

Events per 0.025 GeV

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

$11 < p_T < 12$ GeV/c

centrality 30-40%

$2.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 166 \pm 0$

Mass = 3.1049 ± 0.0088

$\sigma_{J/\psi} = 0.0684 \pm 0.0097$

$N_{\psi'} = 3 \pm 0$

$\chi^2/nDoF = 1.89$

$S/B_{\pm 3\sigma} = 2.76$

$S/\sqrt{S+B} = 1.69$

Fit Status = 4

Fit Validity : bad

Fit Cov Matrix Status = 1

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99

Background Normalization factor: 3.487 ± 0.359

a1: 1.973 ± 0.272

a2: 16.135 ± 2.863

a3: -20.000 ± 37.533

a4: 6.809 ± 1.371

—+— 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

$N_{J/\psi} = 175 \pm 19$

Mass = 3.1010 ± 0.0092

$\sigma_{J/\psi} = 0.0755 \pm 0.0100$

$N_{\psi'} = 5 \pm 8$

$\chi^2/nDoF = 1.90$

$S/B_{\pm 3\sigma} = 2.74$

$S/\sqrt{S+B} = 1.72$

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: 3.503 ± 0.582

a1: 0.558 ± 0.325

a2: 8.944 ± 19.433

a3: 0.318 ± 2.416

a4: -0.173 ± 0.198

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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 161 \pm 0$

Mass = 3.1056 ± 0.0087

$\sigma_{J/\psi} = 0.0658 \pm 0.0101$

$N_{\psi'} = 5 \pm 0$

$\chi^2/nDoF = 1.90$

S/B $_{\pm 3\sigma} = 2.64$

S/ $\sqrt{S+B} = 1.65$

Fit Status = 4

Fit Validity : bad

Fit Cov Matrix Status = 1

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99

Background Normalization factor: 3.804 ± 0.487

a1: 2.074 ± 0.373

a2: 7.094 ± 2.780

a3: -9.862 ± 15.184

a4: 4.762 ± 7.267

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

$m_{\mu\mu}$ (GeV/c²)

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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 168 \pm 20$

Mass = 3.1016 ± 0.0093

$\sigma_{J/\psi} = 0.0714 \pm 0.0112$

$N_{\psi'} = 4 \pm 8$

$\chi^2/nDoF = 1.91$

$S/B_{\pm 3\sigma} = 2.58$

$S/\sqrt{S+B} = 1.67$

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: 3.554 ± 0.444

a1: 2.774 ± 0.166

a2: 3.884 ± 0.331

a3: -10.000 ± 17.772

a4: 10.000 ± 16.431

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$m_{\mu\mu}$ (GeV/c²)

