

Events per 0.025 GeV

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

$12 < p_T < 20$ GeV/c

centrality 0-10%

$3.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 33 \pm 8$

Mass = 3.2000 ± 0.1075

$\sigma_{J/\psi} = 0.1000 \pm 0.0047$

$N_{\psi'} = 9 \pm 0$

$\chi^2/nDoF = 1.56$

S/B $_{\pm 3\sigma} = 0.39$

S/ $\sqrt{S+B} = 0.66$

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: 6.669 ± 0.330

a1: 0.360 ± 0.003

a2: -7.533 ± 0.260

a3: -0.939 ± 0.049

a4: 0.512 ± 0.010

—+— 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_geant3_2.20_4.50

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

Mass = 3.0700 ± 0.0944

$\sigma_{J/\psi} = 0.1000 \pm 0.0112$

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

$\chi^2/nDoF = 1.45$

S/B $_{\pm 3\sigma} = 0.00$

S/ $\sqrt{S+B} = 0.00$

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: 10.923 ± 0.902

a1: 3.097 ± 0.048

a2: 0.348 ± 0.068

a3: 0.325 ± 0.168

a4: 5.021 ± 0.879

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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 53 \pm 12$

Mass = 3.1764 ± 0.1012

$\sigma_{J/\psi} = 0.1500 \pm 0.0088$

$N_{\psi} = 13 \pm 12$

$\chi^2/nDoF = 1.61$

$S/B_{\pm 3\sigma} = 0.49$

$S / \sqrt{S+B} = 0.91$

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: 6.895 ± 0.792

a1: 4.466 ± 0.082

a2: 0.325 ± 0.239

a3: -4.037 ± 3.382

a4: 7.791 ± 17.793

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centrality 0-10%

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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 34 \pm 8$

Mass = 3.0700 ± 0.1250

$\sigma_{J/\psi} = 0.1000 \pm 0.0075$

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

$\chi^2/nDoF = 2.10$

$S/B_{\pm 3\sigma} = 0.39$

$S/\sqrt{S+B} = 0.66$

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: 6.856 ± 0.394

a1: 1.393 ± 0.298

a2: 3.379 ± 1.537

a3: -10.000 ± 19.842

a4: 10.000 ± 19.767

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

$m_{\mu\mu}$ (GeV/c²)

