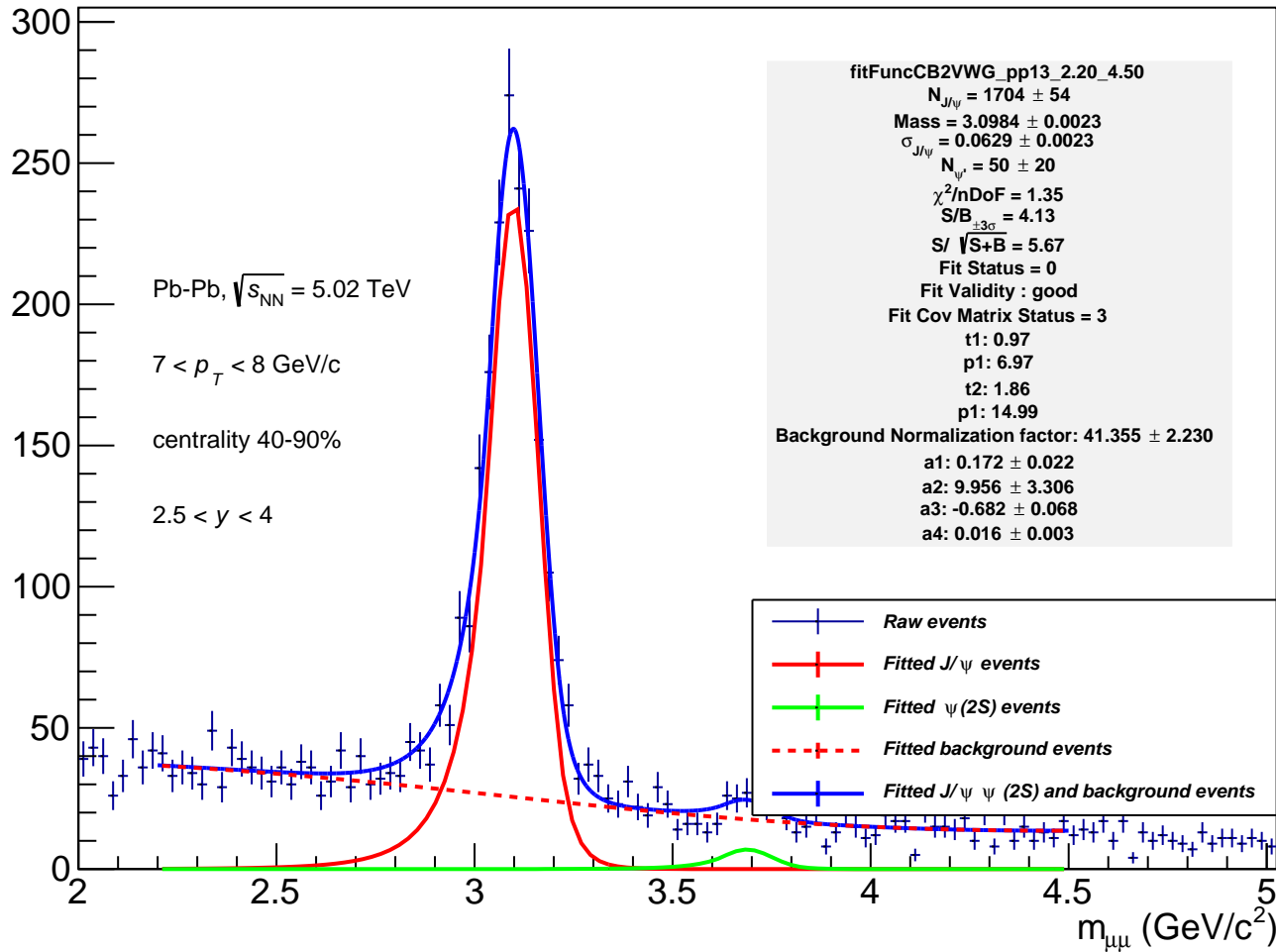
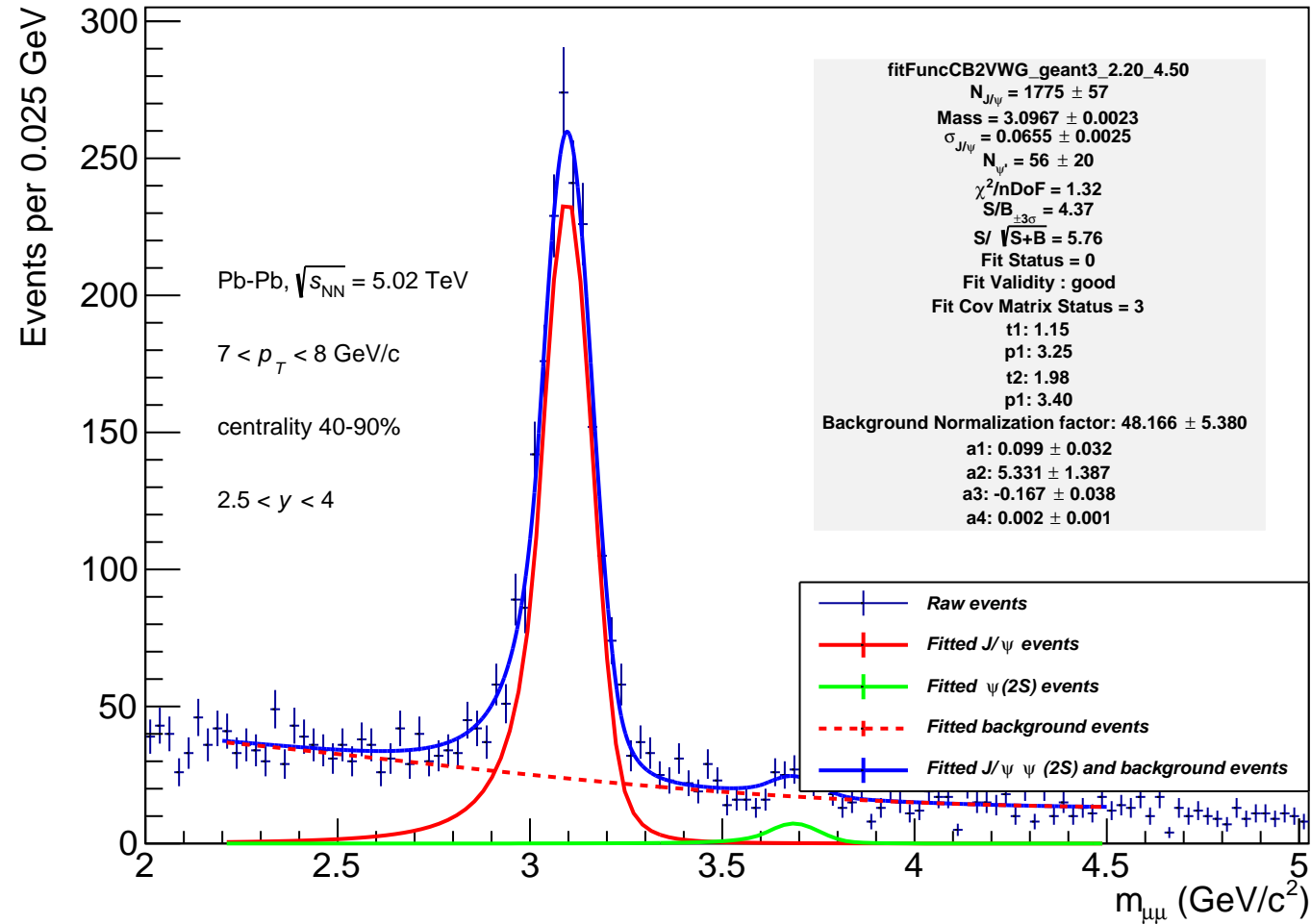
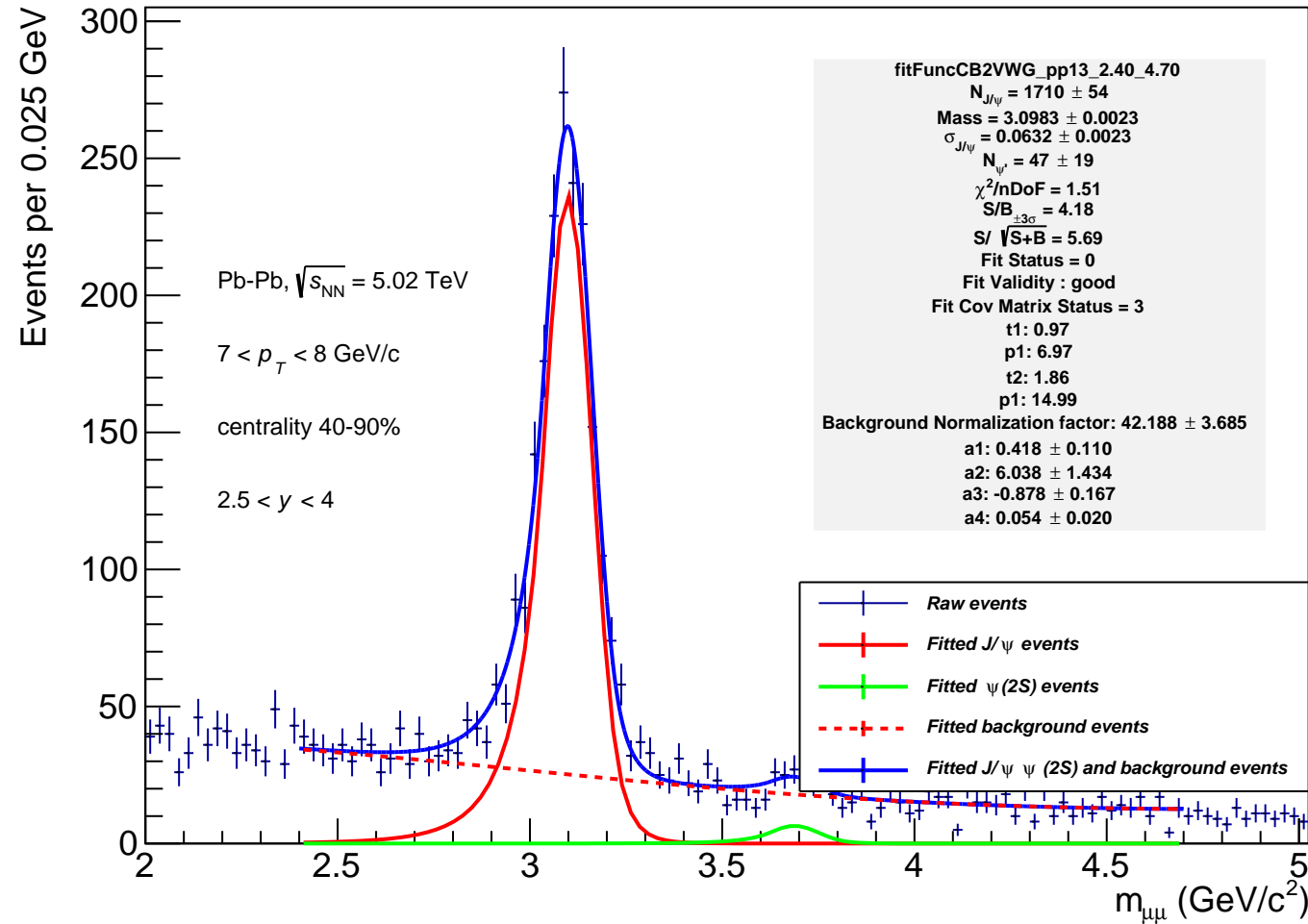


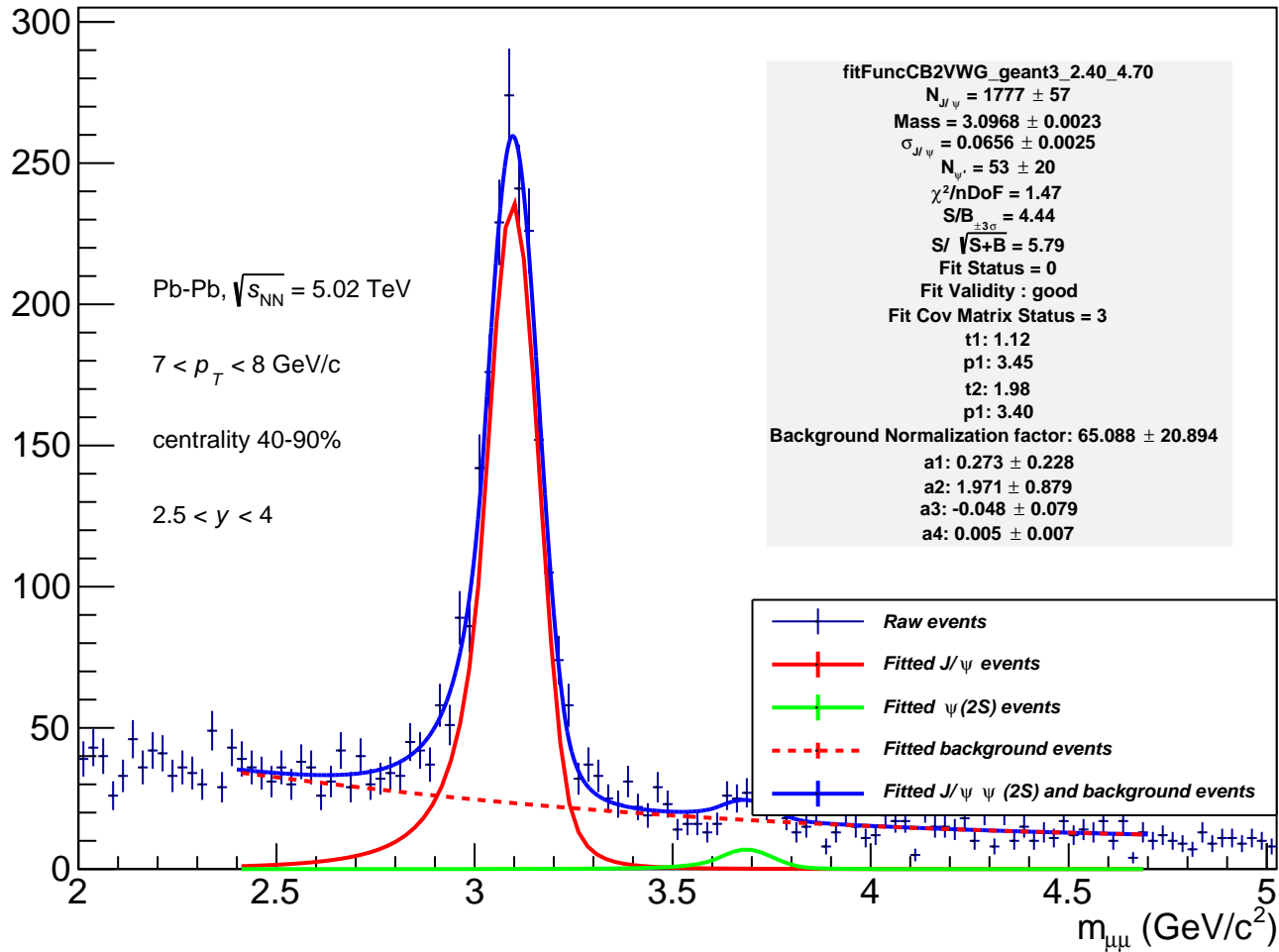
Events per 0.025 GeV



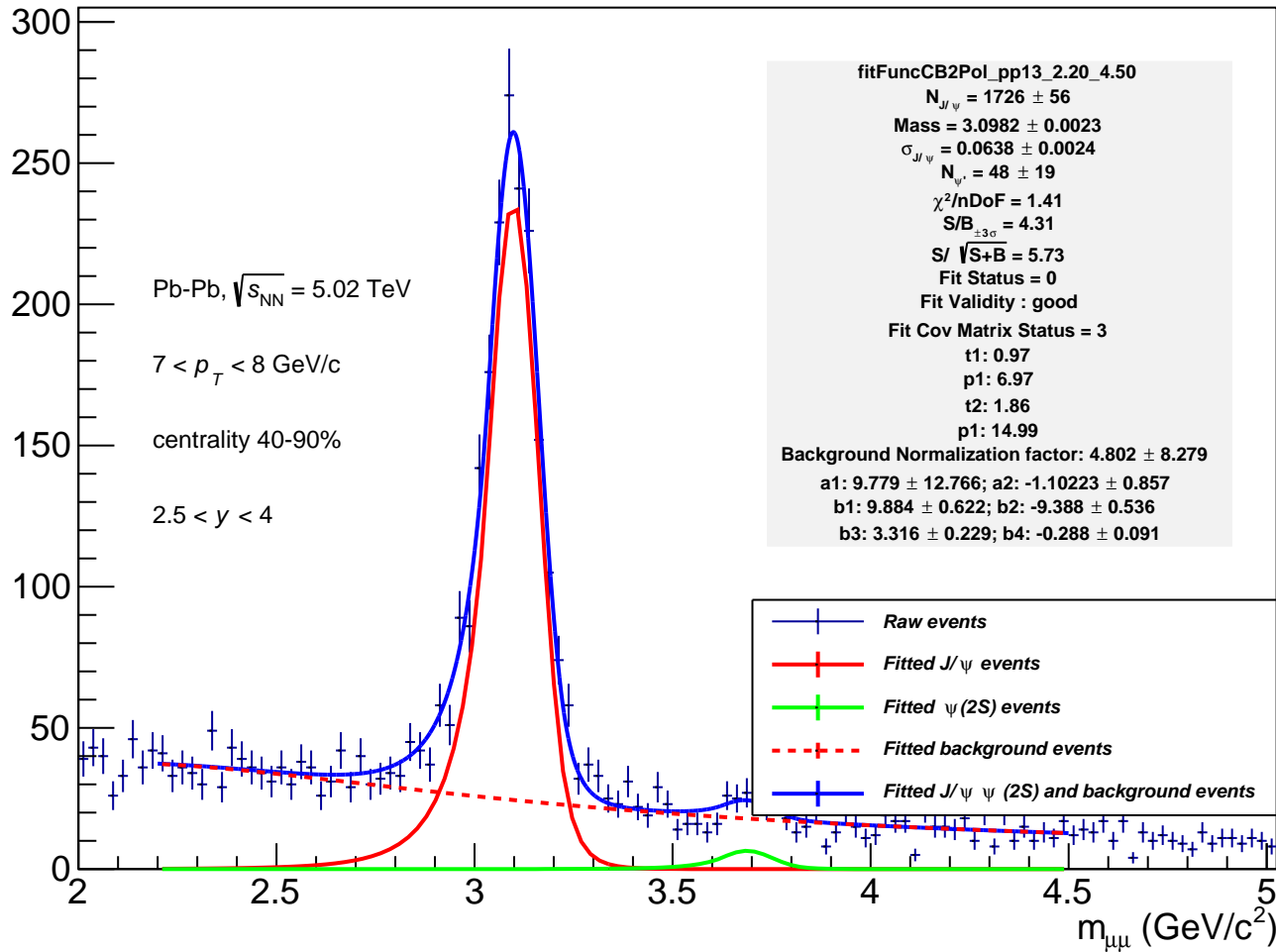


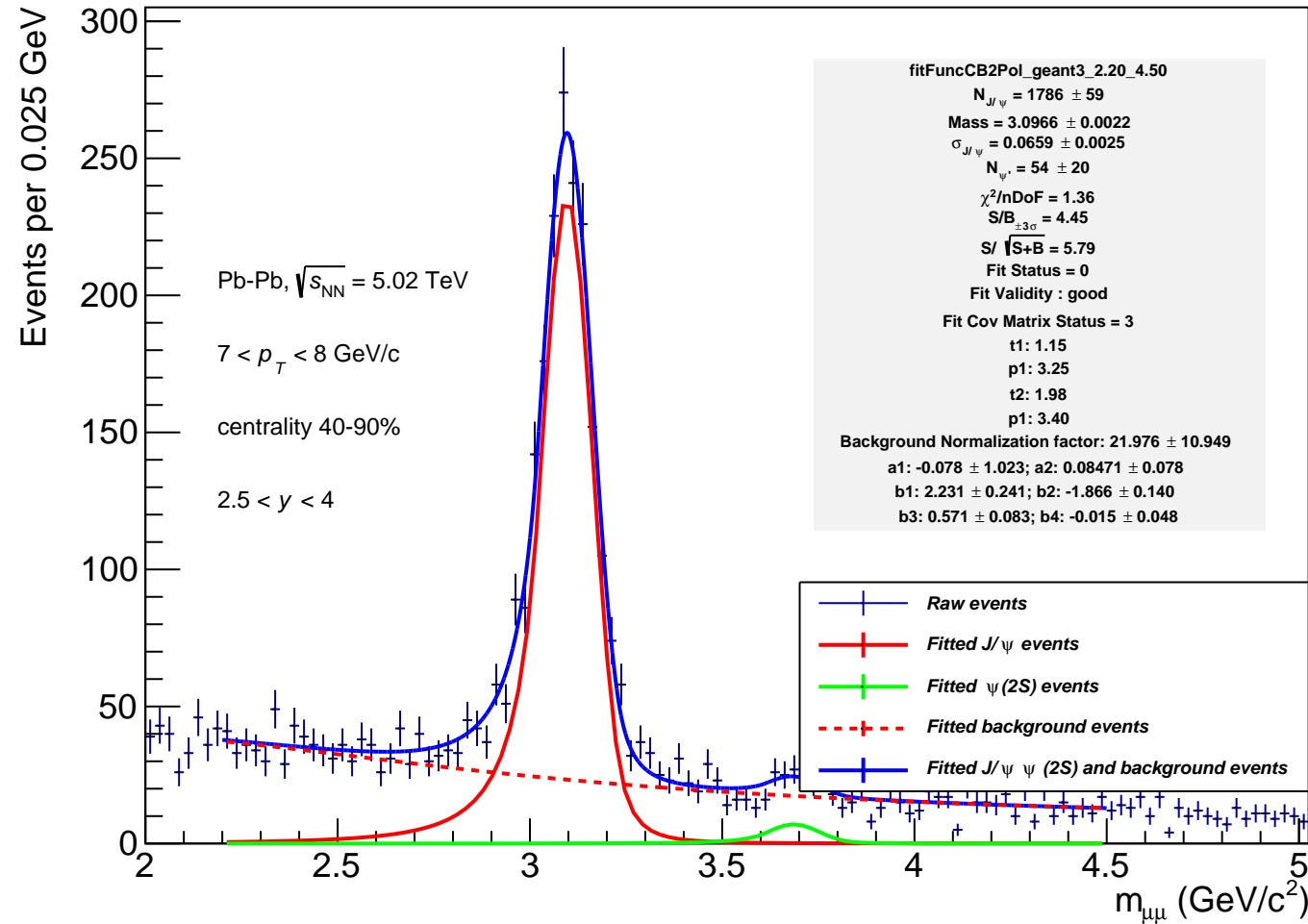


Events per 0.025 GeV

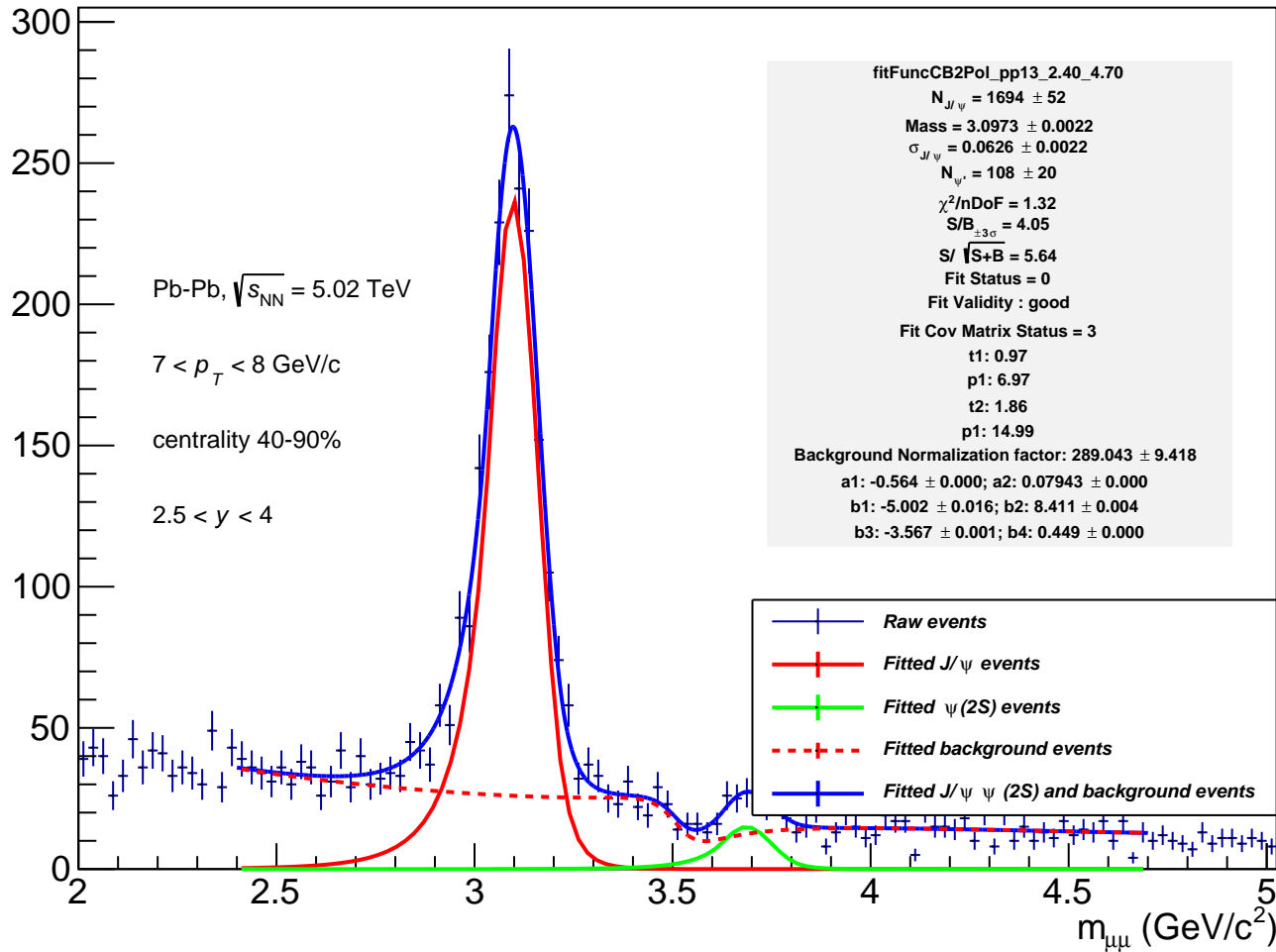


Events per 0.025 GeV





Events per 0.025 GeV



Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

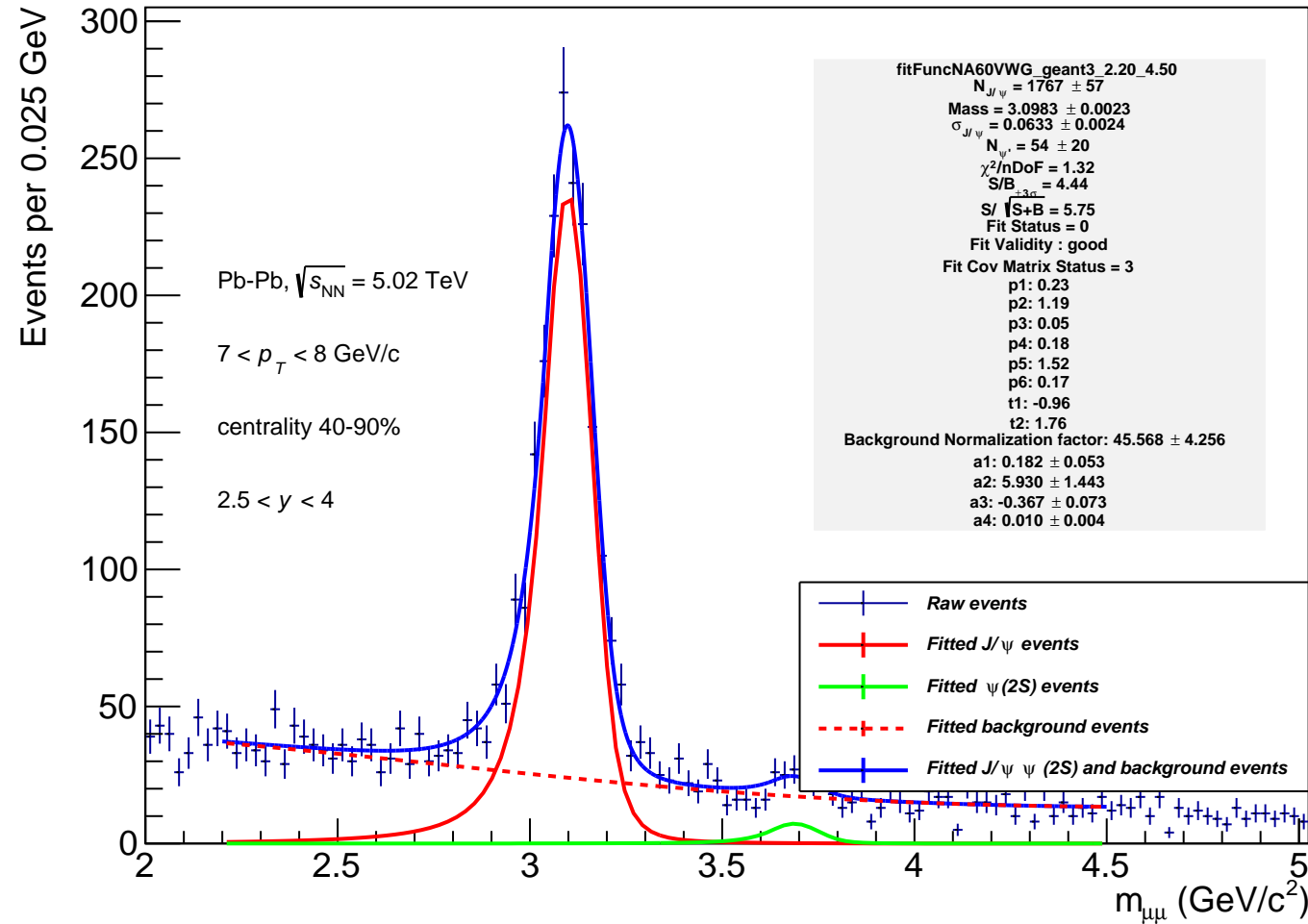
$2.5 < y < 4$

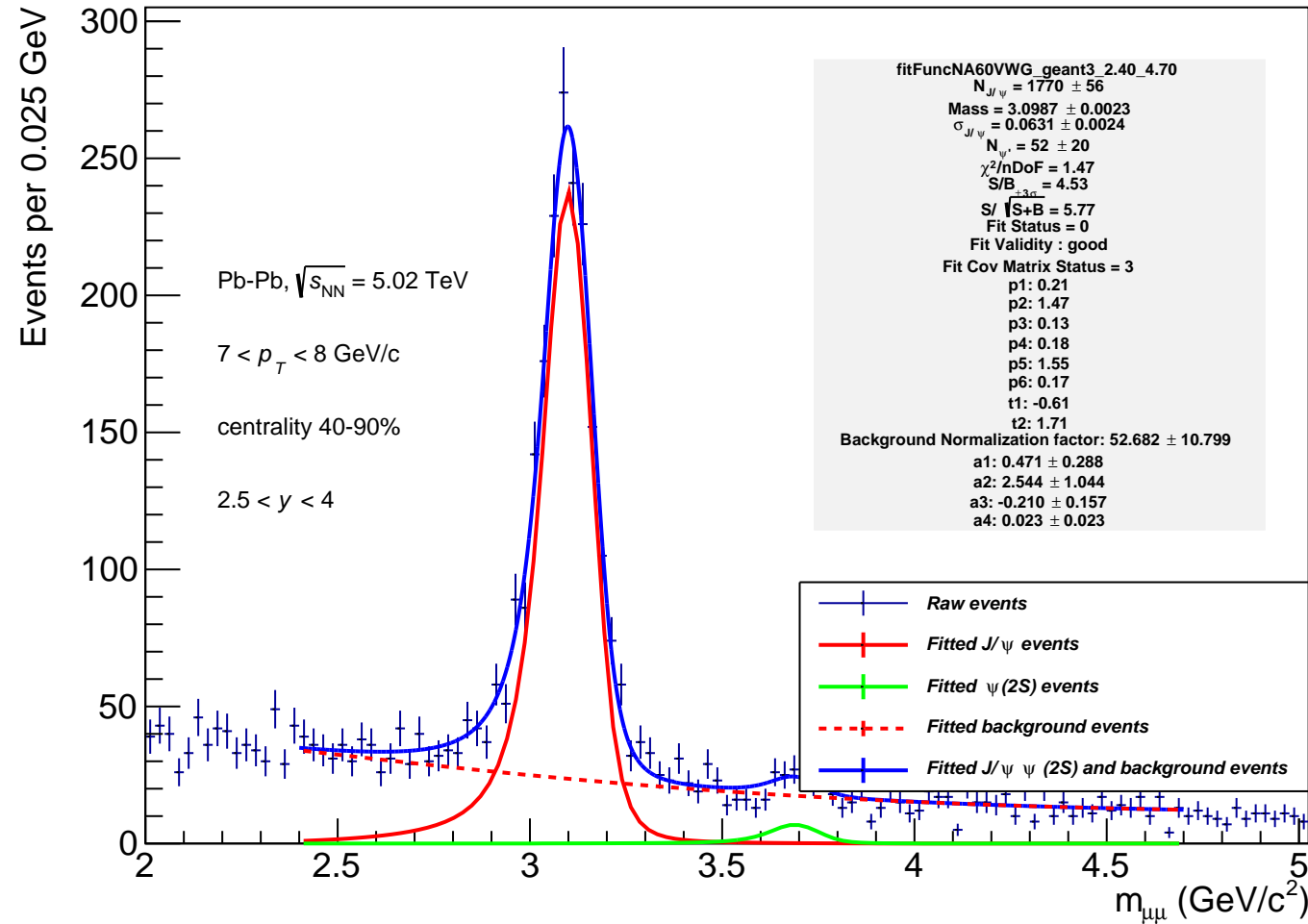
fitFuncCB2Pol\_geant3\_2.40\_4.70  
 $N_{J/\psi} = 1741 \pm 57$   
Mass =  $3.0960 \pm 0.0020$   
 $\sigma_{J/\psi} = 0.0643 \pm 0.0023$   
 $N_{\psi'} = 109 \pm 36$   
 $\chi^2/\text{nDoF} = 1.31$   
 $S/B_{\pm 3\sigma} = 4.14$   
 $S/\sqrt{S+B} = 5.69$   
Fit Status = 0  
Fit Validity : good  
Fit Cov Matrix Status = 3  
t1: 1.12  
p1: 3.45  
t2: 1.98  
p1: 3.40  
Background Normalization factor:  $229.782 \pm 43.795$   
a1:  $-0.563 \pm 0.007$ ; a2:  $0.07923 \pm 0.002$   
b1:  $-3.821 \pm 0.908$ ; b2:  $6.615 \pm 0.240$   
b3:  $-2.829 \pm 0.078$ ; b4:  $0.357 \pm 0.021$

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>)







Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

$2.5 < y < 4$

```
fitFuncNA60Pol2_geant3_2.20_4.50
NJ/ψ = 1780 ± 59
Mass = 3.0981 ± 0.0023
σJ/ψ = 0.0638 ± 0.0025
Nψ = 51 ± 19
χ²/nDoF = 1.37
S/B = 4.54
S/√(S+B) = 5.79
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
p1: 0.23
p2: 1.19
p3: 0.05
p4: 0.18
p5: 1.52
p6: 0.17
t1: -0.96
t2: 1.76
Background Normalization factor: 1.081 ± 1.075
a1: 2.912 ± 16.214; a2: 9.94263 ± 19.036
b1: 3.662 ± 1.544; b2: -2.493 ± 1.053
b3: 0.173 ± 0.445; b4: 0.244 ± 0.199
```

—+— *Raw events*  
—+— *Fitted J/ψ events*  
—+— *Fitted ψ(2S) events*  
- - + - *Fitted background events*  
—+— *Fitted J/ψ ψ(2S) and background events*

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

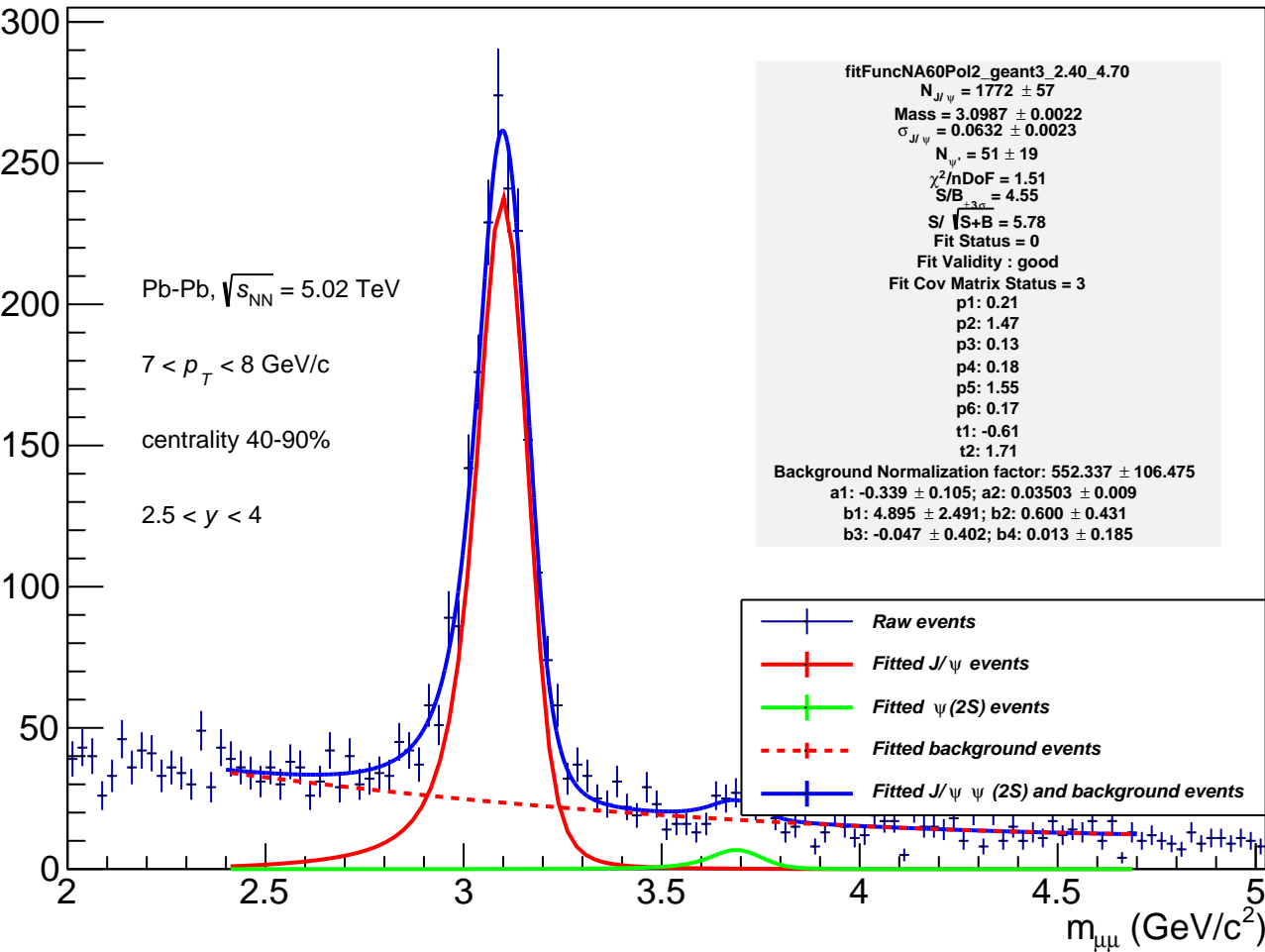
Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

$2.5 < y < 4$



Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

$2.5 < y < 4$

fitFuncCB2Exp\_pp13\_2.20\_4.50

$N_{J/\psi} = 1742 \pm 52$

Mass =  $3.0980 \pm 0.0023$

$\sigma_{J/\psi} = 0.0642 \pm 0.0023$

$N_{\psi'} = 52 \pm 19$

$\chi^2/nDoF = 1.27$

$S/B_{\pm 3\sigma} = 14.56$

$S/\sqrt{S+B} = 6.18$

Fit Status = 0

Fit Validity : good

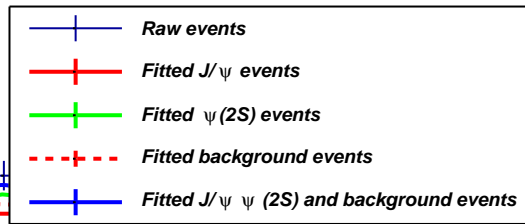
Fit Cov Matrix Status = 3

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99



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

Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

$2.5 < y < 4$

**fitFuncCB2Exp\_geant3\_2.20\_4.50**

**$N_{J/\psi} = 1859 \pm 46$**

**Mass =  $3.0972 \pm 0.0022$**

**$\sigma_{J/\psi} = 0.0671 \pm 0.0017$**

**$N_{\psi'} = 38 \pm 19$**

**$\chi^2/nDoF = 2.21$**

**$S/B_{\pm 3\sigma} = 21.61$**

**$S/\sqrt{S+B} = 6.36$**

**Fit Status = 0**

**Fit Validity : good**

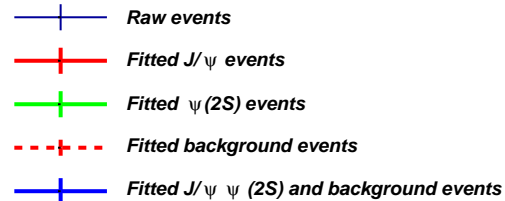
**Fit Cov Matrix Status = 3**

**t1: 0.97**

**p1: 3.98**

**t2: 2.30**

**p1: 3.03**



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

Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

$2.5 < y < 4$

**fitFuncCB2Exp\_pp13\_2.40\_4.70**

**$N_{J/\psi} = 1743 \pm 54$**

**Mass =  $3.0981 \pm 0.0022$**

**$\sigma_{J/\psi} = 0.0642 \pm 0.0024$**

**$N_{\psi'} = 55 \pm 20$**

**$\chi^2/nDoF = 1.27$**

**$S/B_{\pm 3\sigma} = 15.10$**

**$S/\sqrt{S+B} = 6.19$**

**Fit Status = 0**

**Fit Validity : good**

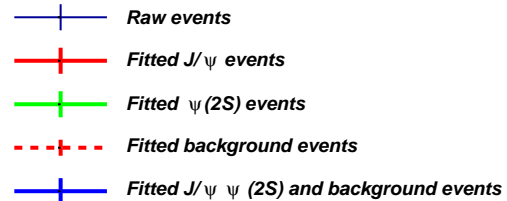
**Fit Cov Matrix Status = 3**

**t1: 0.97**

**p1: 6.97**

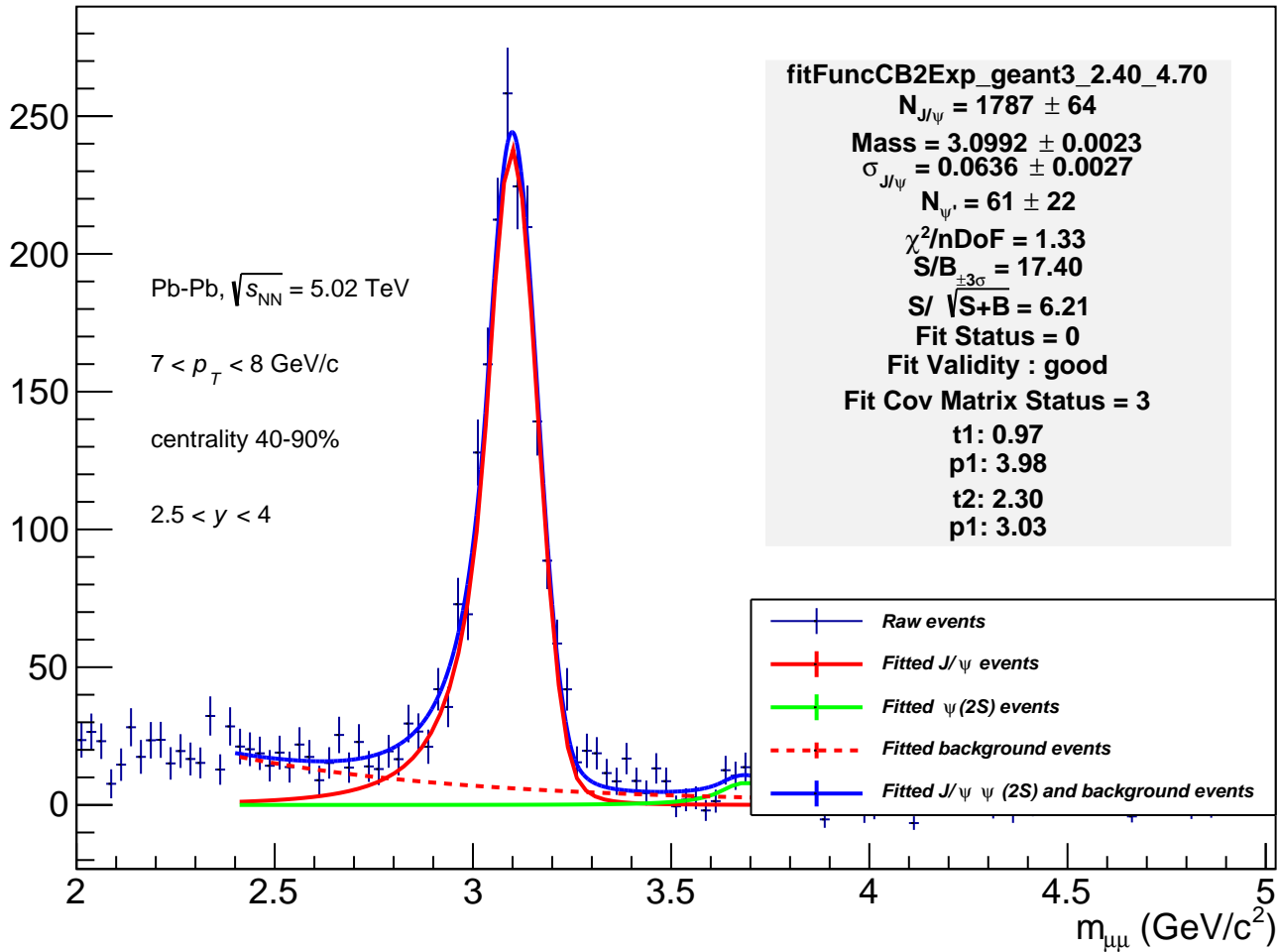
**t2: 1.86**

**p1: 14.99**



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

Events per 0.025 GeV





Events per 0.025 GeV

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

$7 < p_T < 8$  GeV/c

centrality 40-90%

$2.5 < y < 4$

fitFuncNA60Exp\_geant3\_2.20\_4.50

$N_{J/\psi} = 1785 \pm 54$

Mass =  $3.0980 \pm 0.0022$

$\sigma_{J/\psi} = 0.0638 \pm 0.0023$

$N_{\psi^*} = 54 \pm 20$

$\chi^2/nDoF = 1.22$

S/B = 15.93

S/  $\sqrt{S+B} = 6.21$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

p1: 0.23

p2: 1.19

p3: 0.05

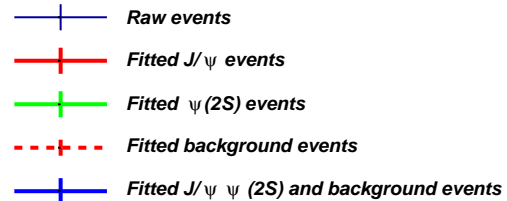
p4: 0.18

p5: 1.52

p6: 0.17

t1: -0.96

t2: 1.76



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

Events per 0.025 GeV

