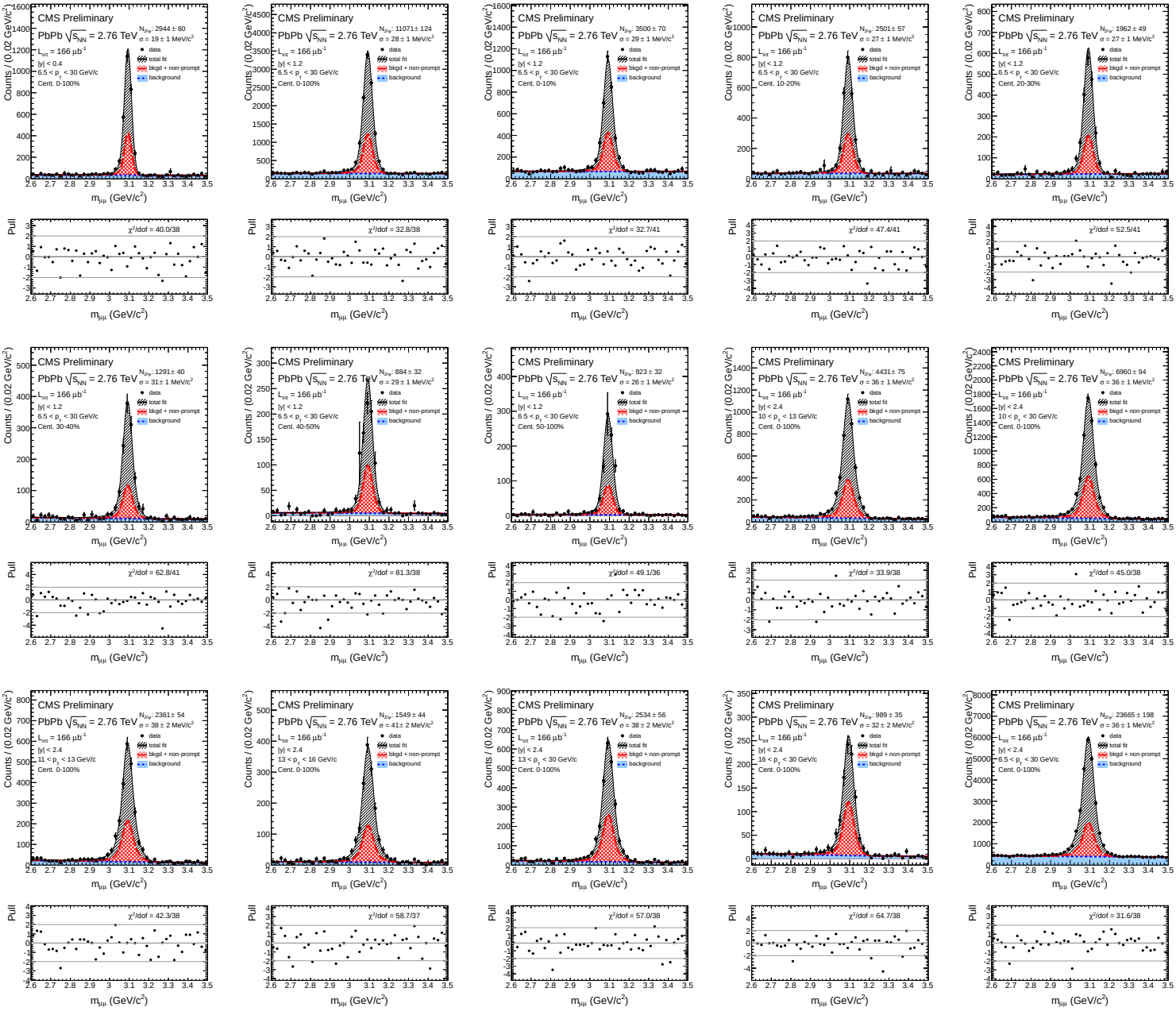
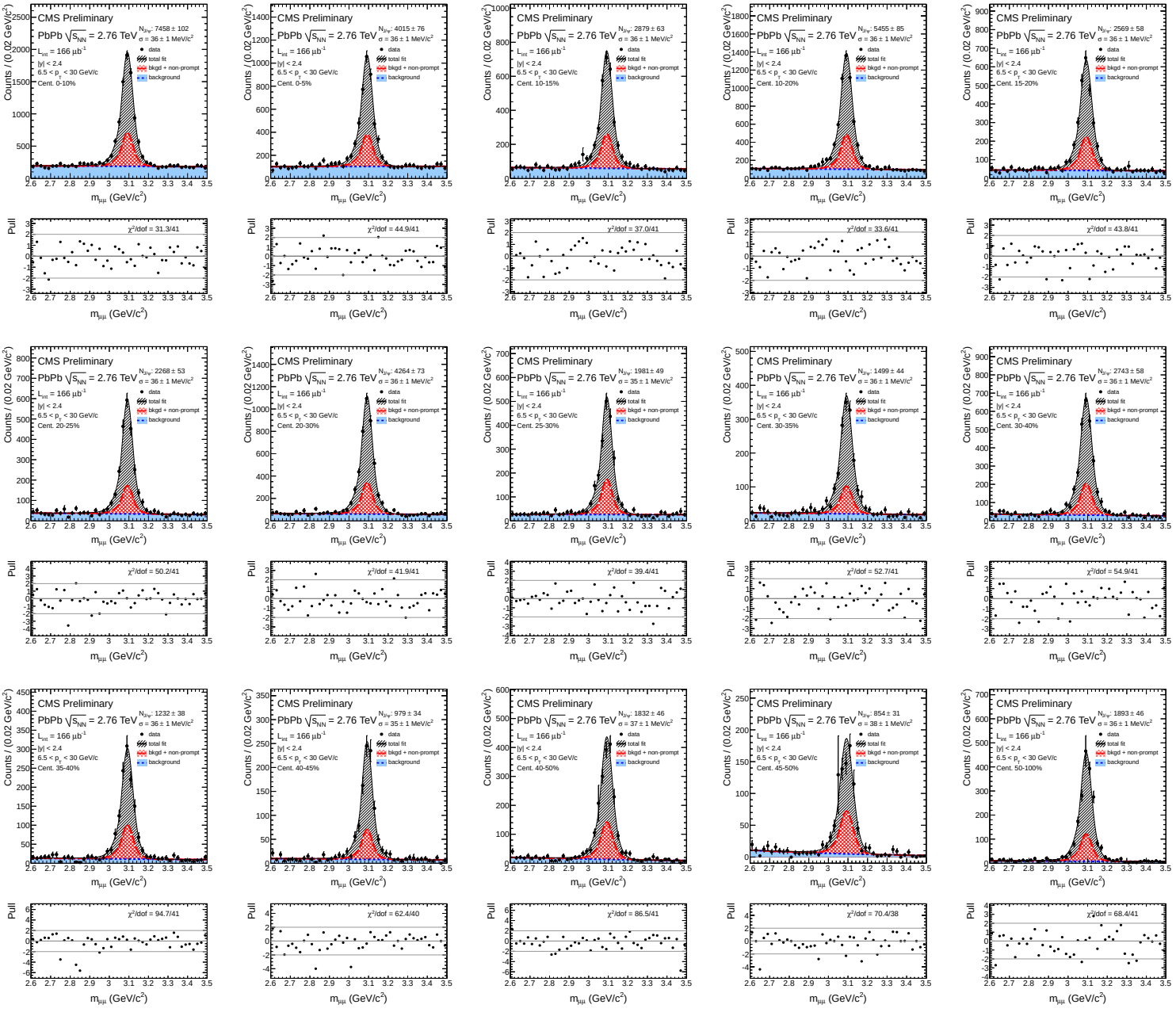
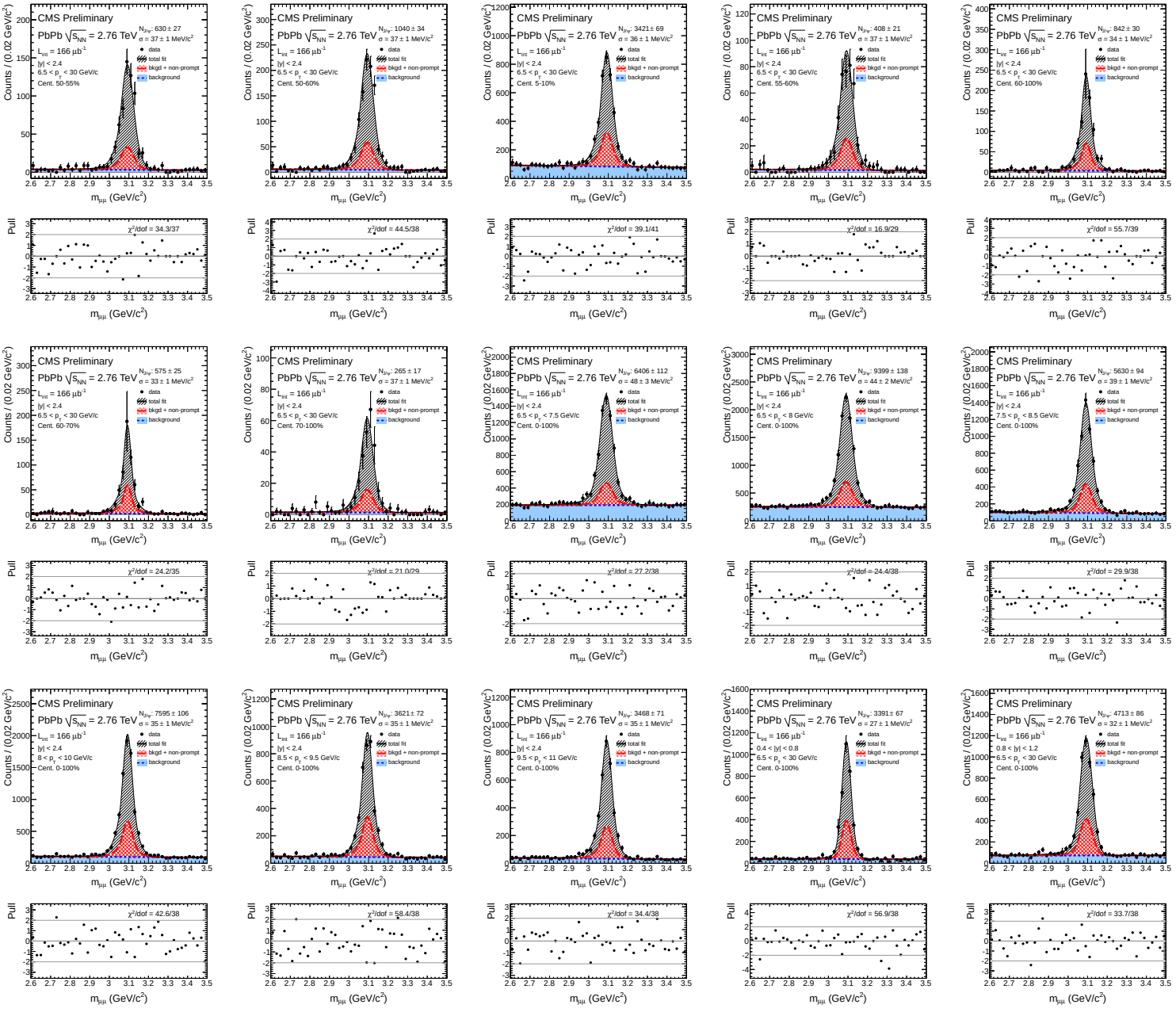
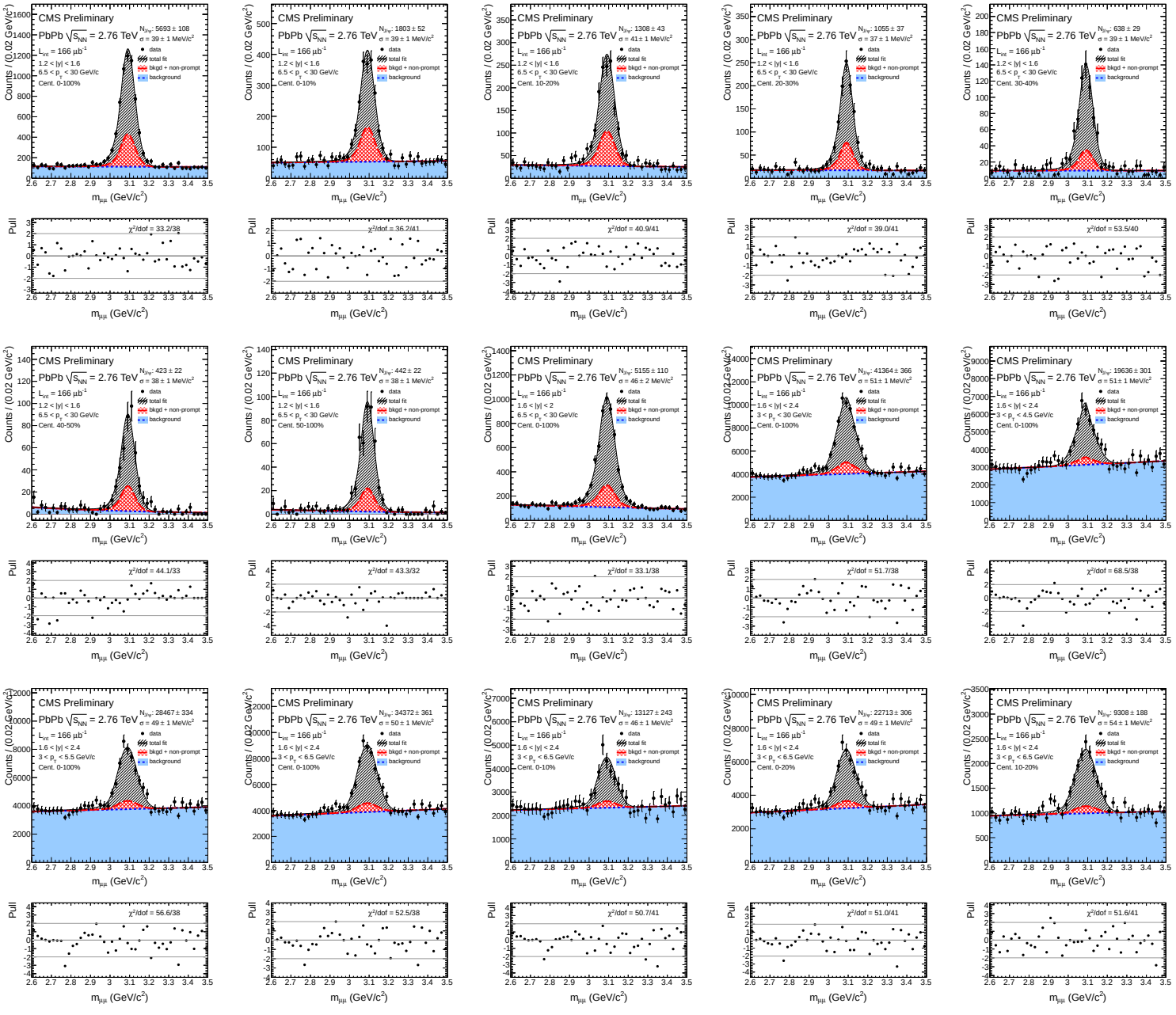
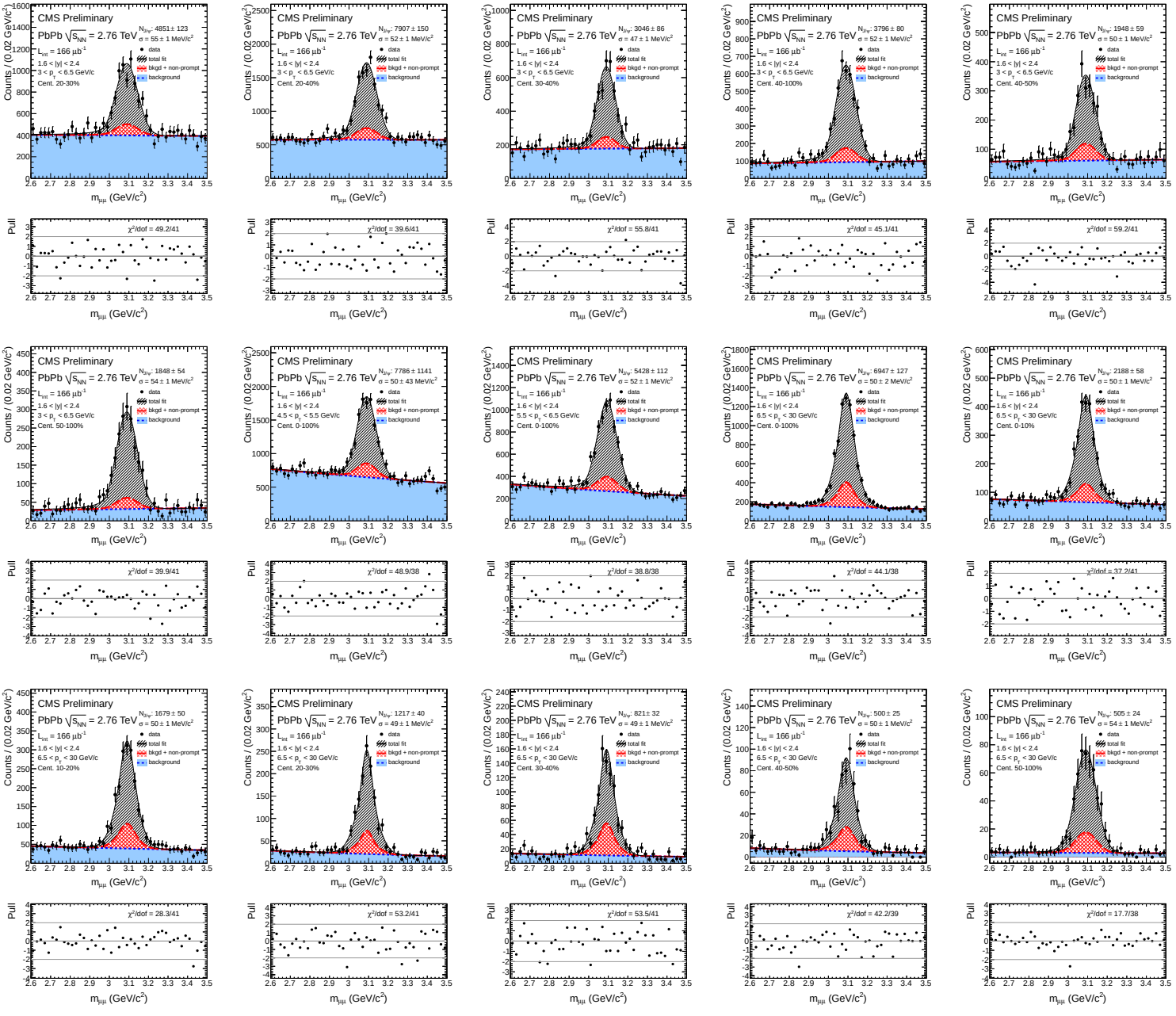
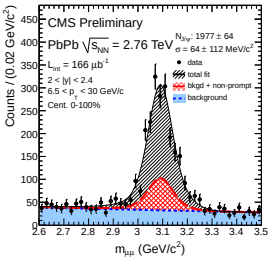

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2944 ± 60
σ = 19 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 0.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 40.0/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 11071 ± 124
σ = 28 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 32.8/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 3500 ± 70
σ = 29 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ²/dof = 32.7/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2501 ± 57
σ = 27 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 10-20%
χ²/dof = 47.4/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1962 ± 49
σ = 27 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 20-30%
χ²/dof = 52.5/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1291 ± 40
σ = 31 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 30-40%
χ²/dof = 62.8/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 884 ± 32
σ = 29 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 40-50%
χ²/dof = 81.3/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 923 ± 32
σ = 26 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 50-100%
χ²/dof = 49.1/36
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 4431 ± 75
σ = 36 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 0-100%
χ²/dof = 33.9/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 6960 ± 94
σ = 36 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
10 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 45.0/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2361 ± 54
σ = 38 ± 2 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
11 < p_T < 13 GeV/c
Cent. 0-100%
χ²/dof = 42.3/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1549 ± 44
σ = 41 ± 2 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
13 < p_T < 16 GeV/c
Cent. 0-100%
χ²/dof = 58.7/37
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 2534 ± 56
σ = 38 ± 2 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 57.0/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 989 ± 35
σ = 32 ± 2 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
16 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 64.7/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 23665 ± 198
σ = 36 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 31.6/38

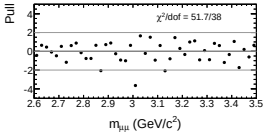

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 7458 ± 102
σ = 36 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ^2/dof = 31.3/41
$N_{J/\psi}$: 4015 ± 76
σ = 36 ± 1 MeV/c²
Cent. 0-5%
χ^2/dof = 44.9/41
$N_{J/\psi}$: 2879 ± 63
σ = 36 ± 1 MeV/c²
Cent. 10-15%
χ^2/dof = 37.0/41
$N_{J/\psi}$: 5455 ± 85
σ = 36 ± 1 MeV/c²
Cent. 10-20%
χ^2/dof = 33.6/41
$N_{J/\psi}$: 2569 ± 58
σ = 36 ± 1 MeV/c²
Cent. 15-20%
χ^2/dof = 43.8/41
$N_{J/\psi}$: 2268 ± 53
σ = 36 ± 1 MeV/c²
Cent. 20-25%
χ^2/dof = 50.2/41
$N_{J/\psi}$: 4264 ± 73
σ = 36 ± 1 MeV/c²
Cent. 20-30%
χ^2/dof = 41.9/41
$N_{J/\psi}$: 1981 ± 49
σ = 35 ± 1 MeV/c²
Cent. 25-30%
χ^2/dof = 39.4/41
$N_{J/\psi}$: 1499 ± 44
σ = 36 ± 1 MeV/c²
Cent. 30-35%
χ^2/dof = 52.7/41
$N_{J/\psi}$: 2743 ± 58
σ = 36 ± 1 MeV/c²
Cent. 30-40%
χ^2/dof = 54.9/41
$N_{J/\psi}$: 1232 ± 38
σ = 36 ± 1 MeV/c²
Cent. 35-40%
χ^2/dof = 94.7/41
$N_{J/\psi}$: 979 ± 34
σ = 35 ± 1 MeV/c²
Cent. 40-45%
χ^2/dof = 62.4/40
$N_{J/\psi}$: 1832 ± 46
σ = 37 ± 1 MeV/c²
Cent. 40-50%
χ^2/dof = 86.5/41
$N_{J/\psi}$: 854 ± 31
σ = 38 ± 1 MeV/c²
Cent. 45-50%
χ^2/dof = 70.4/38
$N_{J/\psi}$: 1893 ± 46
σ = 36 ± 1 MeV/c²
Cent. 50-100%
χ^2/dof = 68.4/41
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
Pull
$m_{\mu\mu}$ (GeV/c²)


CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 166 μb-1
|y| < 2.4
6.5 < pt < 30 GeV/c
Cent. 50-55%
NJ/ψ: 630 ± 27
σ = 37 ± 1 MeV/c2
χ2/dof = 34.3/37
Cent. 50-60%
NJ/ψ: 1040 ± 34
σ = 37 ± 1 MeV/c2
χ2/dof = 44.5/38
Cent. 5-10%
NJ/ψ: 3421 ± 69
σ = 36 ± 1 MeV/c2
χ2/dof = 39.1/41
Cent. 55-60%
NJ/ψ: 408 ± 21
σ = 37 ± 1 MeV/c2
χ2/dof = 16.9/29
Cent. 60-100%
NJ/ψ: 842 ± 30
σ = 34 ± 1 MeV/c2
χ2/dof = 55.7/39
Cent. 60-70%
NJ/ψ: 575 ± 25
σ = 33 ± 1 MeV/c2
χ2/dof = 24.2/35
Cent. 70-100%
NJ/ψ: 265 ± 17
σ = 37 ± 1 MeV/c2
χ2/dof = 21.0/29
Cent. 0-100%
NJ/ψ: 6406 ± 112
σ = 48 ± 3 MeV/c2
6.5 < pt < 7.5 GeV/c
χ2/dof = 27.2/38
Cent. 0-100%
NJ/ψ: 9399 ± 138
σ = 44 ± 2 MeV/c2
6.5 < pt < 8 GeV/c
χ2/dof = 24.4/38
Cent. 0-100%
NJ/ψ: 5630 ± 94
σ = 39 ± 1 MeV/c2
7.5 < pt < 8.5 GeV/c
χ2/dof = 29.9/38
Cent. 0-100%
NJ/ψ: 7595 ± 106
σ = 35 ± 1 MeV/c2
|y| < 2.4
8 < pt < 10 GeV/c
χ2/dof = 42.6/38
Cent. 0-100%
NJ/ψ: 3621 ± 72
σ = 35 ± 1 MeV/c2
8.5 < pt < 9.5 GeV/c
χ2/dof = 58.4/38
Cent. 0-100%
NJ/ψ: 3468 ± 71
σ = 35 ± 1 MeV/c2
9.5 < pt < 11 GeV/c
χ2/dof = 34.4/38
Cent. 0-100%
NJ/ψ: 3391 ± 67
σ = 27 ± 1 MeV/c2
0.4 < |y| < 0.8
6.5 < pt < 30 GeV/c
χ2/dof = 56.9/38
Cent. 0-100%
NJ/ψ: 4713 ± 86
σ = 32 ± 1 MeV/c2
0.8 < |y| < 1.2
6.5 < pt < 30 GeV/c
χ2/dof = 33.7/38
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
$N_{J/\psi}$: 5693 ± 108
σ = 39 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 0-100%
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)
Pull
χ²/dof = 33.2/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1803 ± 52
σ = 39 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ²/dof = 36.2/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1308 ± 43
σ = 41 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 10-20%
χ²/dof = 40.9/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1055 ± 37
σ = 37 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 20-30%
χ²/dof = 39.0/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 638 ± 29
σ = 39 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 30-40%
χ²/dof = 53.5/40
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 423 ± 22
σ = 38 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 40-50%
χ²/dof = 44.1/33
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 442 ± 22
σ = 38 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 50-100%
χ²/dof = 43.3/32
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 5155 ± 110
σ = 46 ± 2 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 33.1/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 41364 ± 366
σ = 51 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 30 GeV/c
Cent. 0-100%
χ²/dof = 51.7/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 19636 ± 301
σ = 51 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 4.5 GeV/c
Cent. 0-100%
χ²/dof = 68.5/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 28467 ± 334
σ = 49 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 5.5 GeV/c
Cent. 0-100%
χ²/dof = 56.6/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 34372 ± 361
σ = 50 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 0-100%
χ²/dof = 52.5/38
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 13127 ± 243
σ = 46 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 0-10%
χ²/dof = 50.7/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 22713 ± 306
σ = 49 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 0-20%
χ²/dof = 51.0/41
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 9308 ± 188
σ = 54 ± 1 MeV/c²
L_{int} = 166 μb⁻¹
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 10-20%
χ²/dof = 51.6/41


CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 166 μb-1
1.6 < |y| < 2.4
3 < pμ < 6.5 GeV/c
Cent. 20-30%
NJ/ψ: 4851 ± 123
σ = 55 ± 1 MeV/c2
Cent. 20-40%
NJ/ψ: 7907 ± 150
σ = 52 ± 1 MeV/c2
Cent. 30-40%
NJ/ψ: 3046 ± 86
σ = 47 ± 1 MeV/c2
Cent. 40-100%
NJ/ψ: 3796 ± 80
σ = 52 ± 1 MeV/c2
Cent. 40-50%
NJ/ψ: 1948 ± 59
σ = 50 ± 1 MeV/c2
Cent. 50-100%
NJ/ψ: 1848 ± 54
σ = 54 ± 1 MeV/c2
4.5 < pμ < 5.5 GeV/c
Cent. 0-100%
NJ/ψ: 7786 ± 1141
σ = 50 ± 43 MeV/c2
6.5 < pμ < 6.5 GeV/c
Cent. 0-100%
NJ/ψ: 5428 ± 112
σ = 52 ± 1 MeV/c2
6.5 < pμ < 30 GeV/c
Cent. 0-100%
NJ/ψ: 6947 ± 127
σ = 50 ± 2 MeV/c2
Cent. 0-10%
NJ/ψ: 2188 ± 58
σ = 50 ± 1 MeV/c2
Cent. 10-20%
NJ/ψ: 1679 ± 50
σ = 50 ± 1 MeV/c2
Cent. 20-30%
NJ/ψ: 1217 ± 40
σ = 49 ± 1 MeV/c2
Cent. 30-40%
NJ/ψ: 821 ± 32
σ = 49 ± 1 MeV/c2
Cent. 40-50%
NJ/ψ: 500 ± 25
σ = 50 ± 1 MeV/c2
Cent. 50-100%
NJ/ψ: 505 ± 24
σ = 54 ± 1 MeV/c2
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c2)
Pull
mμμ (GeV/c2)
χ2/dof = 49.2/41
χ2/dof = 39.6/41
χ2/dof = 55.8/41
χ2/dof = 45.1/41
χ2/dof = 59.2/41
χ2/dof = 39.9/41
χ2/dof = 48.9/38
χ2/dof = 38.8/38
χ2/dof = 44.1/38
χ2/dof = 37.2/41
χ2/dof = 28.3/41
χ2/dof = 53.2/41
χ2/dof = 53.5/41
χ2/dof = 42.2/39
χ2/dof = 17.7/38


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
$N_{J/\psi}$: 1977 ± 64
σ = 64 ± 112 MeV/c²
L_{int} = 166 μb⁻¹
2 < |y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
data
total fit
bkgd + non-prompt
background
Counts / (0.02 GeV/c²)
$m_{\mu\mu}$ (GeV/c²)


χ^2/dof = 51.7/38
Pull
$m_{\mu\mu}$ (GeV/c²)