



Events per 0.05 GeV

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

$15 < p_T < 20$ GeV/c

centrality 50-60%

$2.5 < y < 4$

fitFuncCB2VWG_geant3_2.20_4.50

$N_{J/\psi} = 37 \pm 8$

Mass = 3.0772 ± 0.0164

$\sigma_{J/\psi} = 0.0763 \pm 0.0198$

$N_{\psi^*} = 0 \pm 0$

$\chi^2/nDoF = 0.74$

$S/B_{\pm 3\sigma} = 5.35$

$S/\sqrt{S+B} = 1.21$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.40

p1: 3.08

t2: 2.08

p1: 1.52

Background Normalization factor: 54.989 ± 5.076

a1: 2.165 ± 0.114

a2: 0.004 ± 0.011

a3: 0.735 ± 0.121

a4: -0.026 ± 0.100

- +— 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

$N_{J/\psi} = 39 \pm 22$

Mass = 3.0860 ± 0.0197

$\sigma_{J/\psi} = 0.0786 \pm 0.0229$

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

$\chi^2/nDoF = 0.80$

$S/B = 7.85$

$S/\sqrt{S+B} = 1.27$

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: 13.266 ± 60.034

a1: 2.446 ± 0.010

a2: 0.004 ± 0.014

a3: 0.887 ± 0.211

a4: 0.184 ± 0.484

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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 44 \pm 8$

Mass = 3.0872 ± 0.0190

$\sigma_{J/\psi} = 0.1000 \pm 0.0329$

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

$\chi^2/nDoF = 0.83$

$S/B_{\pm 3\sigma} = 12.45$

$S/\sqrt{S+B} = 1.39$

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: 5.758 ± 7.853

a1: 2.446 ± 0.011

a2: 0.014 ± 0.024

a3: 0.792 ± 0.245

a4: 0.547 ± 0.816

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

$m_{\mu\mu}$ (GeV/c²)

