Figure showing dimuon invariant mass distribution with fit.

$6.5 < p_T^{\mu\mu} < 12.0$ GeV/c; $1.6 < |y^{\mu\mu}| < 2.4$; Cent. 0 - 90%

$N_{\psi(2S)} = 1629 \pm 175$, $N_{Bkg} = 48106 \pm 278$

$m_{\psi(2S)} = 3.6806 \pm 0.0055$

$\alpha_{\psi(2S)} = 1.8845$ (fixed)

$f_{\psi(2S)} = 0.2549 \pm 0.0275$

$n_{\psi(2S)} = 1.9317$ (fixed)

$\sigma_{\psi(2S)} = 80.01 \pm 8.36$ MeV/c, $(\sigma2/\sigma1)_{\psi(2S)} = 0.600$ (fixed)

- Data
- Total
- Background

$\chi^2/ndof = 40 / 30$

Y axis (top): Events / (0.0222222 GeV/c^2)

Y axis (bottom): Pull

X axis: $m_{\mu^+\mu^-}$ (GeV/c^2)