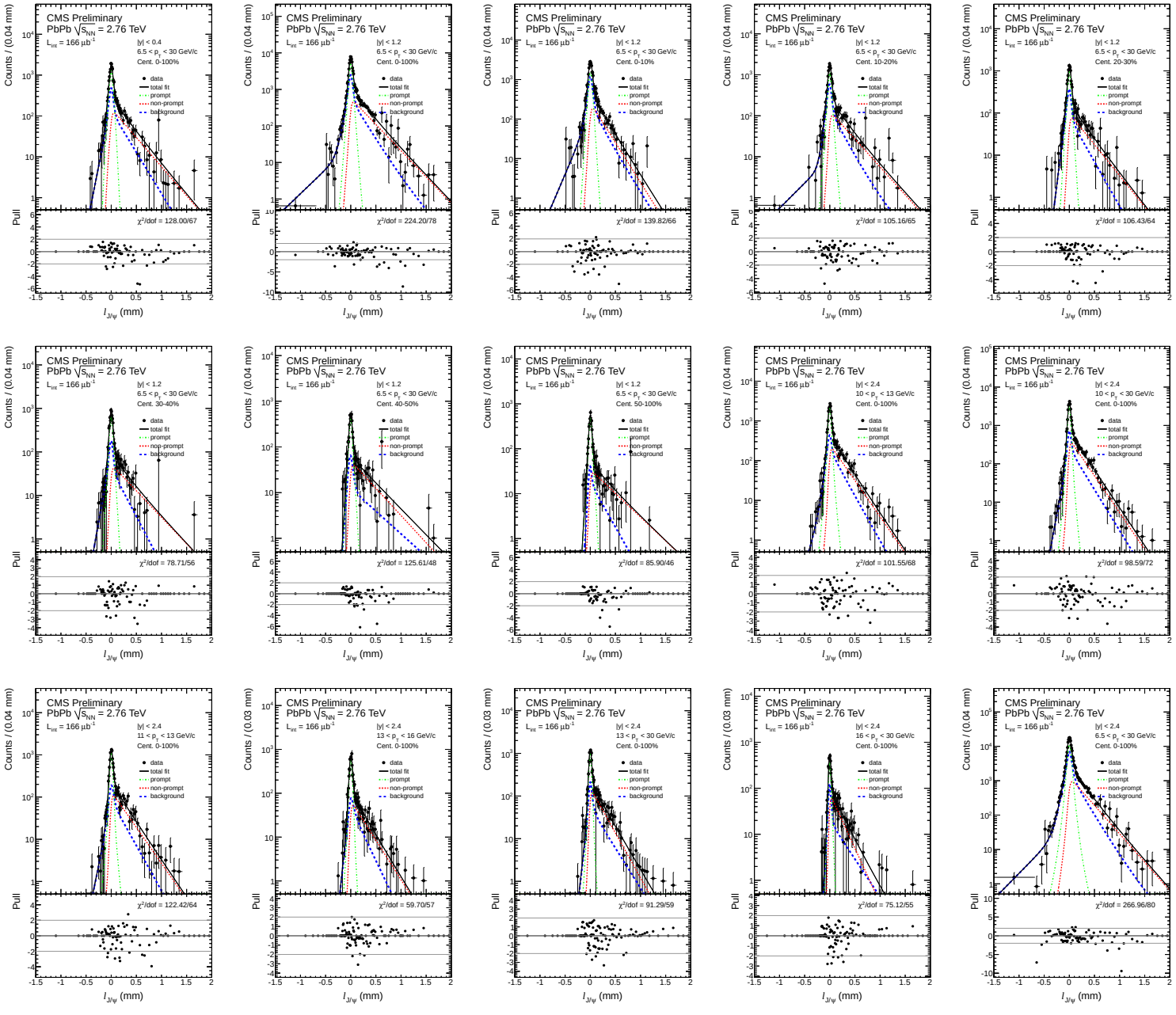
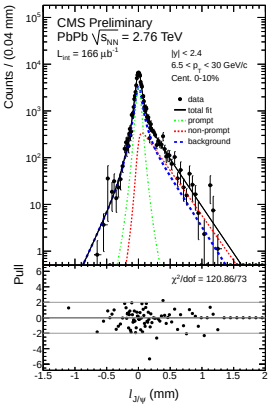
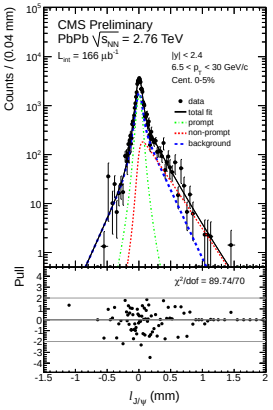
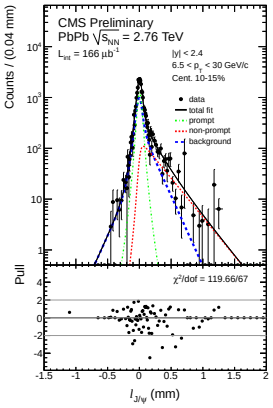
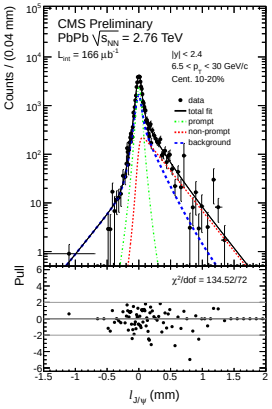
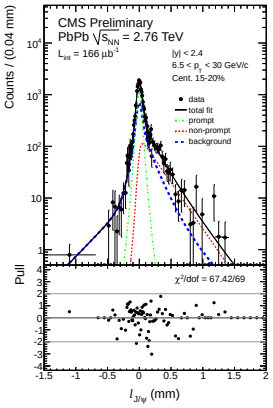

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 0.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 128.00/67
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 224.20/78
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ^2/dof = 139.82/66
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 10-20%
χ^2/dof = 105.16/65
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 20-30%
χ^2/dof = 106.43/64
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 30-40%
χ^2/dof = 78.71/56
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 40-50%
χ^2/dof = 125.61/48
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 50-100%
χ^2/dof = 85.90/46
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 0-100%
χ^2/dof = 101.55/68
|y| < 2.4
10 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 98.59/72
|y| < 2.4
11 < p_T < 13 GeV/c
Cent. 0-100%
χ^2/dof = 122.42/64
|y| < 2.4
13 < p_T < 16 GeV/c
Cent. 0-100%
χ^2/dof = 59.70/57
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 91.29/59
|y| < 2.4
16 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 75.12/55
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 266.96/80
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
$l_{J/\psi}$ (mm)

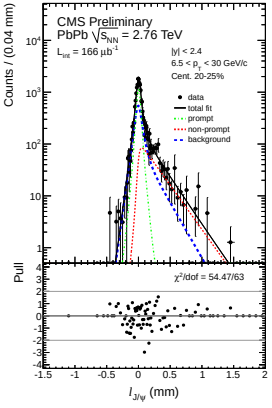

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 120.86/73
$l_{J/\psi}$ (mm)

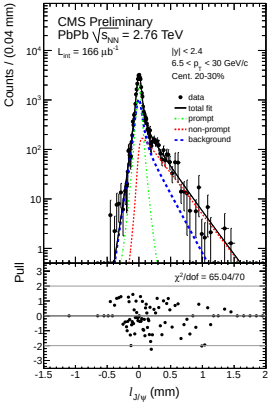

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-5%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 89.74/70
$l_{J/\psi}$ (mm)

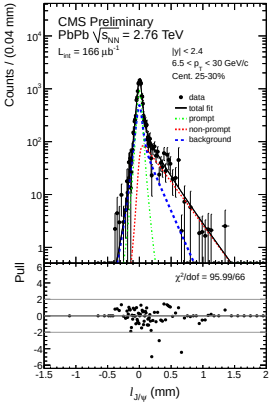

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-15%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 119.66/67
$l_{J/\psi}$ (mm)

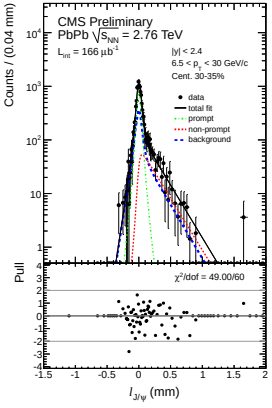

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 134.52/72
$l_{J/\psi}$ (mm)

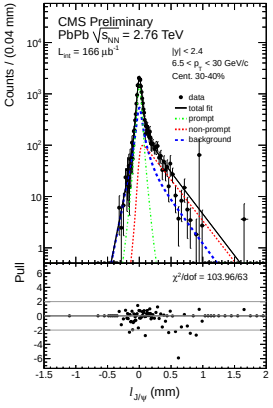

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 15-20%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 67.42/69
$l_{J/\psi}$ (mm)

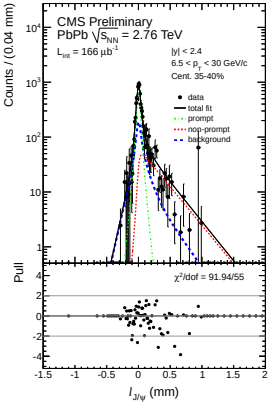

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-25%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 54.47/63
$l_{J/\psi}$ (mm)

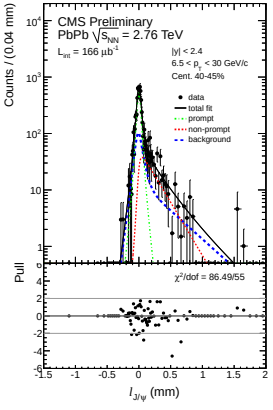

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 65.04/70
$l_{J/\psi}$ (mm)

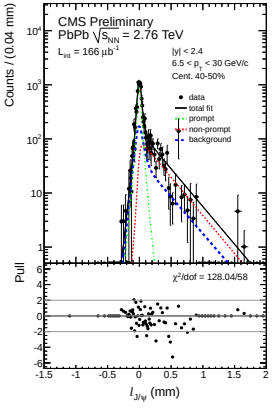

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 25-30%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 95.99/66
$l_{J/\psi}$ (mm)

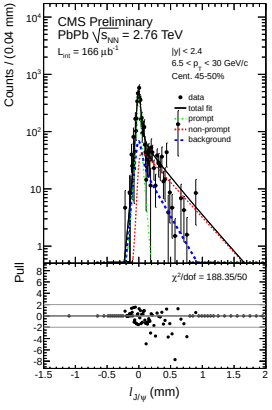

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-35%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 49.00/60
$l_{J/\psi}$ (mm)

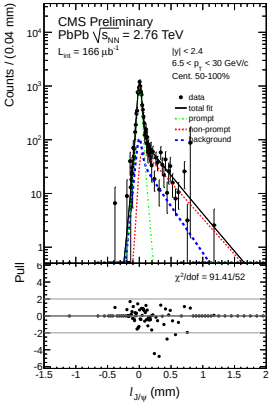

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-40%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 103.96/63
$l_{J/\psi}$ (mm)

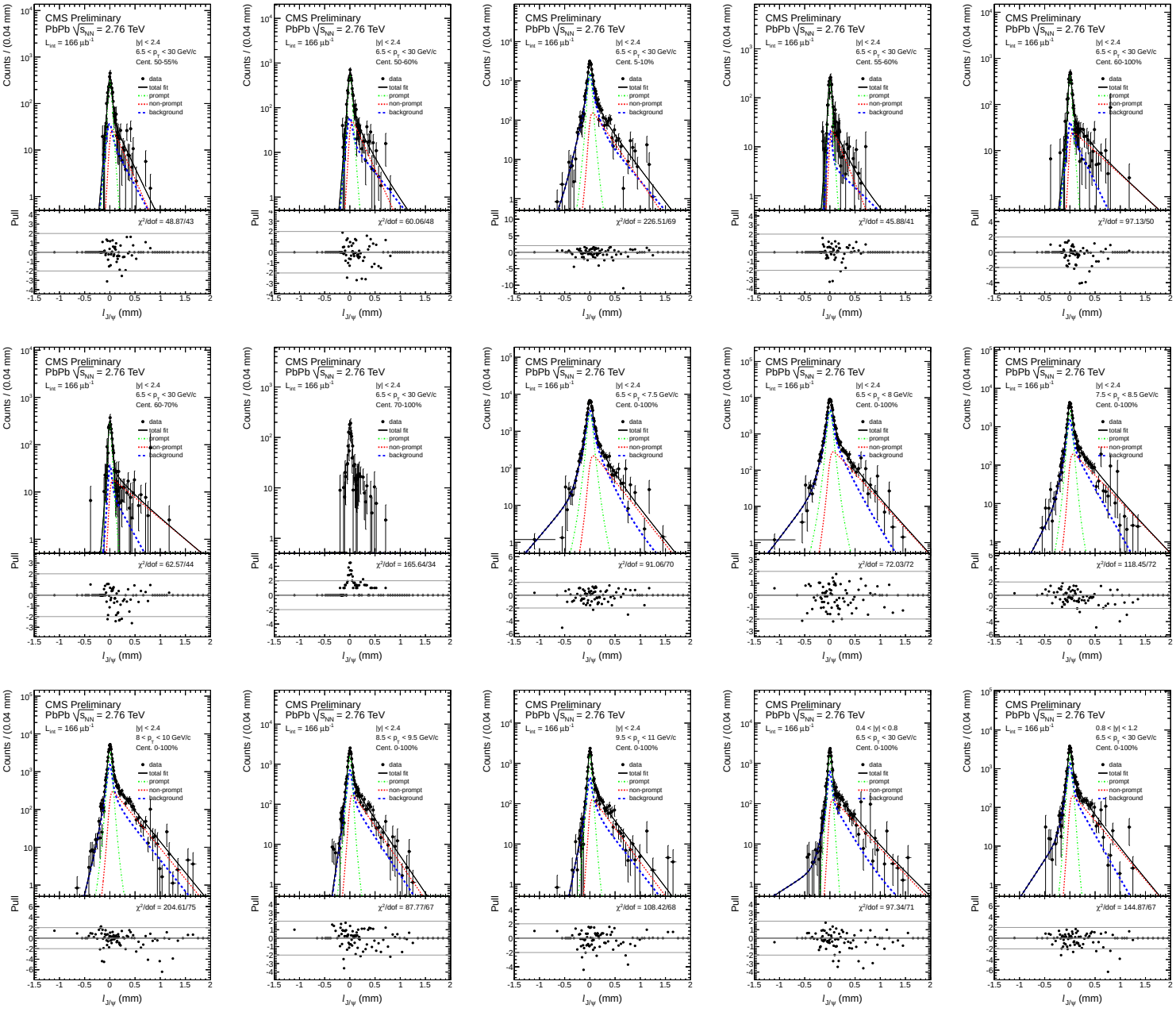

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 35-40%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 91.94/55
$l_{J/\psi}$ (mm)

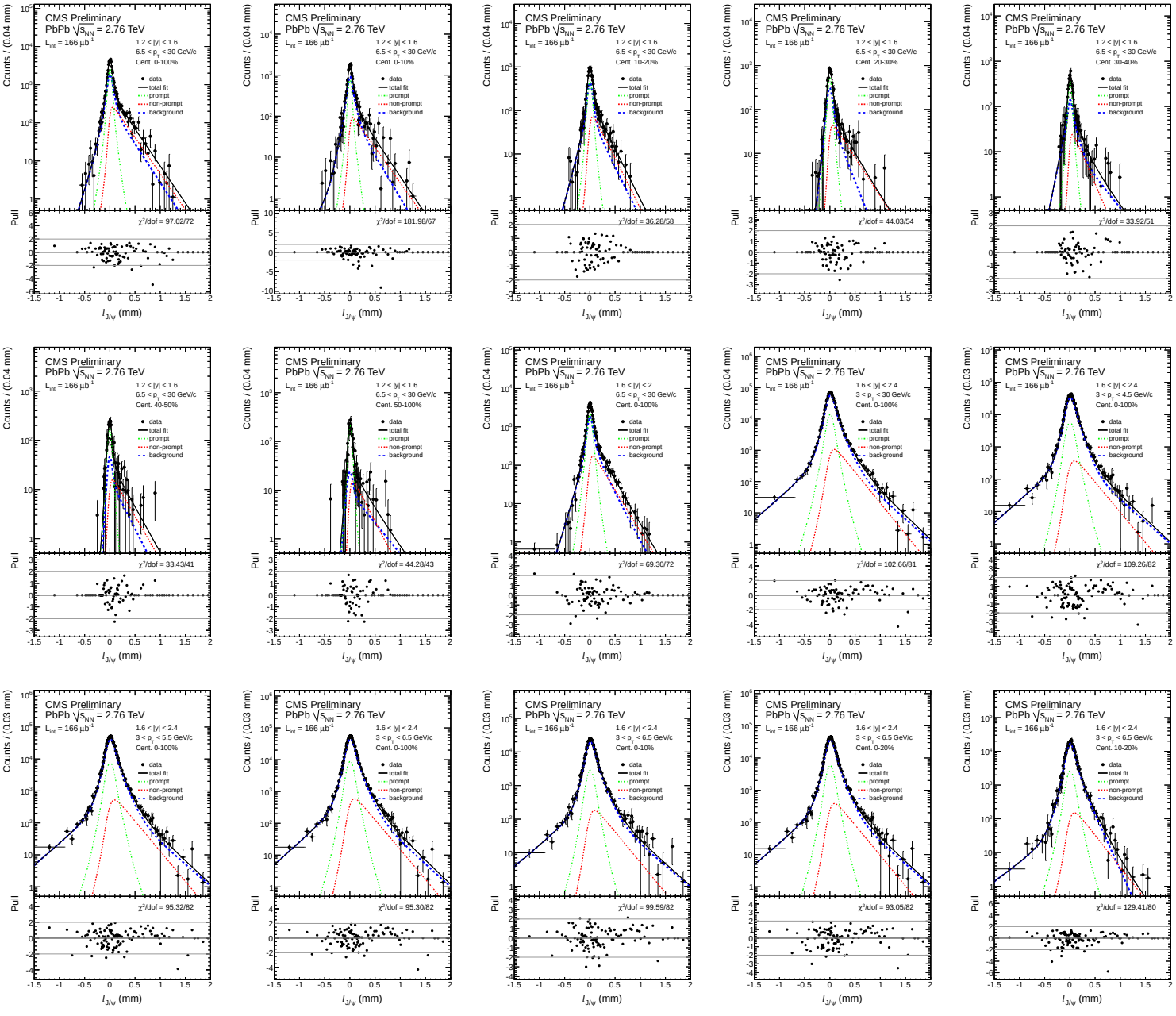

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 40-45%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 86.49/55
$l_{J/\psi}$ (mm)

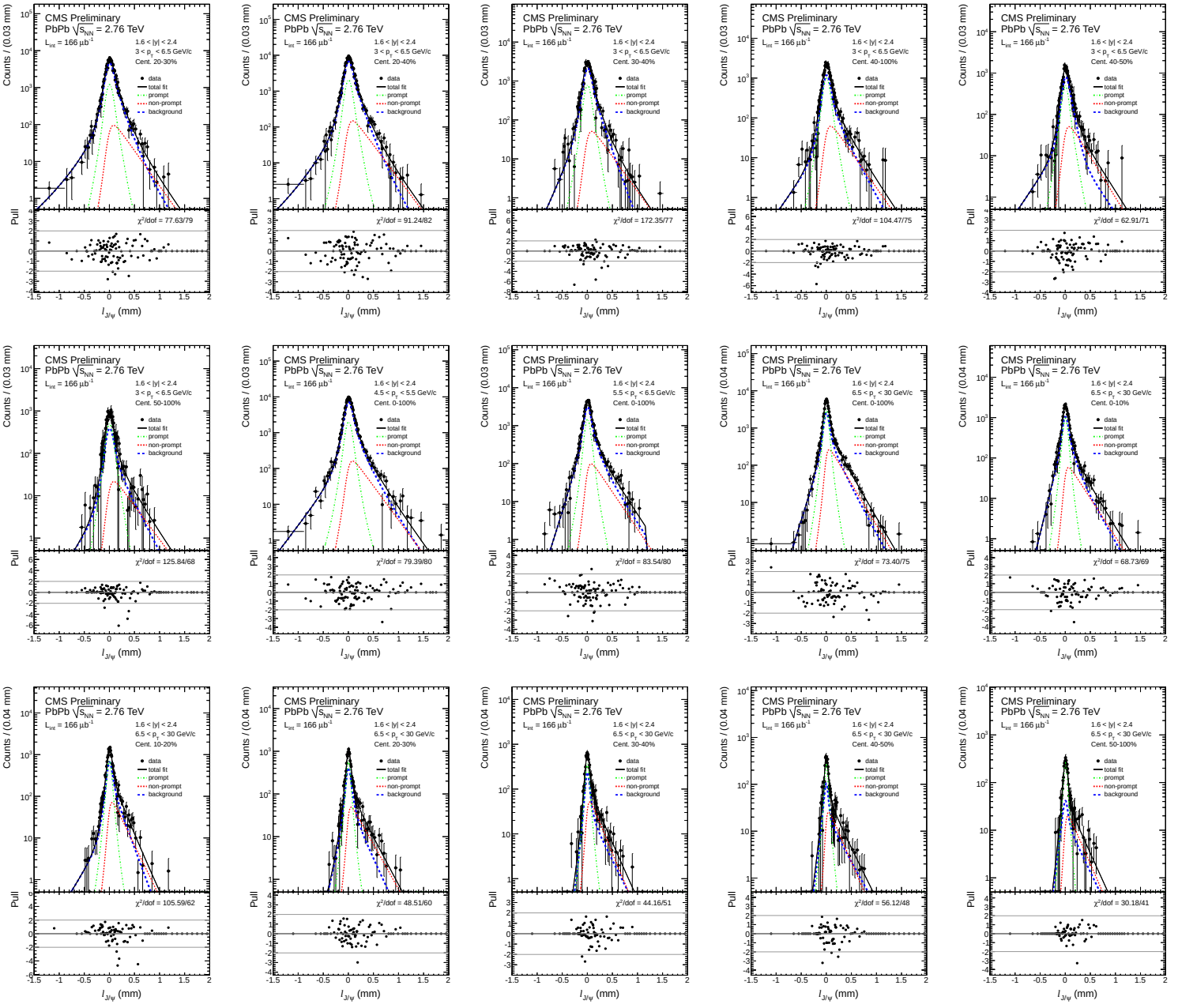

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 40-50%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 128.04/58
$l_{J/\psi}$ (mm)

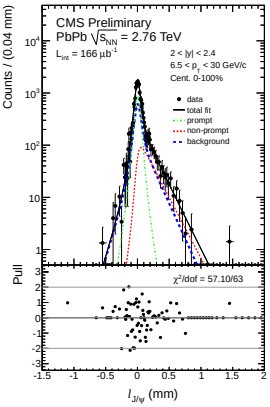

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 45-50%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 188.35/50
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 50-100%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 91.41/52
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 50-55%
χ^2/dof = 48.87/43
Cent. 50-60%
χ^2/dof = 60.06/48
Cent. 5-10%
χ^2/dof = 226.51/69
Cent. 55-60%
χ^2/dof = 45.88/41
Cent. 60-100%
χ^2/dof = 97.13/50
Cent. 60-70%
χ^2/dof = 62.57/44
Cent. 70-100%
χ^2/dof = 165.64/34
6.5 < p_T < 7.5 GeV/c
Cent. 0-100%
χ^2/dof = 91.06/70
6.5 < p_T < 8 GeV/c
Cent. 0-100%
χ^2/dof = 72.03/72
7.5 < p_T < 8.5 GeV/c
Cent. 0-100%
χ^2/dof = 118.45/72
8 < p_T < 10 GeV/c
Cent. 0-100%
χ^2/dof = 204.61/75
8.5 < p_T < 9.5 GeV/c
Cent. 0-100%
χ^2/dof = 87.77/67
9.5 < p_T < 11 GeV/c
Cent. 0-100%
χ^2/dof = 108.42/68
0.4 < |y| < 0.8
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 97.34/71
0.8 < |y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 144.87/67
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 97.02/72
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ^2/dof = 181.98/67
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 10-20%
χ^2/dof = 36.28/58
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 20-30%
χ^2/dof = 44.03/54
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 30-40%
χ^2/dof = 33.92/51
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 40-50%
χ^2/dof = 33.43/41
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 50-100%
χ^2/dof = 44.28/43
1.6 < |y| < 2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 69.30/72
1.6 < |y| < 2.4
3 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 102.66/81
1.6 < |y| < 2.4
3 < p_T < 4.5 GeV/c
Cent. 0-100%
χ^2/dof = 109.26/82
1.6 < |y| < 2.4
3 < p_T < 5.5 GeV/c
Cent. 0-100%
χ^2/dof = 95.32/82
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 0-100%
χ^2/dof = 95.30/82
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 0-10%
χ^2/dof = 99.59/82
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 0-20%
χ^2/dof = 93.05/82
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 10-20%
χ^2/dof = 129.41/80
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
$l_{J/\psi}$ (mm)


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%
χ2/dof = 77.63/79
3 < pμ < 6.5 GeV/c
Cent. 20-40%
χ2/dof = 91.24/82
3 < pμ < 6.5 GeV/c
Cent. 30-40%
χ2/dof = 172.35/77
3 < pμ < 6.5 GeV/c
Cent. 40-100%
χ2/dof = 104.47/75
3 < pμ < 6.5 GeV/c
Cent. 40-50%
χ2/dof = 62.91/71
3 < pμ < 6.5 GeV/c
Cent. 50-100%
χ2/dof = 125.84/68
4.5 < pμ < 5.5 GeV/c
Cent. 0-100%
χ2/dof = 79.39/80
5.5 < pμ < 6.5 GeV/c
Cent. 0-100%
χ2/dof = 83.54/80
6.5 < pμ < 30 GeV/c
Cent. 0-100%
χ2/dof = 73.40/75
6.5 < pμ < 30 GeV/c
Cent. 0-10%
χ2/dof = 68.73/69
6.5 < pμ < 30 GeV/c
Cent. 10-20%
χ2/dof = 105.59/62
6.5 < pμ < 30 GeV/c
Cent. 20-30%
χ2/dof = 48.51/60
6.5 < pμ < 30 GeV/c
Cent. 30-40%
χ2/dof = 44.16/51
6.5 < pμ < 30 GeV/c
Cent. 40-50%
χ2/dof = 56.12/48
6.5 < pμ < 30 GeV/c
Cent. 50-100%
χ2/dof = 30.18/41
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Counts / (0.04 mm)
Pull
l J/ψ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 166 μb^{-1}
2 < |y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 57.10/63
$l_{J/\psi}$ (mm)