

Events per 0.025 GeV

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

$8 < p_T < 9$ GeV/c

centrality 20-30%

$2.5 < y < 4$

200
180
160
140
120
100
80
60
40
20

2

2.5

3

3.5

4

4.5

5

$m_{\mu\mu}$ (GeV/c²)

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 1062 \pm 50$

Mass = 3.0973 ± 0.0035

$\sigma_{J/\psi} = 0.0651 \pm 0.0036$

$N_{\psi'} = 0 \pm 23$

$\chi^2/\text{nDoF} = 1.41$

$S/B_{\pm 3\sigma} = 1.50$

$S/\sqrt{S+B} = 3.86$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 2

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99






Background Normalization factor: 46.481 ± 1.472

a1: 1.394 ± 0.109

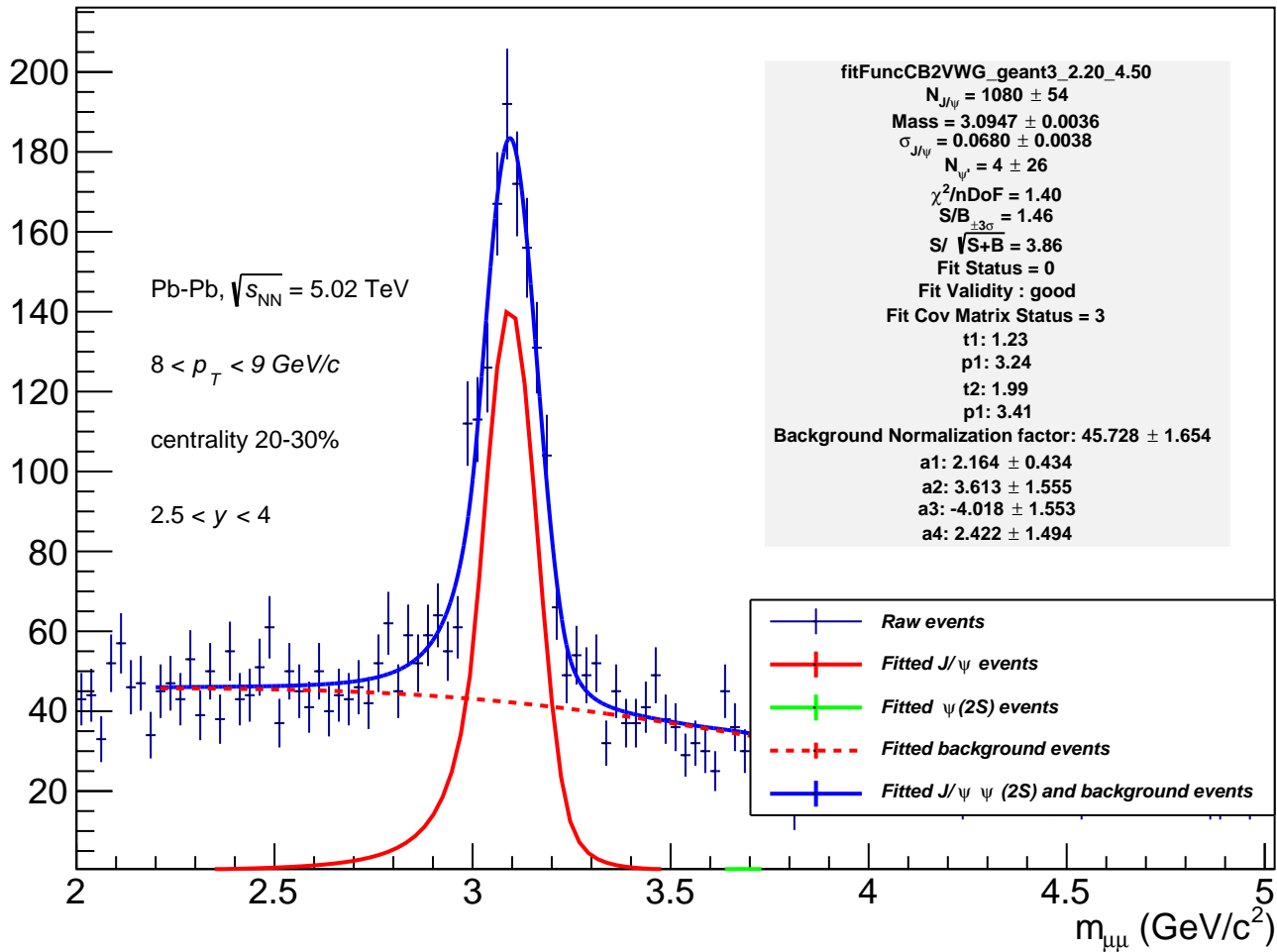
a2: -11.426 ± 1.122

a3: 8.680 ± 0.560

a4: -2.152 ± 0.270

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

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$m_{\mu\mu}$ (GeV/c²)

fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 1075 \pm 0$

Mass = 3.0975 ± 0.0035

$\sigma_{J/\psi} = 0.0658 \pm 0.0039$

$N_{\psi'} = 4 \pm 0$

$\chi^2/nDoF = 1.40$

S/B = $1.54^{+3\sigma}$

S/ $\sqrt{S+B} = 3.91$

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: 767.024 ± 820.820

a1: 1.565 ± 0.927

a2: -0.028 ± 0.055

a3: 0.752 ± 0.469

a4: -0.076 ± 0.102

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Events per 0.025 GeV

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

$8 < p_T < 9$ GeV/c

centrality 20-30%

$2.5 < y < 4$

fitFuncCB2VWG_geant3_2.40_4.70
 $N_{J/\psi} = 1080 \pm 58$
 $\text{Mass} = 3.0951 \pm 0.0036$
 $\sigma_{J/\psi} = 0.0680 \pm 0.0041$
 $N_{\psi'} = 6 \pm 25$
 $\chi^2/\text{nDoF} = 1.38$
 $S/B_{\pm 3\sigma} = 1.47$
 $S/\sqrt{S+B} = 3.88$
Fit Status = 0
Fit Validity : good
Fit Cov Matrix Status = 3
t1: 1.21
p1: 3.38
t2: 1.99
p1: 3.42
Background Normalization factor: 45.369 ± 1.710
a1: 2.581 ± 0.361
a2: 1.207 ± 0.572
a3: 0.453 ± 0.439
a4: 0.271 ± 0.288

—+— 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)

