

**CMS** *Preliminary*

35.9 fb<sup>-1</sup> (13 TeV)



nonprompt DF



nonprompt SF



TTX



Xgamma



multiboson



WJets



ttbar



DY

obs/pred  
1.5  
1.2  
1.0  
0.8  
0.6  
0.4  
0.2  
0.1

0

0.2

0.4

0.6

0.8

1

1.2

1.4

1.6

1.8

2

$|d_z| \{ l_3 \} \text{ (cm)}$