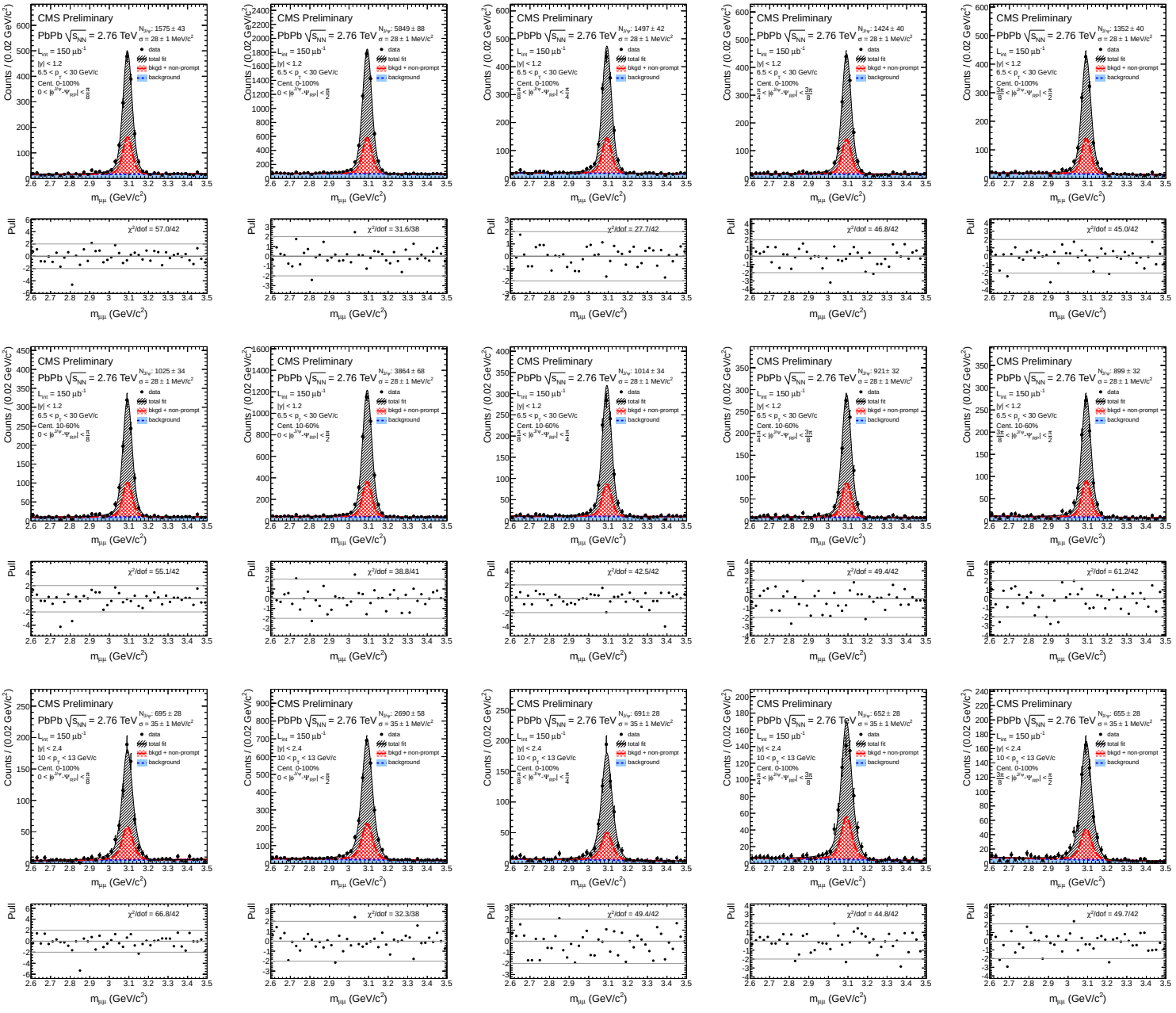
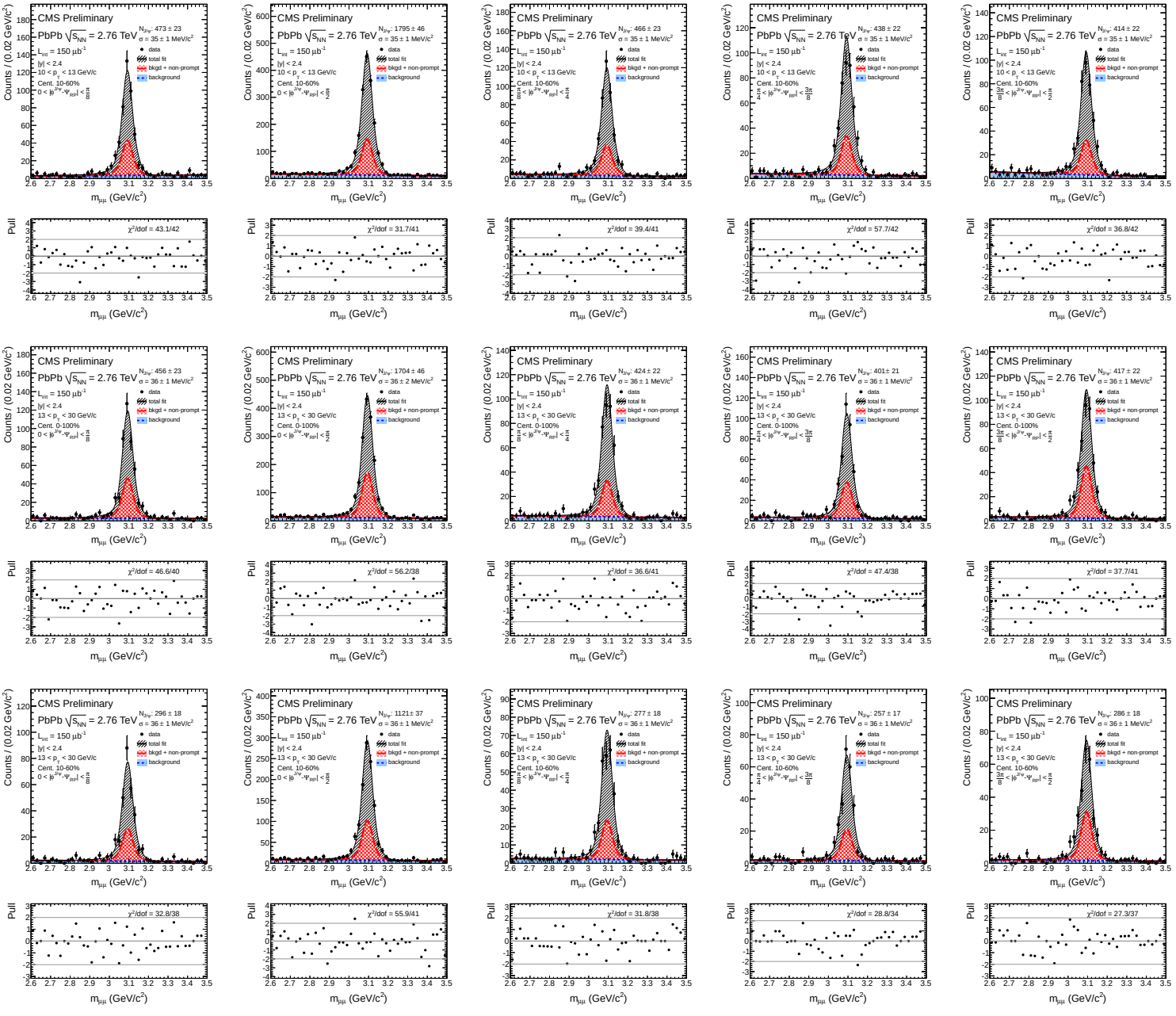
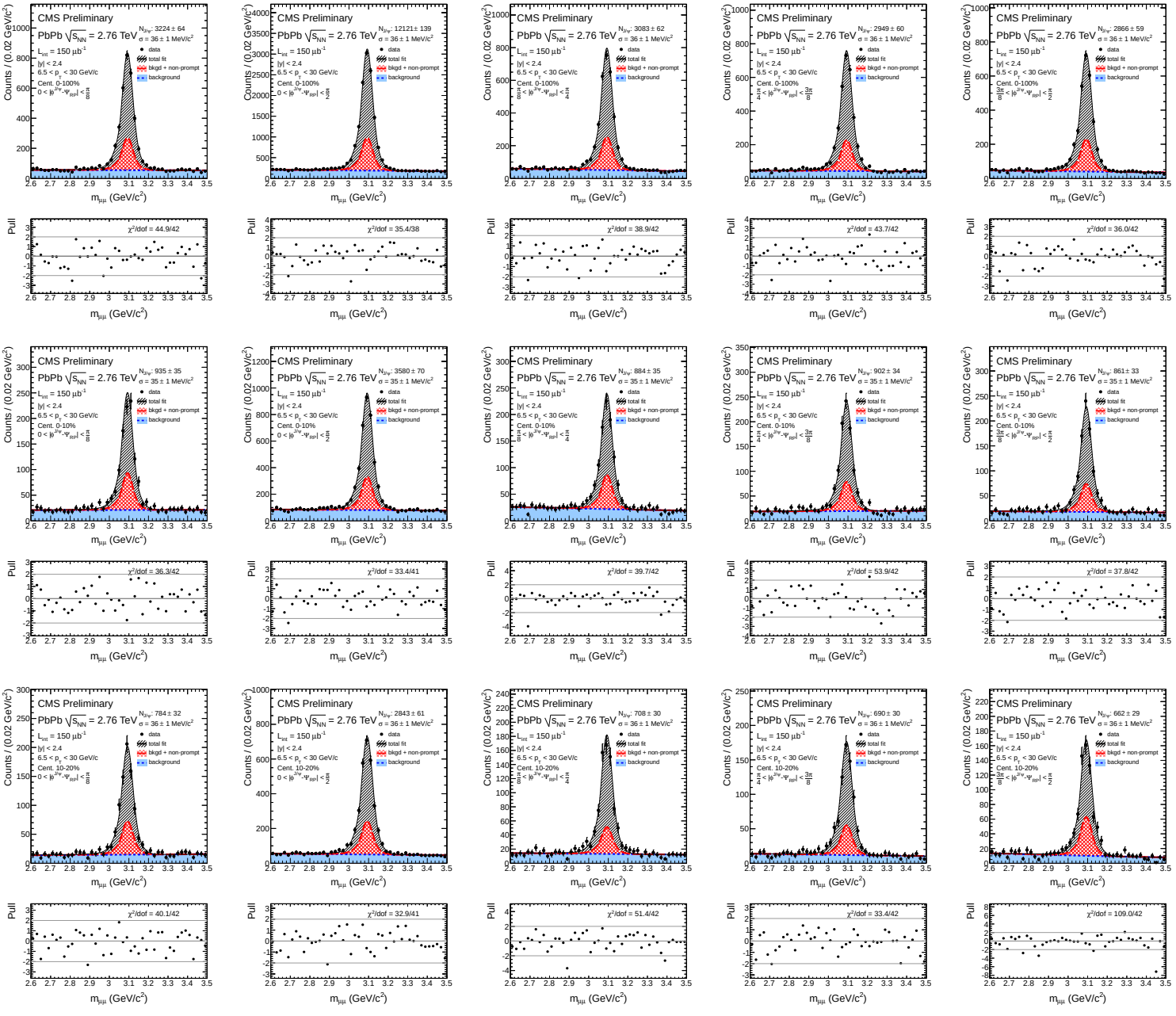
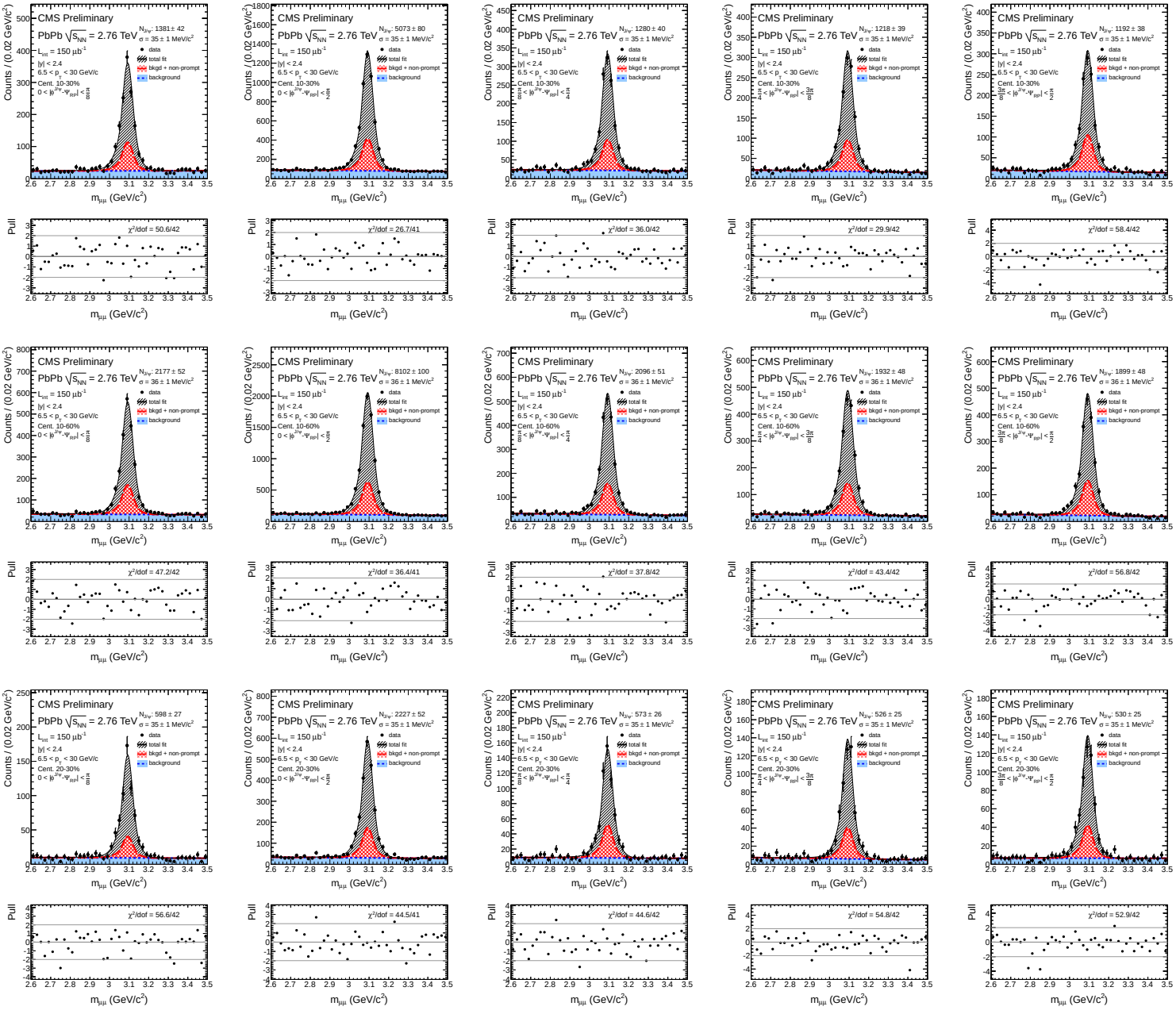
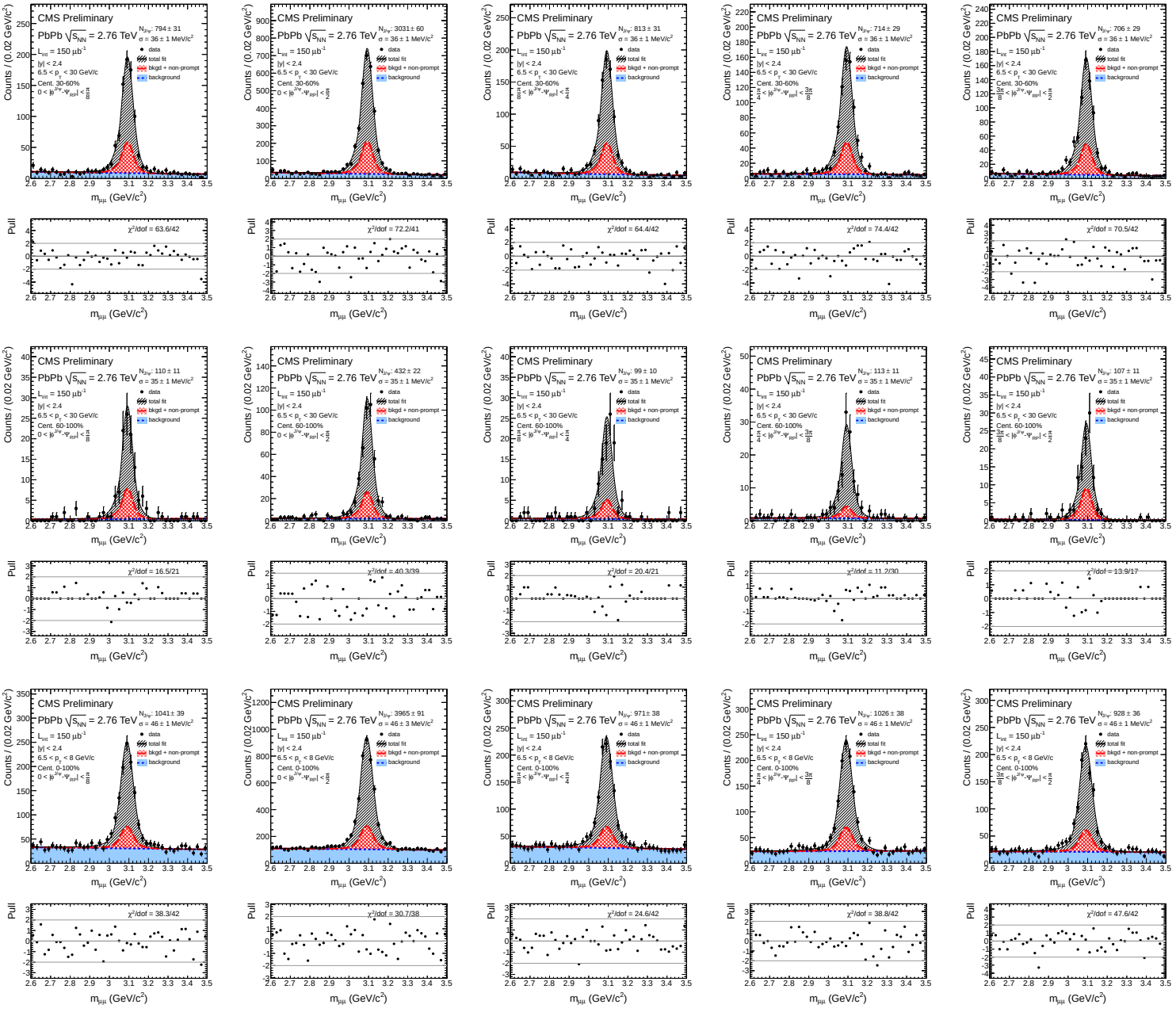
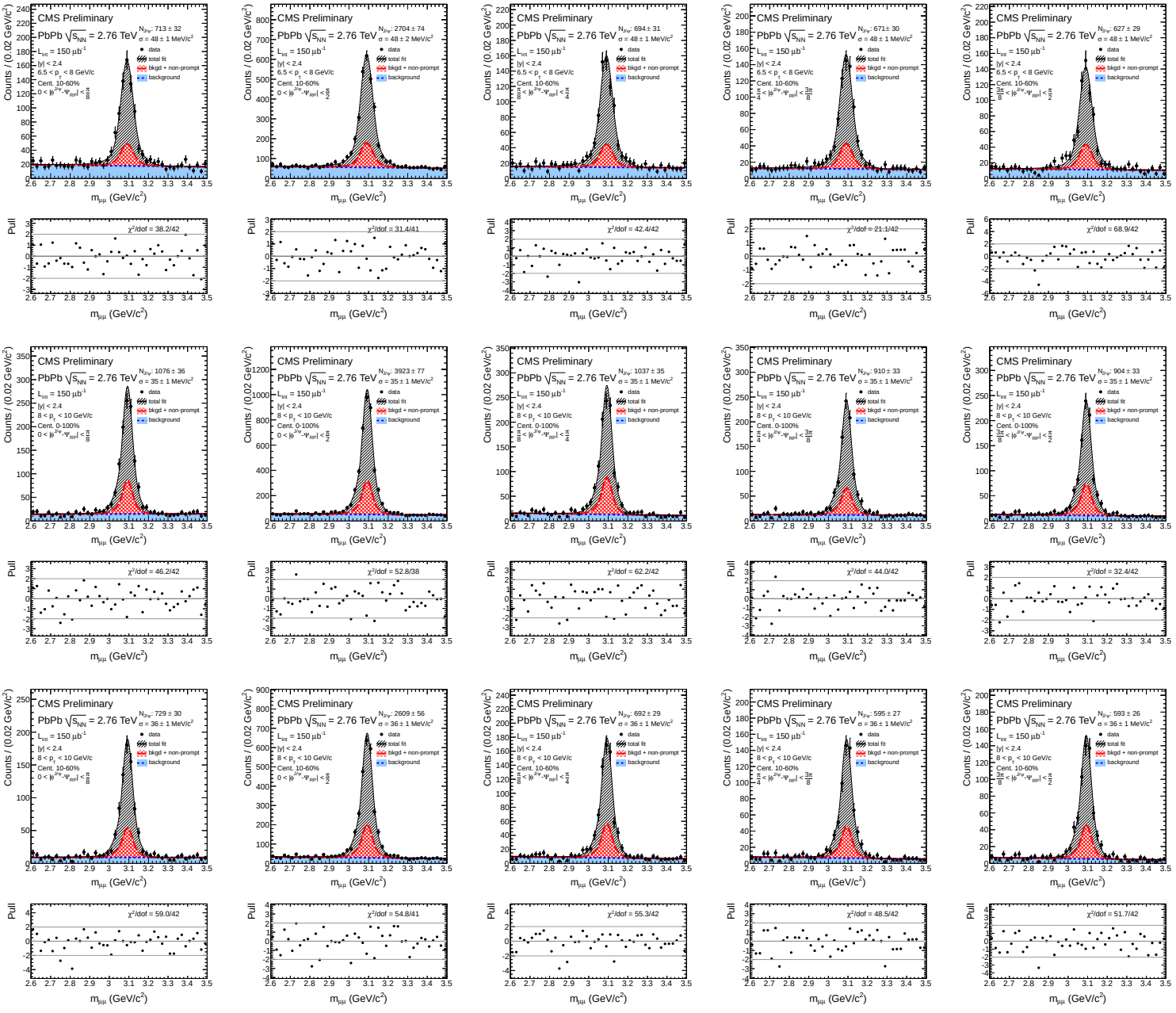

CMS Preliminary
PbPb √sNN = 2.76 TeV
Nψ(2S): 1575 ± 43
σ = 28 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 1.2
6.5 < pT < 30 GeV/c
Cent. 0-100%
0 < |φ^ψ-ΨRP| < π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 57.0/42
Nψ(2S): 5849 ± 88
σ = 28 ± 1 MeV/c²
Cent. 0-100%
0 < |φ^ψ-ΨRP| < π/2
χ²/dof = 31.6/38
Nψ(2S): 1497 ± 42
σ = 28 ± 1 MeV/c²
Cent. 0-100%
π/8 < |φ^ψ-ΨRP| < π/4
χ²/dof = 27.7/42
Nψ(2S): 1424 ± 40
σ = 28 ± 1 MeV/c²
Cent. 0-100%
π/4 < |φ^ψ-ΨRP| < 3π/8
χ²/dof = 46.8/42
Nψ(2S): 1352 ± 40
σ = 28 ± 1 MeV/c²
Cent. 0-100%
3π/8 < |φ^ψ-ΨRP| < π/2
χ²/dof = 45.0/42
Nψ(2S): 1025 ± 34
σ = 28 ± 1 MeV/c²
Cent. 10-60%
χ²/dof = 55.1/42
Nψ(2S): 3864 ± 68
σ = 28 ± 1 MeV/c²
Cent. 10-60%
χ²/dof = 38.8/41
Nψ(2S): 1014 ± 34
σ = 28 ± 1 MeV/c²
Cent. 10-60%
χ²/dof = 42.5/42
Nψ(2S): 921 ± 32
σ = 28 ± 1 MeV/c²
Cent. 10-60%
χ²/dof = 49.4/42
Nψ(2S): 899 ± 32
σ = 28 ± 1 MeV/c²
Cent. 10-60%
χ²/dof = 61.2/42
Nψ(2S): 695 ± 28
σ = 35 ± 1 MeV/c²
|y| < 2.4
10 < pT < 13 GeV/c
Cent. 0-100%
χ²/dof = 66.8/42
Nψ(2S): 2690 ± 58
σ = 35 ± 1 MeV/c²
χ²/dof = 32.3/38
Nψ(2S): 691 ± 28
σ = 35 ± 1 MeV/c²
χ²/dof = 49.4/42
Nψ(2S): 652 ± 28
σ = 35 ± 1 MeV/c²
χ²/dof = 44.8/42
Nψ(2S): 655 ± 28
σ = 35 ± 1 MeV/c²
χ²/dof = 49.7/42

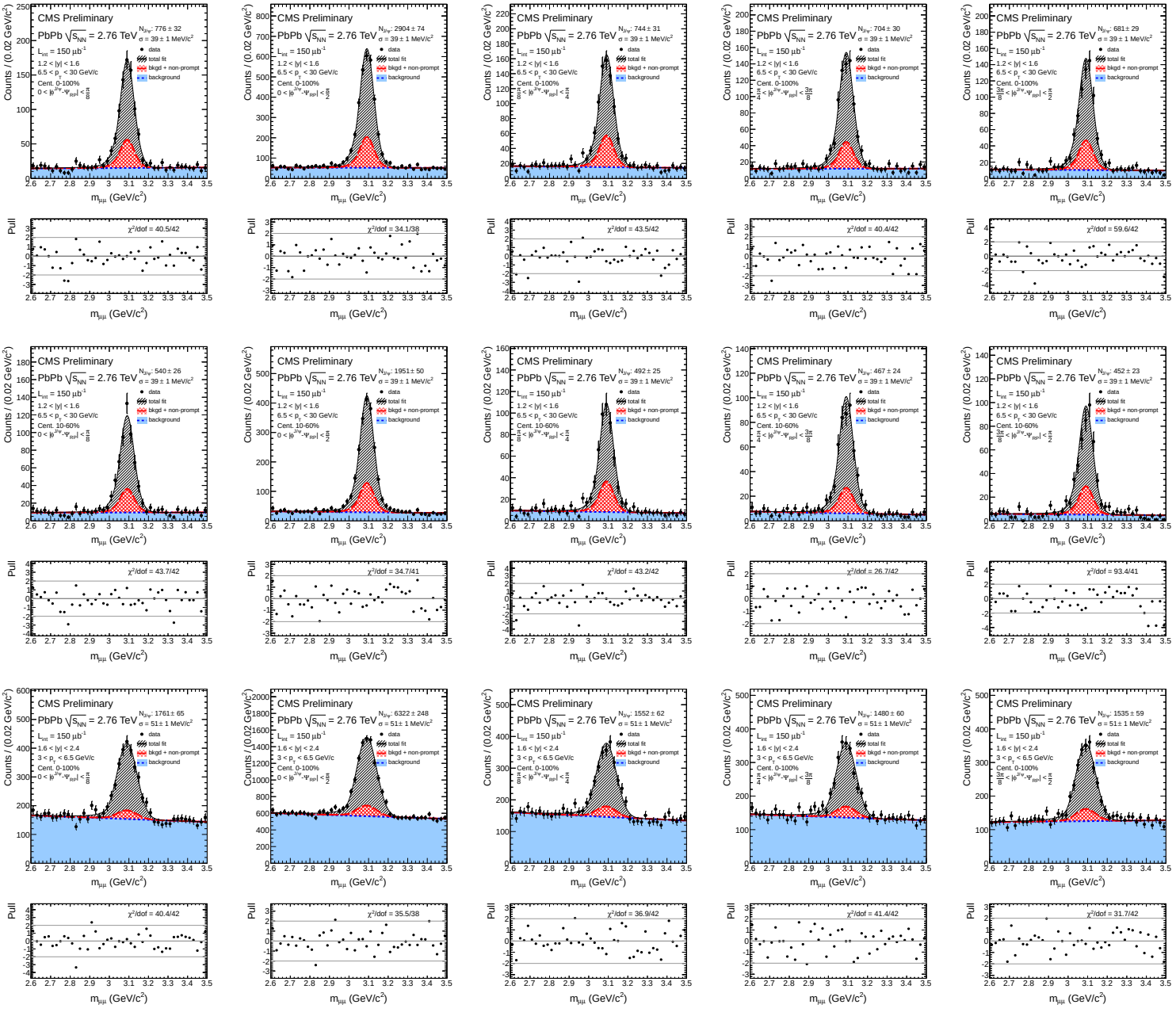

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 473 ± 23
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 43.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1795 ± 46
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 31.7/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 466 ± 23
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 10-60%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 39.4/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 438 ± 22
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 10-60%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 57.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 414 ± 22
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 10-60%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 36.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 456 ± 23
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 46.6/40
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1704 ± 46
σ = 36 ± 2 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 56.2/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 424 ± 22
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 36.6/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 401 ± 21
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 47.4/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 417 ± 22
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 37.7/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 296 ± 18
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 32.8/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1121 ± 37
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 55.9/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 277 ± 18
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 10-60%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 31.8/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 257 ± 17
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 10-60%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 28.8/34
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 286 ± 18
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 10-60%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 27.3/37

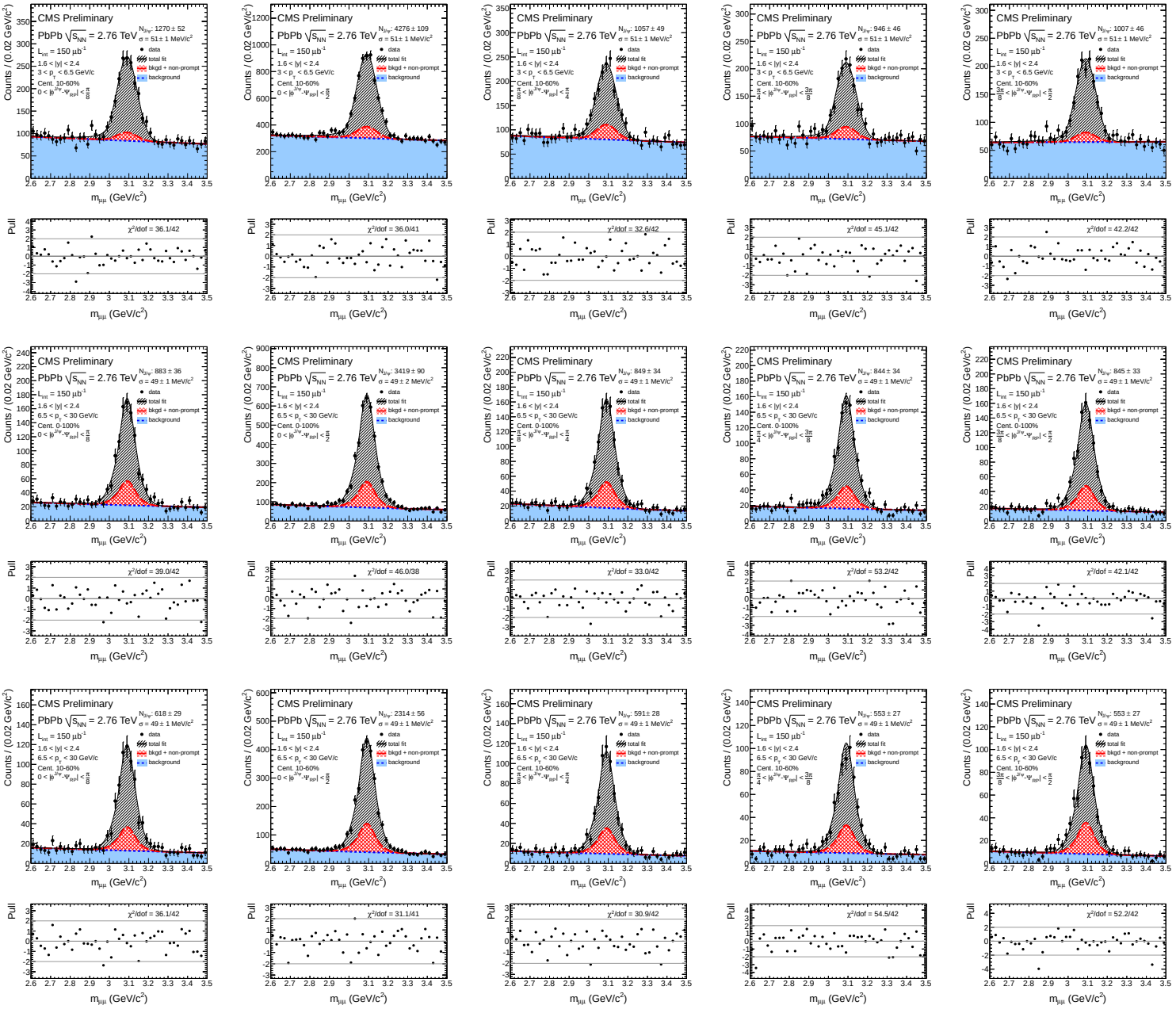

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3224 ± 64
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 44.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 12121 ± 139
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 35.4/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3083 ± 62
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 38.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2949 ± 60
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 43.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2866 ± 59
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 36.0/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 935 ± 35
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 36.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3580 ± 70
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 33.4/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 884 ± 35
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 39.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 902 ± 34
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 53.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 861 ± 33
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 37.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 784 ± 32
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 40.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2843 ± 61
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 32.9/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 708 ± 30
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 51.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 690 ± 30
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 33.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 662 ± 29
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 109.0/42


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1381 ± 42
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-30%
$0 < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 50.6/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 5073 ± 80
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-30%
$0 < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 26.7/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1280 ± 40
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-30%
$\frac{\pi}{8} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 36.0/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1218 ± 39
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-30%
$\frac{\pi}{4} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 29.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1192 ± 38
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-30%
$\frac{3\pi}{8} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 58.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2177 ± 52
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-60%
$0 < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 47.2/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 8102 ± 100
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-60%
$0 < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 36.4/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2096 ± 51
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-60%
$\frac{\pi}{8} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 37.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1932 ± 48
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-60%
$\frac{\pi}{4} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 43.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1899 ± 48
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-60%
$\frac{3\pi}{8} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 56.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 598 ± 27
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$0 < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 56.6/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2227 ± 52
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$0 < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 44.5/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 573 ± 26
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$\frac{\pi}{8} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 44.6/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 526 ± 25
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$\frac{\pi}{4} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 54.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 530 ± 25
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$\frac{3\pi}{8} < |\theta^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 52.9/42


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 794 ± 31
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 63.6/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3031 ± 60
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 72.2/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 813 ± 31
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-60%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 64.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 714 ± 29
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-60%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 74.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 706 ± 29
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-60%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 70.5/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 110 ± 11
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 60-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 16.5/21
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 432 ± 22
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 60-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 40.3/39
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 99 ± 10
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 60-100%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 20.4/21
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 113 ± 11
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 60-100%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 11.2/30
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 107 ± 11
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 60-100%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 13.9/17
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1041 ± 39
σ = 46 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 38.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3965 ± 91
σ = 46 ± 3 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 30.7/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 971 ± 38
σ = 46 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 0-100%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 24.6/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1026 ± 38
σ = 46 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 0-100%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 38.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 928 ± 36
σ = 46 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 0-100%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 47.6/42


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 713 ± 32
σ = 48 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 38.2/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2704 ± 74
σ = 48 ± 2 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 31.4/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 694 ± 31
σ = 48 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 10-60%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 42.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 671 ± 30
σ = 48 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 10-60%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 21.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 627 ± 29
σ = 48 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 8 GeV/c
Cent. 10-60%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 68.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1076 ± 36
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 46.2/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3923 ± 77
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 0-100%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 52.8/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1037 ± 35
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 0-100%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 62.2/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 910 ± 33
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 0-100%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 44.0/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 904 ± 33
σ = 35 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 0-100%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 32.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 729 ± 30
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 59.0/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2609 ± 56
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 10-60%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 54.8/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 692 ± 29
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 10-60%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 55.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 595 ± 27
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 10-60%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 48.5/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 593 ± 26
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
8 < p_T < 10 GeV/c
Cent. 10-60%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 51.7/42


CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 776 ± 32
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 0-100%
0 < |φJ/ψ-ΨRP| < π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 40.5/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 2904 ± 74
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 0-100%
0 < |φJ/ψ-ΨRP| < π/2
χ²/dof = 34.1/38
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 744 ± 31
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 0-100%
π/8 < |φJ/ψ-ΨRP| < π/4
χ²/dof = 43.5/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 704 ± 30
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 0-100%
π/4 < |φJ/ψ-ΨRP| < 3π/8
χ²/dof = 40.4/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 681 ± 29
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 0-100%
3π/8 < |φJ/ψ-ΨRP| < π/2
χ²/dof = 59.6/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 540 ± 26
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 10-60%
0 < |φJ/ψ-ΨRP| < π/8
χ²/dof = 43.7/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 1951 ± 50
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 10-60%
0 < |φJ/ψ-ΨRP| < π/2
χ²/dof = 34.7/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 492 ± 25
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 10-60%
π/8 < |φJ/ψ-ΨRP| < π/4
χ²/dof = 43.2/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 467 ± 24
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 10-60%
π/4 < |φJ/ψ-ΨRP| < 3π/8
χ²/dof = 26.7/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 452 ± 23
σ = 39 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.2 < |y| < 1.6
6.5 < pμ < 30 GeV/c
Cent. 10-60%
3π/8 < |φJ/ψ-ΨRP| < π/2
χ²/dof = 93.4/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 1761 ± 65
σ = 51 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.6 < |y| < 2.4
3 < pμ < 6.5 GeV/c
Cent. 0-100%
0 < |φJ/ψ-ΨRP| < π/8
χ²/dof = 40.4/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 6322 ± 248
σ = 51 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.6 < |y| < 2.4
3 < pμ < 6.5 GeV/c
Cent. 0-100%
0 < |φJ/ψ-ΨRP| < π/2
χ²/dof = 35.5/38
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 1552 ± 62
σ = 51 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.6 < |y| < 2.4
3 < pμ < 6.5 GeV/c
Cent. 0-100%
π/8 < |φJ/ψ-ΨRP| < π/4
χ²/dof = 36.9/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 1480 ± 60
σ = 51 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.6 < |y| < 2.4
3 < pμ < 6.5 GeV/c
Cent. 0-100%
π/4 < |φJ/ψ-ΨRP| < 3π/8
χ²/dof = 41.4/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
NJ/ψ: 1535 ± 59
σ = 51 ± 1 MeV/c²
Lint = 150 μb⁻¹
1.6 < |y| < 2.4
3 < pμ < 6.5 GeV/c
Cent. 0-100%
3π/8 < |φJ/ψ-ΨRP| < π/2
χ²/dof = 31.7/42


CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
3 < pT < 6.5 GeV/c
Cent. 10-60%
0 < |ψ3v-ψRP| < π/8
N3ψ: 1270 ± 52
σ = 51 ± 1 MeV/c2
χ2/dof = 36.1/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
3 < pT < 6.5 GeV/c
Cent. 10-60%
0 < |ψ3v-ψRP| < π/2
N3ψ: 4276 ± 109
σ = 51 ± 1 MeV/c2
χ2/dof = 36.0/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
3 < pT < 6.5 GeV/c
Cent. 10-60%
π/8 < |ψ3v-ψRP| < 3π/8
N3ψ: 1057 ± 49
σ = 51 ± 1 MeV/c2
χ2/dof = 32.6/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
3 < pT < 6.5 GeV/c
Cent. 10-60%
π/4 < |ψ3v-ψRP| < 3π/8
N3ψ: 946 ± 46
σ = 51 ± 1 MeV/c2
χ2/dof = 45.1/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
3 < pT < 6.5 GeV/c
Cent. 10-60%
3π/8 < |ψ3v-ψRP| < π/2
N3ψ: 1007 ± 46
σ = 51 ± 1 MeV/c2
χ2/dof = 42.2/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-100%
0 < |ψ3v-ψRP| < π/8
N3ψ: 883 ± 36
σ = 49 ± 1 MeV/c2
χ2/dof = 39.0/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-100%
0 < |ψ3v-ψRP| < π/2
N3ψ: 3419 ± 90
σ = 49 ± 2 MeV/c2
χ2/dof = 46.0/38
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-100%
π/8 < |ψ3v-ψRP| < π/4
N3ψ: 849 ± 34
σ = 49 ± 1 MeV/c2
χ2/dof = 33.0/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-100%
π/4 < |ψ3v-ψRP| < 3π/8
N3ψ: 844 ± 34
σ = 49 ± 1 MeV/c2
χ2/dof = 53.2/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-100%
3π/8 < |ψ3v-ψRP| < π/2
N3ψ: 845 ± 33
σ = 49 ± 1 MeV/c2
χ2/dof = 42.1/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-60%
0 < |ψ3v-ψRP| < π/8
N3ψ: 618 ± 29
σ = 49 ± 1 MeV/c2
χ2/dof = 36.1/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-60%
0 < |ψ3v-ψRP| < π/2
N3ψ: 2314 ± 56
σ = 49 ± 1 MeV/c2
χ2/dof = 31.1/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-60%
π/8 < |ψ3v-ψRP| < π/4
N3ψ: 591 ± 28
σ = 49 ± 1 MeV/c2
χ2/dof = 30.9/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-60%
π/4 < |ψ3v-ψRP| < 3π/8
N3ψ: 553 ± 27
σ = 49 ± 1 MeV/c2
χ2/dof = 54.5/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
1.6 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-60%
3π/8 < |ψ3v-ψRP| < π/2
N3ψ: 553 ± 27
σ = 49 ± 1 MeV/c2
χ2/dof = 52.2/42
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c2)
Pull
mμμ (GeV/c2)