

PbPb 351 μb^{-1} $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$

2015 HI Soft Muon ID

 $l_{J/\psi}$ cuts applied

HLT_HIL1DoubleMu0_v1

Cent. 0-100%

 $6.5 \leq p_{\text{T}}^{\mu\mu} < 30.0 \text{ GeV/c}$ $0.0 \leq |y^{\mu\mu}| < 1.6$

• Data

— Total fit

... Background

CMS*Preliminary*

$$N_{\text{bkg}}^{\text{PbPb}} = 40255 \pm 221$$

$$N_{J/\psi}^{\text{PbPb}} = 19790 \pm 157$$

$$R_{\psi(2S)/J/\psi}^{\text{PbPb}} = 0.0164 \pm 0.0029$$

$$\alpha_{J/\psi}^{\text{PbPb}} = 1.9400 \pm 0.0000$$

$$f_{J/\psi}^{\text{PbPb}} = 0.4628 \pm 0.0546$$

$$\lambda_1^{\text{PbPb}} = 0.3326 \pm 0.0085$$

$$m_{J/\psi}^{\text{PbPb}} = 3.09214 \pm 0.00024 \text{ GeV/c}^2$$

$$n_{J/\psi}^{\text{PbPb}} = 1.5700 \pm 0.0000$$

$$(\sigma_2/\sigma_1)_{J/\psi}^{\text{PbPb}} = 1.730 \pm 0.000$$

$$\sigma_1^{\text{PbPb}} = 20.79 \pm 0.68 \text{ MeV/c}^2$$

