

Counts per 20 MeV/c²

ALICE, Pb–Pb $\sqrt{s_{\text{NN}}} = 5.02$ TeV

$J/\psi \rightarrow \mu^+\mu^-$

$|\eta| < 0.8$

$p_T \in (0.45, 0.66)$ GeV/c

— sum

$\chi^2/\text{NDF} = 0.650$

---- J/ ψ signal

$N_{J/\psi} = 104 \pm 12$

$M_{J/\psi} = 3.103 \pm 0.003$ GeV/c²

$\sigma = 0.021 \pm 0.002$ GeV/c²

$\alpha_L = 1.36$

$n_L = 6.69$

$\alpha_R = 1.46$

$n_R = 10.74$

--- background

$\lambda = -2.10 \pm 0.08$ GeV⁻¹c²

with $m_{\mu\mu} \in (3.0, 3.2)$ GeV/c²:

$N_{\text{bkg}} = 57 \pm 2$

50

40

30

20

10

0

2.5

3.0

3.5

4.0

4.5

$m_{\mu\mu}$ (GeV/c²)