



中国科学院高能物理研究所
Institute of High Energy Physics
Chinese Academy of Sciences

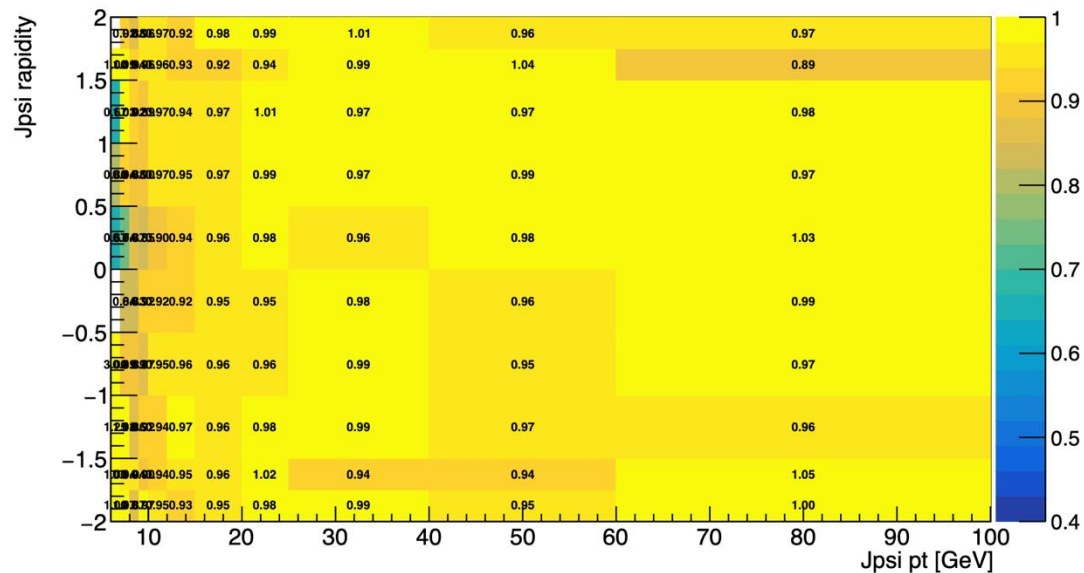


Double Jpsi

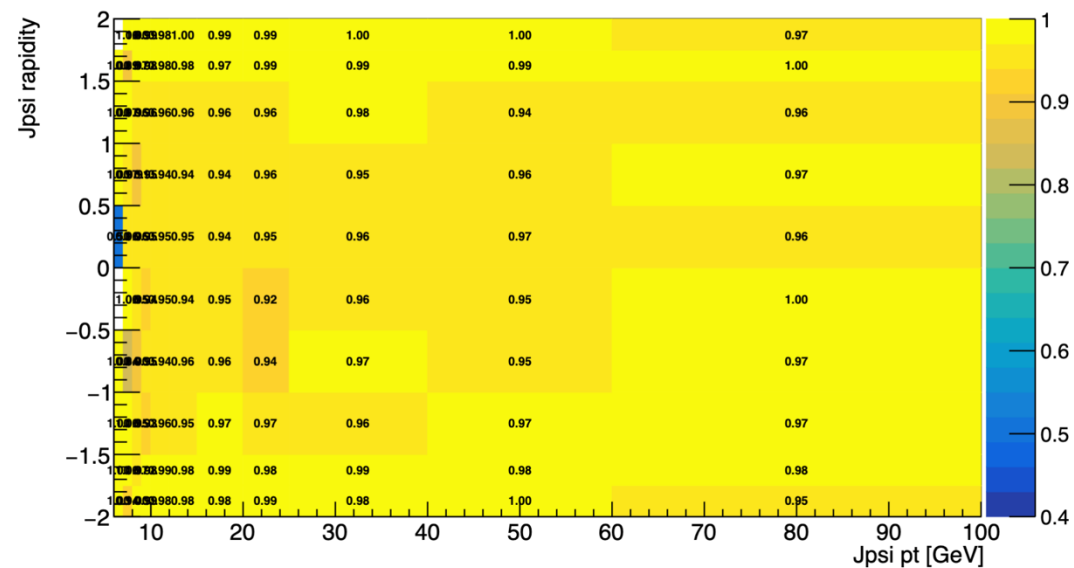
Taozhe YU

10.29

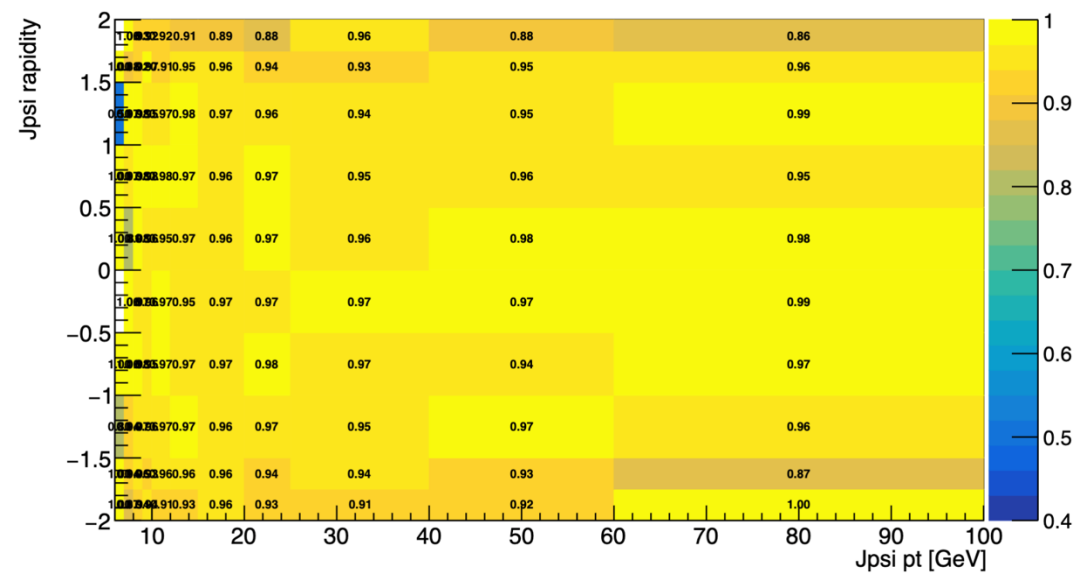
reconstruct probability



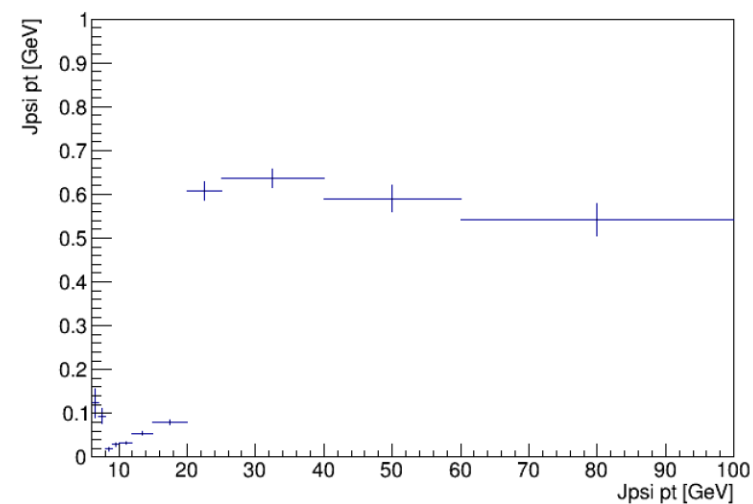
selection probability



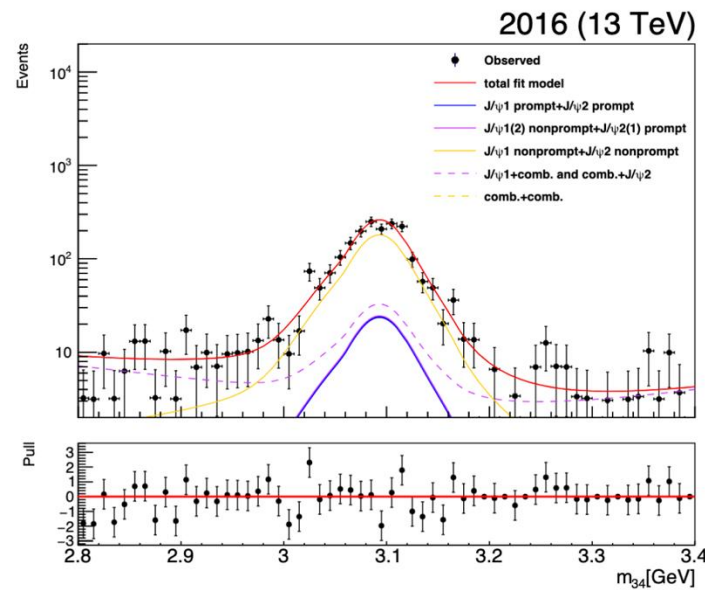
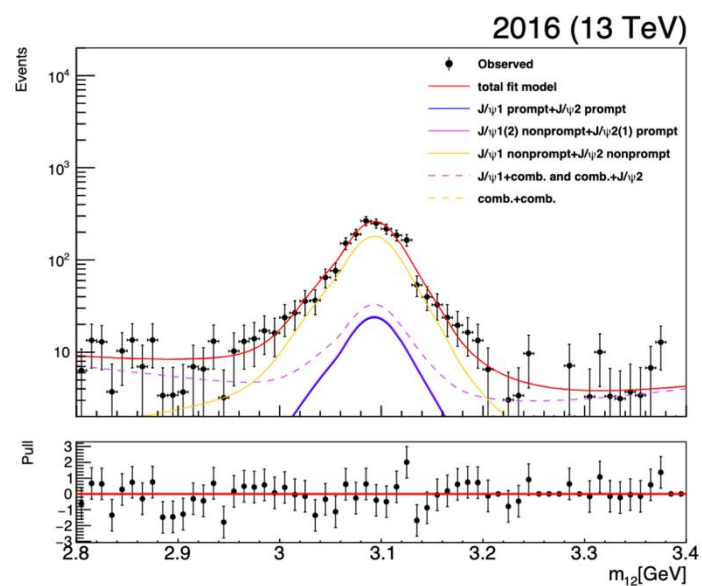
vertex probability



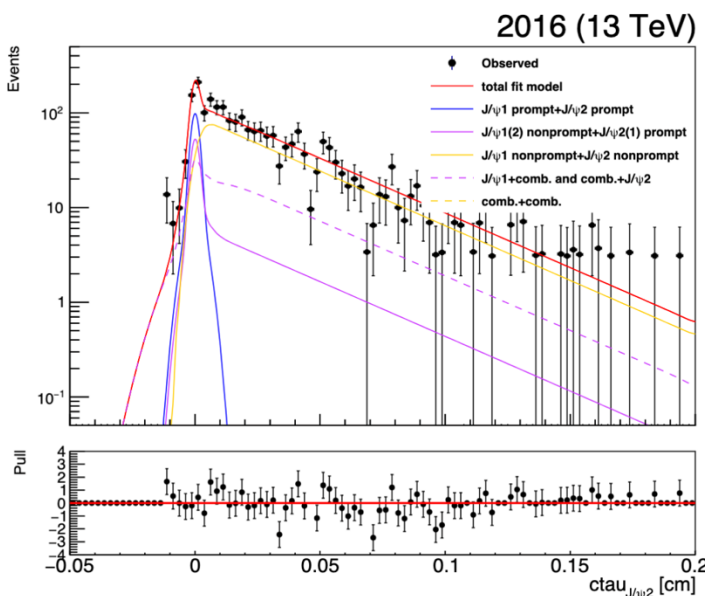
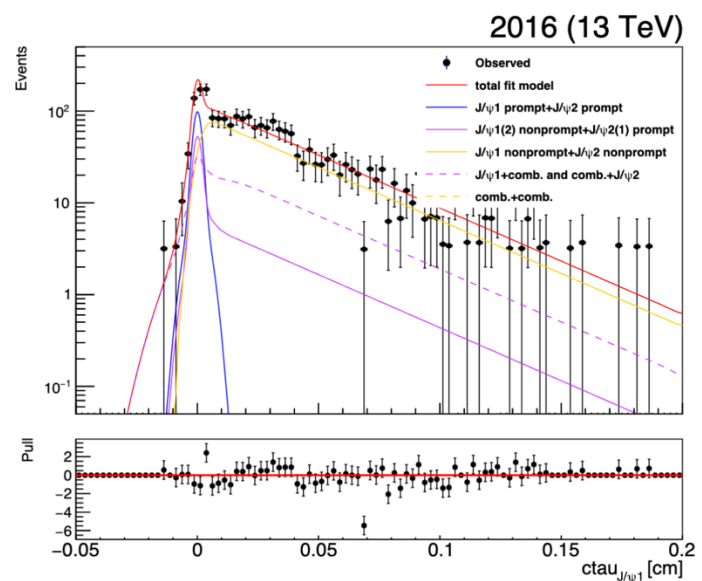
pass HLT probability



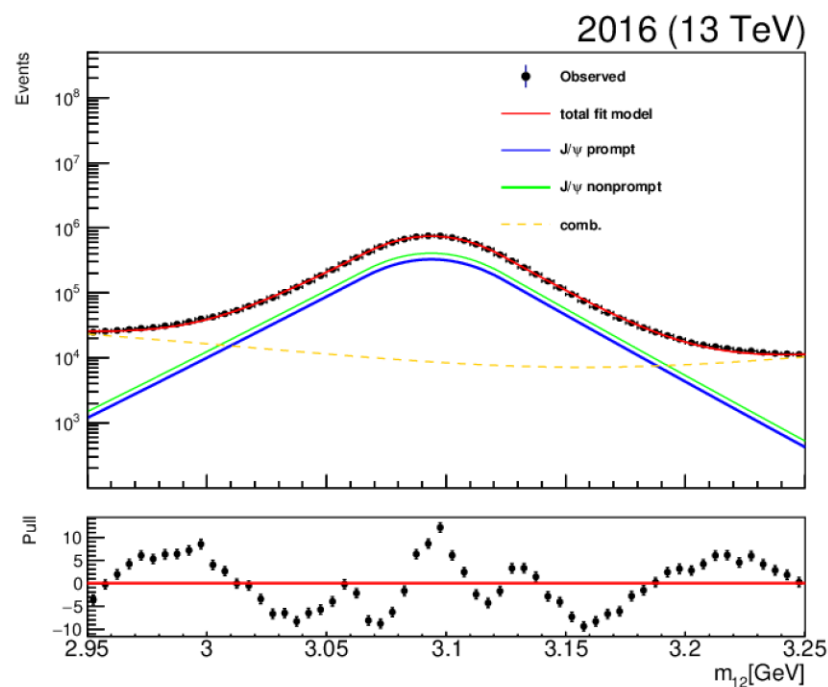
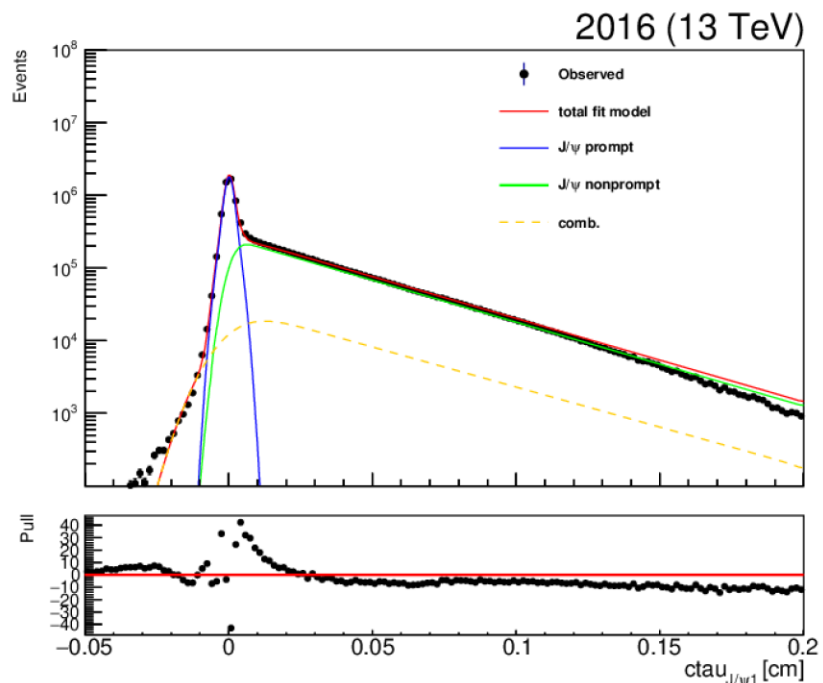
HLT_Dimuon20_Jpsi



- Phase space: Jpsi: $p_t > 20 \text{ GeV}$, $|y| < 2$
- Muon: $p_t > 3.5 \text{ GeV}$, $|y| < 2.4$



- Double Jpsi cross section : $1.39 \pm 0.22 \text{ pb}$

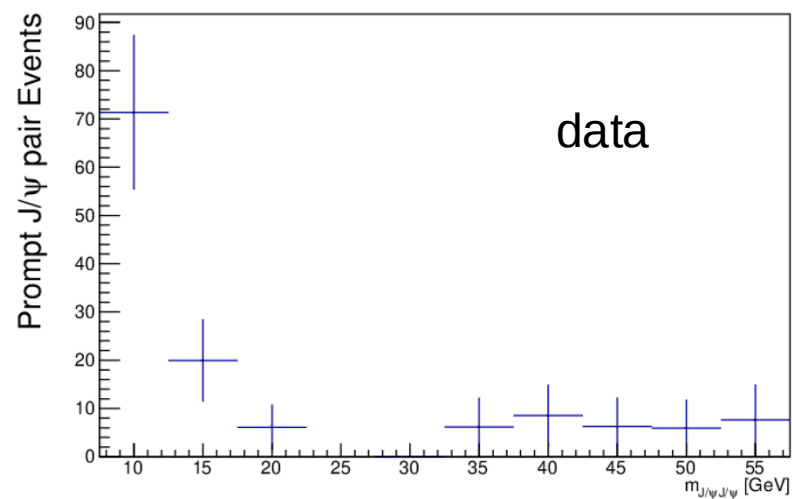
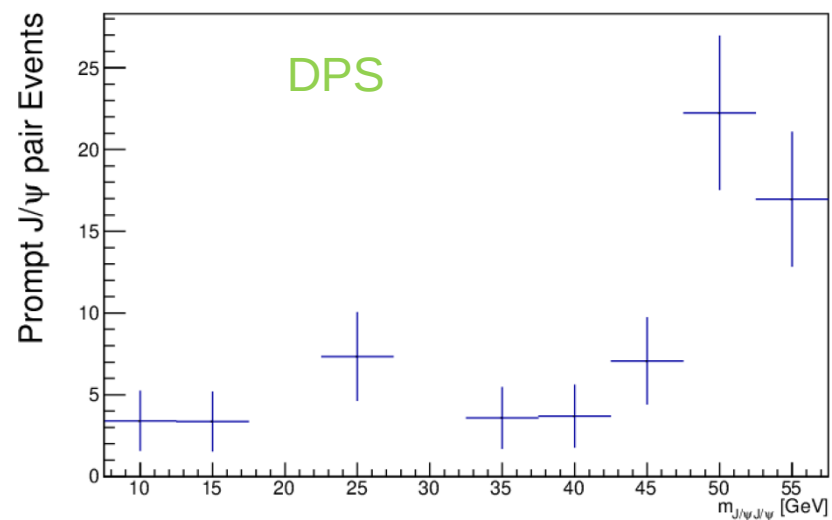
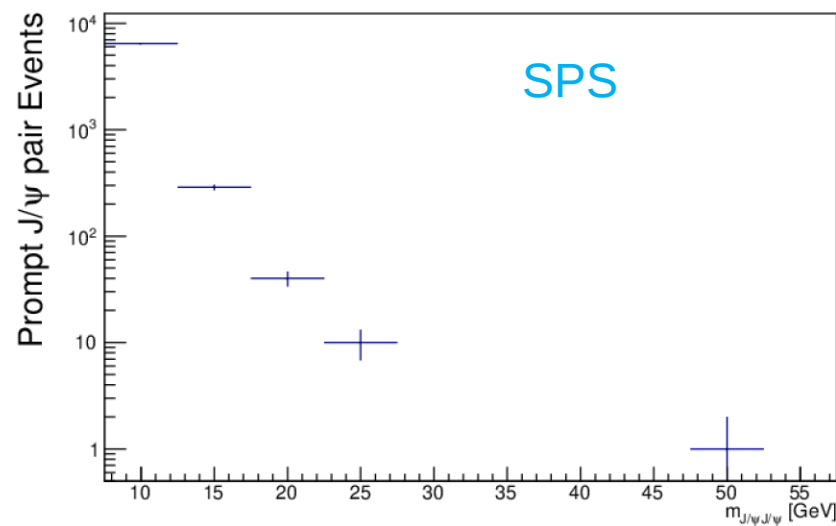


cross section: 13171.8pb

$$\bullet \sigma_{eff} = \frac{\sigma_{J/\psi}^2}{2\sigma_{DPS \rightarrow J\psi J\psi}} = \frac{(13171.8 pb)^2}{2 * (1.39 * 0.59) pb} = 0.15 mb$$

- Phase space: Jpsi: $pt > 20 \text{ GeV}$, $|y| < 2$
- Muon: $pt > 3.5 \text{ GeV}$, $|y| < 2.4$

- Phase space: Jpsi: $p_T > 20 \text{ GeV}$, $|y| < 2$
- Muon: $p_T > 3.5 \text{ GeV}$, $|y| < 2.4$



2016 (13 TeV)

