

Events per 0.025 GeV

Pb-Pb, $\sqrt{s_{NN}} = 5.02$ TeV

$10 < p_T < 11$ GeV/c

centrality 40-90%

$2.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 301 \pm 22$

Mass = 3.1018 ± 0.0051

$\sigma_{J/\psi} = 0.0560 \pm 0.0047$

$N_{\psi'} = 34 \pm 3$

$\chi^2/nDoF = 2.18$

$S/B_{\pm 3\sigma} = 3.33$

$S/\sqrt{S+B} = 2.33$

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: 6.738 ± 0.596

a1: 3.220 ± 0.068

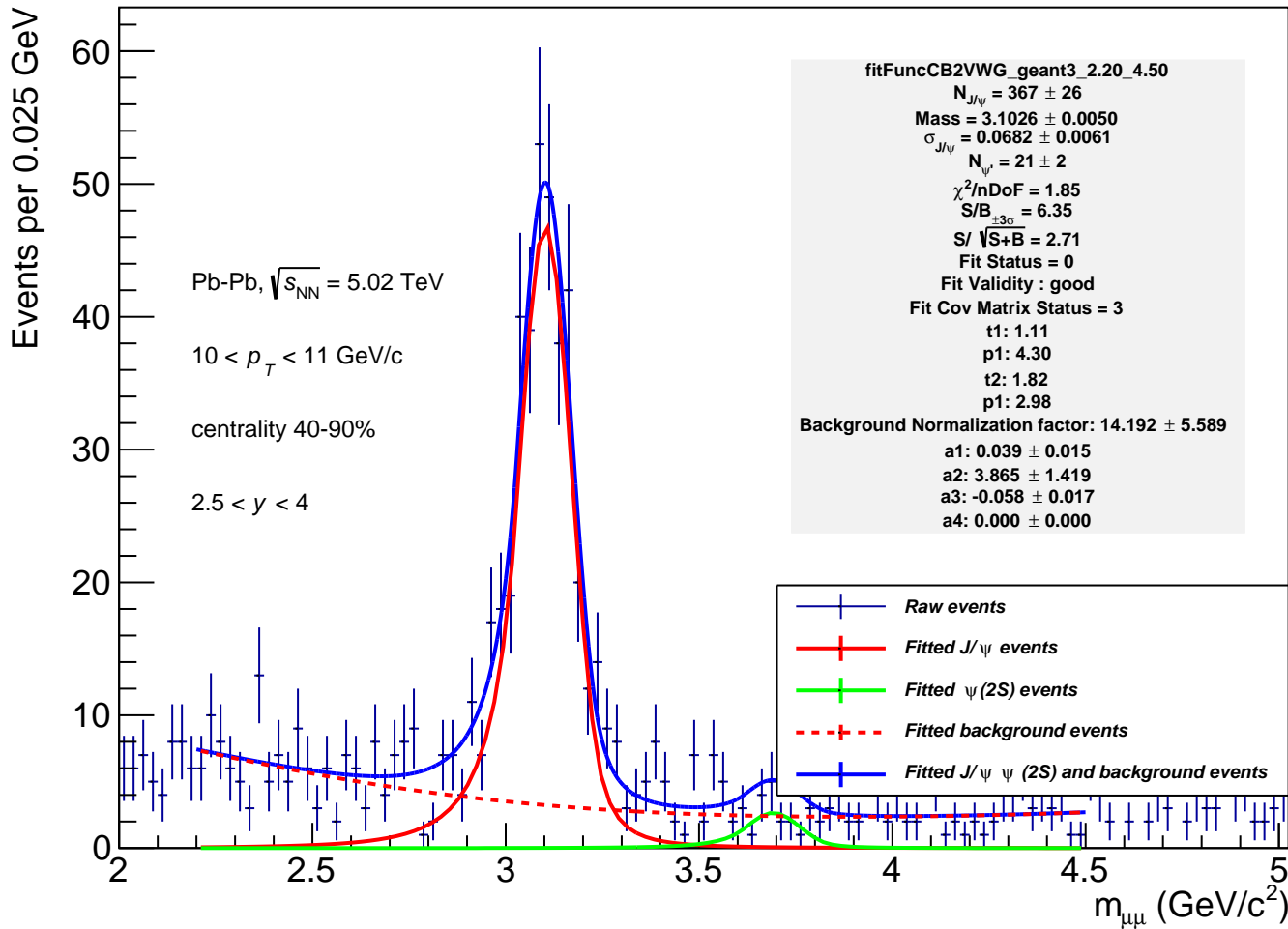
a2: 0.272 ± 0.107

a3: -1.526 ± 0.587

a4: 9.945 ± 0.026

—+— Raw events
—+— Fitted J/ψ events
—+— Fitted $\psi(2S)$ events
- - + - Fitted background events
—+— Fitted J/ψ $\psi(2S)$ and background events

$m_{\mu\mu}$ (GeV/c²)



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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 319 \pm 24$

Mass = 3.1036 ± 0.0051

$\sigma_{J/\psi} = 0.0603 \pm 0.0052$

$N_{\psi'} = 0 \pm 0$

$\chi^2/nDoF = 1.86$

$S/B_{\pm 3\sigma} = 3.86$

$S/\sqrt{S+B} = 2.43$

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: 5.415 ± 0.761

a1: 3.073 ± 0.243

a2: 0.690 ± 0.563

a3: -1.996 ± 1.622

a4: 6.761 ± 0.319

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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 358 \pm 25$

Mass = 3.1024 ± 0.0051

$\sigma_{J/\psi} = 0.0668 \pm 0.0057$

$N_{\psi'} = 0 \pm 0$

$\chi^2/nDoF = 1.71$

$S/B = 5.64$

$S/\sqrt{S+B} = 2.65$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.08

p1: 4.75

t2: 1.81

p1: 3.00

Background Normalization factor: 263.698 ± 211.462

a1: 2.276 ± 0.433

a2: 0.003 ± 0.013

a3: 0.786 ± 0.197

a4: -0.048 ± 0.072

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fitFuncCB2Pol_pp13_2.20_4.50

$N_{J/\psi} = 331 \pm 24$

Mass = 3.1034 ± 0.0049

$\sigma_{J/\psi} = 0.0617 \pm 0.0050$

$N_{\psi'} = 19 \pm 2$

$\chi^2/\text{nDoF} = 1.83$

$S/B_{\pm 3\sigma} = 4.53$

$S/\sqrt{S+B} = 2.52$

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: 94.897 ± 45.627

a1: -0.548 ± 0.007 ; a2: 0.07503 ± 0.002

b1: -5.766 ± 7.053 ; b2: 12.355 ± 3.234

b3: -5.510 ± 0.202 ; b4: 0.701 ± 0.046

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fitFuncCB2Pol_geant3_2.20_4.50

$N_{J/\psi} = 353 \pm 23$

Mass = 3.1027 ± 0.0050

$\sigma_{J/\psi} = 0.0659 \pm 0.0051$

$N_{\psi'} = 0 \pm 0$

$\chi^2/\text{nDoF} = 1.61$

$S/B_{\pm 3\sigma} = 5.31$

$S/\sqrt{S+B} = 2.62$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.11

p1: 4.30

t2: 1.82

p1: 2.98

Background Normalization factor: 116.055 ± 7.715

a1: -0.469 ± 0.000 ; a2: 0.05509 ± 0.000

b1: -16.591 ± 0.005 ; b2: 22.521 ± 0.001

b3: -7.806 ± 0.000 ; b4: 0.806 ± 0.000

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fitFuncCB2Pol_pp13_2.40_4.70

$N_{J/\psi} = 348 \pm 22$

Mass = 3.1051 ± 0.0051

$\sigma_{J/\psi} = 0.0659 \pm 0.0051$

$N_{\psi'} = 3 \pm 7$

$\chi^2/\text{nDoF} = 1.70$

$S/B_{\pm 3\sigma} = 5.42$

$S/\sqrt{S+B} = 2.62$

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: 52.354 ± 4.175

a1: -0.467 ± 0.000 ; a2: 0.05456 ± 0.000

b1: -12.703 ± 0.000 ; b2: 14.328 ± 0.000

b3: -4.600 ± 0.000 ; b4: 0.455 ± 0.000

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fitFuncCB2Pol_geant3_2.40_4.70

$N_{J/\psi} = 354 \pm 23$

Mass = 3.1031 ± 0.0050

$\sigma_{J/\psi} = 0.0659 \pm 0.0052$

$N_{\psi'} = 1 \pm 6$

$\chi^2/\text{nDoF} = 1.65$

$S/B_{\pm 3\sigma} = 5.45$

$S/\sqrt{S+B} = 2.63$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.08

p1: 4.75

t2: 1.81

p1: 3.00

Background Normalization factor: 40.576 ± 3.219

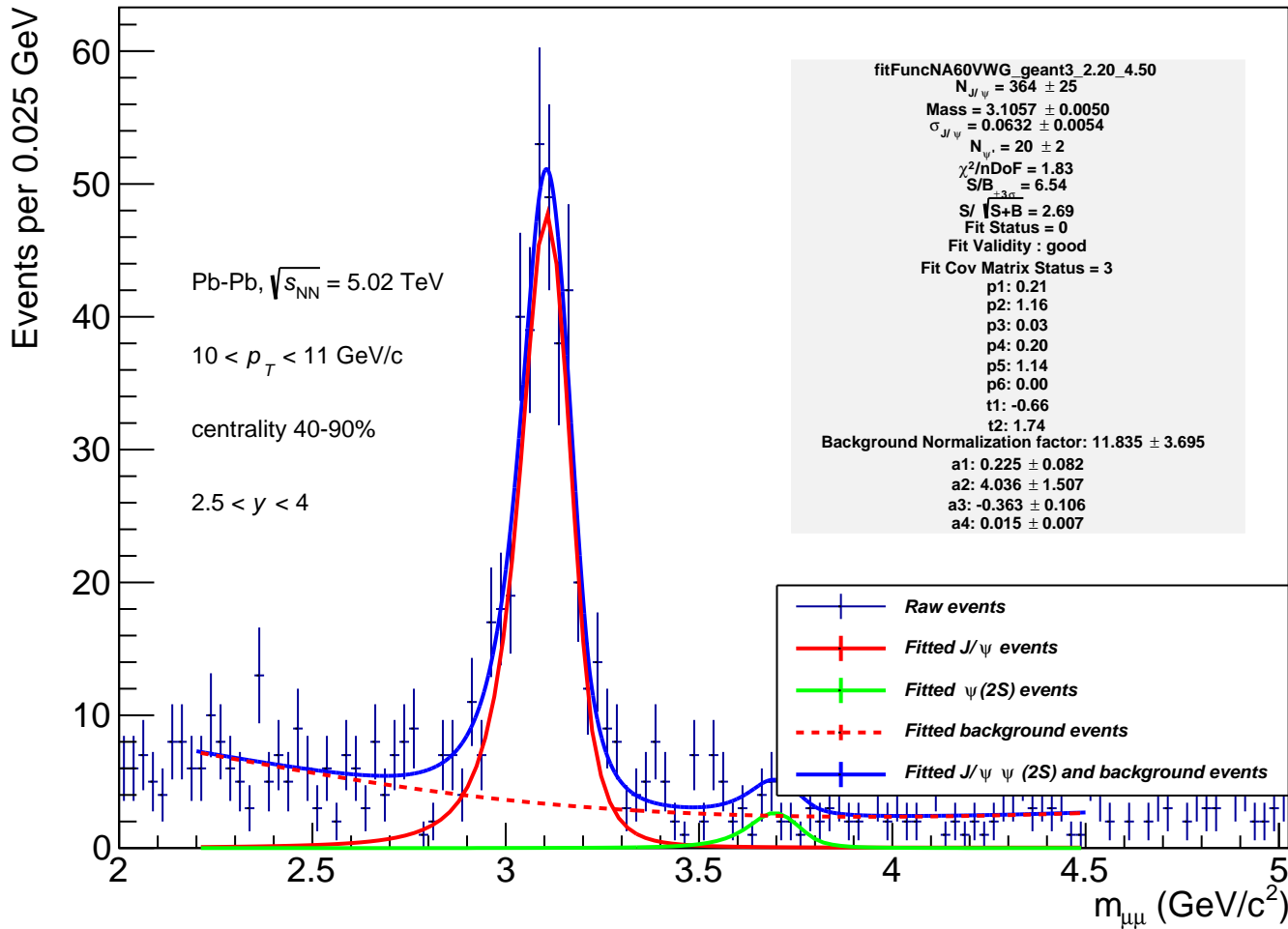
a1: -0.469 ± 0.000 ; a2: 0.05491 ± 0.000

b1: -7.636 ± 0.002 ; b2: 9.389 ± 0.000

b3: -3.133 ± 0.000 ; b4: 0.317 ± 0.000

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fitFuncNA60VWG_geant3_2.40_4.70

$N_{J/\psi} = 358 \pm 25$

Mass = 3.1064 ± 0.0050

$\sigma_{J/\psi} = 0.0621 \pm 0.0050$

$N_{\psi'} = 0 \pm 0$

$\chi^2/\text{ndof} = 1.70$

S/B = 5.93

$S/\sqrt{S+B} = 2.64$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

p1: 0.18

p2: 1.78

p3: 0.20

p4: 0.20

p5: 1.13

p6: 0.00

t1: 0.20

t2: 1.73

Background Normalization factor: 528.206 ± 395.747

a1: 2.300 ± 0.365

a2: 0.002 ± 0.008

a3: 0.740 ± 0.149

a4: -0.044 ± 0.054

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Pb-Pb, $\sqrt{s_{NN}} = 5.02$ TeV

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fitFuncNA60Pol2_geant3_2.20_4.50

$N_{J/\psi} = 354 \pm 23$

Mass = 3.1058 ± 0.0050

$\sigma_{J/\psi} = 0.0619 \pm 0.0048$

$N_{\psi'} = -3 \pm 7$

$\chi^2/nDoF = 1.70$

$S/B = 5.67$

$S/\sqrt{S+B} = 2.62$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

p1: 0.21

p2: 1.16

p3: 0.03

p4: 0.20

p5: 1.14

p6: 0.00

t1: -0.66

t2: 1.74

Background Normalization factor: 20.026 ± 18.971

a1: -3.197 ± 2.183 ; a2: 1.60812 ± 1.268

b1: -6.912 ± 11.122 ; b2: 9.857 ± 17.786

b3: -10.000 ± 19.400 ; b4: 3.577 ± 1.364

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fitFuncNA60Pol2_geant3_2.40_4.70

$N_{J/\psi} = 341 \pm 23$

Mass = 3.1052 ± 0.0047

$\sigma_{J/\psi} = 0.0589 \pm 0.0046$

$N_{\psi'} = 38 \pm 3$

$\chi^2/nDoF = 1.84$

S/B = 5.02

S/ $\sqrt{S+B}$ = 2.55

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

p1: 0.18

p2: 1.78

p3: 0.20

p4: 0.20

p5: 1.13

p6: 0.00

t1: 0.20

t2: 1.73

Background Normalization factor: 368.522 ± 29.193

a1: -0.542 ± 0.000 ; a2: 0.07348 ± 0.000

b1: 2.549 ± 0.184 ; b2: 26.381 ± 0.053

b3: -14.987 ± 0.014 ; b4: 2.075 ± 0.004

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