

Events per 0.025 GeV

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

$9 < p_T < 10$ GeV/c

centrality 40-50%

$2.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 280 \pm 21$

Mass = 3.0984 ± 0.0054

$\sigma_{J/\psi} = 0.0615 \pm 0.0045$

$N_{\psi'} = 7 \pm 6$

$\chi^2/nDoF = 1.31$

S/B = $3.73^{+3.3}_{-3.0}$

S/ $\sqrt{S+B} = 2.27$

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: 387.009 ± 30.154

a1: 3.900 ± 0.000

a2: 0.000 ± 0.000

a3: -1.261 ± 0.008

a4: 0.259 ± 0.046

20

10

0

2

2.5

3

3.5

4

4.5

5

$m_{\mu\mu}$ (GeV/c²)

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

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fitFuncCB2VWG_geant3_2.20_4.50

$N_{J/\psi} = 294 \pm 24$

Mass = 3.0972 ± 0.0054

$\sigma_{J/\psi} = 0.0650 \pm 0.0061$

$N_{\psi'} = 13 \pm 9$

$\chi^2/nDoF = 1.31$

$S/B_{\pm 3\sigma} = 4.18$

$S/\sqrt{S+B} = 2.35$

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: 10.069 ± 2.561

a1: 0.479 ± 0.216

a2: 3.786 ± 1.708

a3: -0.682 ± 0.270

a4: 0.064 ± 0.042

—+— 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

$N_{J/\psi} = 342 \pm 26$

Mass = 3.0921 ± 0.0058

$\sigma_{J/\psi} = 0.0715 \pm 0.0058$

$N_{\psi'} = 8 \pm 9$

$\chi^2/nDoF = 1.48$

$S/B_{\pm 3\sigma} = 11.97$

$S/\sqrt{S+B} = 2.72$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99

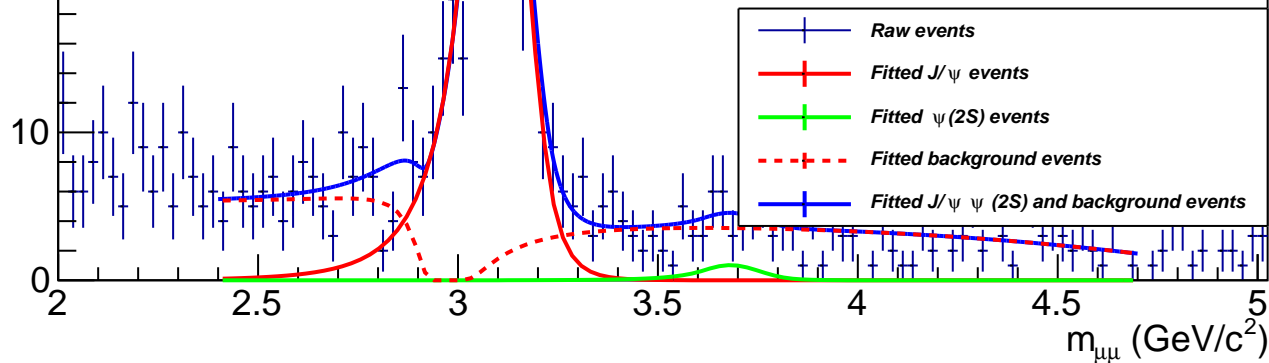
Background Normalization factor: 5.538 ± 0.611

a1: 2.706 ± 0.158

a2: -0.547 ± 0.565

a3: 6.112 ± 2.319

a4: -4.836 ± 7.113



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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 290 \pm 25$

Mass = 3.0973 ± 0.0055

$\sigma_{J/\psi} = 0.0642 \pm 0.0062$

$N_{\psi'} = 11 \pm 9$

$\chi^2/nDoF = 1.37$

$S/B_{\pm 3\sigma} = 4.04$

$S/\sqrt{S+B} = 2.32$

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: 6.045 ± 0.857

a1: 2.533 ± 0.134

a2: 0.351 ± 0.326

a3: 1.517 ± 0.468

a4: -0.061 ± 0.049

