

Events per 0.025 GeV

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

$15 < p_T < 20$  GeV/c

centrality 20-40%

$2.5 < y < 4$

fitFuncCB2Pol\_pp13\_2.40\_4.70

$N_{J/\psi} = 262 \pm 21$

Mass =  $3.0932 \pm 0.0079$

$\sigma_{J/\psi} = 0.0824 \pm 0.0078$

$N_{\psi'} = 33 \pm 3$

$\chi^2/\text{nDoF} = 1.77$

$S/B_{\pm 3\sigma} = 3.22$

$S/\sqrt{S+B} = 2.16$

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:  $27.901 \pm 2.094$

a1:  $-0.822 \pm 0.000$ ; a2:  $0.16903 \pm 0.000$

b1:  $9.072 \pm 0.005$ ; b2:  $-7.774 \pm 0.000$

b3:  $1.816 \pm 0.000$ ; b4:  $-0.063 \pm 0.000$

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

$m_{\mu\mu}$  (GeV/c<sup>2</sup>)

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fitFuncCB2Pol\_geant3\_2.40\_4.70

$N_{J/\psi} = 250 \pm 23$

Mass =  $3.0909 \pm 0.0076$

$\sigma_{J/\psi} = 0.0826 \pm 0.0079$

$N_{\psi} = 12 \pm 10$

$\chi^2/nDoF = 1.56$

$S/B_{1.3\sigma} = 2.62$

$S/\sqrt{S+B} = 2.05$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.39

p1: 3.13

t2: 2.10

p1: 1.47

Background Normalization factor:  $46.695 \pm 81.655$

a1:  $-6.300 \pm 8.069$ ; a2:  $2.95468 \pm 4.069$

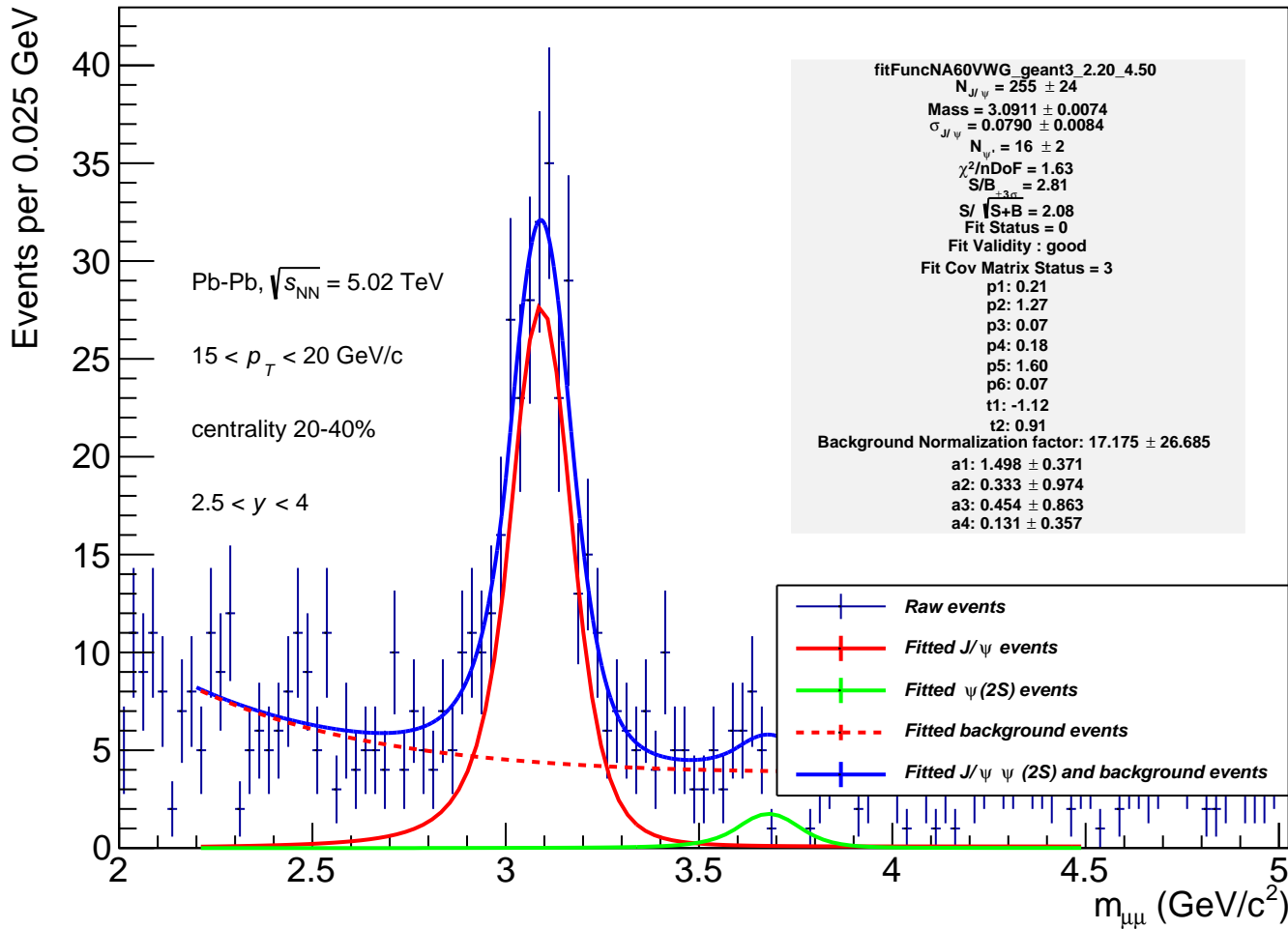
b1:  $-99.876 \pm 104.169$ ; b2:  $8.513 \pm 42.001$

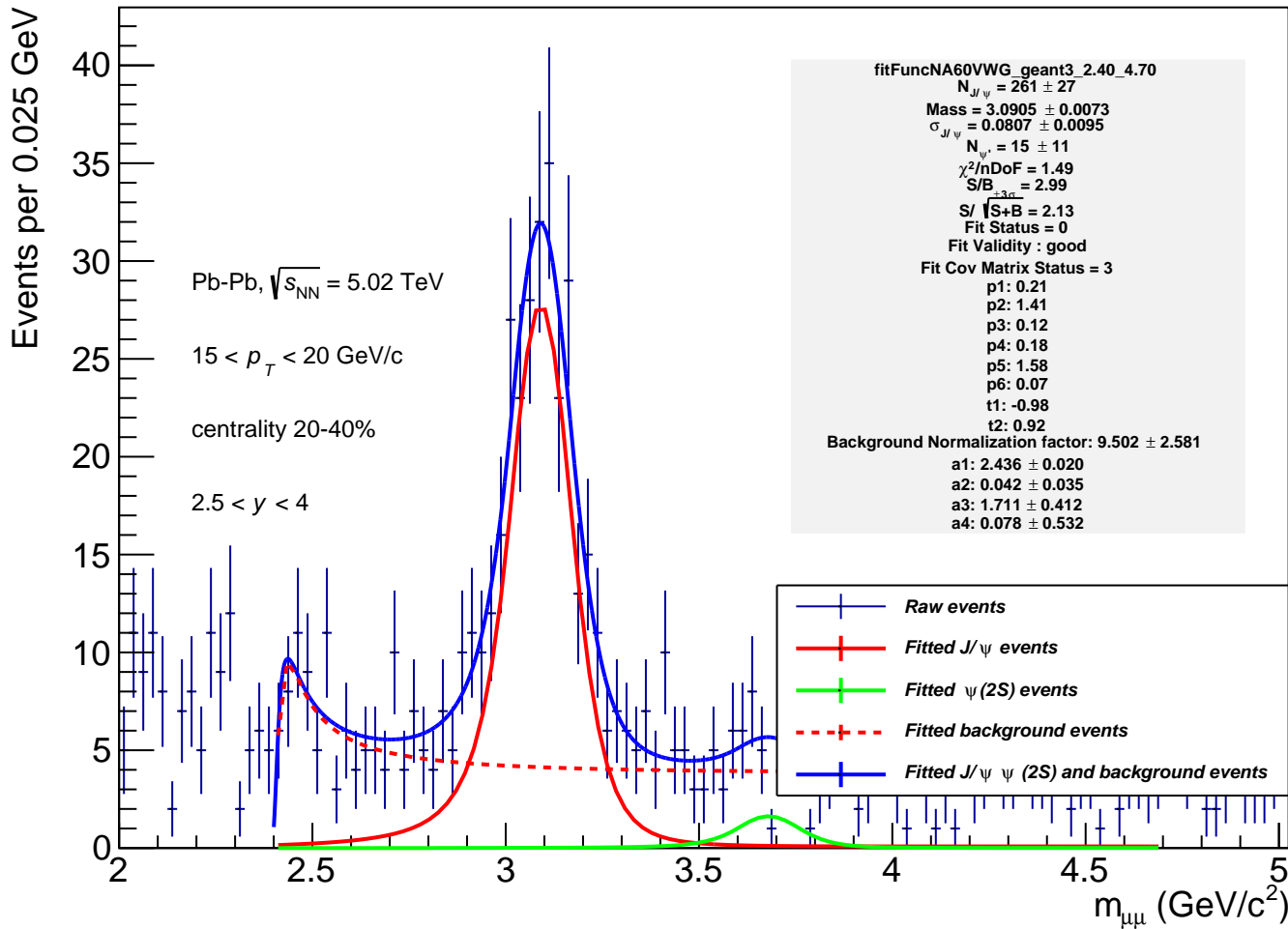
b3:  $9.891 \pm 18.358$ ; b4:  $2.743 \pm 6.353$

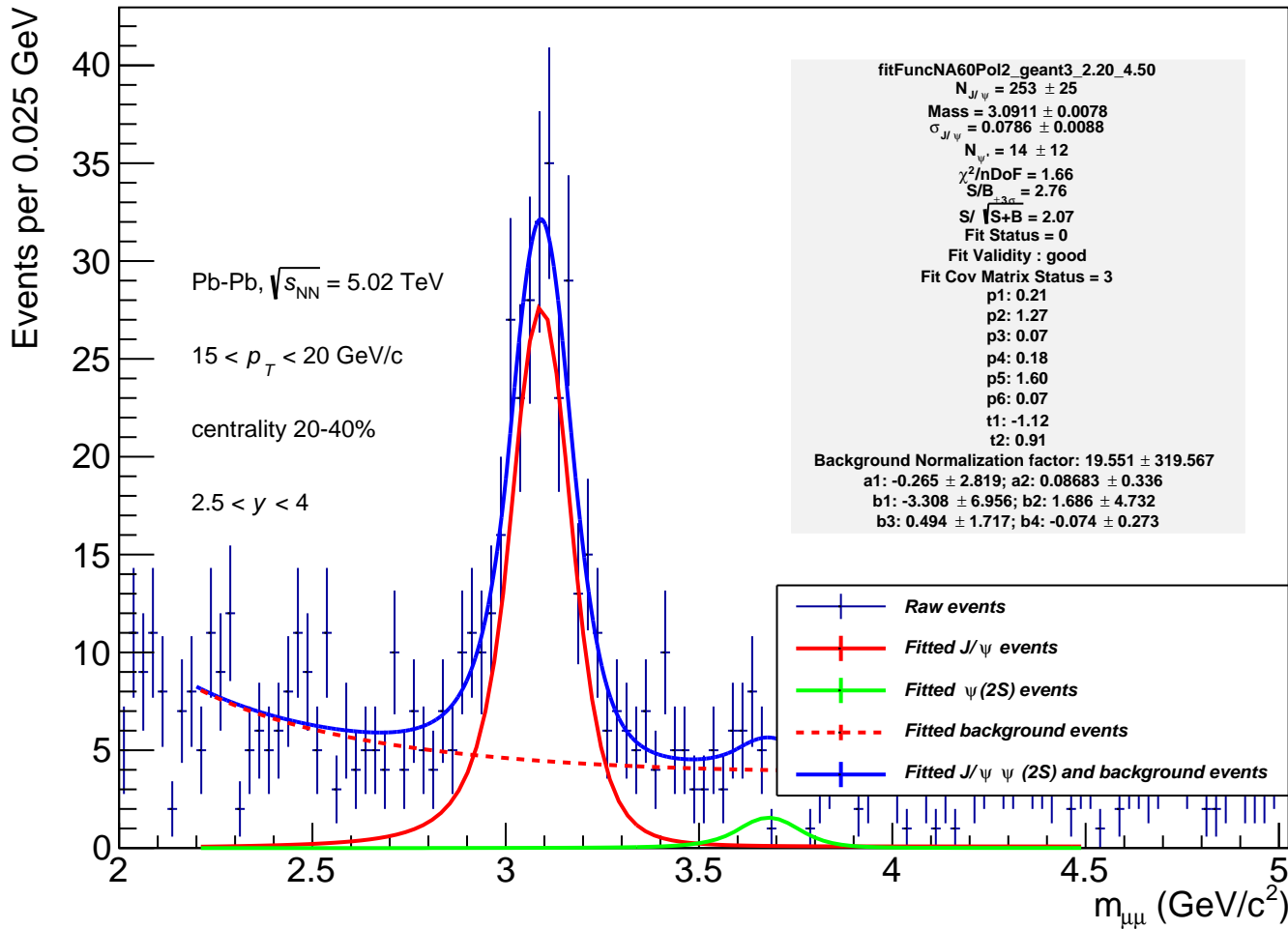
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$m_{\mu\mu}$  (GeV/c<sup>2</sup>)









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fitFuncNA60Pol2\_geant3\_2.40\_4.70

$N_{J/\psi} = 249 \pm 21$

Mass =  $3.0908 \pm 0.0080$

$\sigma_{J/\psi} = 0.0771 \pm 0.0080$

$N_{\psi'} = 11 \pm 10$

$\chi^2/nDoF = 1.48$

$S/B = 2.67$

$S/\sqrt{S+B} = 2.04$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

p1: 0.21

p2: 1.41

p3: 0.12

p4: 0.18

p5: 1.58

p6: 0.07

t1: -0.98

t2: 0.92

Background Normalization factor:  $160.167 \pm 13.913$

a1:  $-0.811 \pm 0.011$ ; a2:  $0.16443 \pm 0.005$

b1:  $15.440 \pm 0.177$ ; b2:  $-6.344 \pm 0.038$

b3:  $-2.470 \pm 0.011$ ; b4:  $1.016 \pm 0.014$

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

$m_{\mu\mu}$  (GeV/c<sup>2</sup>)

