

Events per 0.025 GeV

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

$11 < p_T < 12$ GeV/c

centrality 50-60%

$2.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 56 \pm 10$

Mass = 3.0962 ± 0.0170

$\sigma_{J/\psi} = 0.0808 \pm 0.0168$

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

$\chi^2/nDoF = 0.39$

$S/B_{\pm 3\sigma} = 3.89$

$S/\sqrt{S+B} = 1.02$

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: 1.129 ± 0.304

a1: 4.498 ± 0.034

a2: 0.010 ± 0.020

a3: -1.425 ± 0.648

a4: 10.000 ± 14.220

—+— 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

$N_{J/\psi} = 60 \pm 11$

Mass = 3.0923 ± 0.0164

$\sigma_{J/\psi} = 0.0880 \pm 0.0179$

$N_{\psi'} = 1 \pm 5$

$\chi^2/nDoF = 0.39$

$S/B_{\pm 3\sigma} = 4.35$

$S/\sqrt{S+B} = 1.06$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.15

p1: 3.84

t2: 1.98

p1: 2.28

Background Normalization factor: 1.813 ± 3.782

a1: 4.478 ± 0.011

a2: -0.002 ± 0.005

a3: -1.963 ± 0.685

a4: 3.423 ± 7.690

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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 58 \pm 11$

Mass = 3.0878 ± 0.0192

$\sigma_{J/\psi} = 0.0986 \pm 0.0584$

$N_{\psi'} = 3 \pm 4$

$\chi^2/nDoF = 0.36$

$S/B = 3.41$

$S/\sqrt{S+B} = 1.03$

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: 90.000 ± 61.945

a1: 3.137 ± 0.043

a2: -0.000 ± 0.000

a3: 0.972 ± 0.034

a4: -0.162 ± 0.086

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$m_{\mu\mu}$ (GeV/c²)

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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 56 \pm 10$

Mass = 3.0816 ± 0.0191

$\sigma_{J/\psi} = 0.1000 \pm 0.0529$

$N_{\psi'} = 2 \pm 4$

$\chi^2/nDoF = 0.35$

$S/B = 2.79$

$S/\sqrt{S+B} = 0.98$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.13

p1: 4.18

t2: 1.97

p1: 2.30

Background Normalization factor: 90.000 ± 48.519

a1: 3.150 ± 0.001

a2: -0.000 ± 0.000

a3: 0.976 ± 0.025

a4: -0.165 ± 0.081

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

$m_{\mu\mu}$ (GeV/c²)

