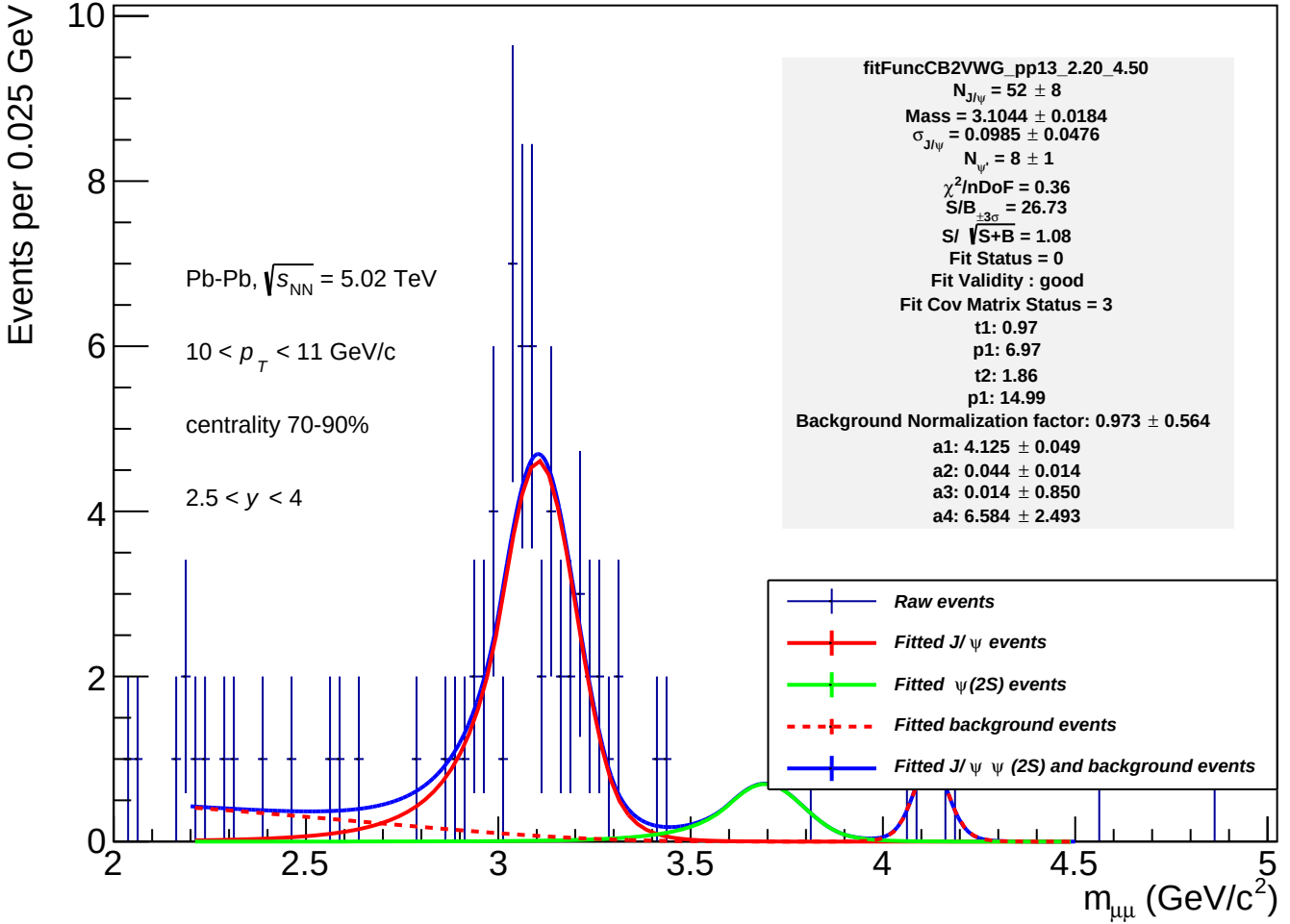
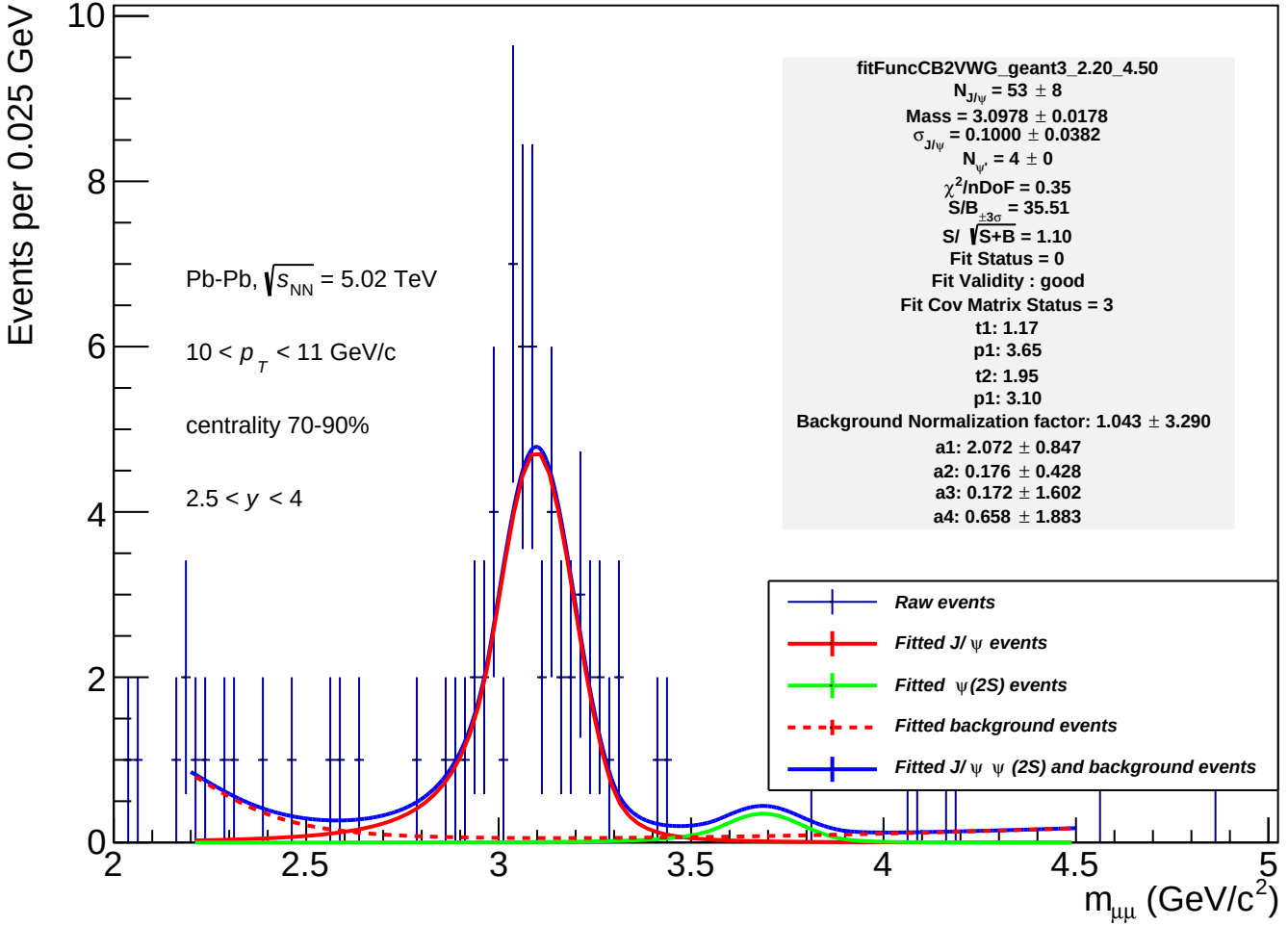
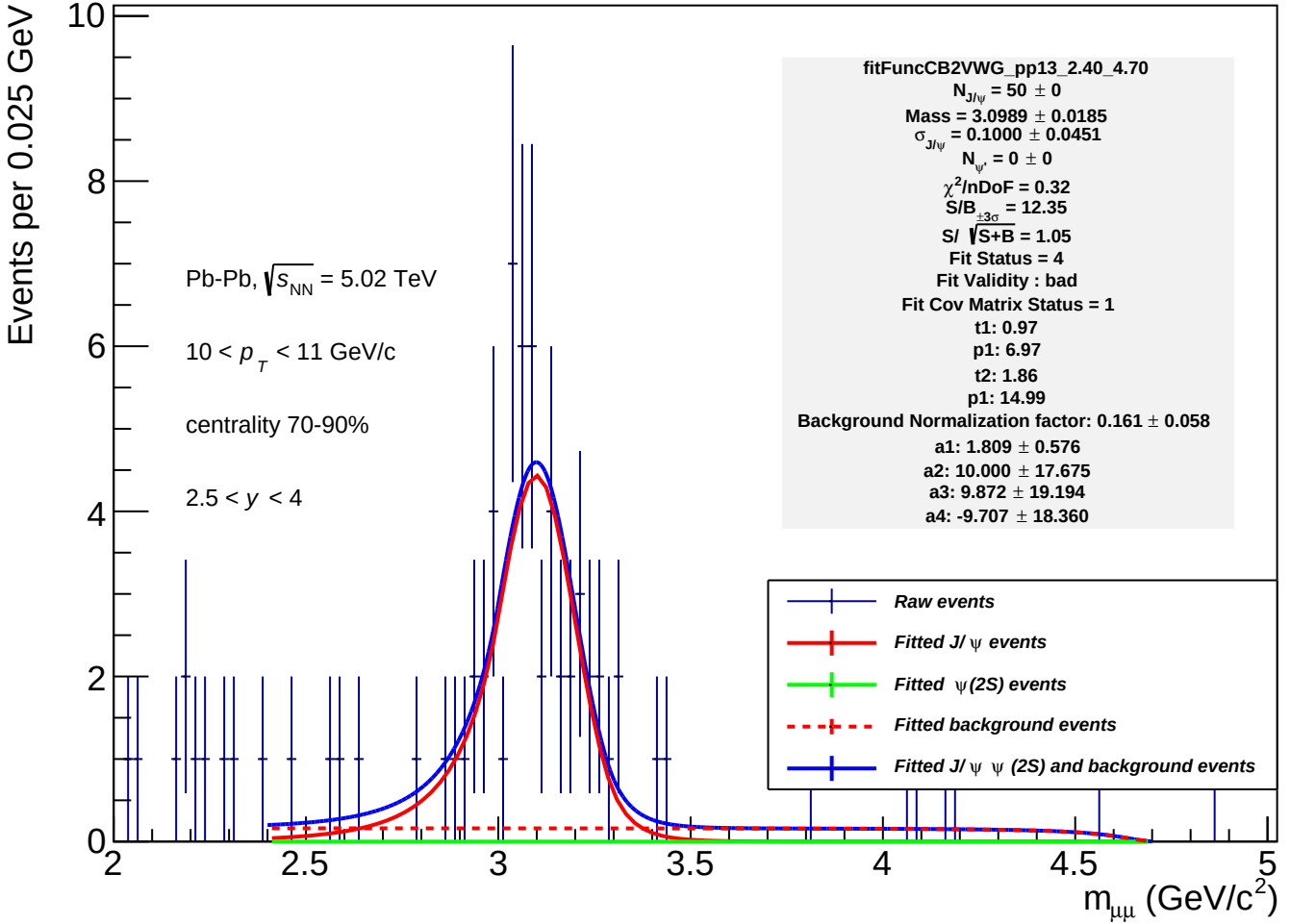

Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2VWG_pp13_2.20_4.50
$N_{J/\psi}$ = 52 ± 8
Mass = 3.1044 ± 0.0184
$\sigma_{J/\psi}$ = 0.0985 ± 0.0476
$N_{\psi'}$ = 8 ± 1
χ^2/nDoF = 0.36
$S/B_{\pm 3\sigma}$ = 26.73
$S/\sqrt{S+B}$ = 1.08
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
t1: 0.97
p1: 6.97
t2: 1.86
p1: 14.99
Background Normalization factor: 0.973 ± 0.564
a1: 4.125 ± 0.049
a2: 0.044 ± 0.014
a3: 0.014 ± 0.850
a4: 6.584 ± 2.493
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2VWG_geant3_2.20_4.50
$N_{J/\psi}$ = 53 ± 8
Mass = 3.0978 ± 0.0178
$\sigma_{J/\psi}$ = 0.1000 ± 0.0382
$N_{\psi'}$ = 4 ± 0
χ^2/nDoF = 0.35
$S/B_{\pm 3\sigma}$ = 35.51
$S/\sqrt{S+B}$ = 1.10
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
t1: 1.17
p1: 3.65
t2: 1.95
p1: 3.10
Background Normalization factor: 1.043 ± 3.290
a1: 2.072 ± 0.847
a2: 0.176 ± 0.428
a3: 0.172 ± 1.602
a4: 0.658 ± 1.883
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
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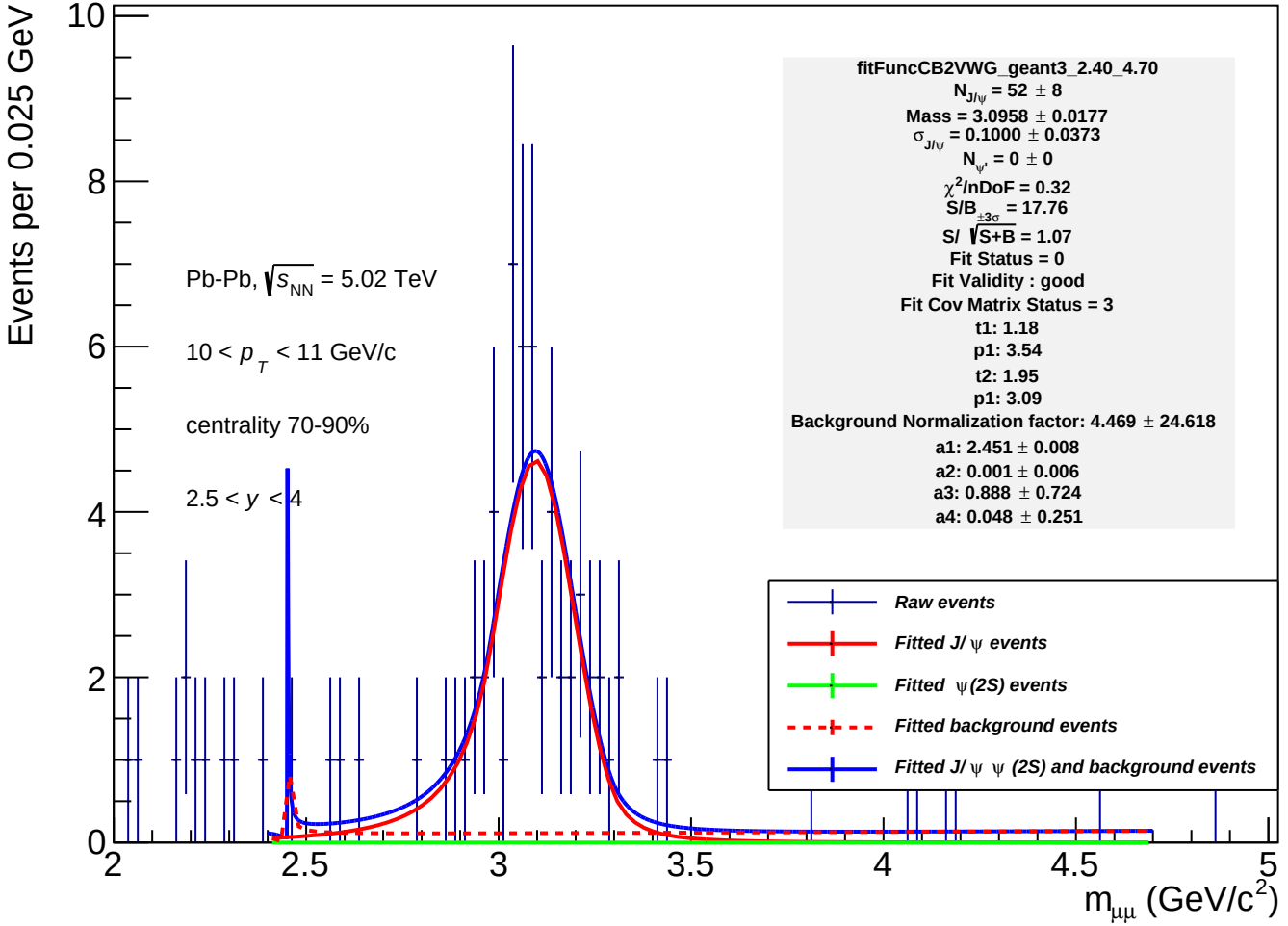
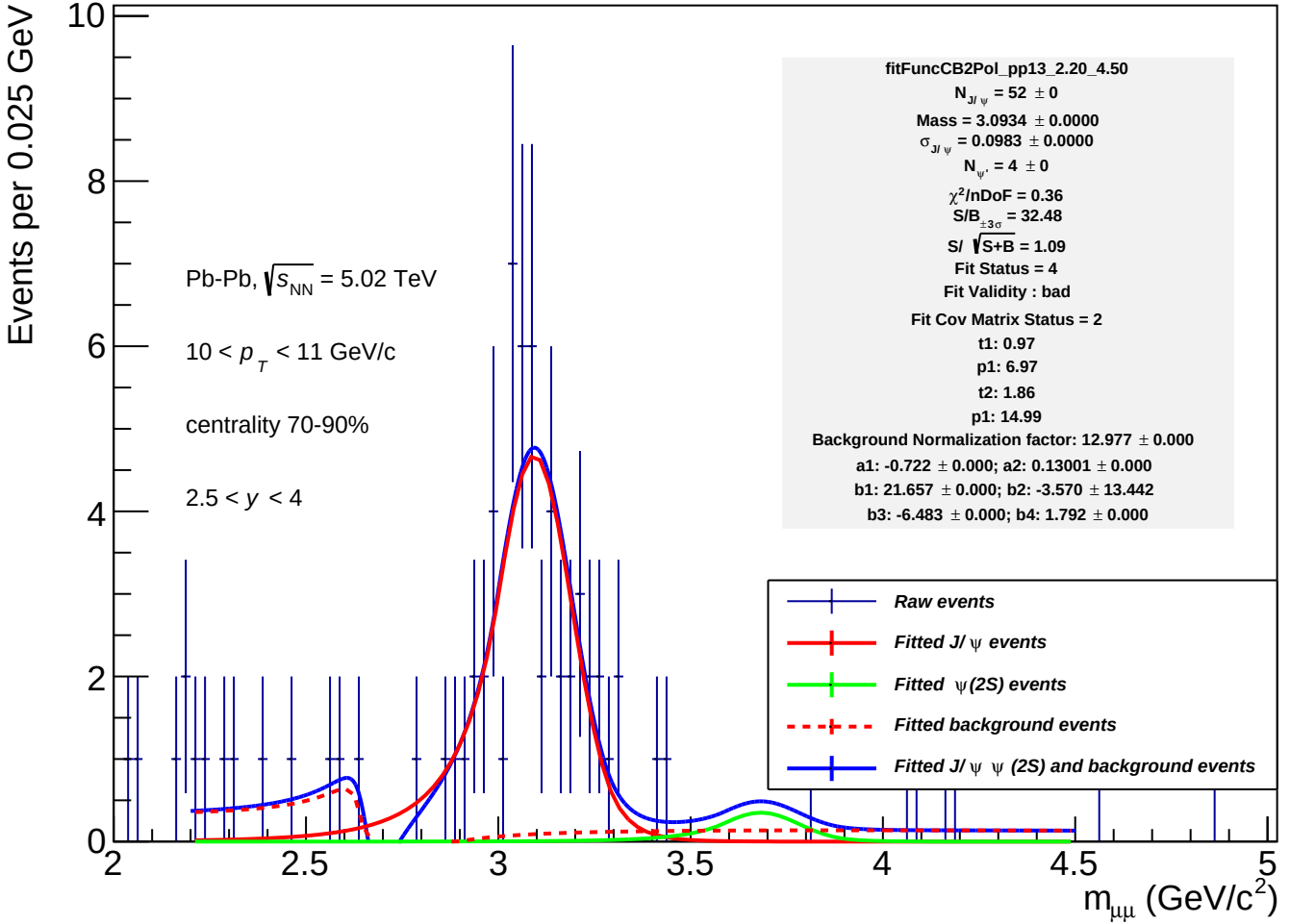
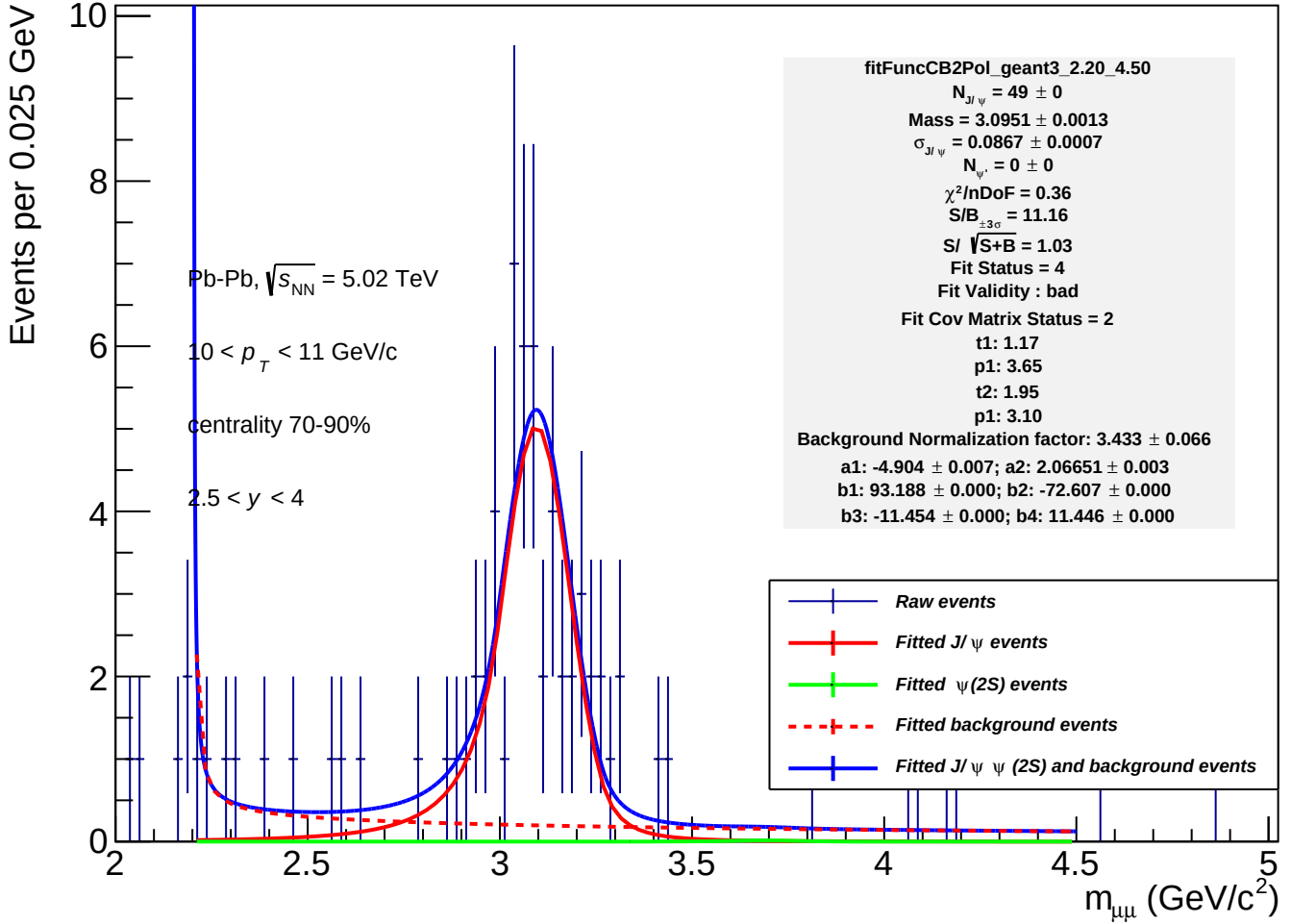
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2VWG_pp13_2.40_4.70
$N_{J/\psi}$ = 50 ± 0
Mass = 3.0989 ± 0.0185
$\sigma_{J/\psi}$ = 0.1000 ± 0.0451
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 0.32
$S/B_{\pm 3\sigma}$ = 12.35
$S/\sqrt{S+B}$ = 1.05
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 1
t1: 0.97
p1: 6.97
t2: 1.86
p1: 14.99
Background Normalization factor: 0.161 ± 0.058
a1: 1.809 ± 0.576
a2: 10.000 ± 17.675
a3: 9.872 ± 19.194
a4: -9.707 ± 18.360
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2VWG_geant3_2.40_4.70
$N_{J/\psi}$ = 52 ± 8
Mass = 3.0958 ± 0.0177
$\sigma_{J/\psi}$ = 0.1000 ± 0.0373
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 0.32
$S/B_{\pm 3\sigma}$ = 17.76
$S/\sqrt{S+B}$ = 1.07
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
t1: 1.18
p1: 3.54
t2: 1.95
p1: 3.09
Background Normalization factor: 4.469 ± 24.618
a1: 2.451 ± 0.008
a2: 0.001 ± 0.006
a3: 0.888 ± 0.724
a4: 0.048 ± 0.251
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2Pol_pp13_2.20_4.50
$N_{J/\psi}$ = 52 ± 0
Mass = 3.0934 ± 0.0000
$\sigma_{J/\psi}$ = 0.0983 ± 0.0000
$N_{\psi'}$ = 4 ± 0
χ^2/nDoF = 0.36
$S/B_{\pm 3\sigma}$ = 32.48
$S/\sqrt{S+B}$ = 1.09
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 2
t1: 0.97
p1: 6.97
t2: 1.86
p1: 14.99
Background Normalization factor: 12.977 ± 0.000
a1: -0.722 ± 0.000; a2: 0.13001 ± 0.000
b1: 21.657 ± 0.000; b2: -3.570 ± 13.442
b3: -6.483 ± 0.000; b4: 1.792 ± 0.000
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
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2
0
2
2.5
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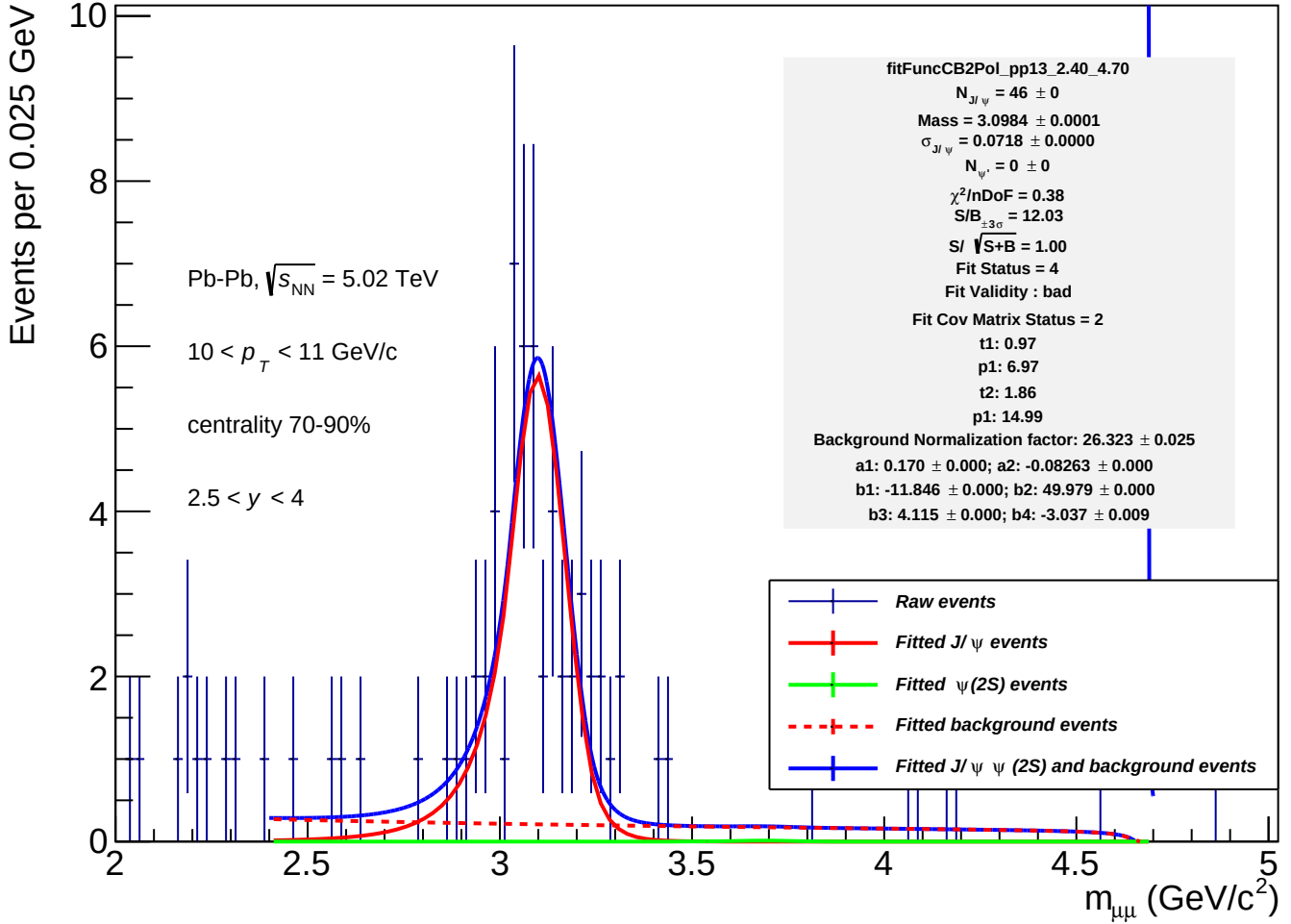
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2Pol_geant3_2.20_4.50
$N_{J/\psi}$ = 49 ± 0
Mass = 3.0951 ± 0.0013
$\sigma_{J/\psi}$ = 0.0867 ± 0.0007
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 0.36
$S/B_{\pm 3\sigma}$ = 11.16
$S/\sqrt{S+B}$ = 1.03
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 2
t1: 1.17
p1: 3.65
t2: 1.95
p1: 3.10
Background Normalization factor: 3.433 ± 0.066
a1: -4.904 ± 0.007; a2: 2.06651 ± 0.003
b1: 93.188 ± 0.000; b2: -72.607 ± 0.000
b3: -11.454 ± 0.000; b4: 11.446 ± 0.000
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
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2.5
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3.5
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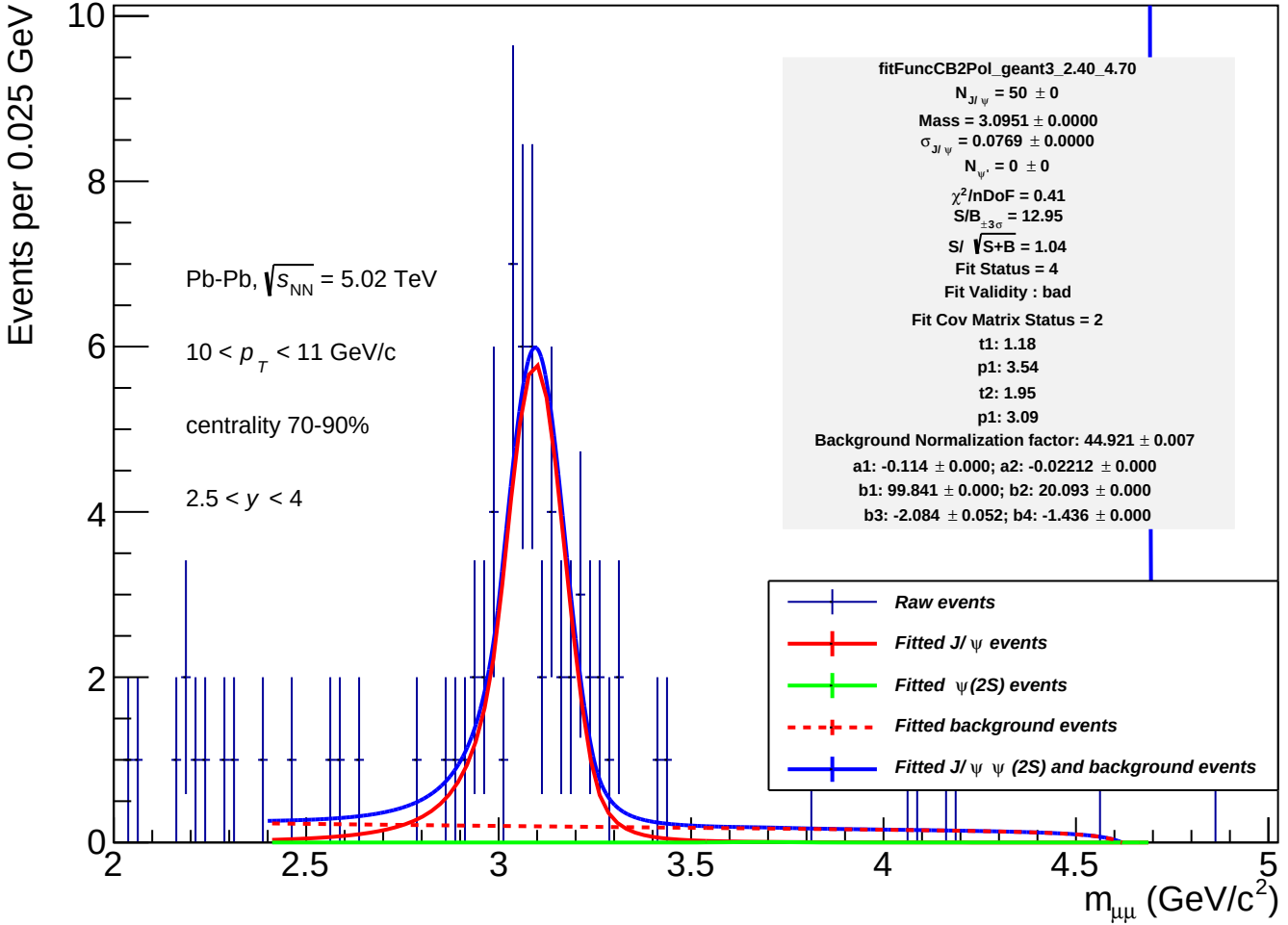
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2Pol_pp13_2.40_4.70
$N_{J/\psi}$ = 46 ± 0
Mass = 3.0984 ± 0.0001
$\sigma_{J/\psi}$ = 0.0718 ± 0.0000
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 0.38
$S/B_{\pm 3\sigma}$ = 12.03
$S/\sqrt{S+B}$ = 1.00
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 2
t1: 0.97
p1: 6.97
t2: 1.86
p1: 14.99
Background Normalization factor: 26.323 ± 0.025
a1: 0.170 ± 0.000; a2: -0.08263 ± 0.000
b1: -11.846 ± 0.000; b2: 49.979 ± 0.000
b3: 4.115 ± 0.000; b4: -3.037 ± 0.009
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
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4
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0
2
2.5
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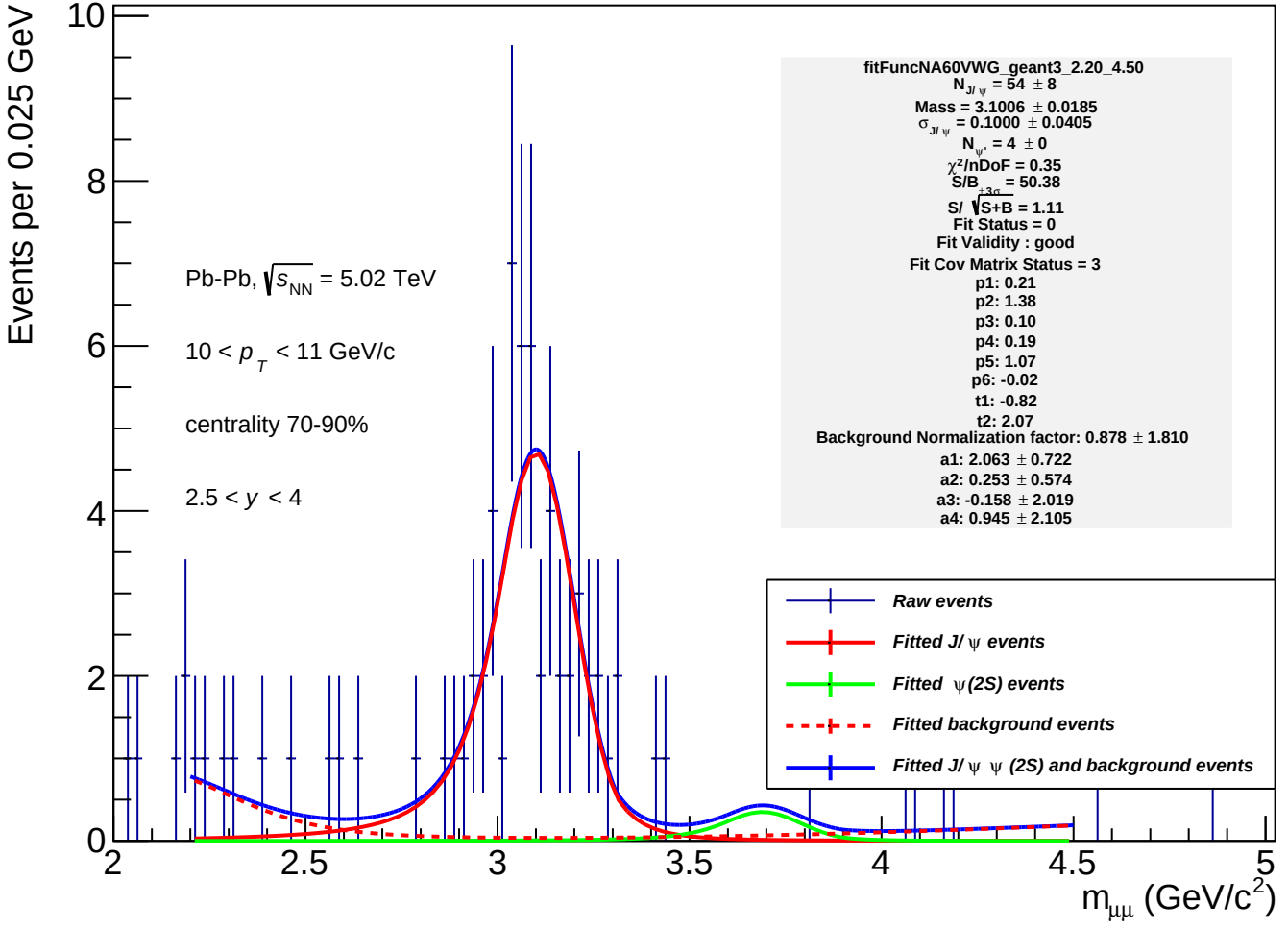
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2Pol_geant3_2.40_4.70
$N_{J/\psi}$ = 50 ± 0
Mass = 3.0951 ± 0.0000
$\sigma_{J/\psi}$ = 0.0769 ± 0.0000
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 0.41
$S/B_{\pm 3\sigma}$ = 12.95
$S/\sqrt{S+B}$ = 1.04
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 2
t1: 1.18
p1: 3.54
t2: 1.95
p1: 3.09
Background Normalization factor: 44.921 ± 0.007
a1: -0.114 ± 0.000; a2: -0.02212 ± 0.000
b1: 99.841 ± 0.000; b2: 20.093 ± 0.000
b3: -2.084 ± 0.052; b4: -1.436 ± 0.000
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
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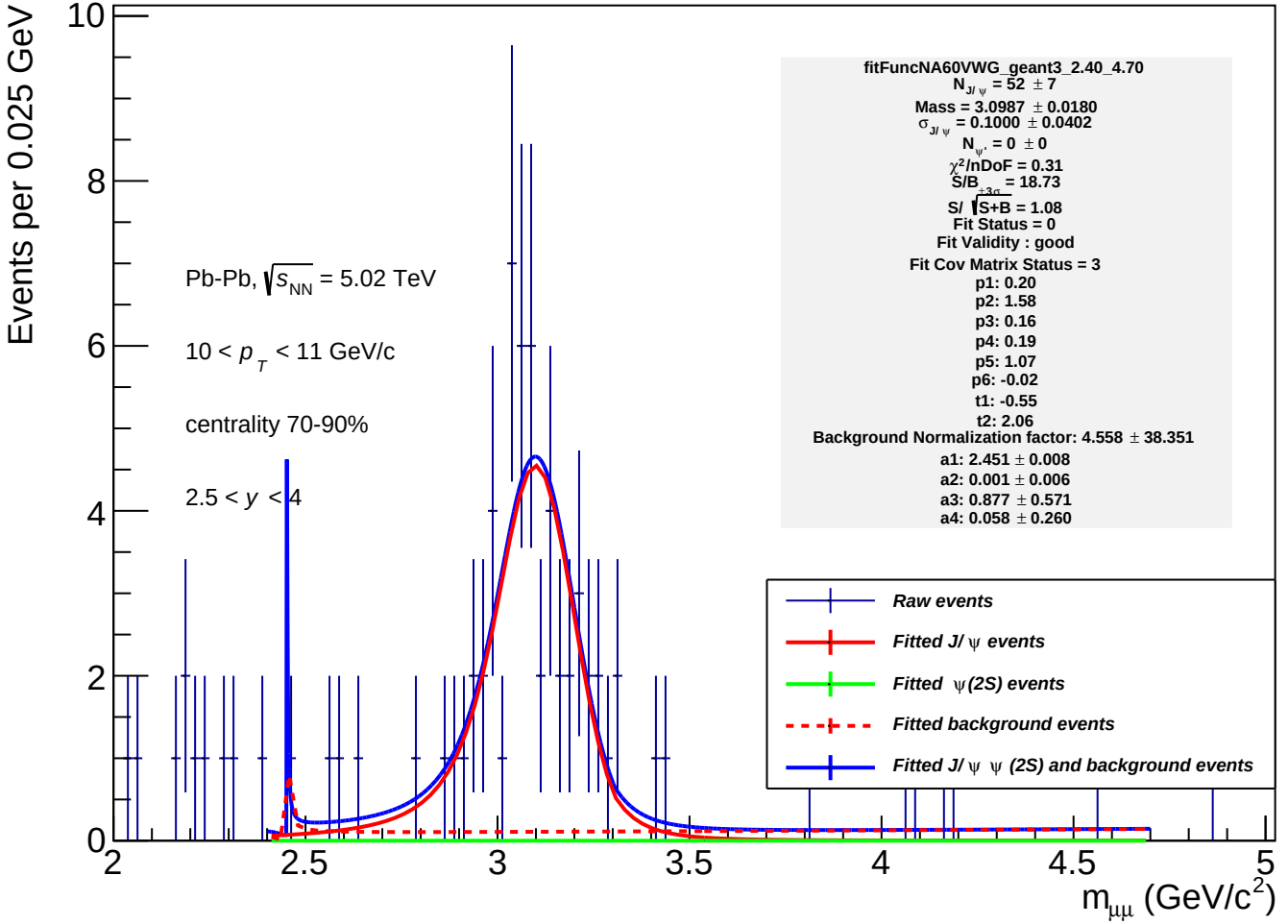
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncNA60VWG_geant3_2.20_4.50
$N_{J/\psi}$ = 54 ± 8
Mass = 3.1006 ± 0.0185
$\sigma_{J/\psi}$ = 0.1000 ± 0.0405
$N_{\psi'}$ = 4 ± 0
χ^2/nDoF = 0.35
$S/B_{\pm 3\sigma}$ = 50.38
$S/\sqrt{S+B}$ = 1.11
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
p1: 0.21
p2: 1.38
p3: 0.10
p4: 0.19
p5: 1.07
p6: -0.02
t1: -0.82
t2: 2.07
Background Normalization factor: 0.878 ± 1.810
a1: 2.063 ± 0.722
a2: 0.253 ± 0.574
a3: -0.158 ± 2.019
a4: 0.945 ± 2.105
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
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2.5
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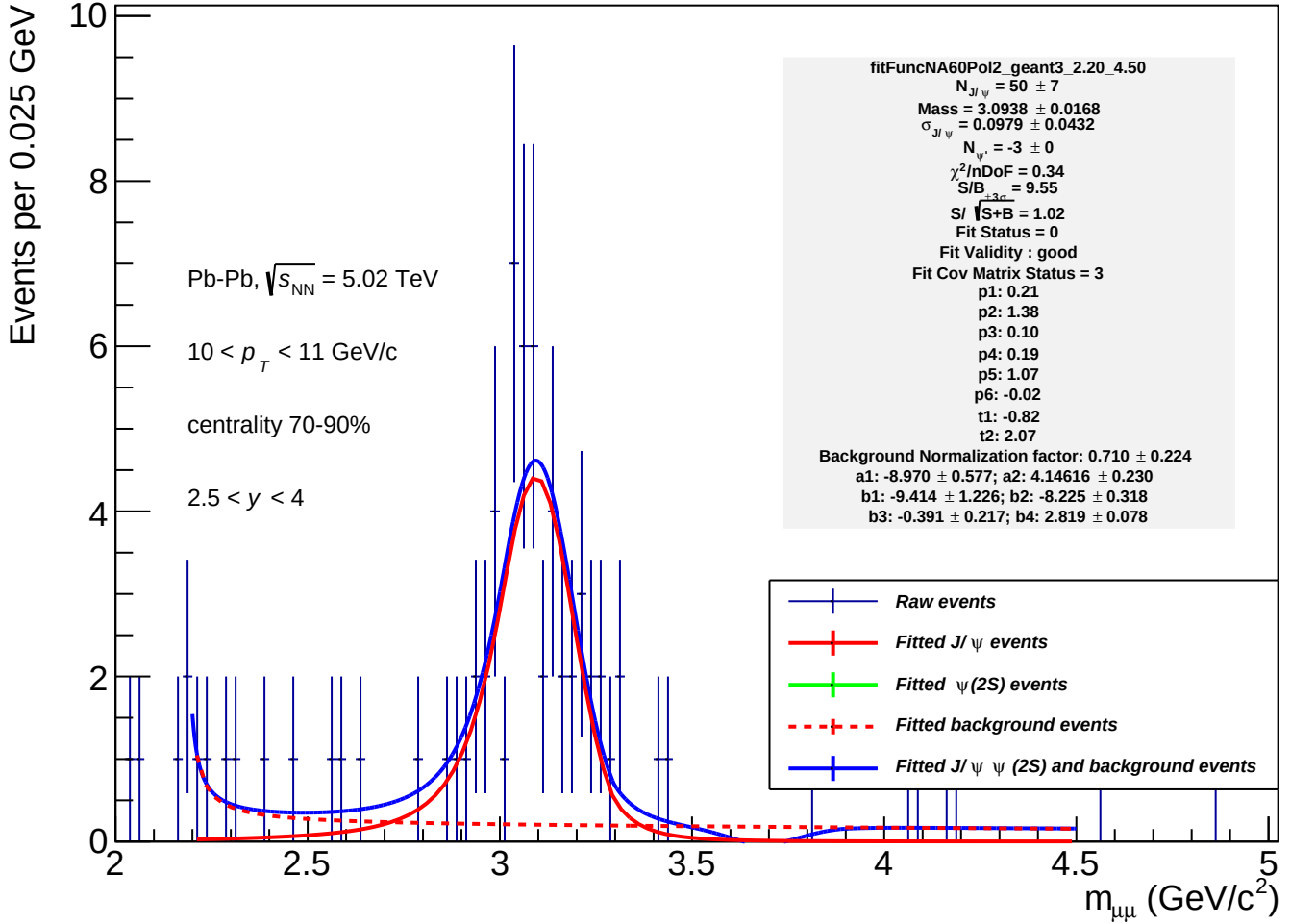
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncNA60VWG_geant3_2.40_4.70
$N_{J/\psi}$ = 52 ± 7
Mass = 3.0987 ± 0.0180
$\sigma_{J/\psi}$ = 0.1000 ± 0.0402
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 0.31
$S/B_{\pm 3\sigma}$ = 18.73
$S/\sqrt{S+B}$ = 1.08
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
p1: 0.20
p2: 1.58
p3: 0.16
p4: 0.19
p5: 1.07
p6: -0.02
t1: -0.55
t2: 2.06
Background Normalization factor: 4.558 ± 38.351
a1: 2.451 ± 0.008
a2: 0.001 ± 0.006
a3: 0.877 ± 0.571
a4: 0.058 ± 0.260
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
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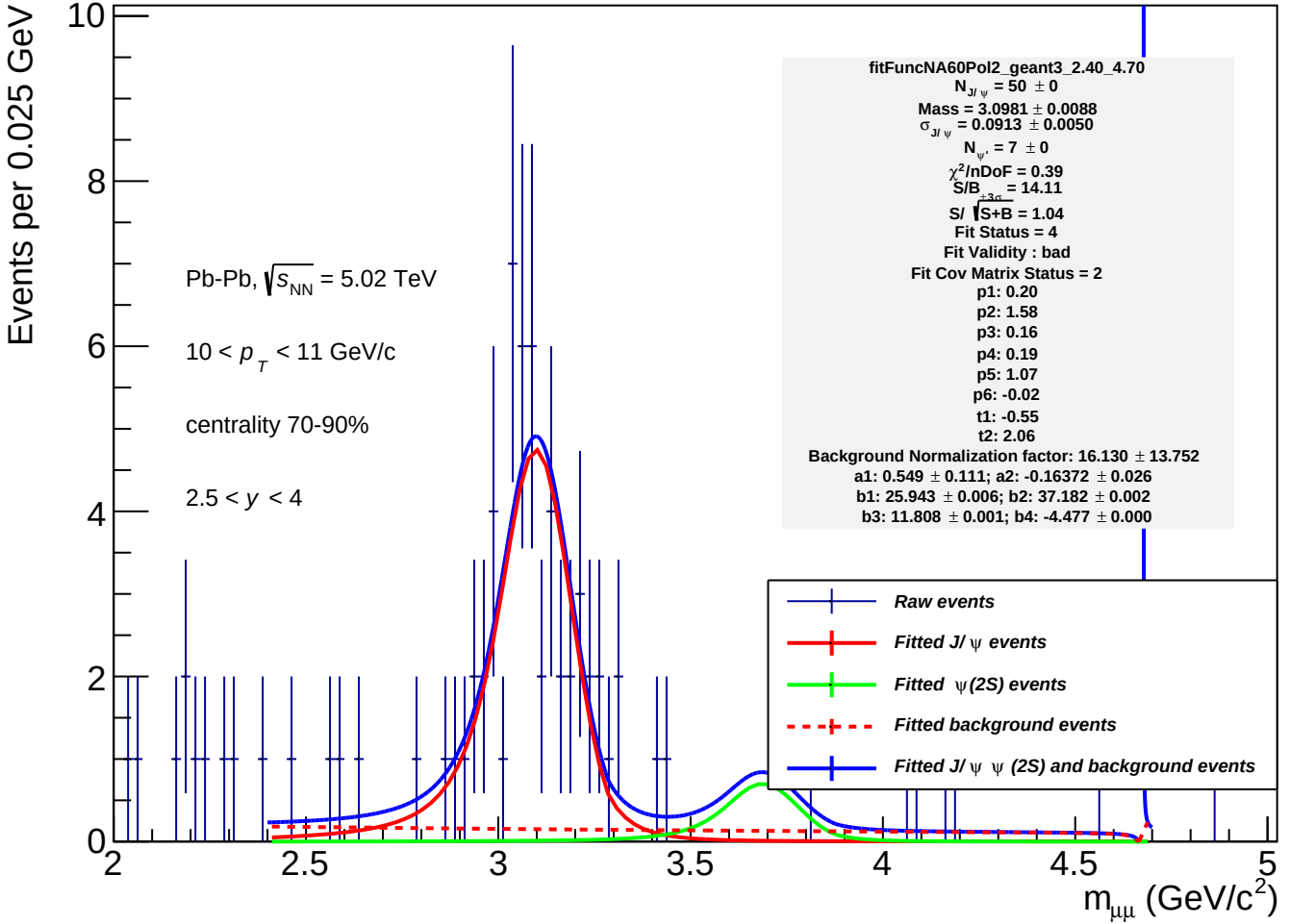
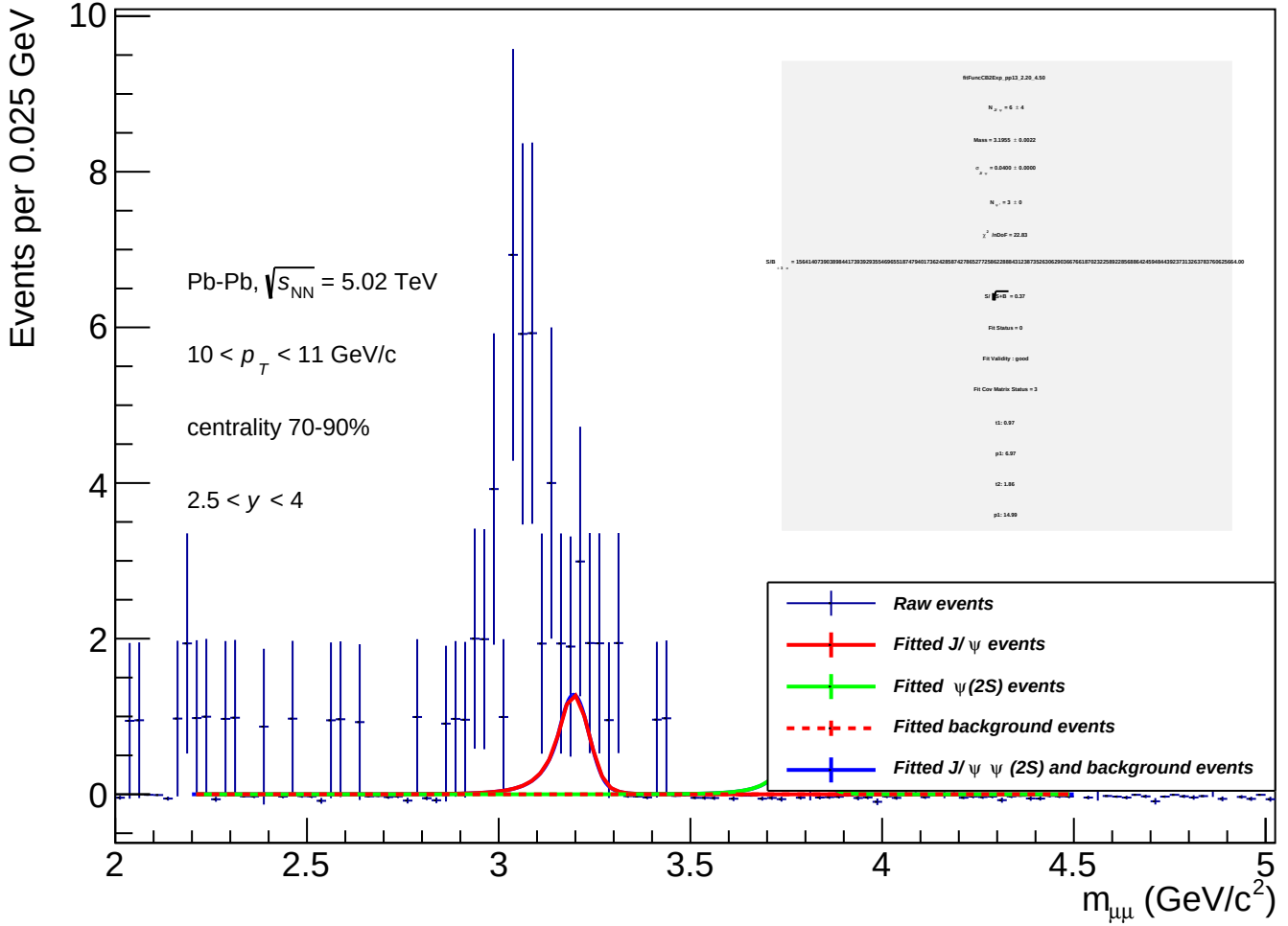
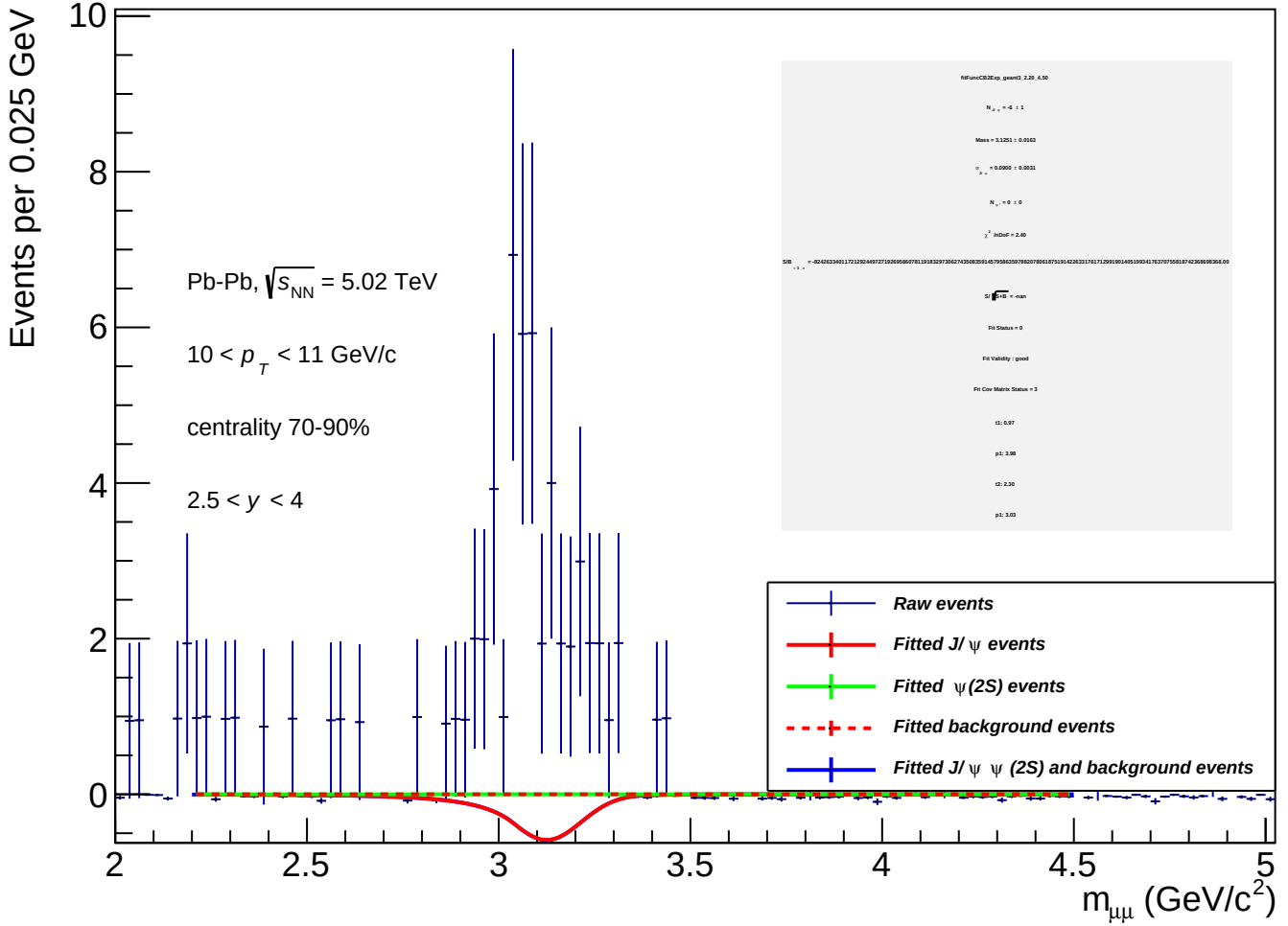
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncNA60Pol2_geant3_2.20_4.50
$N_{J/\psi}$ = 50 ± 7
Mass = 3.0938 ± 0.0168
$\sigma_{J/\psi}$ = 0.0979 ± 0.0432
$N_{\psi'}$ = -3 ± 0
χ^2/nDoF = 0.34
$S/B_{\pm 3\sigma}$ = 9.55
$S/\sqrt{S+B}$ = 1.02
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
p1: 0.21
p2: 1.38
p3: 0.10
p4: 0.19
p5: 1.07
p6: -0.02
t1: -0.82
t2: 2.07
Background Normalization factor: 0.710 ± 0.224
a1: -8.970 ± 0.577; a2: 4.14616 ± 0.230
b1: -9.414 ± 1.226; b2: -8.225 ± 0.318
b3: -0.391 ± 0.217; b4: 2.819 ± 0.078
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncNA60Pol2_geant3_2.40_4.70
$N_{J/\psi}$ = 50 ± 0
Mass = 3.0981 ± 0.0088
$\sigma_{J/\psi}$ = 0.0913 ± 0.0050
$N_{\psi'}$ = 7 ± 0
χ^2/nDoF = 0.39
$S/B_{\pm 3\sigma}$ = 14.11
$S/\sqrt{S+B}$ = 1.04
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 2
p1: 0.20
p2: 1.58
p3: 0.16
p4: 0.19
p5: 1.07
p6: -0.02
t1: -0.55
t2: 2.06
Background Normalization factor: 16.130 ± 13.752
a1: 0.549 ± 0.111; a2: -0.16372 ± 0.026
b1: 25.943 ± 0.006; b2: 37.182 ± 0.002
b3: 11.808 ± 0.001; b4: -4.477 ± 0.000
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
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0
2
2.5
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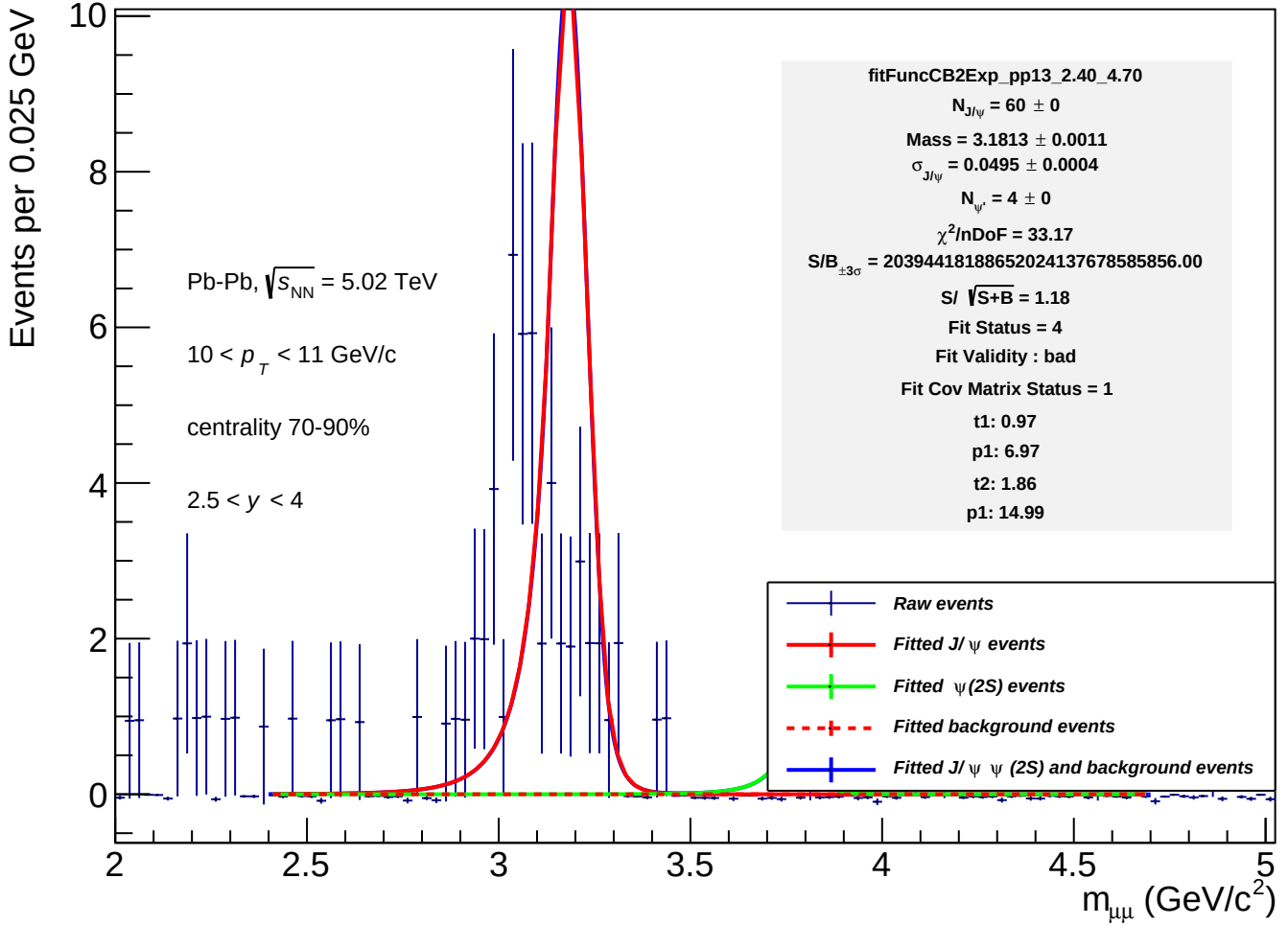
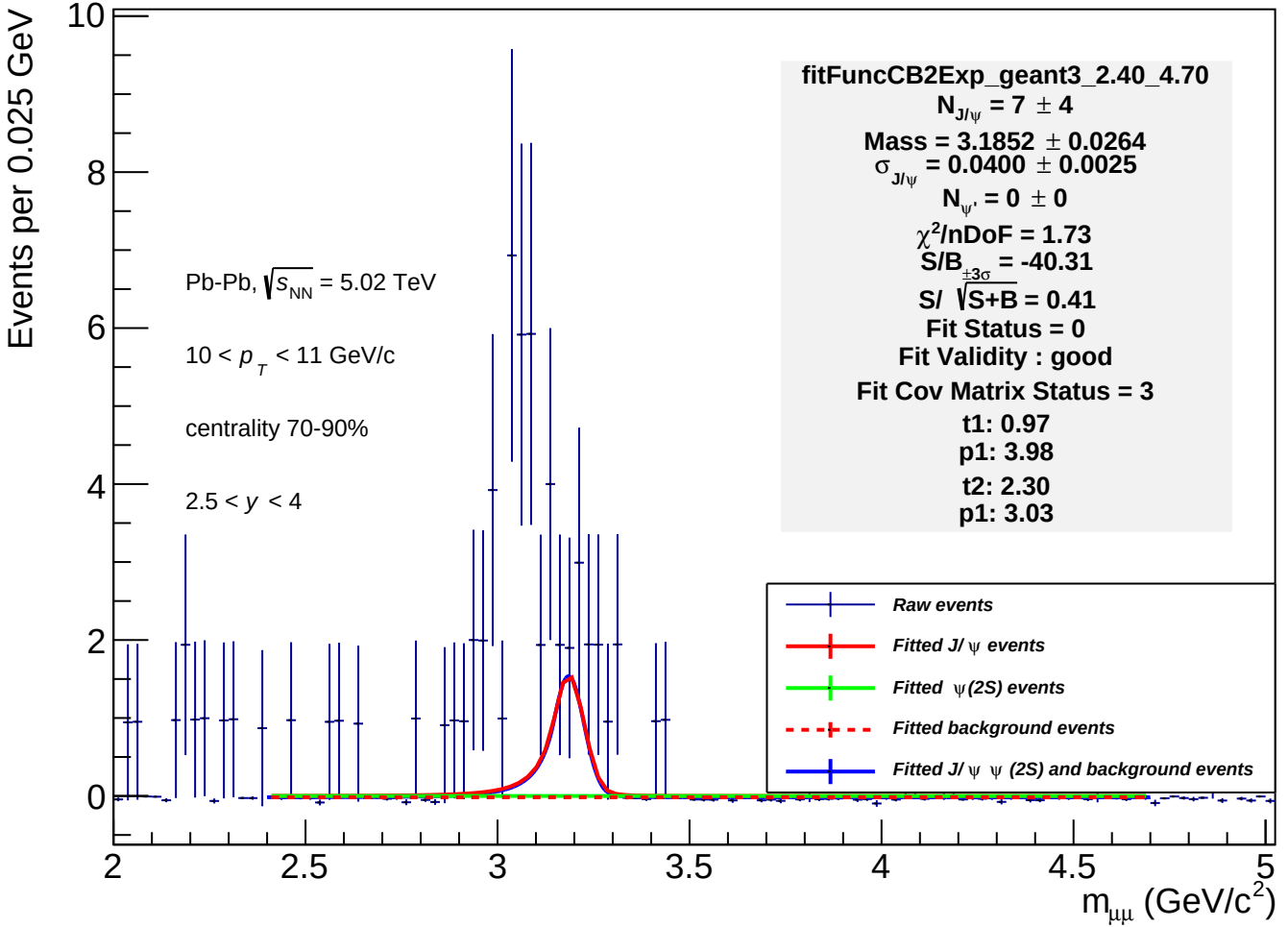
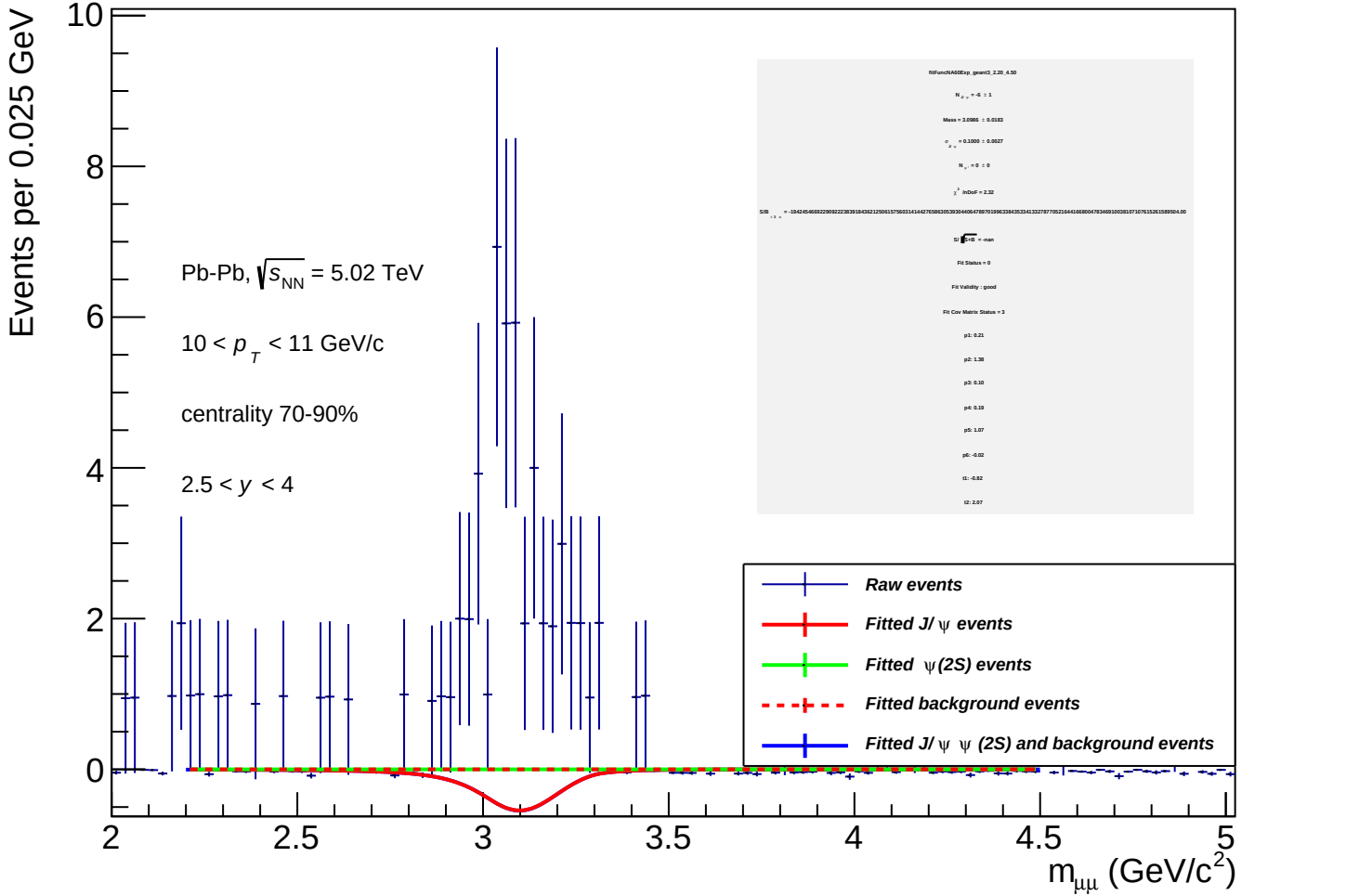
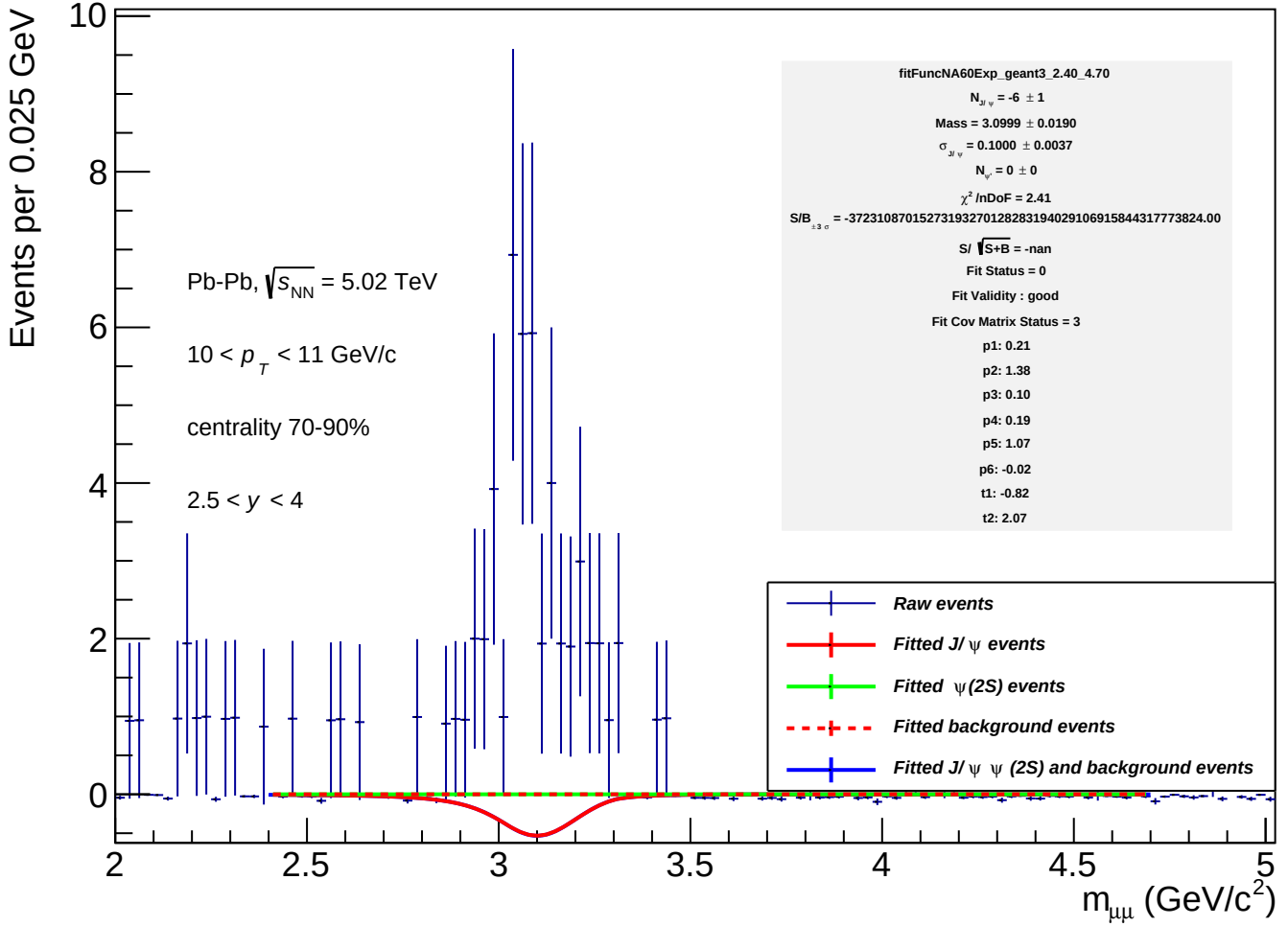
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2Exp_pp13_2.40_4.70
$N_{J/\psi}$ = 60 ± 0
Mass = 3.1813 ± 0.0011
$\sigma_{J/\psi}$ = 0.0495 ± 0.0004
$N_{\psi'}$ = 4 ± 0
χ^2/nDoF = 33.17
S/$B_{\pm 3\sigma}$ = 203944181886520241376785858 56.00
S/ $\sqrt{S+B}$ = 1.18
Fit Status = 4
Fit Validity : bad
Fit Cov Matrix Status = 1
t1: 0.97
p1: 6.97
t2: 1.86
p1: 14.99
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ (2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncCB2Exp_geant3_2.40_4.70
$N_{J/\psi}$ = 7 ± 4
Mass = 3.1852 ± 0.0264
$\sigma_{J/\psi}$ = 0.0400 ± 0.0025
$N_{\psi'}$ = 0 ± 0
χ^2/nDoF = 1.73
$S/B_{\pm 3\sigma}$ = -40.31
$S/\sqrt{S+B}$ = 0.41
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
t1: 0.97
p1: 3.98
t2: 2.30
p1: 3.03
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ (2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncNA60Exp_geant3_2.20_4.50
Mass = 3.0986 ± 0.0183
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
p1: 0.21
p2: 1.38
p3: 0.10
p4: 0.19
p5: 1.07
p6: -0.02
t1: -0.82
t2: 2.07
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events


Events per 0.025 GeV
10
8
6
4
2
0
2
2.5
3
3.5
4
4.5
5
$m_{\mu\mu}$ (GeV/c^2)
Pb-Pb, $\sqrt{s_{NN}}$ = 5.02 TeV
10 < p_T < 11 GeV/c
centrality 70-90%
2.5 < y < 4
fitFuncNA60Exp_geant3_2.40_4.70
$N_{J/\psi}$ = -6 ± 1
Mass = 3.0999 ± 0.0190
$\sigma_{J/\psi}$ = 0.1000 ± 0.0037
$N_{\psi'}$ = 0 ± 0
χ^2 /nDoF = 2.41
$S/B_{\pm 3\sigma}$ = -37231087015273193270128283194029106915844317773824.00
$S/\sqrt{S+B}$ = -nan
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
p1: 0.21
p2: 1.38
p3: 0.10
p4: 0.19
p5: 1.07
p6: -0.02
t1: -0.82
t2: 2.07
Raw events
Fitted J/ψ events
Fitted ψ(2S) events
Fitted background events
Fitted J/ψ ψ(2S) and background events