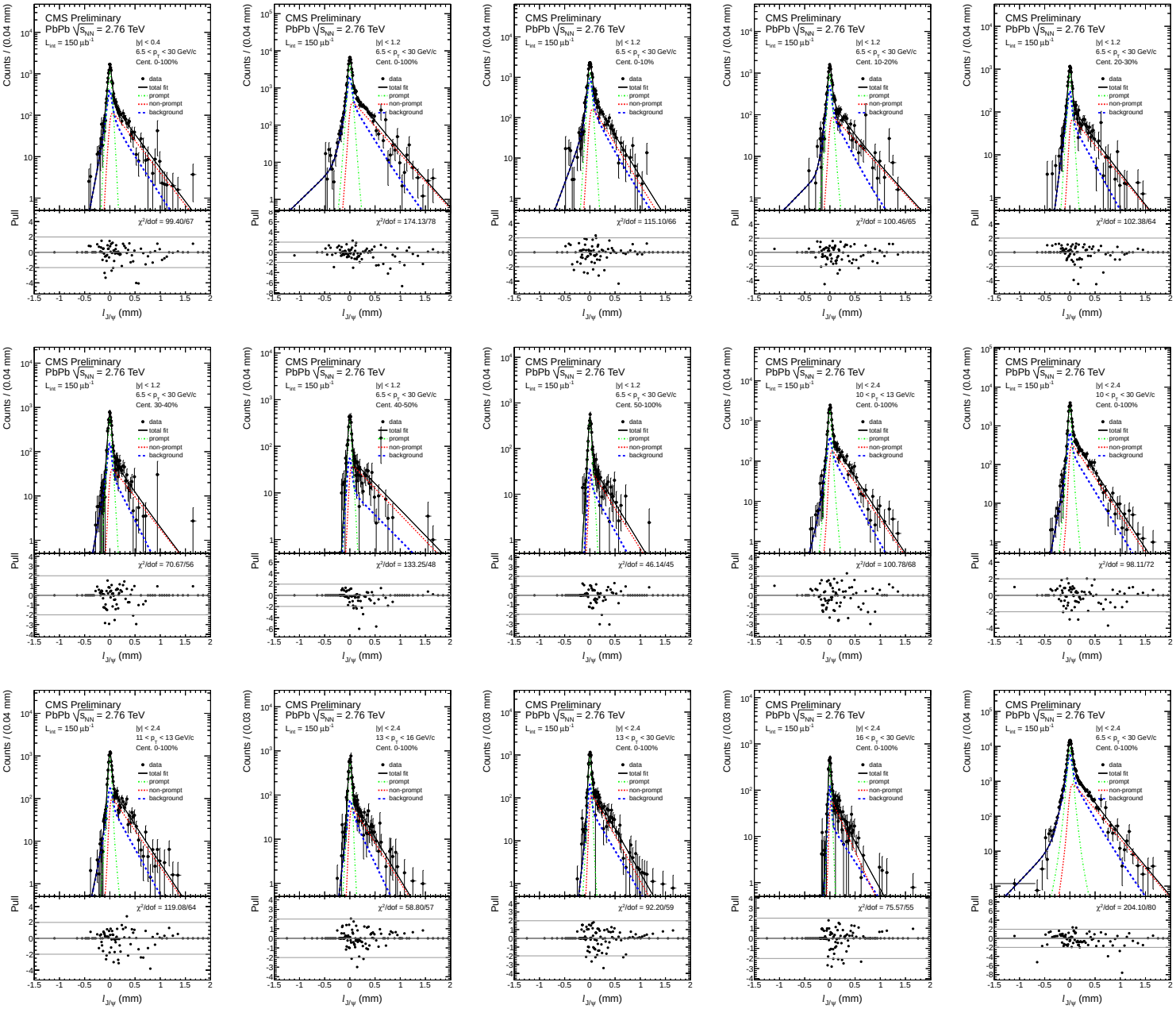
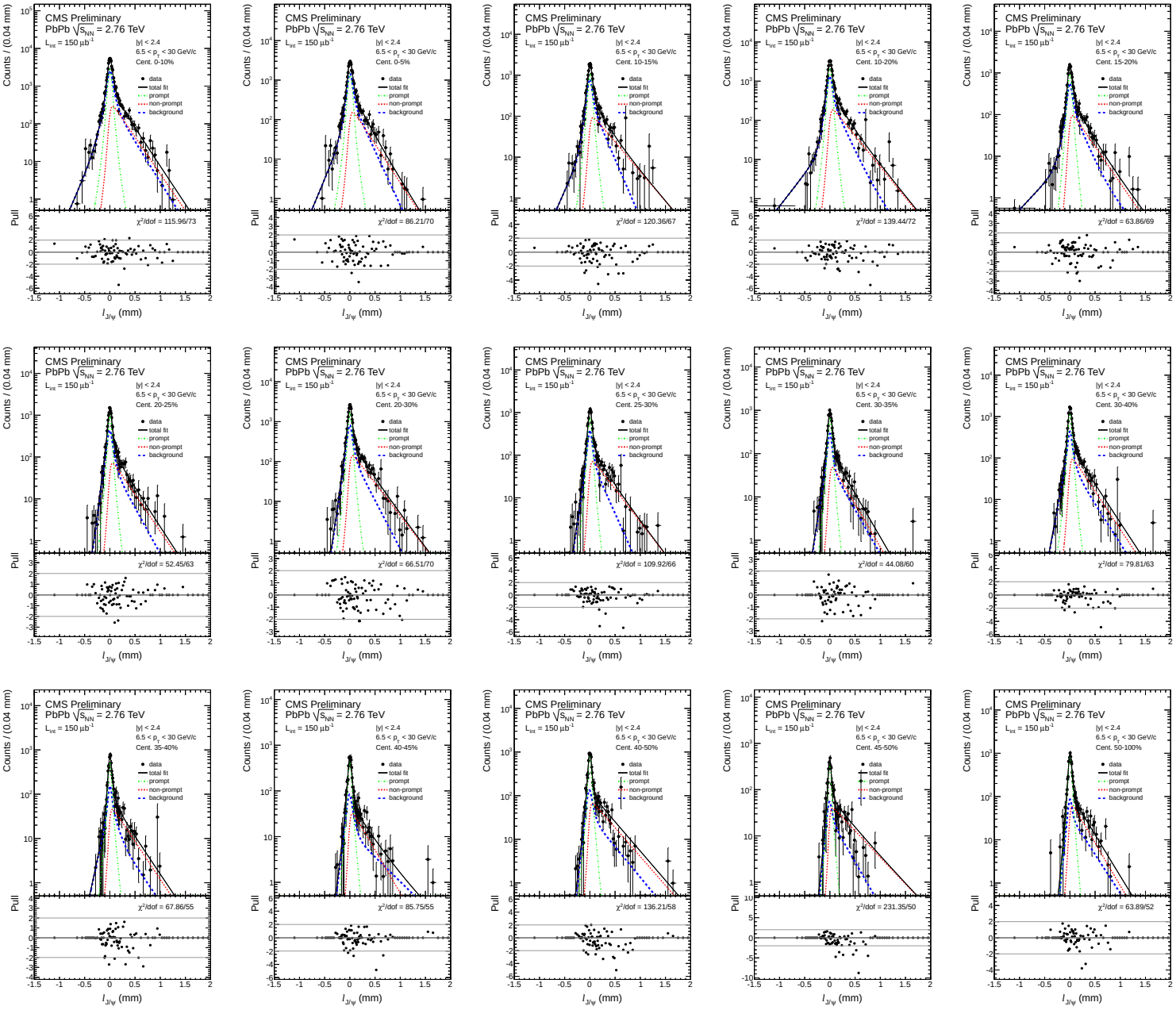
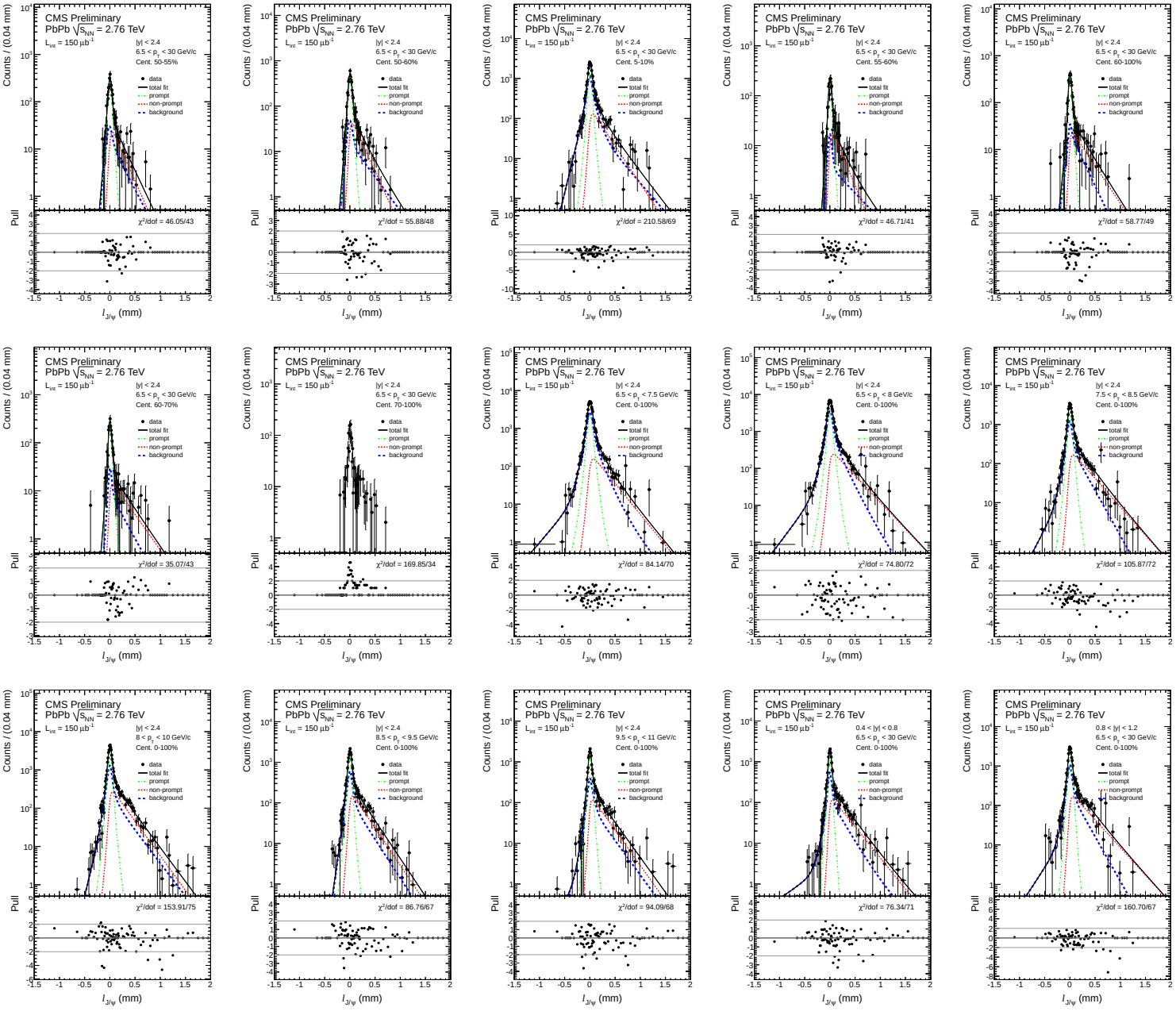
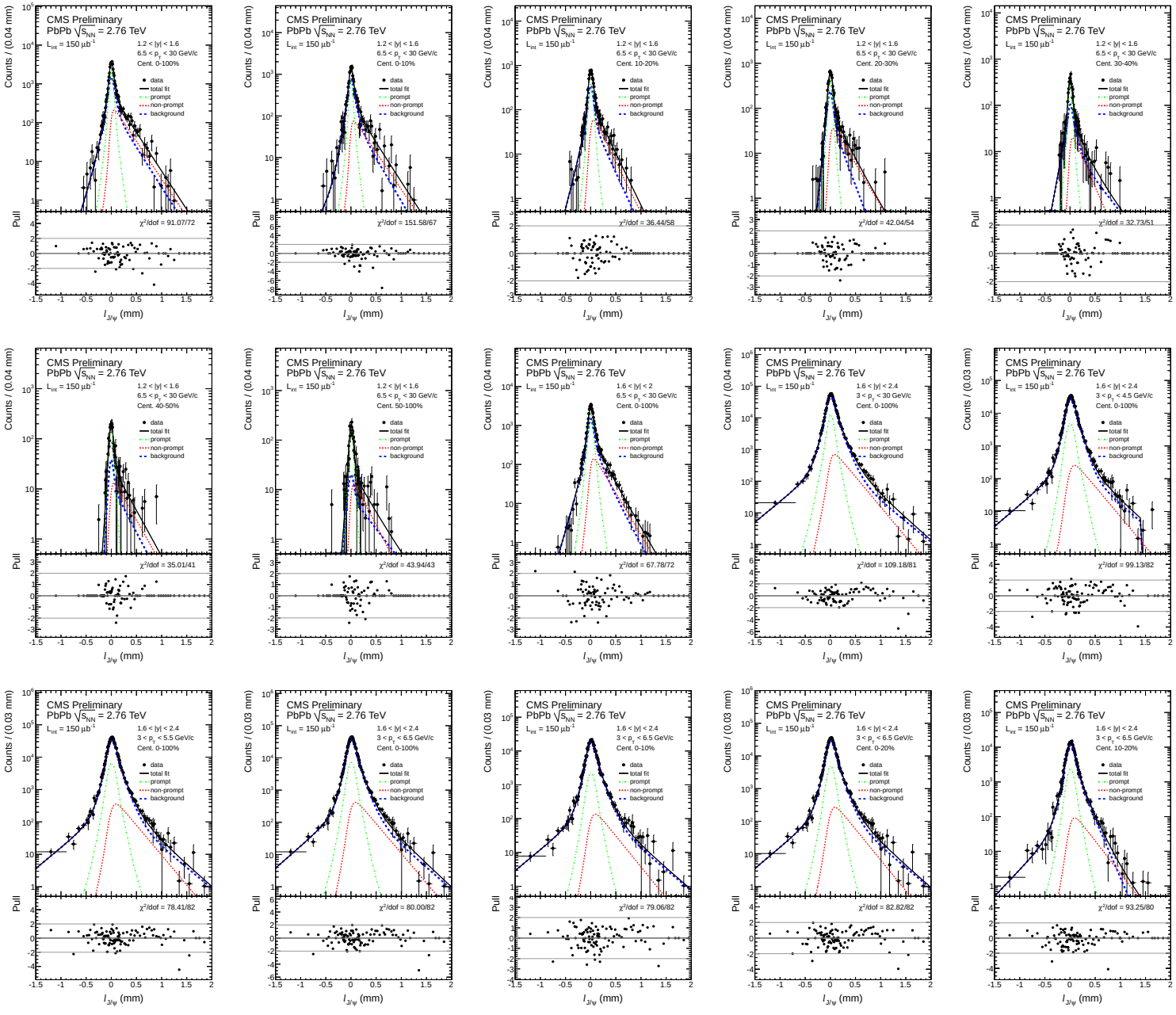
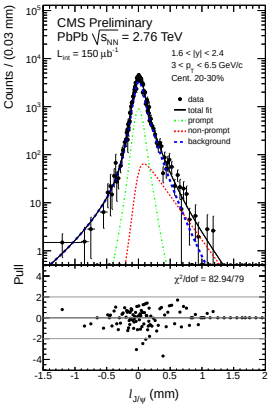
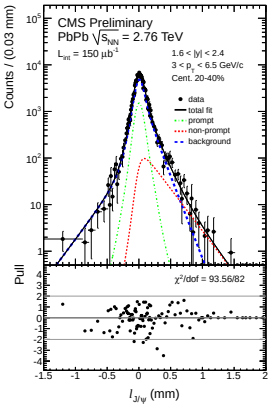

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 0.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 99.40/67
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 174.13/78
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 0-10%
χ^2/dof = 115.10/66
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 10-20%
χ^2/dof = 100.46/65
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 20-30%
χ^2/dof = 102.38/64
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 30-40%
χ^2/dof = 70.67/56
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 40-50%
χ^2/dof = 133.25/48
|y| < 1.2
6.5 < p_T < 30 GeV/c
Cent. 50-100%
χ^2/dof = 46.14/45
|y| < 2.4
10 < p_T < 13 GeV/c
Cent. 0-100%
χ^2/dof = 100.78/68
|y| < 2.4
10 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 98.11/72
|y| < 2.4
11 < p_T < 13 GeV/c
Cent. 0-100%
χ^2/dof = 119.08/64
|y| < 2.4
13 < p_T < 16 GeV/c
Cent. 0-100%
χ^2/dof = 58.80/57
|y| < 2.4
13 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 92.20/59
|y| < 2.4
16 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 75.57/55
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 204.10/80
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
$l_{J/\psi}$ (mm)

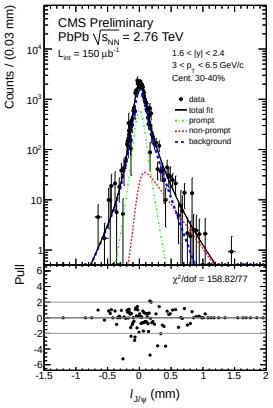

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
Cent. 0-5%
Cent. 10-15%
Cent. 15-20%
Cent. 20-25%
Cent. 20-30%
Cent. 25-30%
Cent. 30-35%
Cent. 30-40%
Cent. 35-40%
Cent. 40-45%
Cent. 40-50%
Cent. 45-50%
Cent. 50-100%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
$l_{J/\psi}$ (mm)
χ^2/dof = 115.96/73
χ^2/dof = 86.21/70
χ^2/dof = 120.36/67
χ^2/dof = 139.44/72
χ^2/dof = 63.86/69
χ^2/dof = 52.45/63
χ^2/dof = 66.51/70
χ^2/dof = 109.92/66
χ^2/dof = 44.08/60
χ^2/dof = 79.81/63
χ^2/dof = 67.86/55
χ^2/dof = 85.75/55
χ^2/dof = 136.21/58
χ^2/dof = 231.35/50
χ^2/dof = 63.89/52

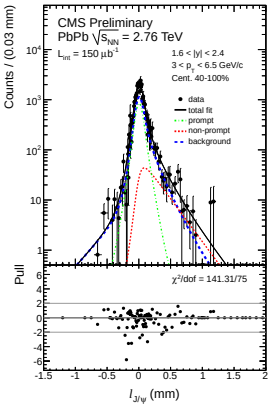

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pμ < 30 GeV/c
Cent. 50-55%
χ2/dof = 46.05/43
Cent. 50-60%
χ2/dof = 55.88/48
Cent. 5-10%
χ2/dof = 210.58/69
Cent. 55-60%
χ2/dof = 46.71/41
Cent. 60-100%
χ2/dof = 58.77/49
Cent. 60-70%
χ2/dof = 35.07/43
Cent. 70-100%
χ2/dof = 169.85/34
Cent. 0-100%
6.5 < pμ < 7.5 GeV/c
χ2/dof = 84.14/70
6.5 < pμ < 8 GeV/c
χ2/dof = 74.80/72
7.5 < pμ < 8.5 GeV/c
χ2/dof = 105.87/72
8 < pμ < 10 GeV/c
χ2/dof = 153.91/75
8.5 < pμ < 9.5 GeV/c
χ2/dof = 86.76/67
9.5 < pμ < 11 GeV/c
χ2/dof = 94.09/68
0.4 < |y| < 0.8
6.5 < pμ < 30 GeV/c
χ2/dof = 76.34/71
0.8 < |y| < 1.2
6.5 < pμ < 30 GeV/c
χ2/dof = 160.70/67
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
l J/ψ (mm)

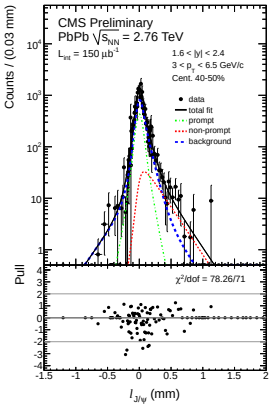

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.2 < |y| < 1.6
6.5 < p_T < 30 GeV/c
Cent. 0-100%
Cent. 0-10%
Cent. 10-20%
Cent. 20-30%
Cent. 30-40%
Cent. 40-50%
Cent. 50-100%
1.6 < |y| < 2
1.6 < |y| < 2.4
3 < p_T < 30 GeV/c
3 < p_T < 4.5 GeV/c
3 < p_T < 5.5 GeV/c
3 < p_T < 6.5 GeV/c
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
$l_{J/\psi}$ (mm)
χ^2/dof = 91.07/72
χ^2/dof = 151.58/67
χ^2/dof = 36.44/58
χ^2/dof = 42.04/54
χ^2/dof = 32.73/51
χ^2/dof = 35.01/41
χ^2/dof = 43.94/43
χ^2/dof = 67.78/72
χ^2/dof = 109.18/81
χ^2/dof = 99.13/82
χ^2/dof = 78.41/82
χ^2/dof = 80.00/82
χ^2/dof = 79.06/82
χ^2/dof = 82.82/82
χ^2/dof = 93.25/80

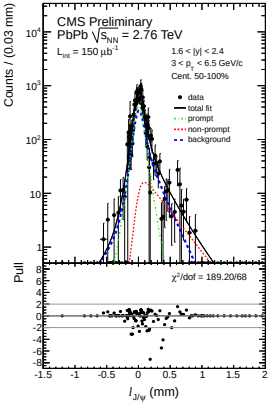

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 20-30%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 82.94/79
$l_{J/\psi}$ (mm)

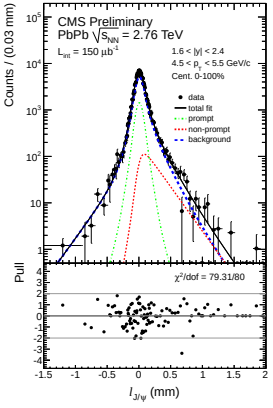

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 20-40%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 93.56/82
$l_{J/\psi}$ (mm)

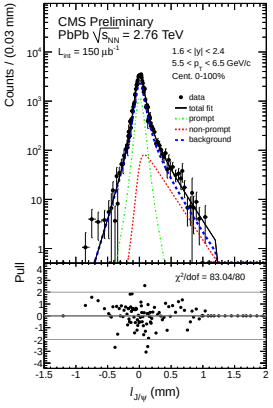

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 30-40%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 158.82/77
$l_{J/\psi}$ (mm)

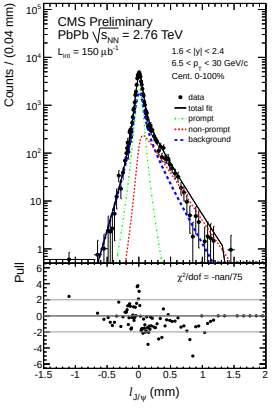

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 40-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 141.31/75
$l_{J/\psi}$ (mm)

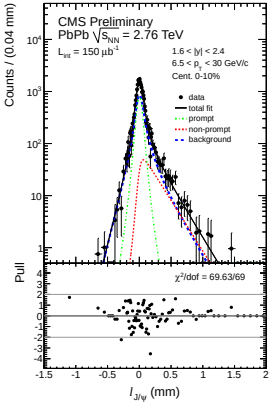

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 40-50%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 78.26/71
$l_{J/\psi}$ (mm)

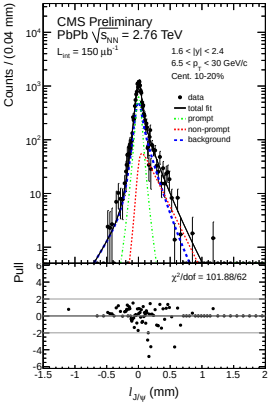

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 50-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 189.20/68
$l_{J/\psi}$ (mm)

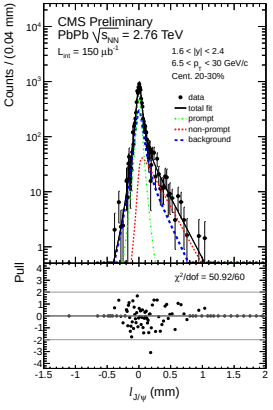

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
4.5 < p_T < 5.5 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 79.31/80
$l_{J/\psi}$ (mm)

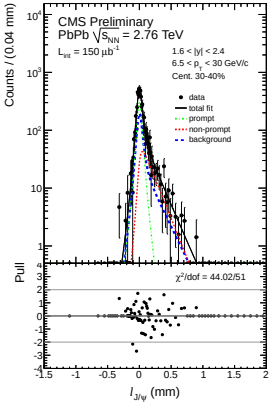

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
5.5 < p_T < 6.5 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.03 mm)
Pull
χ^2/dof = 83.04/80
$l_{J/\psi}$ (mm)

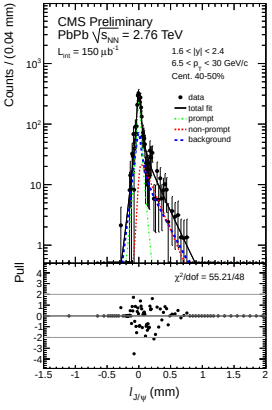

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = -nan/75
$l_{J/\psi}$ (mm)

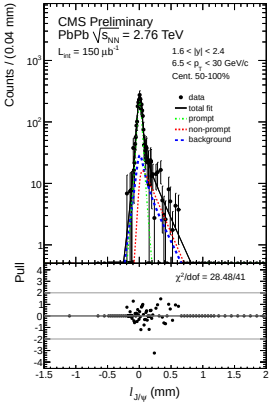

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 0-10%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 69.63/69
$l_{J/\psi}$ (mm)

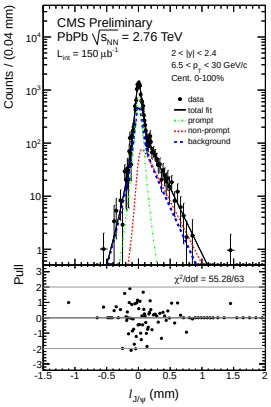

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
1.6 < |y| < 2.4
6.5 < p_T < 30 GeV/c
Cent. 10-20%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ^2/dof = 101.88/62
$l_{J/\psi}$ (mm)


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 = 50.92/60
$l_{J/\psi}$ (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 = 44.02/51
$l_{J/\psi}$ (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 = 55.21/48
$l_{J/\psi}$ (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 = 28.48/41
$l_{J/\psi}$ (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 = 55.28/63
$l_{J/\psi}$ (mm)