CMS Preliminary PbPb 166 μb⁻¹ (2.76 TeV) 450 $F_{pol} = 0.58 + -0.06$ Events / (0.1 GeV/c^2) 0.4 < |y| < 0.8 $N_{\Upsilon(1S)} = 496 + /-35$ 400 $N_{\Upsilon(2S)} = 56 + -25$ 350 $N_{\Upsilon(3S)} = 6 + /- 24$ $p_{_{T}}^{\mu_{_{1}}} > 3.5 \text{ GeV/c}$ a1_bkg = -0.426 +/- 0.09 300 $p_{\tau}^{\mu_2} > 4.0 \text{ GeV/c}$ decay = 10 + / - 8250 $m_{\Upsilon(1S)} = 9.444 + -0.006$ $n_{Bkgd} = 9637 + /- 110$ 200 turnOn = 8.17 + /- 0.08150 width = 0.7 + /- 0.2100 50 0 χ^2 /ndf = 51.5/54 9 10 11 12 13 $m_{\mu\mu}$ [GeV/c²]