

Events per 0.025 GeV

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

$12 < p_T < 20$ GeV/c

centrality 10-20%

$3 < y < 3.5$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 259 \pm 38$

Mass = 3.0993 ± 0.0083

$\sigma_{J/\psi} = 0.0774 \pm 0.0056$

$N_{\psi'} = 5 \pm 12$

$\chi^2/nDoF = 1.45$

$S/B_{\pm 3\sigma} = 1.66$

$S/\sqrt{S+B} = 1.95$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99

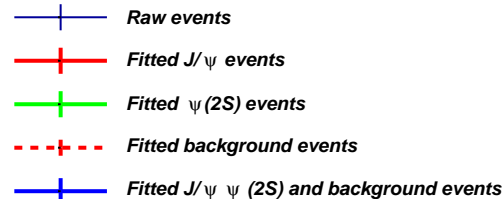
Background Normalization factor: 8.978 ± 0.630

a1: 1.982 ± 0.141

a2: 5.000 ± 1.879

a3: -7.799 ± 0.404

a4: 5.000 ± 6.175



$m_{\mu\mu}$ (GeV/c²)

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fitFuncCB2VWG_geant3_2.20_4.50

$N_{J/\psi} = 380 \pm 33$

Mass = 3.0952 ± 0.0084

$\sigma_{J/\psi} = 0.1000 \pm 0.0061$

$N_{\psi'} = 8 \pm 15$

$\chi^2/nDoF = 1.43$

S/B = 3.87

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

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 0.99

p1: 3.34

t2: 2.25

p1: 2.90

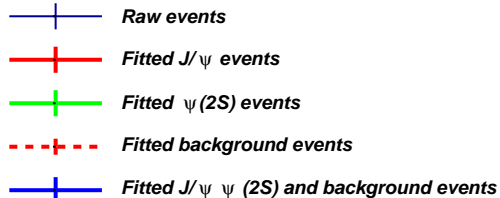
Background Normalization factor: 7.989 ± 0.486

a1: 2.471 ± 0.083

a2: 0.391 ± 0.188

a3: -2.194 ± 0.901

a4: 10.000 ± 14.618



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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 252 \pm 26$

Mass = 3.0941 ± 0.0082

$\sigma_{J/\psi} = 0.0788 \pm 0.0090$

$N_{\psi} = 72 \pm 13$

$\chi^2/nDoF = 1.48$

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

$S/\sqrt{S+B} = 1.88$

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: 8.378 ± 0.696

a1: 3.246 ± 0.082

a2: -1.053 ± 0.273

a3: 10.000 ± 2.234

a4: -8.260 ± 3.363

—+— 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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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 298 \pm 32$

Mass = 3.0989 ± 0.0083

$\sigma_{J/\psi} = 0.0856 \pm 0.0108$

$N_{\psi^*} = 6 \pm 14$

$\chi^2/nDoF = 1.33$

$S/B = 2.01$

$S/\sqrt{S+B} = 2.13$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 0.98

p1: 3.47

t2: 2.24

p1: 2.91

Background Normalization factor: 136.127 ± 10.096

a1: 2.381 ± 0.035

a2: 0.002 ± 0.003

a3: 0.966 ± 0.040

a4: -0.019 ± 0.049

- +— 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)

