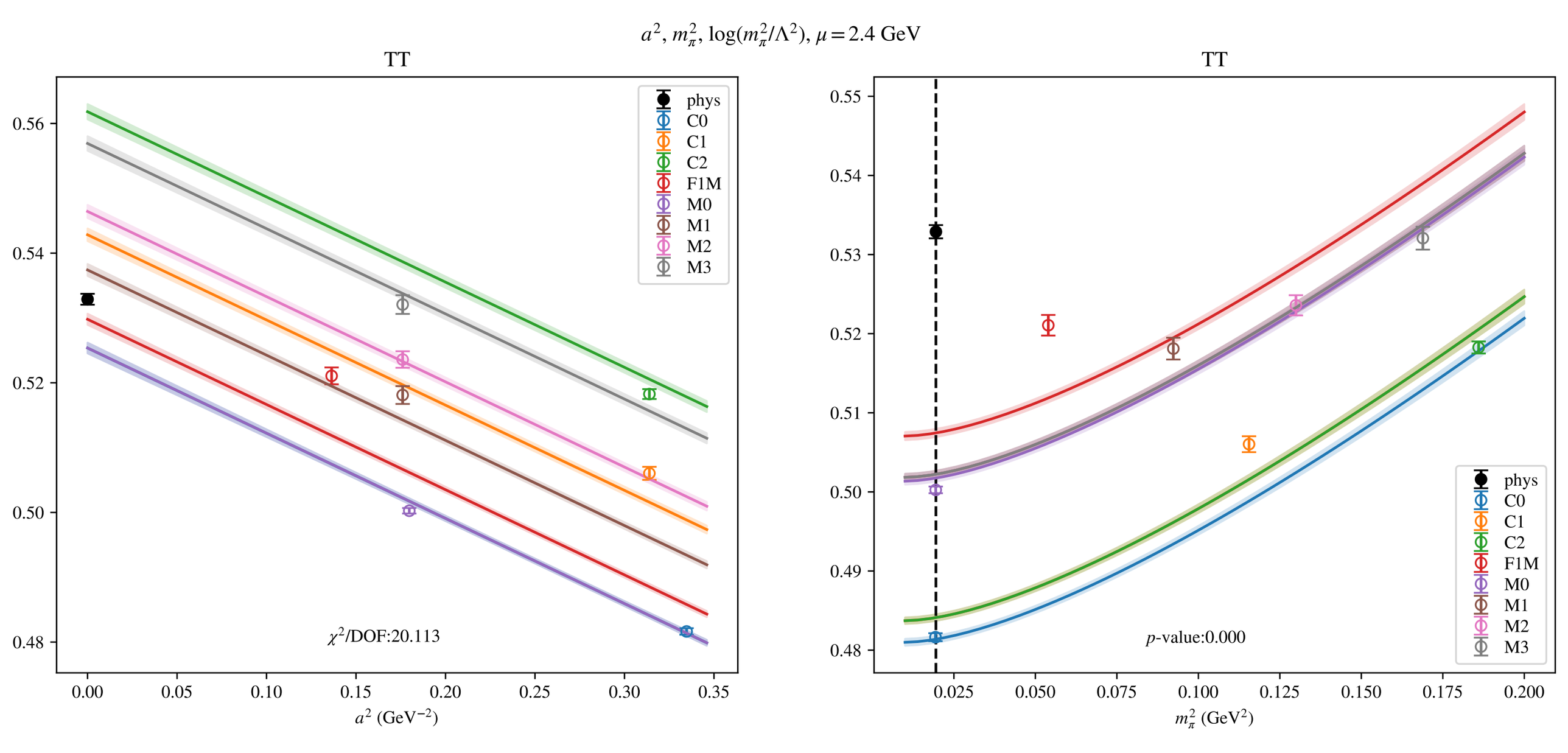

$a^2, a^4, m_\pi^2, \mu = 1.5$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:0.255
p-value:0.907
a^2 (GeV^{-2})
m_π^2 (GeV^2)

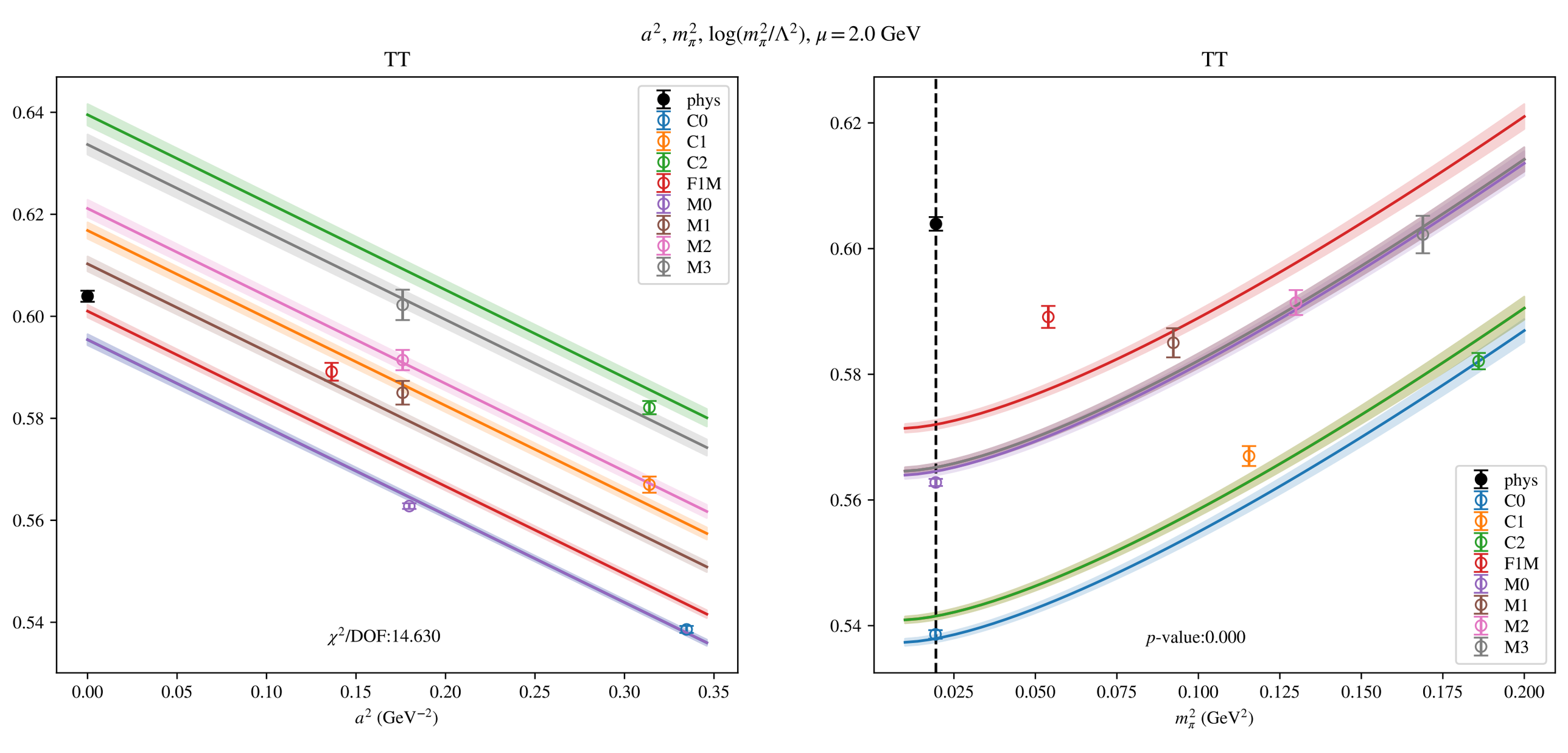

$a^2, m_\pi^2, m_\pi^4, \mu = 2.4$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:6.953
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)

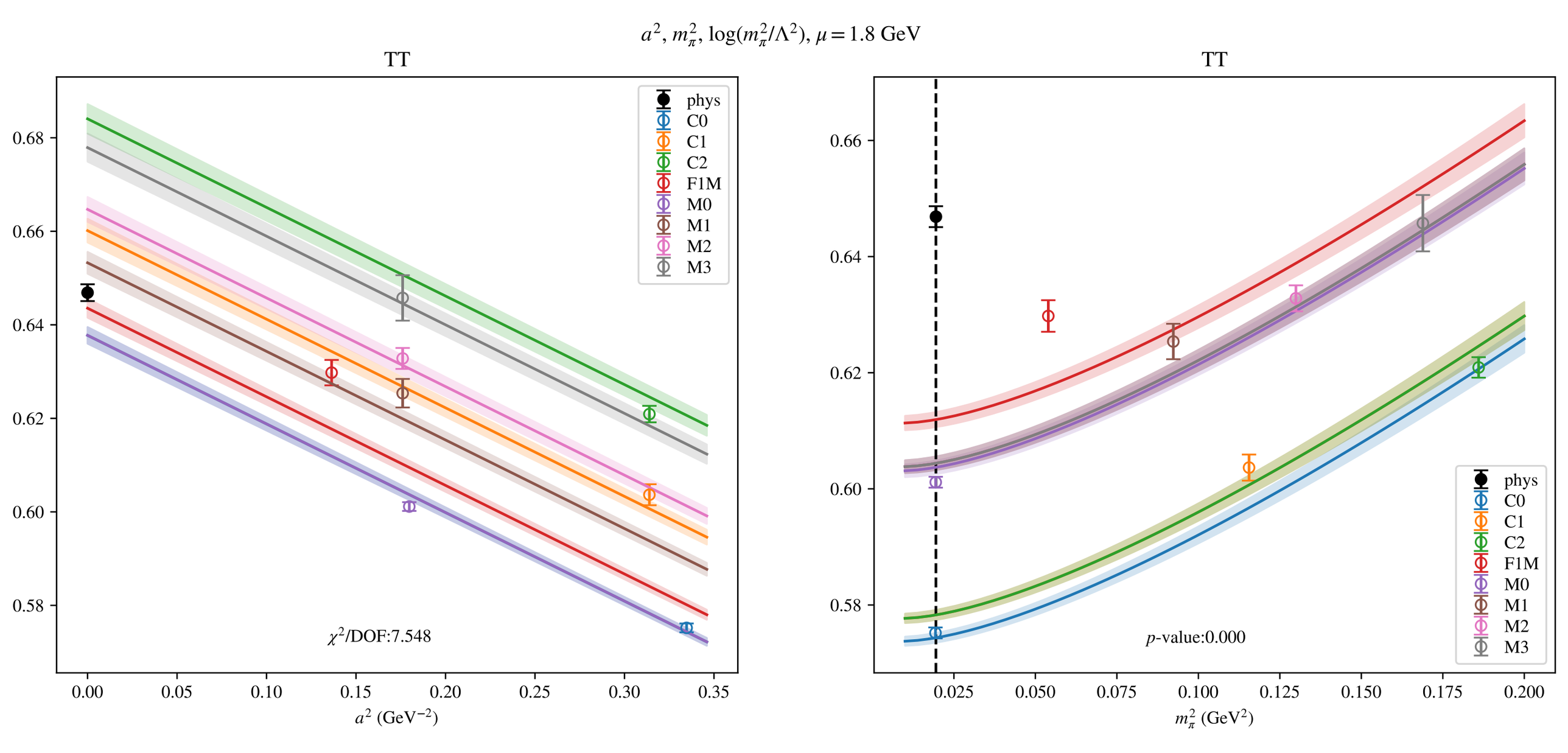

$a^2, m_\pi^2, m_\pi^4, \mu = 2.0$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:6.036
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.54
0.55
0.56
0.57
0.58
0.59
0.60
0.61
0.62
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200

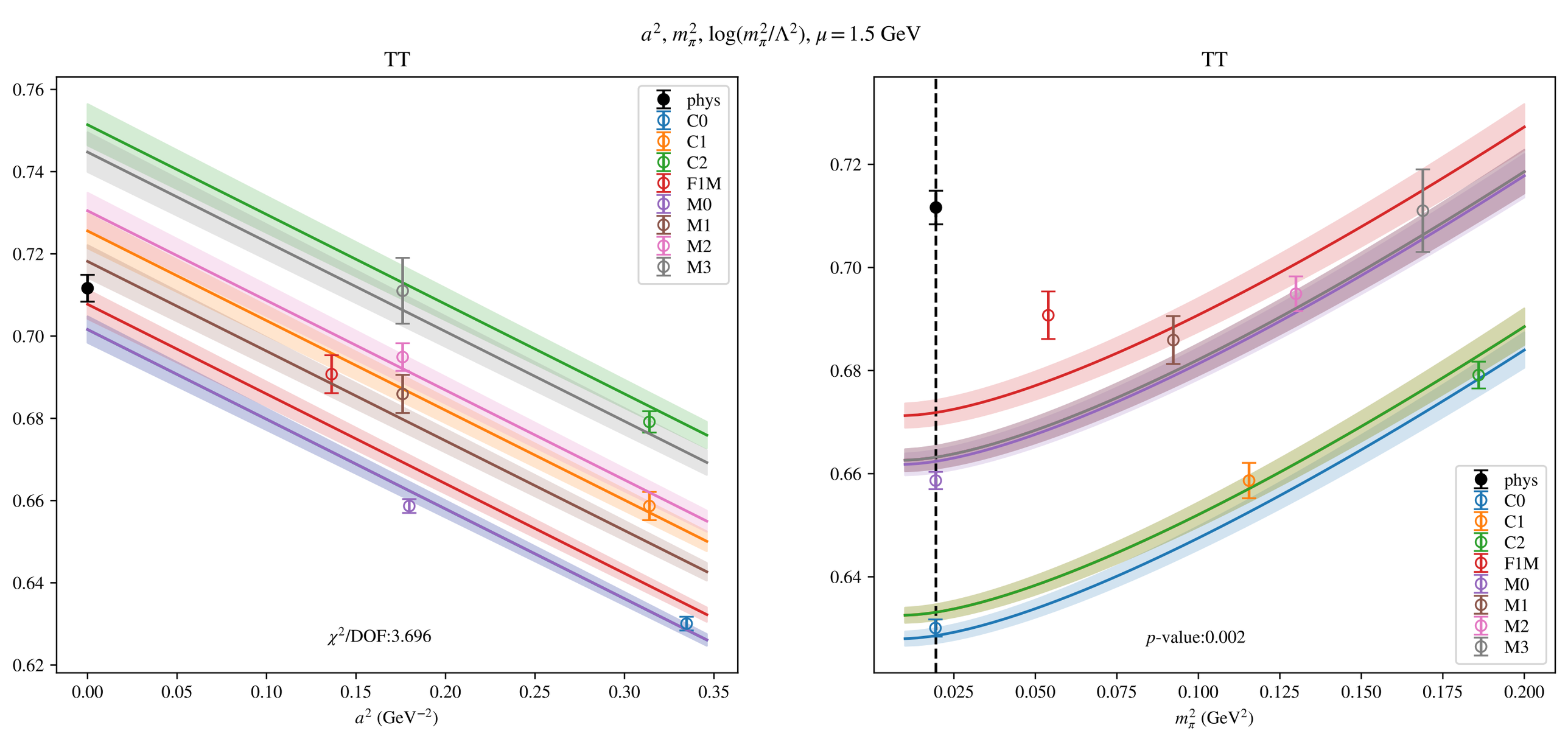

$a^2, m_\pi^2, m_\pi^4, \mu = 1.8$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:3.542
p-value:0.007
a^2 (GeV^{-2})
m_π^2 (GeV^2)


$a^2, m_\pi^2, m_\pi^4, \mu = 1.5$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:2.130
p-value:0.074
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.62
0.64
0.66
0.68
0.70
0.72
0.74
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.4$ GeV
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:20.113
a^2 (GeV^{-2})
TT
p-value:0.000
m_π^2 (GeV^2)


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 2.0$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:14.630
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.64
0.62
0.60
0.58
0.56
0.54
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.8$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:7.548
p-value:0.000
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.68
0.66
0.64
0.62
0.60
0.58
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200


a^2, m_π^2, $\log(m_\pi^2/\Lambda^2)$, $\mu = 1.5$ GeV
TT
TT
phys
C0
C1
C2
F1M
M0
M1
M2
M3
χ^2/DOF:3.696
p-value:0.002
a^2 (GeV^{-2})
m_π^2 (GeV^2)
0.76
0.74
0.72
0.70
0.68
0.66
0.64
0.62
0.00
0.05
0.10
0.15
0.20
0.25
0.30
0.35
0.025
0.050
0.075
0.100
0.125
0.150
0.175
0.200