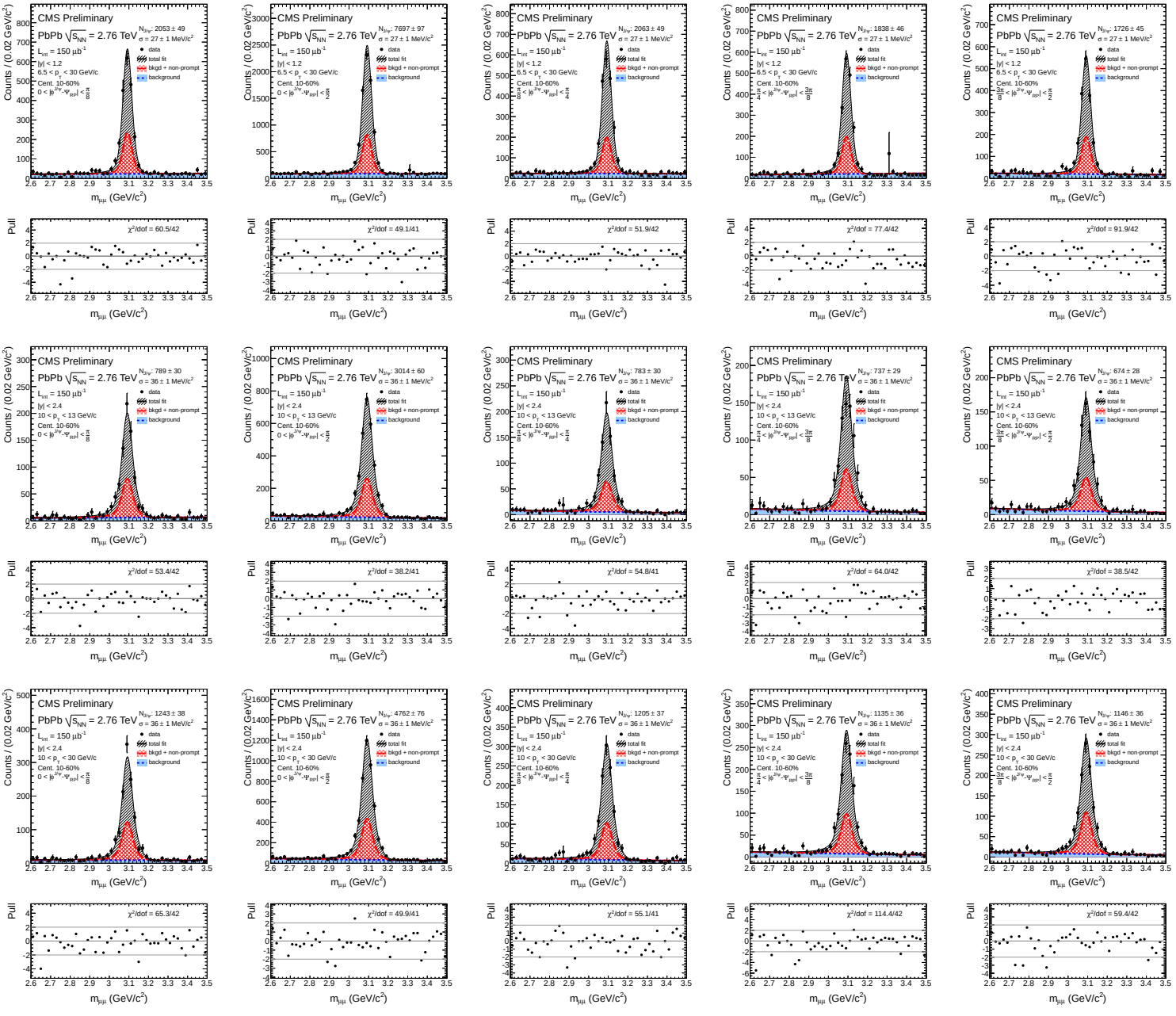
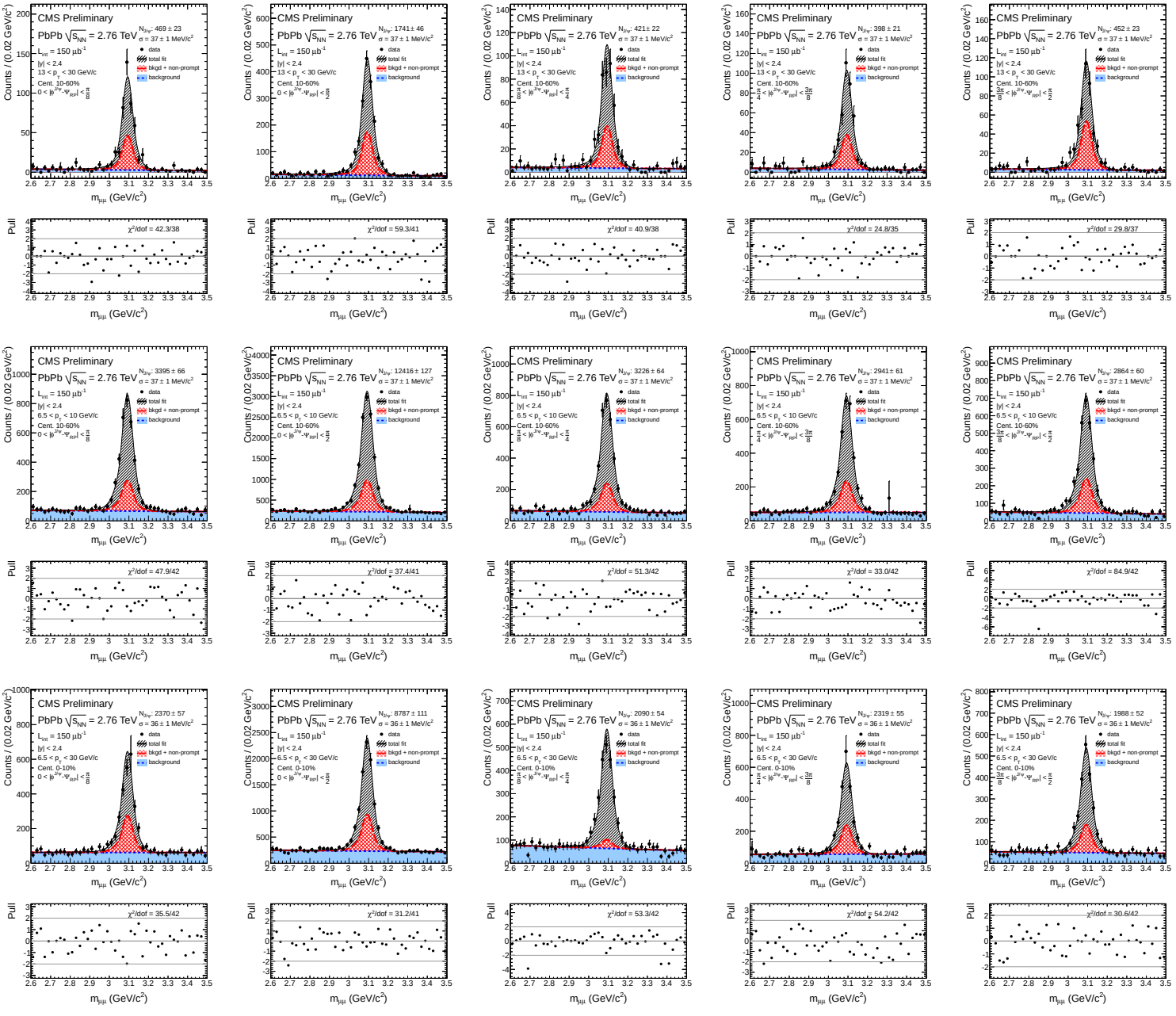
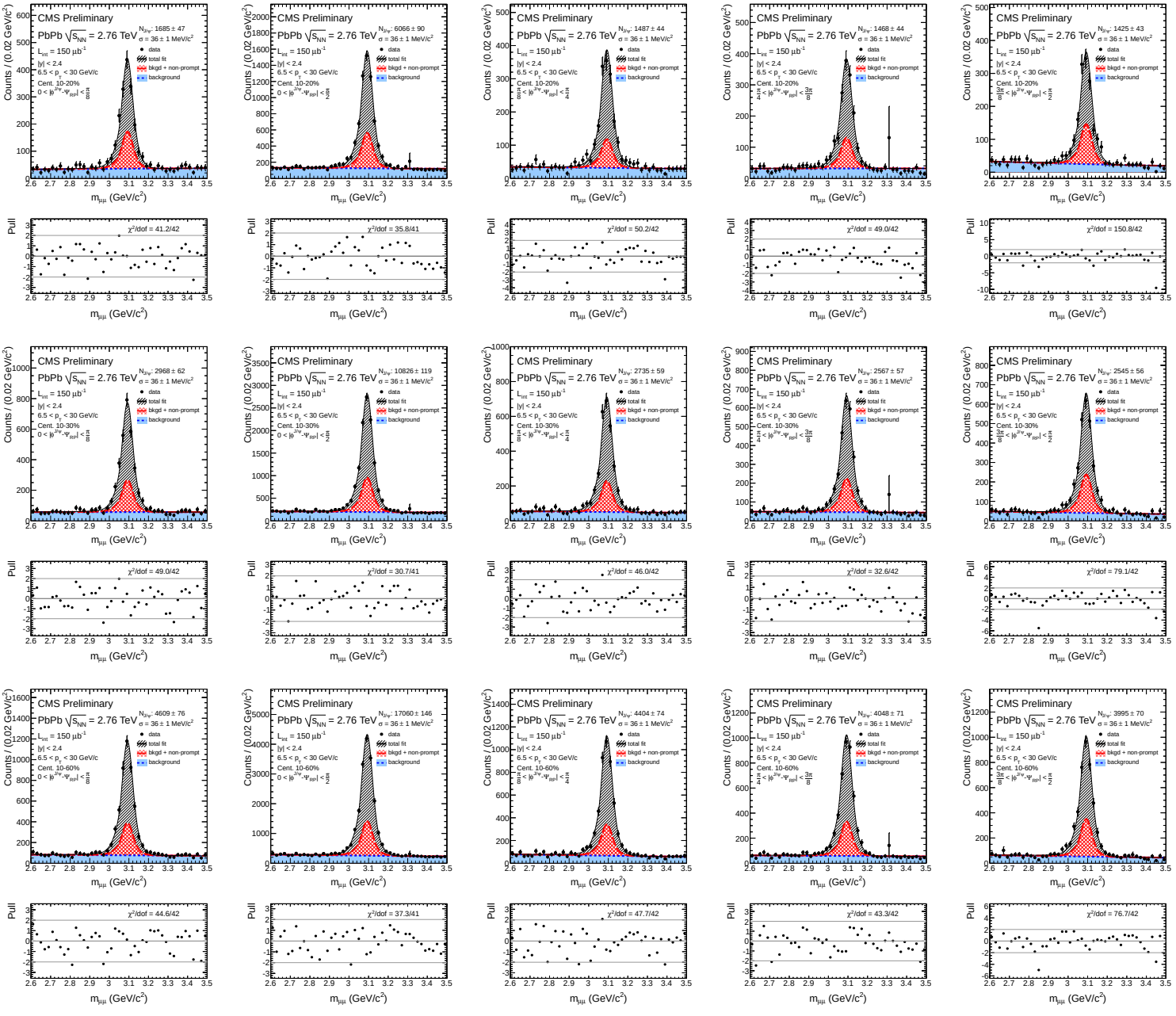
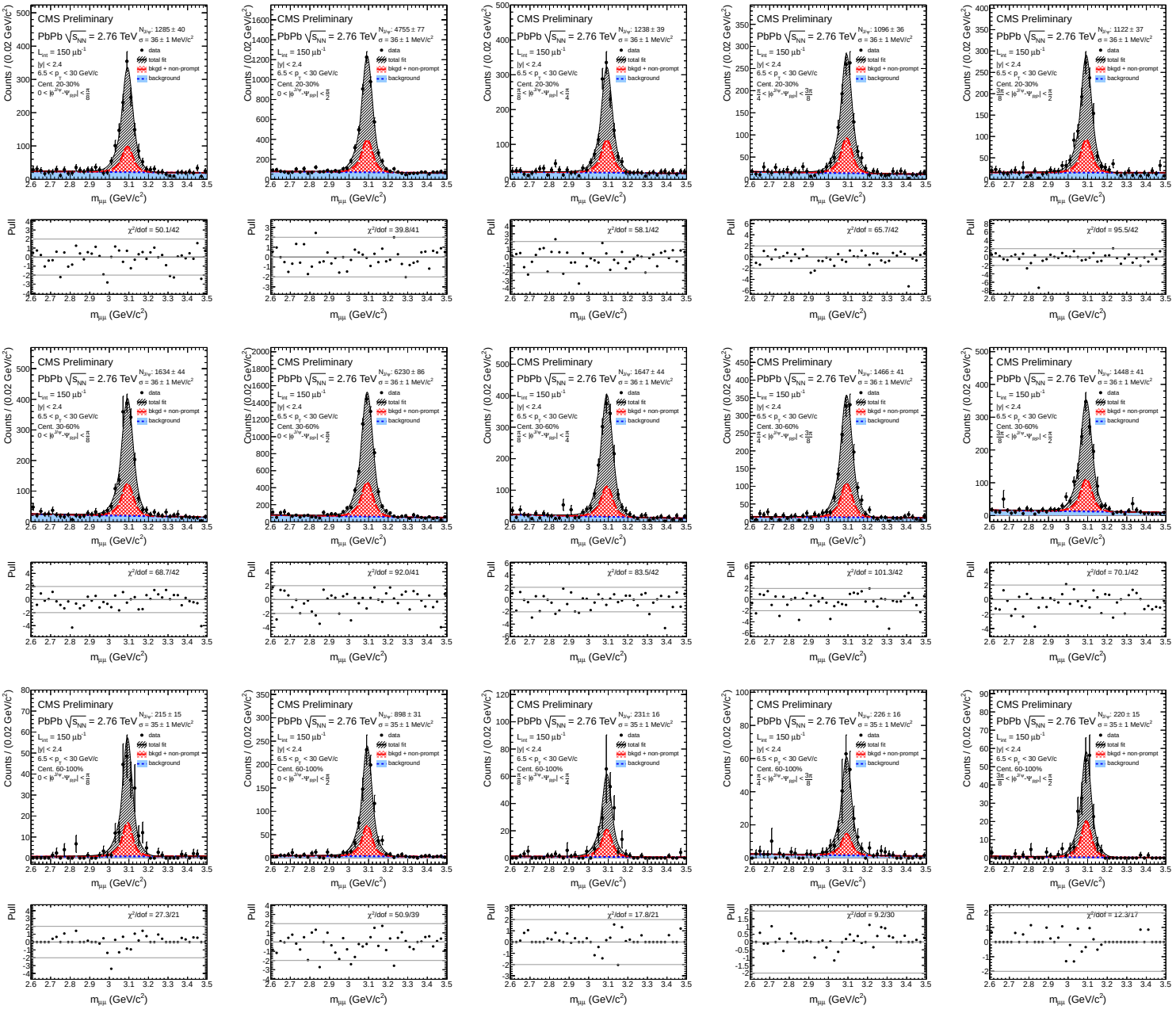
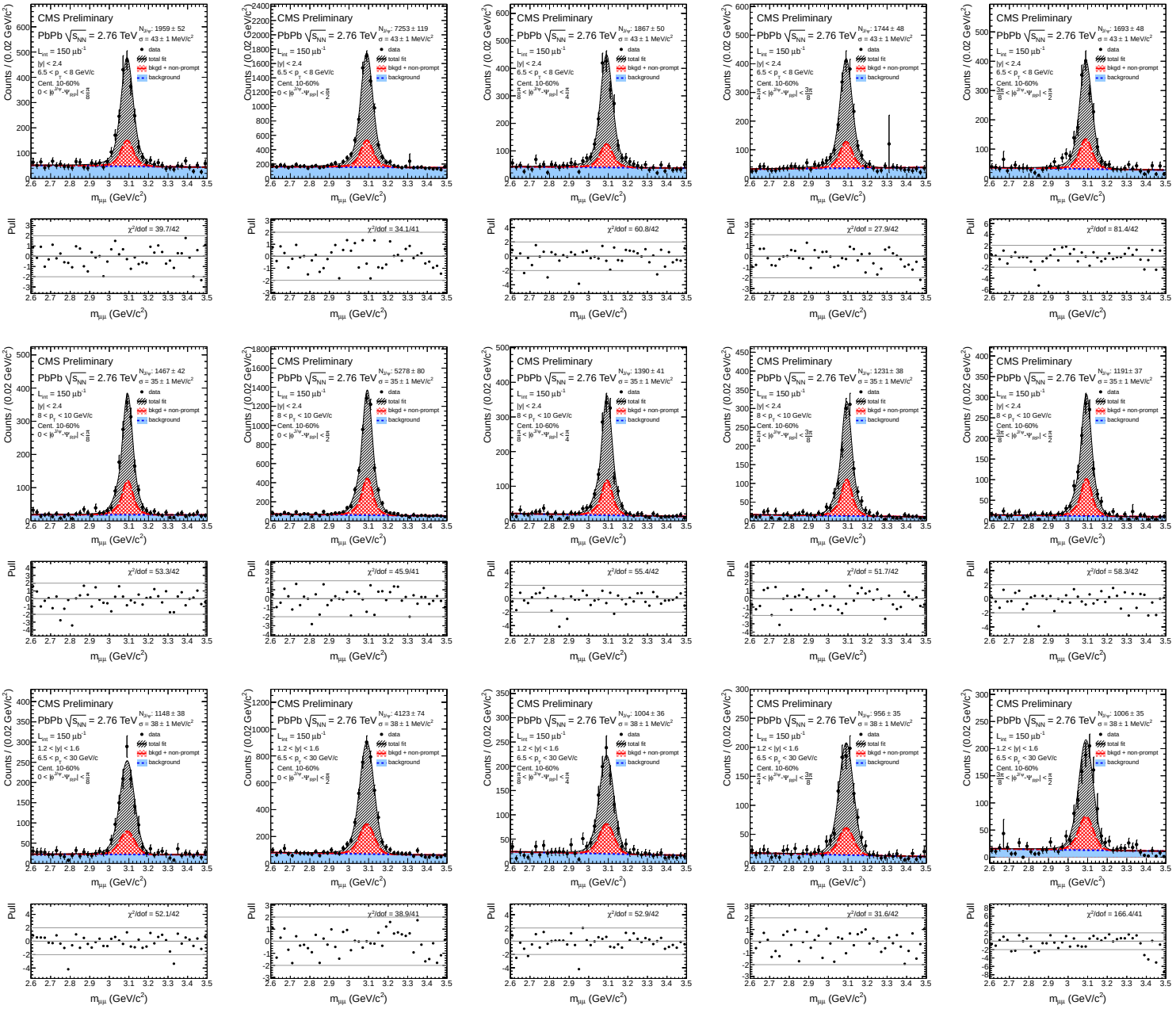
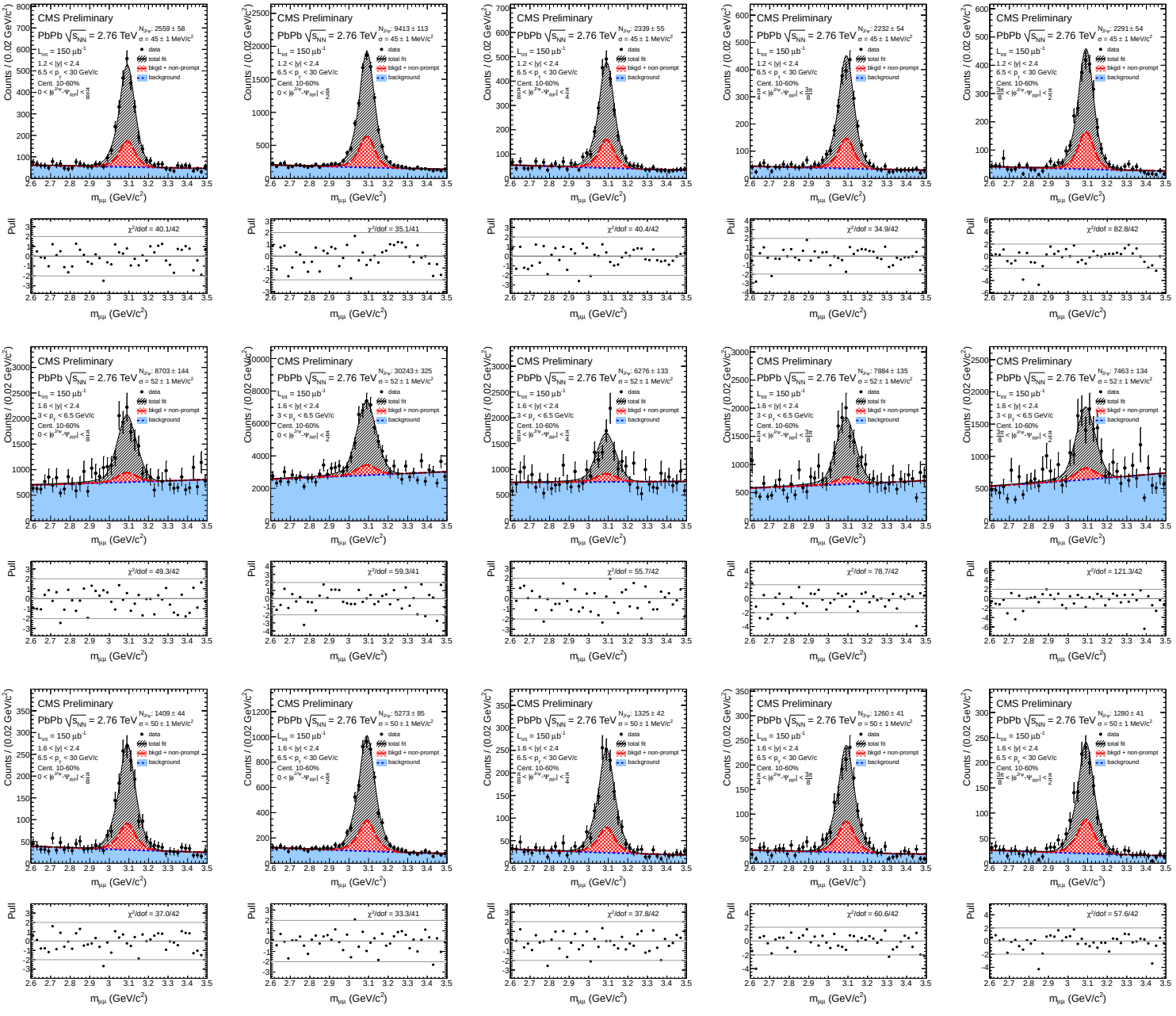

CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 2053 ± 49
σ = 27 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 1.2
6.5 < pT < 30 GeV/c
Cent. 10-60%
0 < |ϕϒ1s-ΨRP| < π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 60.5/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 7697 ± 97
σ = 27 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 1.2
6.5 < pT < 30 GeV/c
Cent. 10-60%
0 < |ϕϒ1s-ΨRP| < π/2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 49.1/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 2063 ± 49
σ = 27 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 1.2
6.5 < pT < 30 GeV/c
Cent. 10-60%
π/8 < |ϕϒ1s-ΨRP| < π/4
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 51.9/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 1838 ± 46
σ = 27 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 1.2
6.5 < pT < 30 GeV/c
Cent. 10-60%
π/4 < |ϕϒ1s-ΨRP| < 3π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 77.4/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 1726 ± 45
σ = 27 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 1.2
6.5 < pT < 30 GeV/c
Cent. 10-60%
3π/8 < |ϕϒ1s-ΨRP| < π/2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 91.9/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 789 ± 30
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 13 GeV/c
Cent. 10-60%
0 < |ϕϒ1s-ΨRP| < π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 53.4/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 3014 ± 60
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 13 GeV/c
Cent. 10-60%
0 < |ϕϒ1s-ΨRP| < π/2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 38.2/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 783 ± 30
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 13 GeV/c
Cent. 10-60%
π/8 < |ϕϒ1s-ΨRP| < π/4
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 54.8/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 737 ± 29
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 13 GeV/c
Cent. 10-60%
π/4 < |ϕϒ1s-ΨRP| < 3π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 64.0/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 674 ± 28
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 13 GeV/c
Cent. 10-60%
3π/8 < |ϕϒ1s-ΨRP| < π/2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 38.5/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 1243 ± 38
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 30 GeV/c
Cent. 10-60%
0 < |ϕϒ1s-ΨRP| < π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 65.3/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 4762 ± 76
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 30 GeV/c
Cent. 10-60%
0 < |ϕϒ1s-ΨRP| < π/2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 49.9/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 1205 ± 37
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 30 GeV/c
Cent. 10-60%
π/8 < |ϕϒ1s-ΨRP| < π/4
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 55.1/41
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 1135 ± 36
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 30 GeV/c
Cent. 10-60%
π/4 < |ϕϒ1s-ΨRP| < 3π/8
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 114.4/42
CMS Preliminary
PbPb √sNN = 2.76 TeV
Nϒ1s: 1146 ± 36
σ = 36 ± 1 MeV/c²
Lint = 150 μb⁻¹
|y| < 2.4
10 < pT < 30 GeV/c
Cent. 10-60%
3π/8 < |ϕϒ1s-ΨRP| < π/2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
mμμ (GeV/c²)
Pull
χ²/dof = 59.4/42


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 469 ± 23
σ = 37 ± 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 = 42.3/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1741 ± 46
σ = 37 ± 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 = 59.3/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 421 ± 22
σ = 37 ± 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 = 40.9/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 398 ± 21
σ = 37 ± 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 = 24.8/35
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 452 ± 23
σ = 37 ± 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 = 29.8/37
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3395 ± 66
σ = 37 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < 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 = 47.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 12416 ± 127
σ = 37 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < 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 = 37.4/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3226 ± 64
σ = 37 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < 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 = 51.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2941 ± 61
σ = 37 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < 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 = 33.0/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2864 ± 60
σ = 37 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < 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 = 84.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2370 ± 57
σ = 36 ± 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 = 35.5/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 8787 ± 111
σ = 36 ± 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 = 31.2/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2090 ± 54
σ = 36 ± 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 = 53.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2319 ± 55
σ = 36 ± 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 = 54.2/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1988 ± 52
σ = 36 ± 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 = 30.6/42


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1685 ± 47
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 6066 ± 90
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 1487 ± 44
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 1468 ± 44
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 1425 ± 43
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 2968 ± 62
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 10826 ± 119
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 2735 ± 59
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 2567 ± 57
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 2545 ± 56
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 4609 ± 76
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 17060 ± 146
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 4404 ± 74
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 4048 ± 71
σ = 36 ± 1 MeV/c²
$N_{J/\psi}$: 3995 ± 70
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
Cent. 10-30%
Cent. 10-60%
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ^2/dof = 41.2/42
χ^2/dof = 35.8/41
χ^2/dof = 50.2/42
χ^2/dof = 49.0/42
χ^2/dof = 150.8/42
χ^2/dof = 49.0/42
χ^2/dof = 30.7/41
χ^2/dof = 46.0/42
χ^2/dof = 32.6/42
χ^2/dof = 79.1/42
χ^2/dof = 44.6/42
χ^2/dof = 37.3/41
χ^2/dof = 47.7/42
χ^2/dof = 43.3/42
χ^2/dof = 76.7/42


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1285 ± 40
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 50.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 4755 ± 77
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$0 < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 39.8/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1238 ± 39
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$\frac{\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{4}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 58.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1096 ± 36
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$\frac{\pi}{4} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{3\pi}{8}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 65.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1122 ± 37
σ = 36 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
$\frac{3\pi}{8} < |\phi^{J/\psi}-\Psi_{RP}| < \frac{\pi}{2}$
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 95.5/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1634 ± 44
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 = 68.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 6230 ± 86
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 = 92.0/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1647 ± 44
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 = 83.5/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1466 ± 41
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 = 101.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1448 ± 41
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 = 70.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 215 ± 15
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 = 27.3/21
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 898 ± 31
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 = 50.9/39
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 231 ± 16
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 = 17.8/21
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 226 ± 16
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 = 9.2/30
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 220 ± 15
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 = 12.3/17


CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 8 GeV/c
Cent. 10-60%
0 < |ϕ2ψ-ψRP| < π/8
N2ψ: 1959 ± 52
σ = 43 ± 1 MeV/c2
χ2/dof = 39.7/42
N2ψ: 7253 ± 119
σ = 43 ± 1 MeV/c2
χ2/dof = 34.1/41
N2ψ: 1867 ± 50
σ = 43 ± 1 MeV/c2
χ2/dof = 60.8/42
N2ψ: 1744 ± 48
σ = 43 ± 1 MeV/c2
χ2/dof = 27.9/42
N2ψ: 1693 ± 48
σ = 43 ± 1 MeV/c2
χ2/dof = 81.4/42
N2ψ: 1467 ± 42
σ = 35 ± 1 MeV/c2
χ2/dof = 53.3/42
N2ψ: 5278 ± 80
σ = 35 ± 1 MeV/c2
χ2/dof = 45.9/41
N2ψ: 1390 ± 41
σ = 35 ± 1 MeV/c2
χ2/dof = 55.4/42
N2ψ: 1231 ± 38
σ = 35 ± 1 MeV/c2
χ2/dof = 51.7/42
N2ψ: 1191 ± 37
σ = 35 ± 1 MeV/c2
χ2/dof = 58.3/42
N2ψ: 1148 ± 38
σ = 38 ± 1 MeV/c2
χ2/dof = 52.1/42
N2ψ: 4123 ± 74
σ = 38 ± 1 MeV/c2
χ2/dof = 38.9/41
N2ψ: 1004 ± 36
σ = 38 ± 1 MeV/c2
χ2/dof = 52.9/42
N2ψ: 956 ± 35
σ = 38 ± 1 MeV/c2
χ2/dof = 31.6/42
N2ψ: 1006 ± 35
σ = 38 ± 1 MeV/c2
χ2/dof = 166.4/41
1.2 < |y| < 1.6
6.5 < pT < 30 GeV/c
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c2)
Pull
mμμ (GeV/c2)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2559 ± 58
σ = 45 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.2 < |y| < 2.4
6.5 < 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 = 40.1/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 9413 ± 113
σ = 45 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.2 < |y| < 2.4
6.5 < 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 = 35.1/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2339 ± 55
σ = 45 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.2 < |y| < 2.4
6.5 < 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 = 40.4/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2232 ± 54
σ = 45 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.2 < |y| < 2.4
6.5 < 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 = 34.9/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2291 ± 54
σ = 45 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.2 < |y| < 2.4
6.5 < 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 = 82.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 8703 ± 144
σ = 52 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 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 = 49.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 30243 ± 325
σ = 52 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 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 = 59.3/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 6276 ± 133
σ = 52 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 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 = 55.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 7884 ± 135
σ = 52 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 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 = 78.7/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 7463 ± 134
σ = 52 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 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 = 121.3/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1409 ± 44
σ = 50 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
6.5 < 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 = 37.0/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 5273 ± 85
σ = 50 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
6.5 < 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 = 33.3/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1325 ± 42
σ = 50 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
6.5 < 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 = 37.8/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1260 ± 41
σ = 50 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
6.5 < 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 = 60.6/42
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1280 ± 41
σ = 50 ± 1 MeV/c²
L_{int} = 150 μb⁻¹
1.6 < |y| < 2.4
6.5 < 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 = 57.6/42