

Events per 0.025 GeV

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

$6 < p_T < 7$ GeV/c

centrality 50-60%

$2.5 < y < 4$

fitFuncCB2VWG_pp13_2.20_4.50

$N_{J/\psi} = 908 \pm 39$

Mass = 3.0928 ± 0.0037

$\sigma_{J/\psi} = 0.0736 \pm 0.0036$

$N_{\psi} = 29 \pm 15$

$\chi^2/nDoF = 1.13$

$S/B = 4.04$

$S/\sqrt{S+B} = 4.13$

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: 46.051 ± 31.049

a1: 2.677 ± 0.005

a2: -0.001 ± 0.002

a3: 1.768 ± 0.527

a4: -0.841 ± 0.567

—+— 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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Pb-Pb, $\sqrt{s_{NN}} = 5.02$ TeV

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fitFuncCB2VWG_geant3_2.20_4.50

$N_{J/\psi} = 943 \pm 45$

Mass = 3.0914 ± 0.0038

$\sigma_{J/\psi} = 0.0762 \pm 0.0041$

$N_{\psi'} = 35 \pm 16$

$\chi^2/nDoF = 1.17$

$S/B = 4.28$

$S/\sqrt{S+B} = 4.19$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.15

p1: 3.08

t2: 2.11

p1: 3.01

Background Normalization factor: 60.480 ± 179.039

a1: 2.163 ± 0.204

a2: 0.005 ± 0.038

a3: 1.320 ± 1.290

a4: -0.365 ± 0.750

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$m_{\mu\mu}$ (GeV/c²)

Events per 0.025 GeV

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fitFuncCB2VWG_pp13_2.40_4.70

$N_{J/\psi} = 925 \pm 39$

Mass = 3.0930 ± 0.0036

$\sigma_{J/\psi} = 0.0751 \pm 0.0036$

$N_{\psi'} = 38 \pm 14$

$\chi^2/nDoF = 1.22$

$S/B = 4.34$

$S/\sqrt{S+B} = 4.20$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 2

t1: 0.97

p1: 6.97

t2: 1.86

p1: 14.99

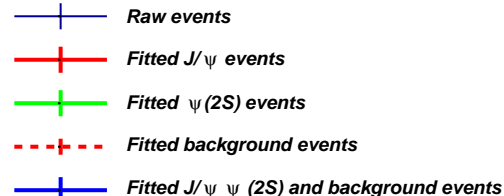
Background Normalization factor: 583.868 ± 229.988

a1: 0.391 ± 0.030

a2: 0.049 ± 0.047

a3: 0.153 ± 0.008

a4: -0.003 ± 0.000



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fitFuncCB2VWG_geant3_2.40_4.70

$N_{J/\psi} = 1089 \pm 41$

Mass = 3.0842 ± 0.0040

$\sigma_{J/\psi} = 0.0920 \pm 0.0045$

$N_{\psi} = 48 \pm 15$

$\chi^2/nDoF = 2.65$

$S/B_{\pm 3\sigma} = 6.45$

$S/\sqrt{S+B} = 4.68$

Fit Status = 0

Fit Validity : good

Fit Cov Matrix Status = 3

t1: 1.14

p1: 3.16

t2: 2.11

p1: 3.00

Background Normalization factor: 7.111 ± 0.445

a1: -0.007 ± 7.785

a2: 4.999 ± 2.298

a3: 2.217 ± 8.205

a4: -4.881 ± 7.344

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

$m_{\mu\mu}$ (GeV/c²)

