

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: 50-100%

**CMS**

*Preliminary*

$N_{\gamma(1S)} = 590 \pm 33$
$R_{\frac{2S}{1S}} = 0.149 \pm 0.038$
$R_{\frac{3S}{1S}} = 0.026 \pm 0.035$
decay = $6.19 \pm 0.77$
$m_{\gamma(1S)} = 9.4546 \pm 0.0058$
$n_{\text{Bkgd}} = 4218 \pm 77$
turnOn = $8.53 \pm 0.12$

