

PbPb  $L_{\text{int}}=464 \mu\text{b}^{-1}$  $\sqrt{s_{\text{NN}}} = 5.02 \text{ TeV}$ Events / (0.1 GeV/c<sup>2</sup>) $p_{\text{T}}^{\mu\mu} < 30 \text{ GeV}/c$   
 $|y| < 2.4$   
 $p_{\text{T}}^{\mu} > 4 \text{ GeV}/c$   
Cent: 40-50%**CMS***Preliminary*

$$N_{\text{Y}(1\text{S})} = 511 \pm 34$$

$$R_{\frac{2\text{S}}{1\text{S}}} = 0.142 \pm 0.046$$

$$R_{\frac{3\text{S}}{1\text{S}}} = 0.065 \pm 0.043$$

$$a1\_bkg = -0.1010 \pm 0.028$$

$$a2\_Bkg = -0.1957 \pm 0.031$$

$$a3\_Bkg = 0.106 \pm 0.029$$

$$a4\_Bkg = -0.0083 \pm 0.026$$

$$m_{\text{Y}(1\text{S})} = 9.4419 \pm 0.0068$$

$$N_{\text{bkgd}} = 4749 \pm 83$$

Pull

$$\chi^2/\text{ndf} = 36.9/50$$

 $m_{\mu\mu} \text{ (GeV}/c^2\text{)}$ 