

Events per 0.025 GeV

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

$12 < p_T < 15$ GeV/c

centrality 40-50%

$2.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 188 \pm 19$

Mass = 3.0895 ± 0.0075

$\sigma_{J/\psi} = 0.0835 \pm 0.0109$

$N_{\psi'} = 7 \pm 6$

$\chi^2/nDoF = 0.87$

$S/B_{\pm 3\sigma} = 5.44$

$S/\sqrt{S+B} = 1.93$

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: 2.589 ± 0.740

a1: 0.560 ± 0.186

a2: 5.031 ± 0.529

a3: -0.951 ± 0.053

a4: 0.092 ± 0.003

—+— 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

$N_{J/\psi} = 200 \pm 23$

Mass = 3.0841 ± 0.0087

$\sigma_{J/\psi} = 0.0908 \pm 0.0124$

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

$\chi^2/nDoF = 0.84$

$S/B_{\pm 3\sigma} = 6.26$

$S/\sqrt{S+B} = 2.01$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.26

p1: 3.77

t2: 1.75

p1: 2.92

Background Normalization factor: 3.062 ± 1.308

a1: 0.507 ± 0.112

a2: 4.441 ± 0.416

a3: -0.959 ± 0.073

a4: 0.095 ± 0.004

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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 196 \pm 20$

Mass = 3.0878 ± 0.0092

$\sigma_{J/\psi} = 0.0882 \pm 0.0114$

$N_{\psi'} = 7 \pm 7$

$\chi^2/nDoF = 0.81$

$S/B_{\pm 3\sigma} = 6.12$

$S/\sqrt{S+B} = 1.99$

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: 2.466 ± 2.166

a1: 5.138 ± 2.766

a2: 0.040 ± 0.369

a3: -2.796 ± 3.675

a4: 5.000 ± 5.184

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$m_{\mu\mu}$ (GeV/c²)

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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 201 \pm 18$

Mass = 3.0827 ± 0.0088

$\sigma_{J/\psi} = 0.0915 \pm 0.0093$

$N_{\psi'} = 6 \pm 6$

$\chi^2/nDoF = 0.80$

$S/B_{\pm 3\sigma} = 6.32$

$S/\sqrt{S+B} = 2.01$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 2

t1: 1.23

p1: 4.02

t2: 1.75

p1: 2.88

Background Normalization factor: 5.615 ± 5.211

a1: 10.000 ± 12.964

a2: 2.128 ± 0.720

a3: 4.060 ± 0.919

a4: 9.989 ± 19.963

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

$m_{\mu\mu}$ (GeV/c²)

