

pp $L_{\text{int}} = 26 \text{ pb}^{-1}$

$\sqrt{s} = 5.02 \text{ TeV}$

Events / (0.1 GeV/c²)

$12 < p_{\text{T}}^{\mu\mu} < 30 \text{ GeV/c}$
 $|y| < 2.4$
 $p_{\text{T}}^{\mu} > 4 \text{ GeV/c}$

CMS

Preliminary

$N_{\gamma(1S)} = 4299 \pm 78$

$R_{\frac{2S}{1S}} = 0.378 \pm 0.014$

$R_{\frac{3S}{1S}} = 0.240 \pm 0.011$

$a1_bkg = -0.3447 \pm 0.023$

$a2_Bkg = 0.022 \pm 0.025$

$a3_Bkg = 0.063 \pm 0.025$

$a4_Bkg = -0.0343 \pm 0.021$

$m_{\gamma(1S)} = 9.4495 \pm 0.0015$

$n_{\text{Bkgd}} = 7213 \pm 111$

Pull

$\chi^2/\text{ndf} = 54.0/50$

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

