

Events

CMS pp Ref. $\sqrt{s_{\text{NN}}} = 5.02$ TeVPrompt MC, $J/\psi \rightarrow \mu^+\mu^-$ $25.0 < p_{\text{T}} < 40.0$, $0.0 < y < 1.6$

Data

Fit model

CB1

CB2

Gauss

mean = 3.097 ± 0.001 $\alpha_{\text{L}} = 0.356 \pm 0.156$ $\alpha_{\text{ratio}} = 4.260 \pm 1.841$ $f_{\text{CB,R}} = 0.118 \pm 0.036$ $f_{\text{Gauss}} = 0.566 \pm 0.103$ $n_{\text{L}} = 2.862 \pm 0.936$ $n_{\text{ratio}} = 2.000 \pm 0.021$ $\sigma_{\text{L}} = 0.017 \pm 0.006$ $\sigma_{\text{ratio,R}} = 1.240 \pm 0.485$ $\sigma_{\text{ratio,Gauss}} = 2.131 \pm 0.771$ 10^4 10^3 10^2

10

1

5

0

-5

 $\chi^2/\text{ndf} = 1.11$ $\text{mass}_{\mu\mu}^{\text{inv}} [\text{GeV}/c^2]$

2.6 2.7 2.8 2.9 3 3.1 3.2 3.3 3.4 3.5