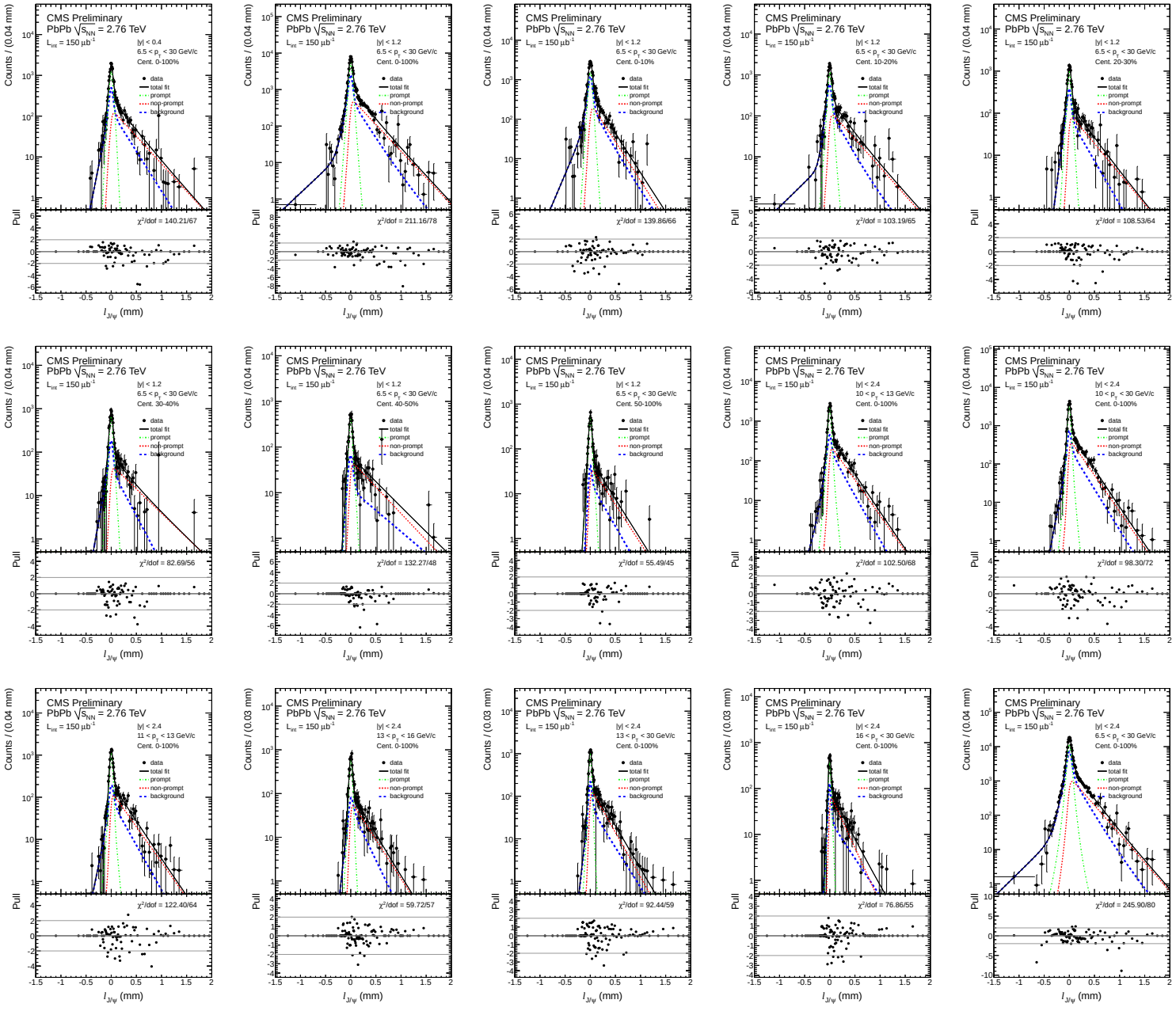
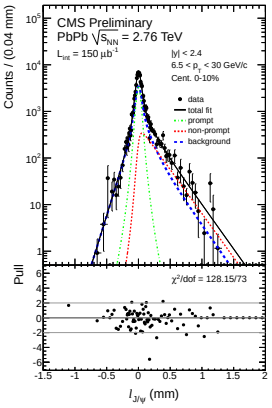
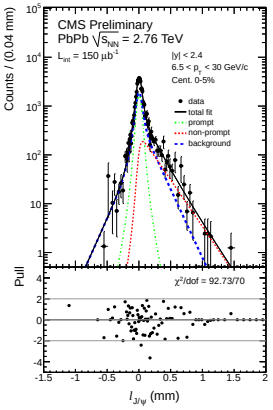
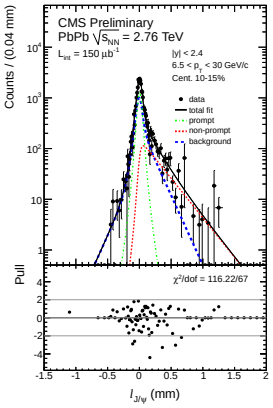
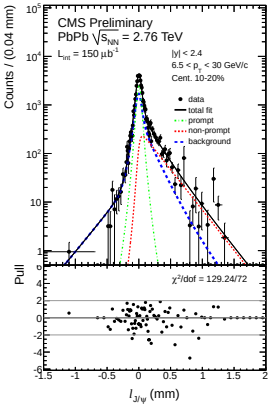
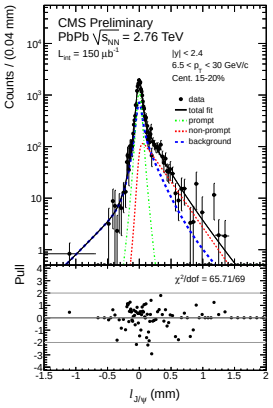

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 0.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 140.21/67
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 211.16/78
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ^2/dof = 139.86/66
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 10-20%
χ^2/dof = 103.19/65
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 20-30%
χ^2/dof = 108.53/64
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 30-40%
χ^2/dof = 82.69/56
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 40-50%
χ^2/dof = 132.27/48
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 50-100%
χ^2/dof = 55.49/45
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 0-100%
χ^2/dof = 102.50/68
|y| < 2.4
10 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 98.30/72
|y| < 2.4
11 < p_T < 13 GeV/c
Cent. 0-100%
χ^2/dof = 122.40/64
|y| < 2.4
13 < p_T < 16 GeV/c
Cent. 0-100%
χ^2/dof = 59.72/57
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 92.44/59
|y| < 2.4
16 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 76.86/55
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 245.90/80
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
$l_{J/\psi}$ (mm)

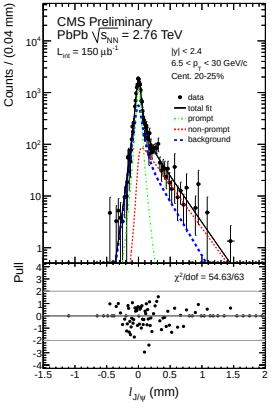

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
data
total fit
prompt
non-prompt
background
χ^2/dof = 128.15/73
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

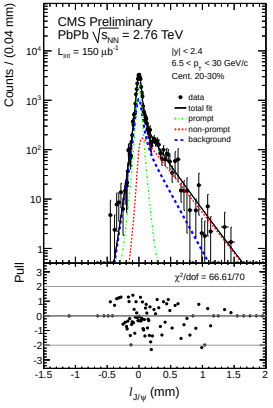

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-5%
data
total fit
prompt
non-prompt
background
χ^2/dof = 92.73/70
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

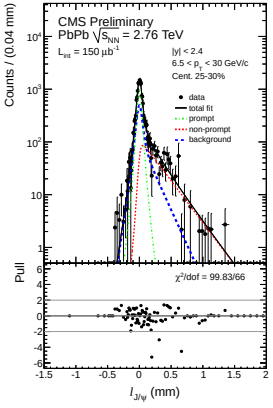

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-15%
data
total fit
prompt
non-prompt
background
χ^2/dof = 116.22/67
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

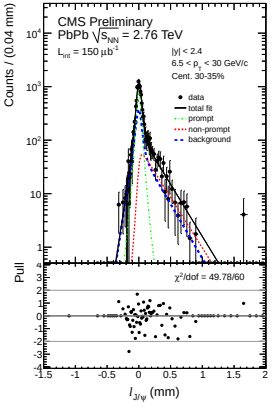

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
data
total fit
prompt
non-prompt
background
χ^2/dof = 129.24/72
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

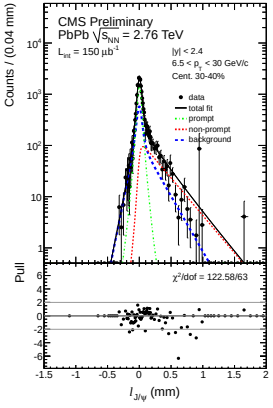

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 15-20%
data
total fit
prompt
non-prompt
background
χ^2/dof = 65.71/69
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

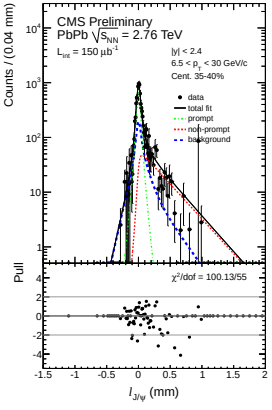

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-25%
data
total fit
prompt
non-prompt
background
χ^2/dof = 54.63/63
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

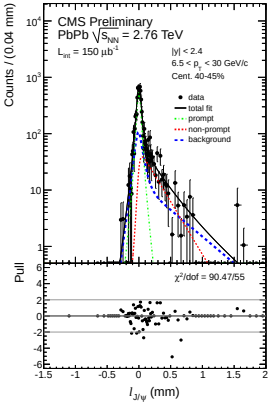

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 20-30%
data
total fit
prompt
non-prompt
background
χ^2/dof = 66.61/70
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

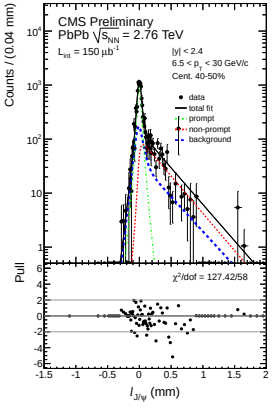

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 25-30%
data
total fit
prompt
non-prompt
background
χ^2/dof = 99.83/66
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

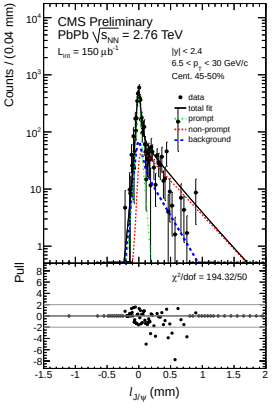

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-35%
data
total fit
prompt
non-prompt
background
χ^2/dof = 49.78/60
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

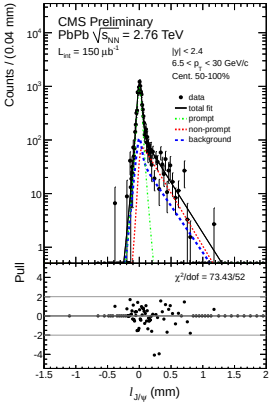

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 30-40%
data
total fit
prompt
non-prompt
background
χ^2/dof = 122.58/63
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

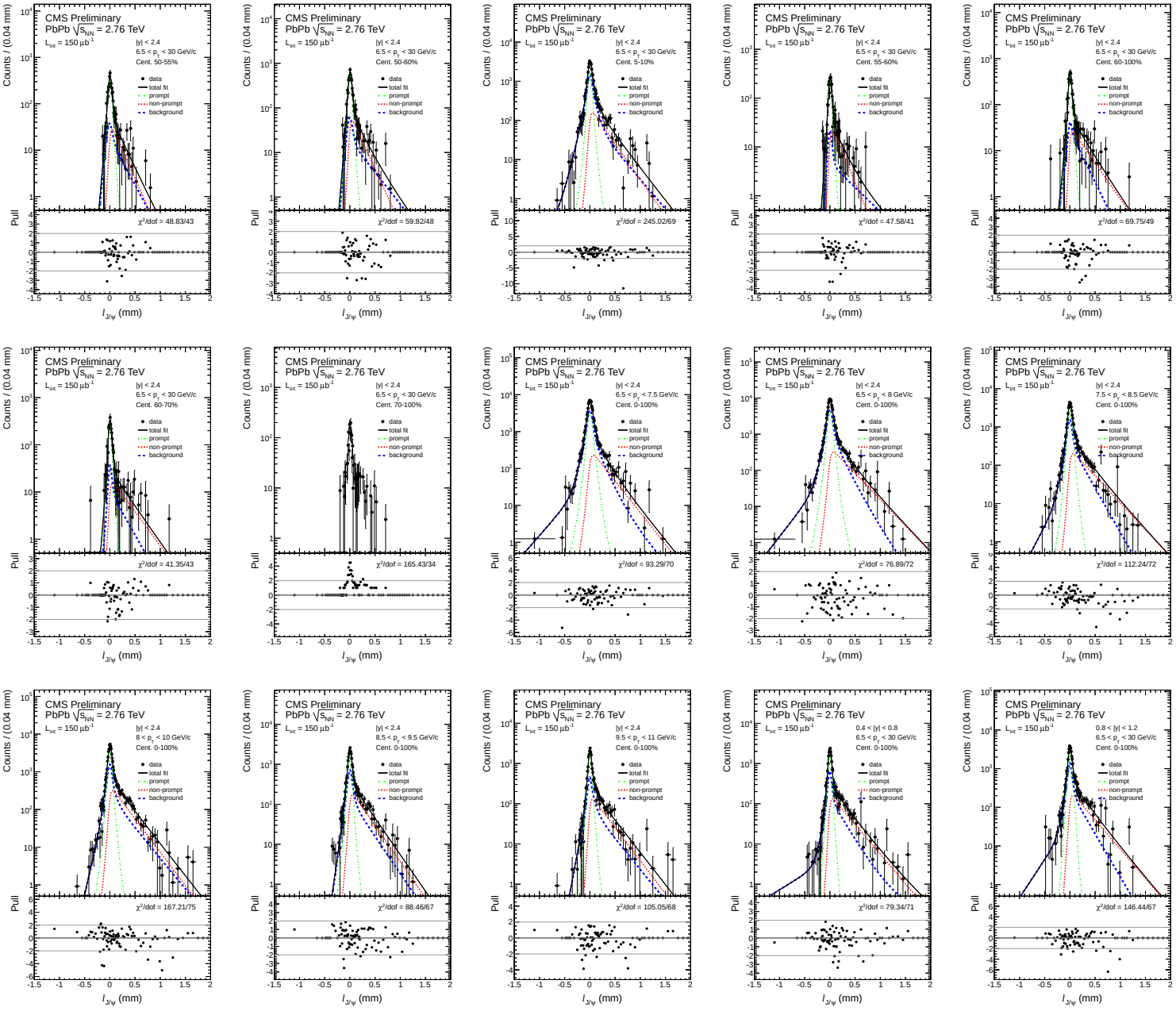

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 35-40%
data
total fit
prompt
non-prompt
background
χ^2/dof = 100.13/55
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

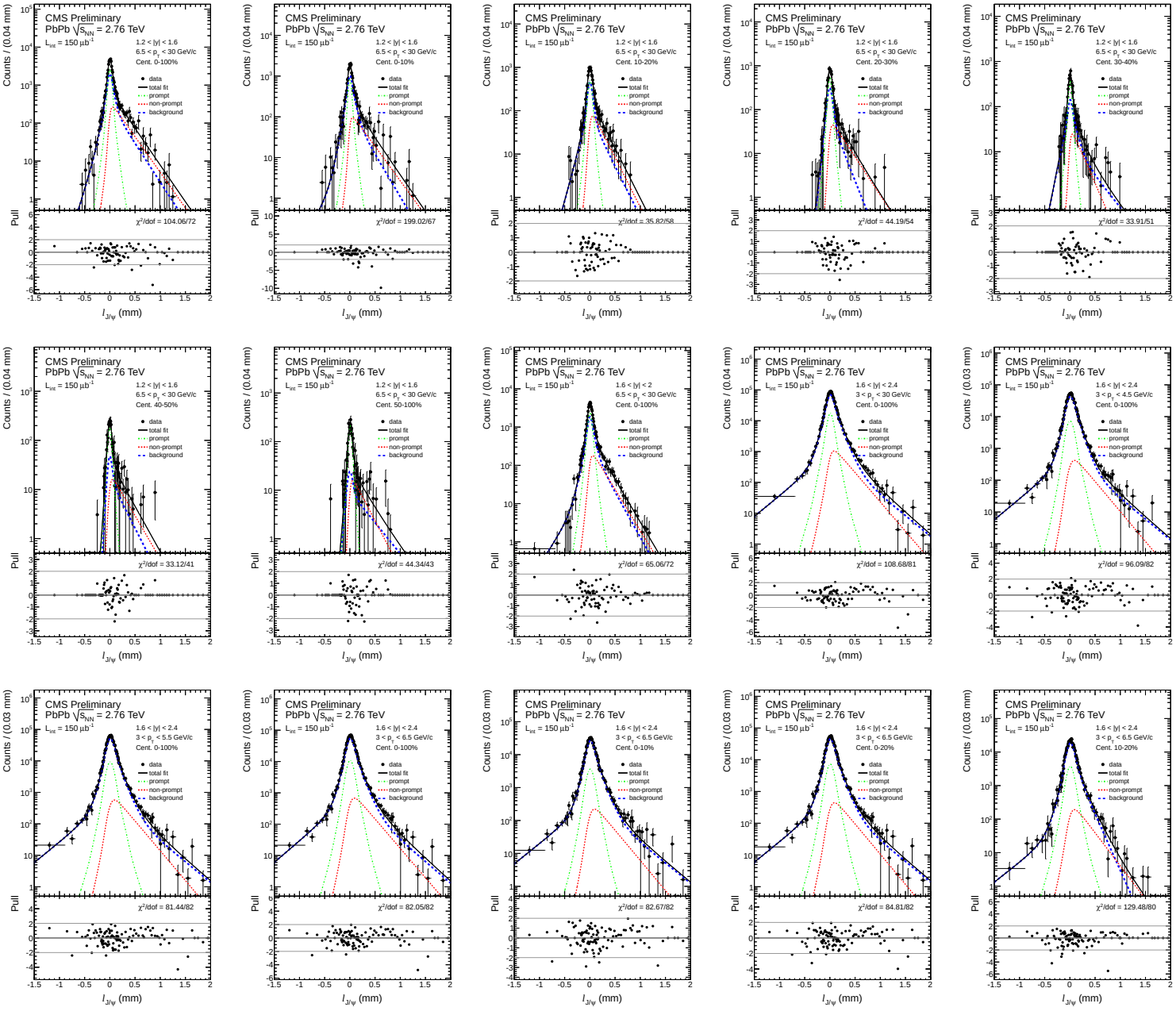

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 40-45%
data
total fit
prompt
non-prompt
background
χ^2/dof = 90.47/55
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

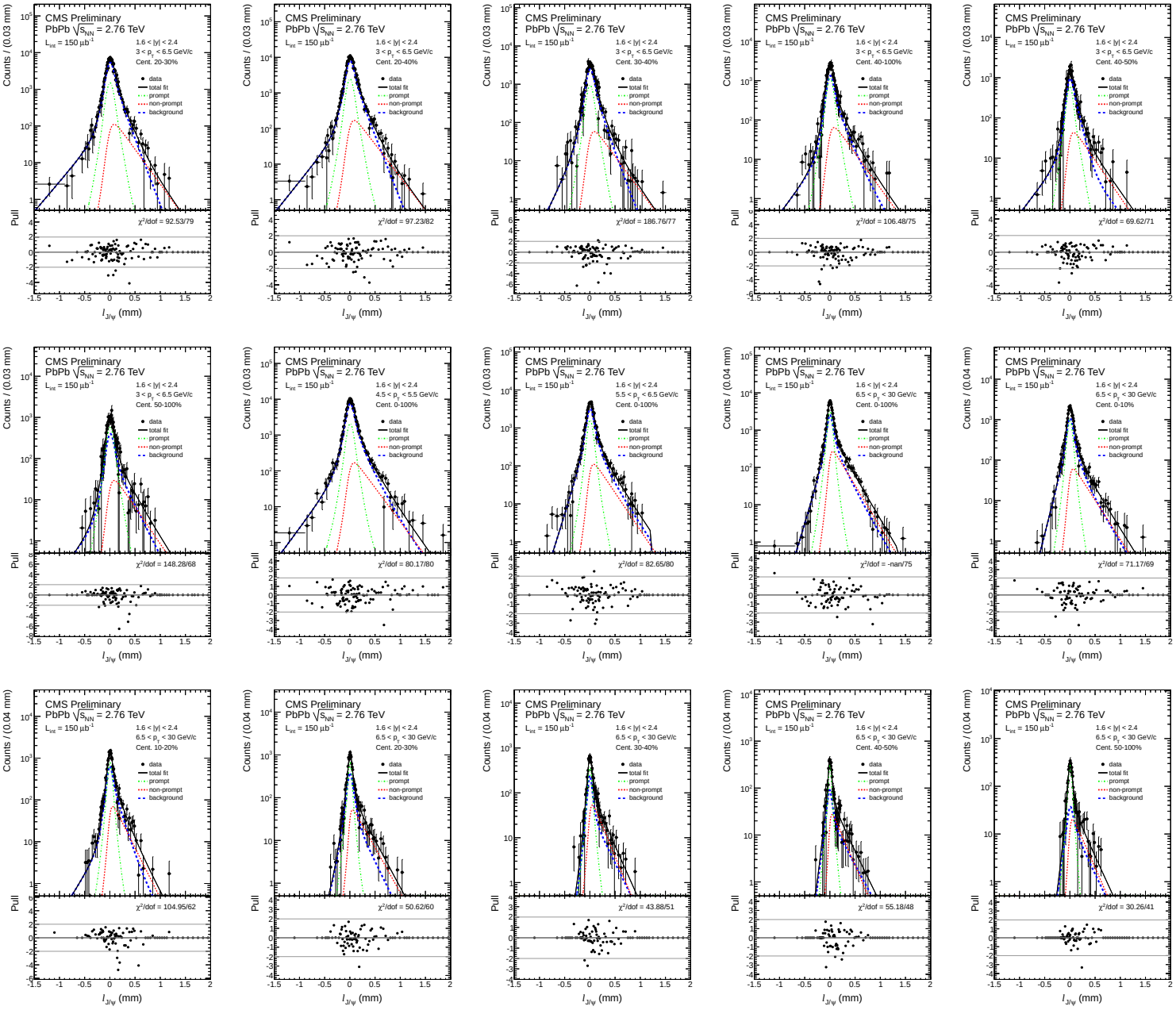

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 40-50%
data
total fit
prompt
non-prompt
background
χ^2/dof = 127.42/58
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)

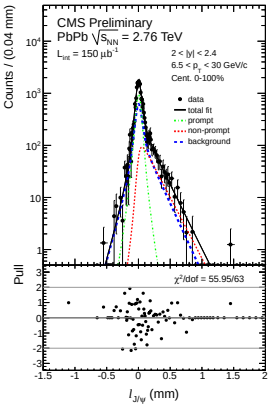

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 45-50%
data
total fit
prompt
non-prompt
background
χ^2/dof = 194.32/50
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 50-100%
data
total fit
prompt
non-prompt
background
χ^2/dof = 73.43/52
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 50-55%
χ^2/dof = 48.83/43
Cent. 50-60%
χ^2/dof = 59.82/48
Cent. 5-10%
χ^2/dof = 245.02/69
Cent. 55-60%
χ^2/dof = 47.58/41
Cent. 60-100%
χ^2/dof = 69.75/49
Cent. 60-70%
χ^2/dof = 41.35/43
Cent. 70-100%
χ^2/dof = 165.43/34
6.5 < p_T < 7.5 GeV/c
Cent. 0-100%
χ^2/dof = 93.29/70
6.5 < p_T < 8 GeV/c
Cent. 0-100%
χ^2/dof = 76.89/72
7.5 < p_T < 8.5 GeV/c
Cent. 0-100%
χ^2/dof = 112.24/72
8 < p_T < 10 GeV/c
Cent. 0-100%
χ^2/dof = 167.21/75
8.5 < p_T < 9.5 GeV/c
Cent. 0-100%
χ^2/dof = 88.46/67
9.5 < p_T < 11 GeV/c
Cent. 0-100%
χ^2/dof = 105.05/68
0.4 < |y| < 0.8
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 79.34/71
0.8 < |y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 146.44/67
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} = 150 μb^{-1}
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 0-100%
Cent. 0-10%
Cent. 10-20%
Cent. 20-30%
Cent. 30-40%
Cent. 40-50%
Cent. 50-100%
1.6 < |y| < 2
1.6 < |y| < 2.4
3 < p_T < 30 GeV/c
3 < p_T < 4.5 GeV/c
3 < p_T < 5.5 GeV/c
3 < p_T < 6.5 GeV/c
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
χ^2/dof = 104.06/72
χ^2/dof = 199.02/67
χ^2/dof = 35.82/58
χ^2/dof = 44.19/54
χ^2/dof = 33.91/51
χ^2/dof = 33.12/41
χ^2/dof = 44.34/43
χ^2/dof = 65.06/72
χ^2/dof = 108.68/81
χ^2/dof = 96.09/82
χ^2/dof = 81.44/82
χ^2/dof = 82.05/82
χ^2/dof = 82.67/82
χ^2/dof = 84.81/82
χ^2/dof = 129.48/80
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 20-30%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 92.53/79
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 20-40%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 97.23/82
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 30-40%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 186.76/77
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 40-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 106.48/75
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 40-50%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 69.62/71
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 50-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 148.28/68
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
4.5 < p_T < 5.5 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 80.17/80
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
5.5 < p_T < 6.5 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 82.65/80
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = -nan/75
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = 71.17/69
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = 104.95/62
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = 50.62/60
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = 43.88/51
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = 55.18/48
$l_{J/\psi}$ (mm)
CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |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 = 30.26/41
$l_{J/\psi}$ (mm)


CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 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 = 55.95/63
$l_{J/\psi}$ (mm)