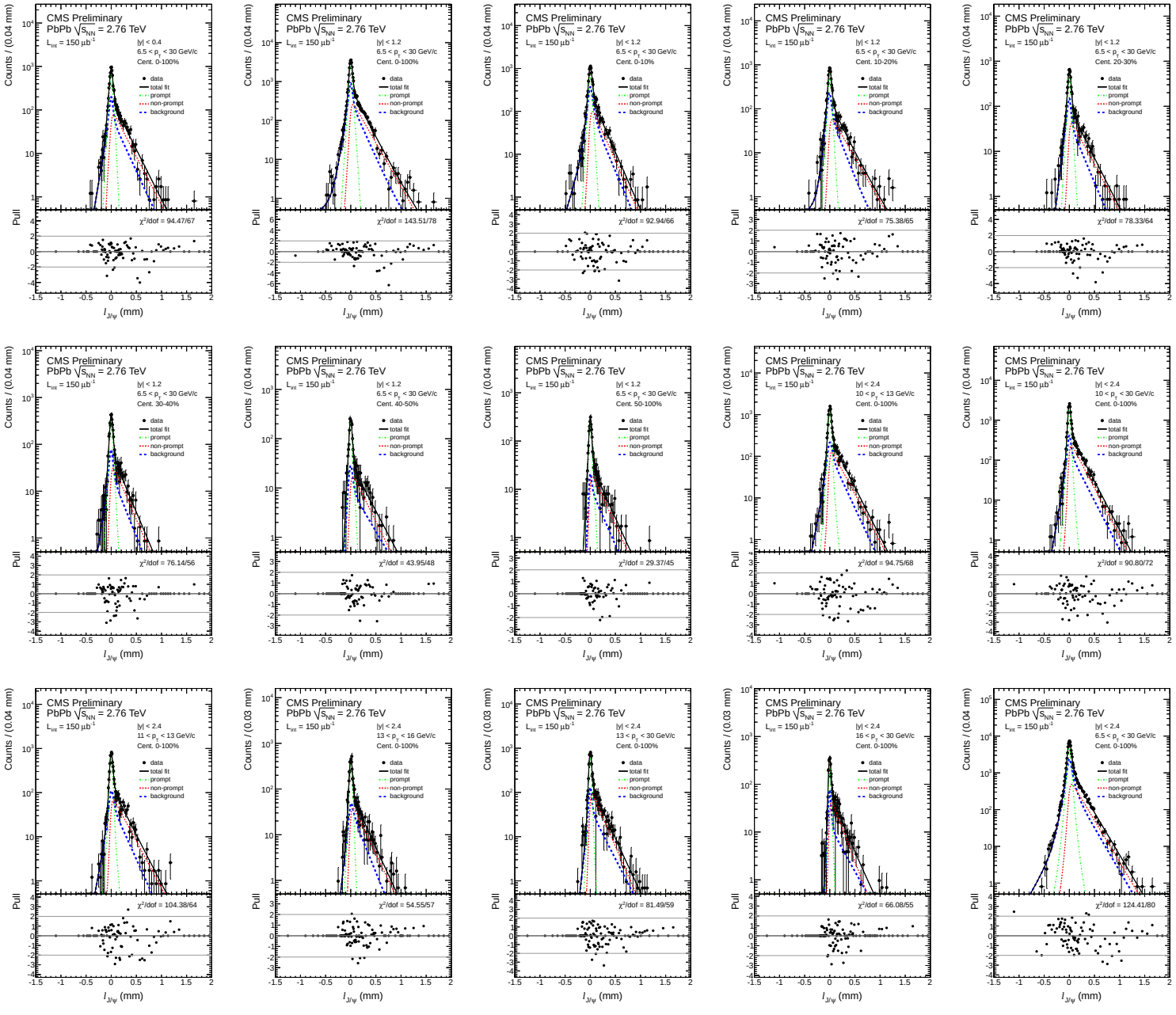
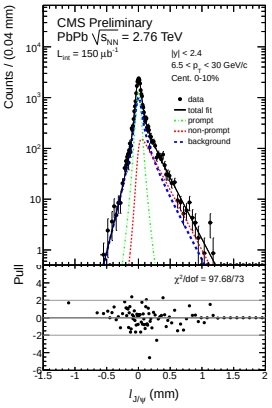
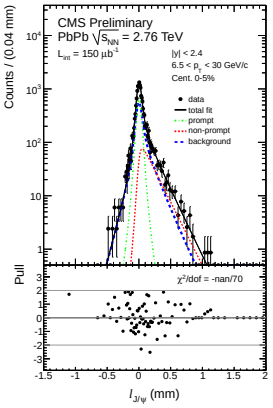
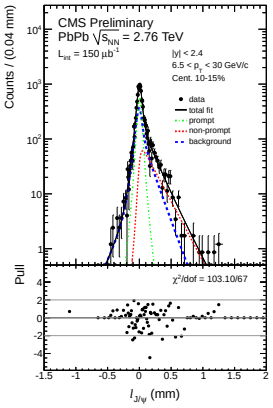
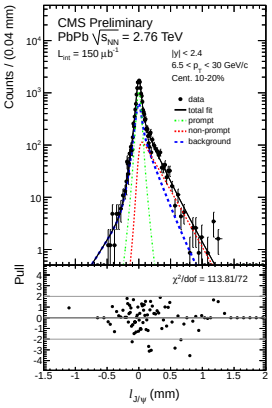
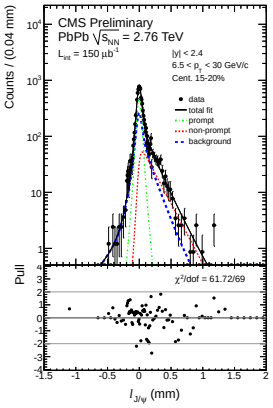

CMS Preliminary
PbPb $\sqrt{s_{NN}}$ = 2.76 TeV
L_{int} = 150 μb^{-1}
|y| < 0.4, 6.5 < p_T < 30 GeV/c, Cent. 0-100%, χ^2/dof = 94.47/67
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 0-100%, χ^2/dof = 143.51/78
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 0-10%, χ^2/dof = 92.94/66
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 10-20%, χ^2/dof = 75.38/65
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 20-30%, χ^2/dof = 78.33/64
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 30-40%, χ^2/dof = 76.14/56
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 40-50%, χ^2/dof = 43.95/48
|y| < 1.2, 6.5 < p_T < 30 GeV/c, Cent. 50-100%, χ^2/dof = 29.37/45
|y| < 2.4, 10 < p_T < 13 GeV/c, Cent. 0-100%, χ^2/dof = 94.75/68
|y| < 2.4, 10 < p_T < 30 GeV/c, Cent. 0-100%, χ^2/dof = 90.80/72
|y| < 2.4, 11 < p_T < 13 GeV/c, Cent. 0-100%, χ^2/dof = 104.38/64
|y| < 2.4, 13 < p_T < 16 GeV/c, Cent. 0-100%, χ^2/dof = 54.55/57
|y| < 2.4, 13 < p_T < 30 GeV/c, Cent. 0-100%, χ^2/dof = 81.49/59
|y| < 2.4, 16 < p_T < 30 GeV/c, Cent. 0-100%, χ^2/dof = 66.08/55
|y| < 2.4, 6.5 < p_T < 30 GeV/c, Cent. 0-100%, χ^2/dof = 124.41/80
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Counts / (0.03 mm)
Pull
$l_{J/\psi}$ (mm)

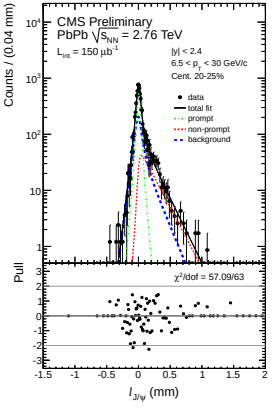

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-10%
data
total fit
prompt
non-prompt
background
χ2/dof = 97.68/73
Counts / (0.04 mm)
Pull
l J/ψ (mm)

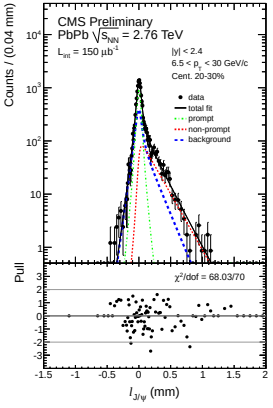

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-5%
data
total fit
prompt
non-prompt
background
χ2/dof = -nan/70
Counts / (0.04 mm)
Pull
l J/ψ (mm)

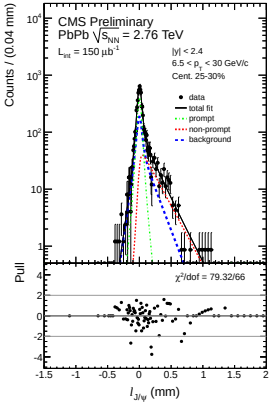

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-15%
data
total fit
prompt
non-prompt
background
χ2/dof = 103.10/67
Counts / (0.04 mm)
Pull
l J/ψ (mm)

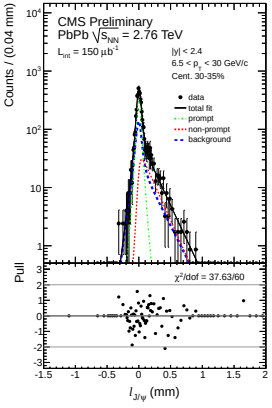

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 10-20%
data
total fit
prompt
non-prompt
background
χ2/dof = 113.81/72
Counts / (0.04 mm)
Pull
l J/ψ (mm)

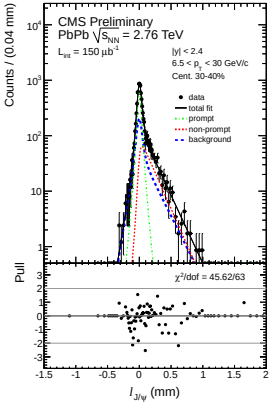

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 15-20%
data
total fit
prompt
non-prompt
background
χ2/dof = 61.72/69
Counts / (0.04 mm)
Pull
l J/ψ (mm)

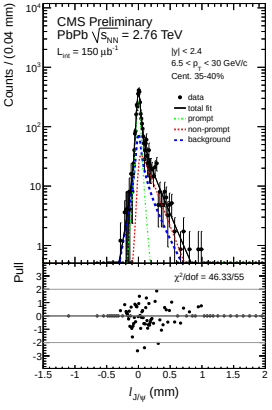

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 20-25%
data
total fit
prompt
non-prompt
background
χ2/dof = 57.09/63
Counts / (0.04 mm)
Pull
l J/ψ (mm)

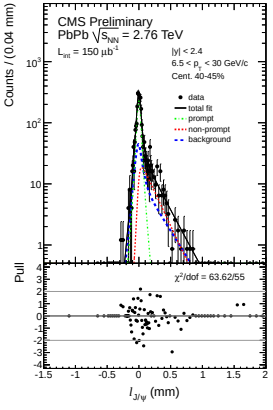

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 20-30%
data
total fit
prompt
non-prompt
background
χ2/dof = 68.03/70
Counts / (0.04 mm)
Pull
l J/ψ (mm)

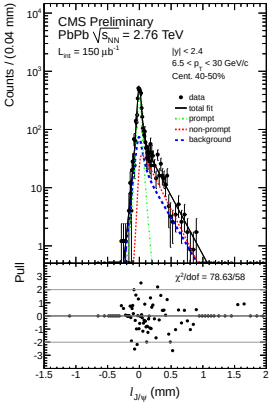

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 25-30%
data
total fit
prompt
non-prompt
background
χ2/dof = 79.32/66
Counts / (0.04 mm)
Pull
l J/ψ (mm)

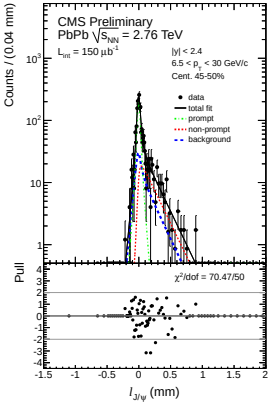

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 30-35%
data
total fit
prompt
non-prompt
background
χ2/dof = 37.63/60
Counts / (0.04 mm)
Pull
l J/ψ (mm)

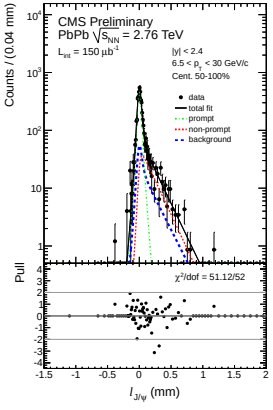

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 30-40%
data
total fit
prompt
non-prompt
background
χ2/dof = 45.62/63
Counts / (0.04 mm)
Pull
l J/ψ (mm)

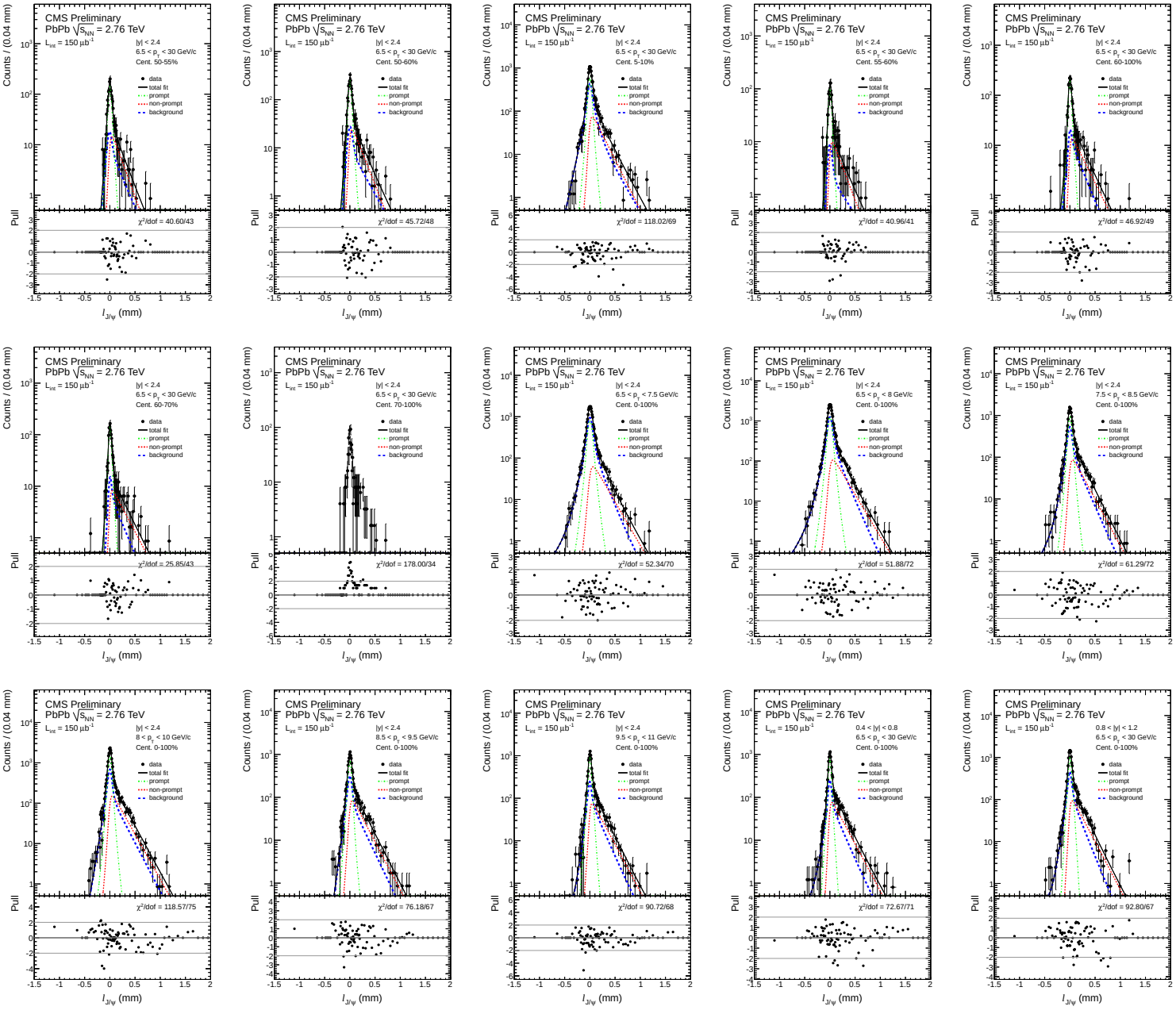

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 35-40%
data
total fit
prompt
non-prompt
background
χ2/dof = 46.33/55
Counts / (0.04 mm)
Pull
l J/ψ (mm)

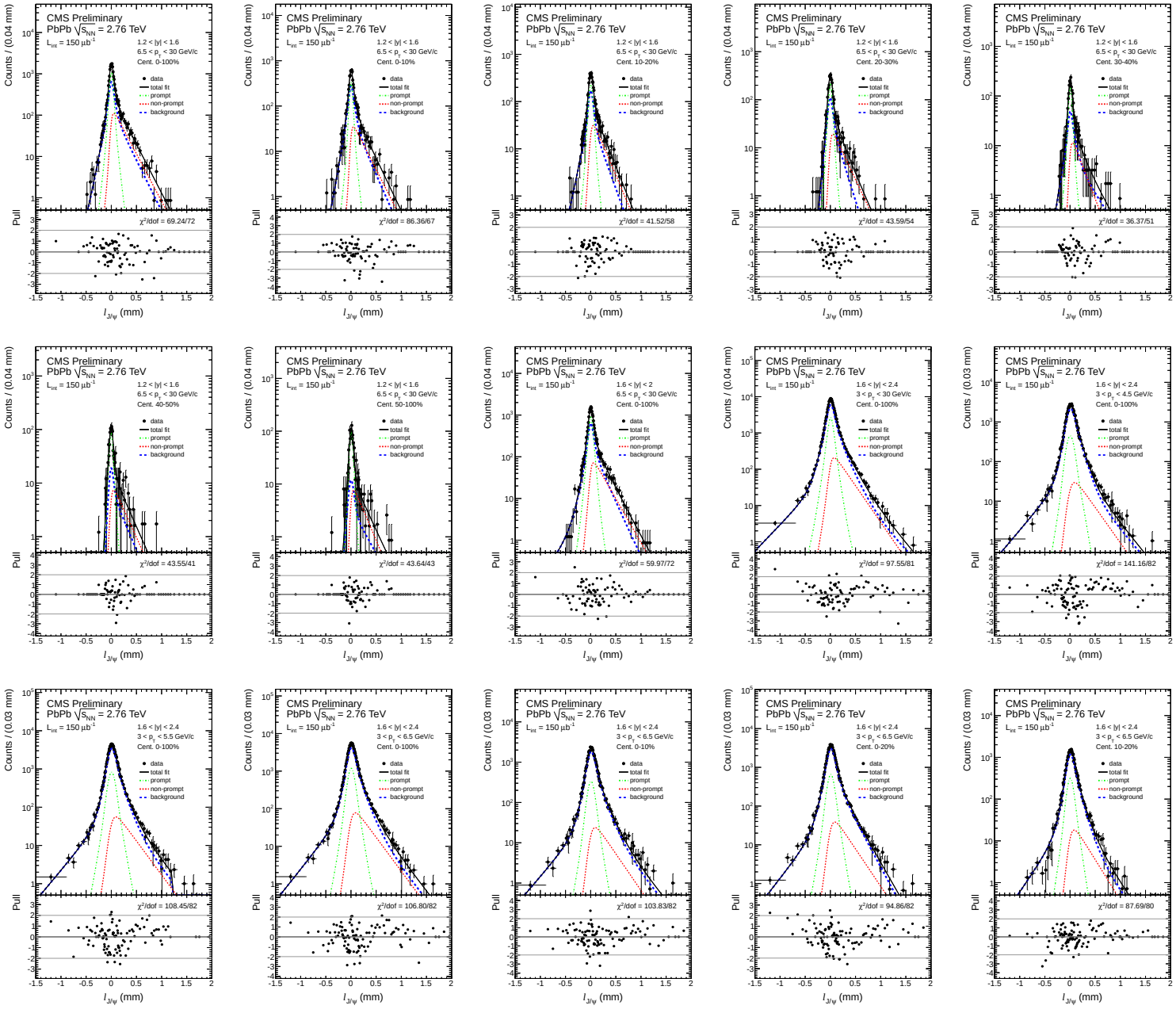

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 40-45%
data
total fit
prompt
non-prompt
background
χ2/dof = 63.62/55
Counts / (0.04 mm)
Pull
l J/ψ (mm)

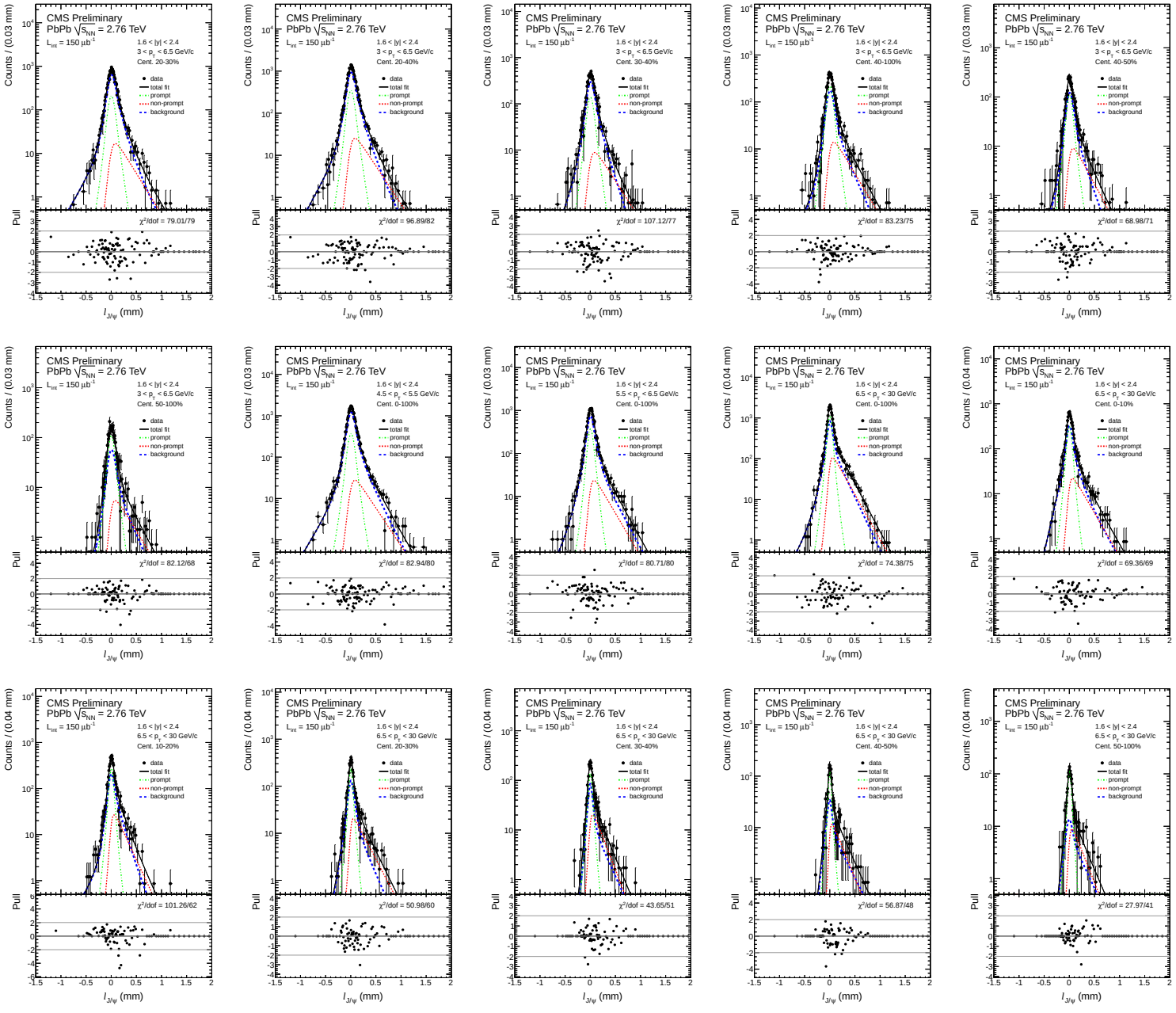

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 40-50%
data
total fit
prompt
non-prompt
background
χ2/dof = 78.63/58
Counts / (0.04 mm)
Pull
l J/ψ (mm)

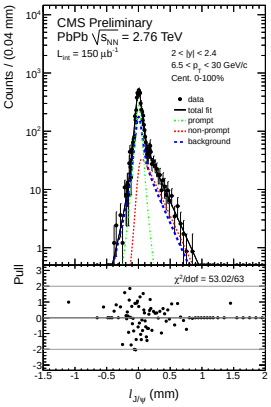

CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 45-50%
data
total fit
prompt
non-prompt
background
χ2/dof = 70.47/50
Counts / (0.04 mm)
Pull
l J/ψ (mm)


CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
|y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 50-100%
data
total fit
prompt
non-prompt
background
χ2/dof = 51.12/52
Counts / (0.04 mm)
Pull
l J/ψ (mm)


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 = 40.60/43
Cent. 50-60%
χ2/dof = 45.72/48
Cent. 5-10%
χ2/dof = 118.02/69
Cent. 55-60%
χ2/dof = 40.96/41
Cent. 60-100%
χ2/dof = 46.92/49
Cent. 60-70%
χ2/dof = 25.85/43
Cent. 70-100%
χ2/dof = 178.00/34
6.5 < pμ < 7.5 GeV/c
Cent. 0-100%
χ2/dof = 52.34/70
6.5 < pμ < 8 GeV/c
Cent. 0-100%
χ2/dof = 51.88/72
7.5 < pμ < 8.5 GeV/c
Cent. 0-100%
χ2/dof = 61.29/72
8 < pμ < 10 GeV/c
Cent. 0-100%
χ2/dof = 118.57/75
8.5 < pμ < 9.5 GeV/c
Cent. 0-100%
χ2/dof = 76.18/67
9.5 < pμ < 11 GeV/c
Cent. 0-100%
χ2/dof = 90.72/68
0.4 < |y| < 0.8
6.5 < pμ < 30 GeV/c
Cent. 0-100%
χ2/dof = 72.67/71
0.8 < |y| < 1.2
6.5 < pμ < 30 GeV/c
Cent. 0-100%
χ2/dof = 92.80/67
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%
χ^2/dof = 69.24/72
Cent. 0-10%
χ^2/dof = 86.36/67
Cent. 10-20%
χ^2/dof = 41.52/58
Cent. 20-30%
χ^2/dof = 43.59/54
Cent. 30-40%
χ^2/dof = 36.37/51
Cent. 40-50%
χ^2/dof = 43.55/41
Cent. 50-100%
χ^2/dof = 43.64/43
1.6 < |y| < 2
Cent. 0-100%
χ^2/dof = 59.97/72
1.6 < |y| < 2.4
3 < p_T < 30 GeV/c
Cent. 0-100%
χ^2/dof = 97.55/81
3 < p_T < 4.5 GeV/c
Cent. 0-100%
χ^2/dof = 141.16/82
3 < p_T < 5.5 GeV/c
Cent. 0-100%
χ^2/dof = 108.45/82
3 < p_T < 6.5 GeV/c
Cent. 0-100%
χ^2/dof = 106.80/82
Cent. 0-10%
χ^2/dof = 103.83/82
Cent. 0-20%
χ^2/dof = 94.86/82
Cent. 10-20%
χ^2/dof = 87.69/80
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}
1.6 < |y| < 2.4
3 < p_T < 6.5 GeV/c
Cent. 20-30%
Counts / (0.03 mm)
Pull
χ^2/dof = 79.01/79
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 96.89/82
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 107.12/77
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 83.23/75
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 68.98/71
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 82.12/68
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 82.94/80
$l_{J/\psi}$ (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%
Counts / (0.03 mm)
Pull
χ^2/dof = 80.71/80
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 74.38/75
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 69.36/69
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 101.26/62
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 50.98/60
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 43.65/51
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 56.87/48
$l_{J/\psi}$ (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%
Counts / (0.04 mm)
Pull
χ^2/dof = 27.97/41
$l_{J/\psi}$ (mm)
data
total fit
prompt
non-prompt
background


CMS Preliminary
PbPb √sNN = 2.76 TeV
Lint = 150 μb-1
2 < |y| < 2.4
6.5 < pT < 30 GeV/c
Cent. 0-100%
data
total fit
prompt
non-prompt
background
Counts / (0.04 mm)
Pull
χ2/dof = 53.02/63
lJ/ψ (mm)