

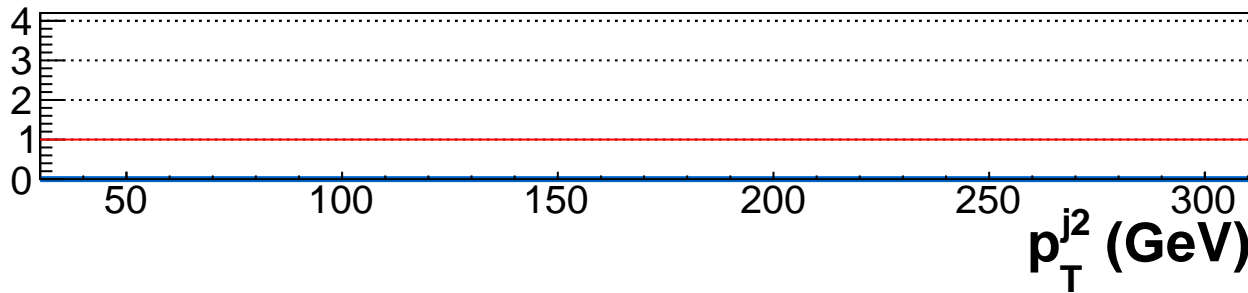
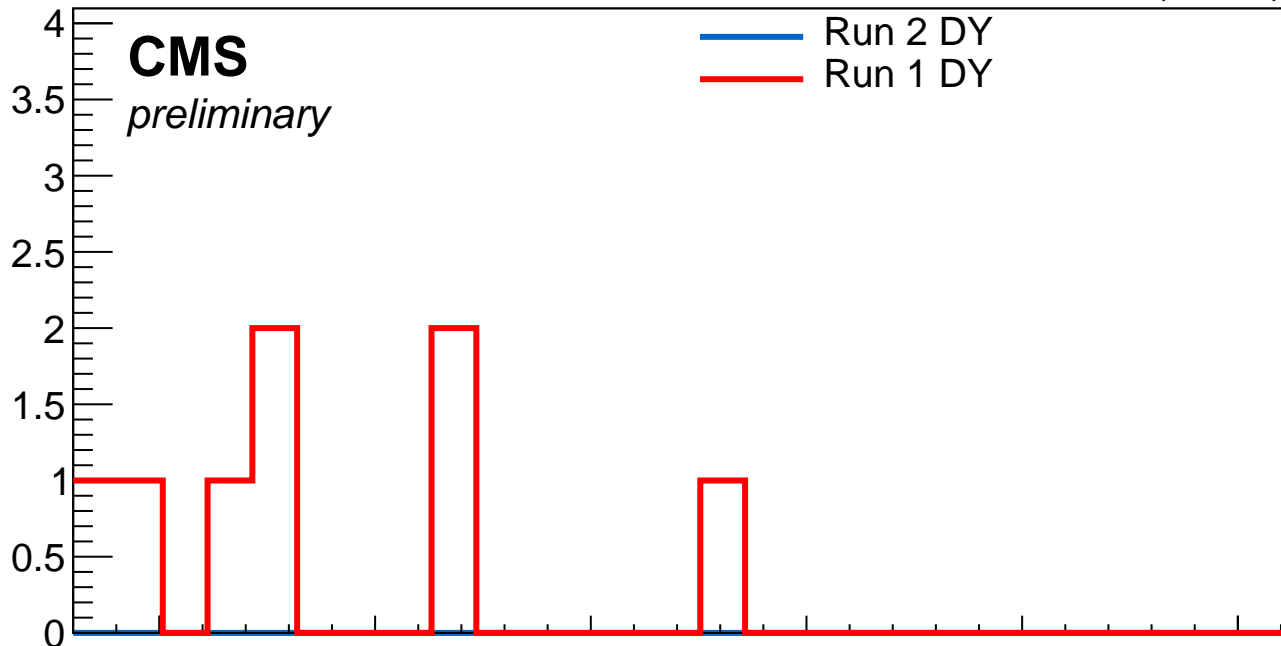
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



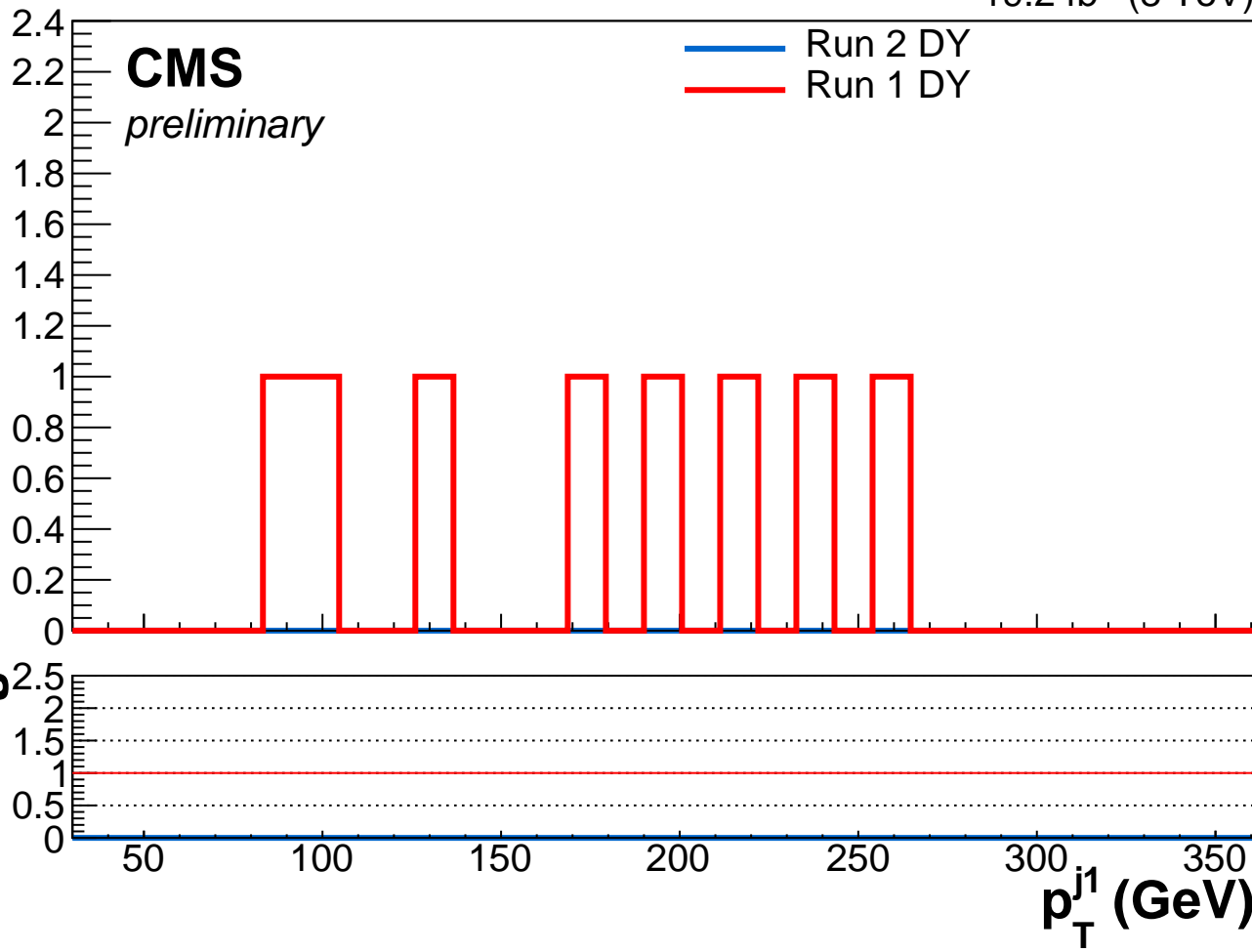
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

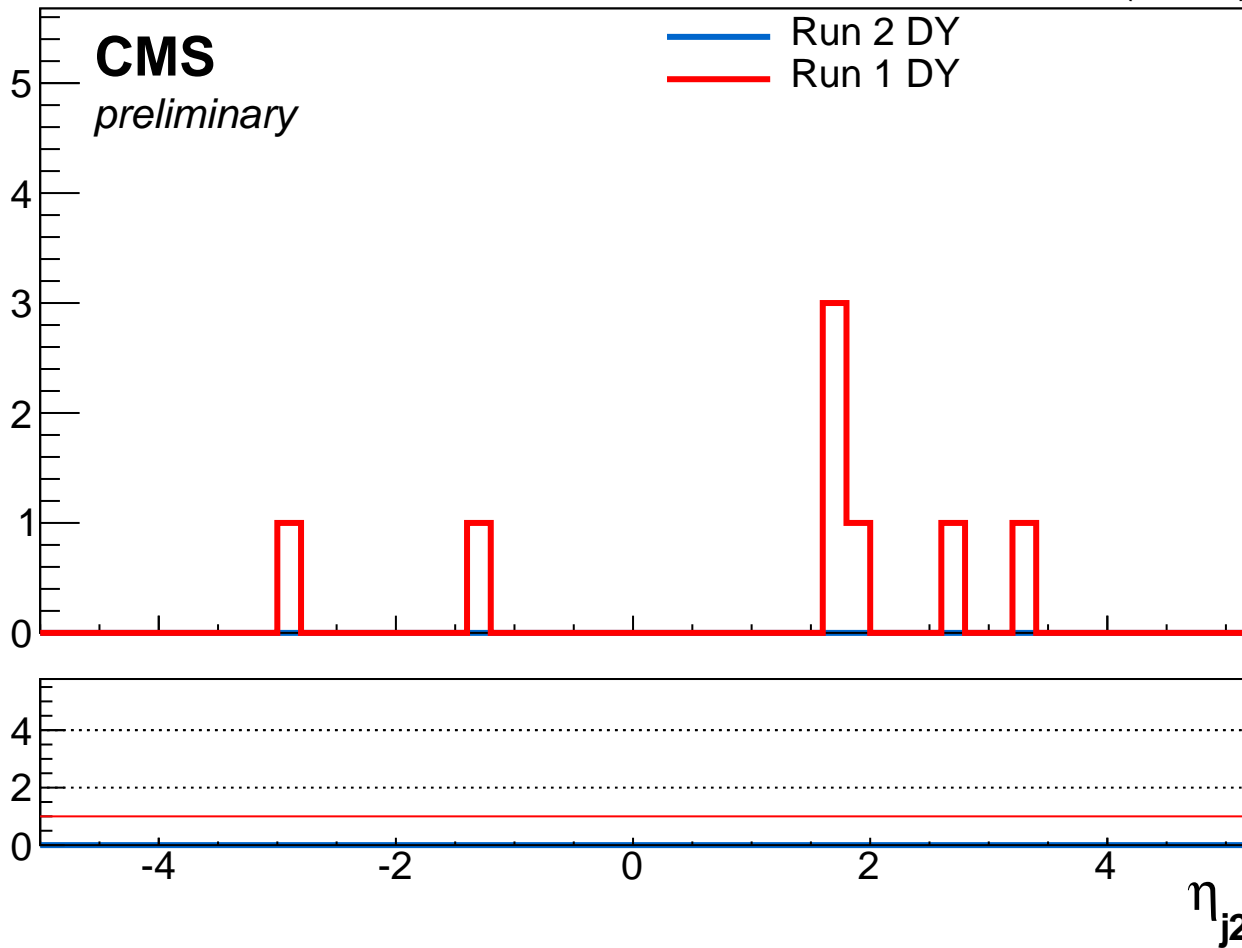


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

Run 2 DY  
Run 1 DY

Data/Bkg



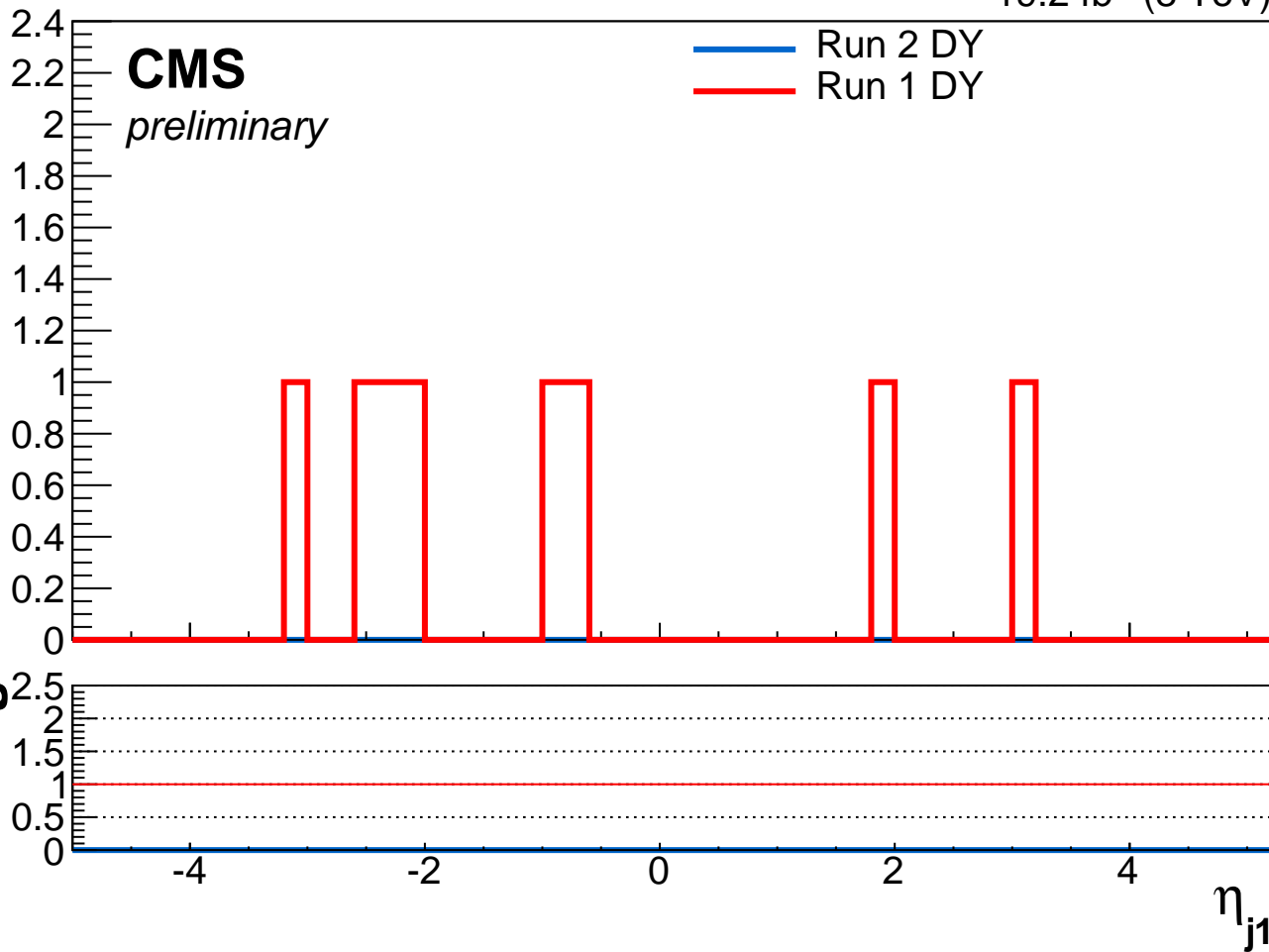
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

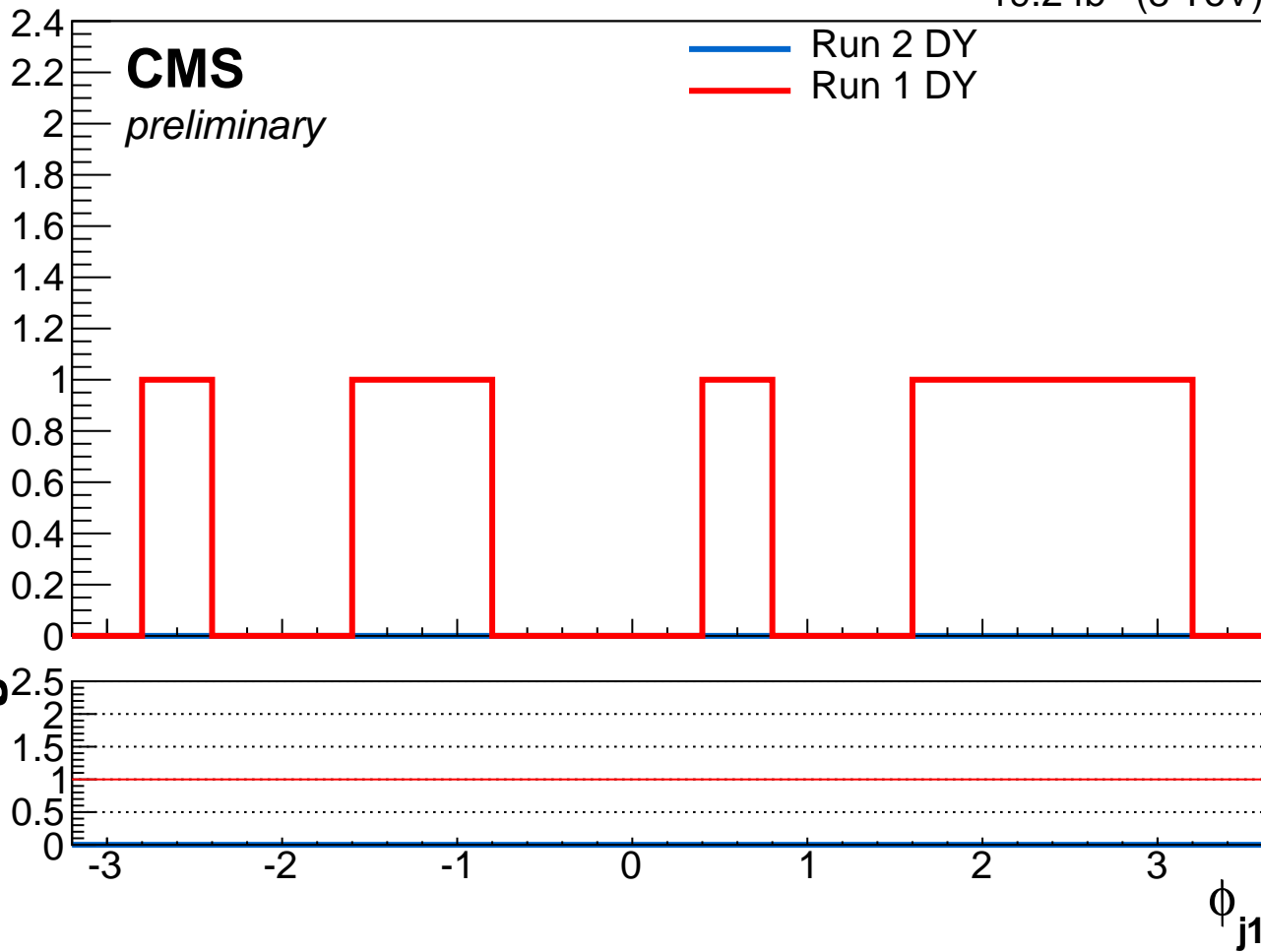


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

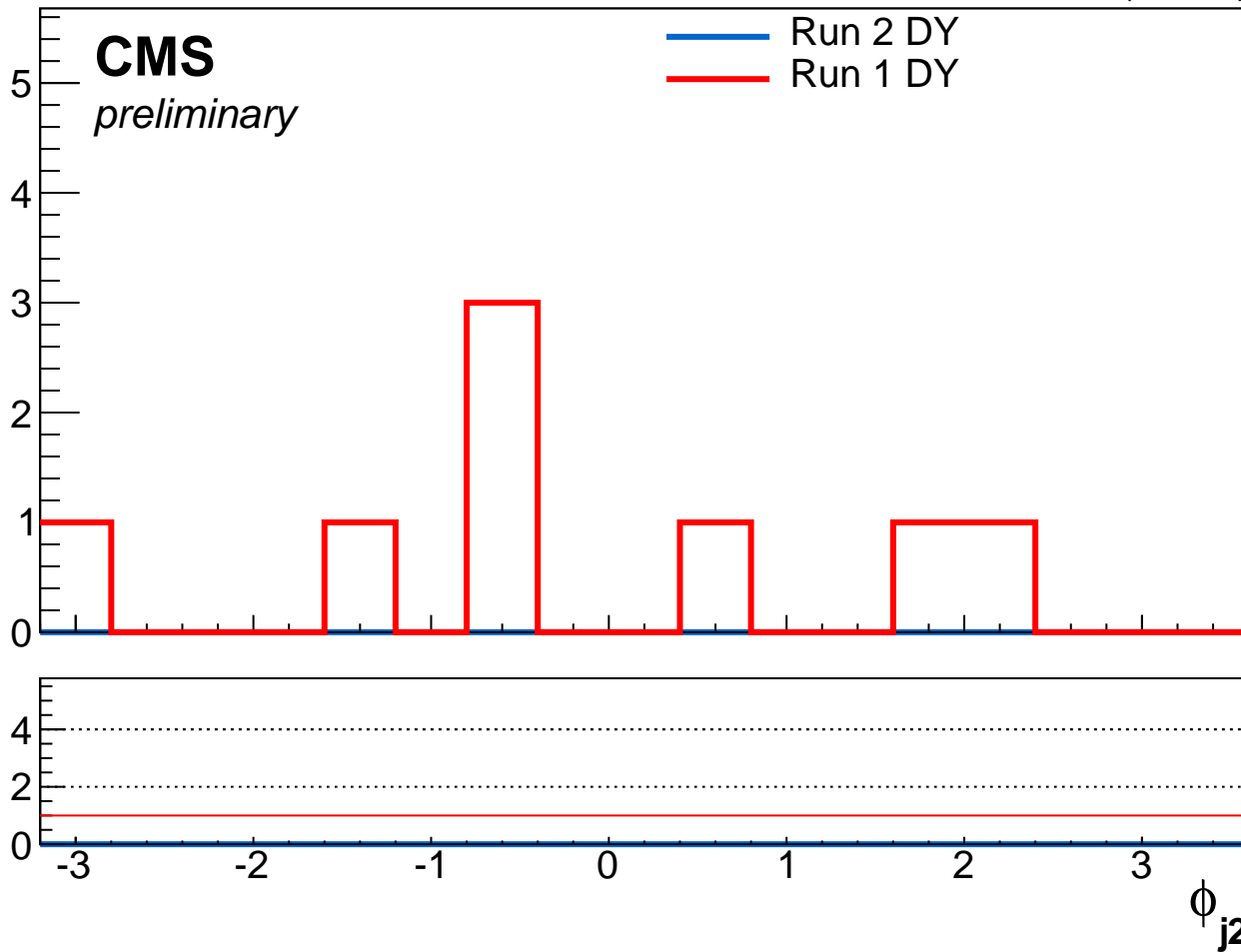


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

Run 2 DY  
Run 1 DY

Data/Bkg



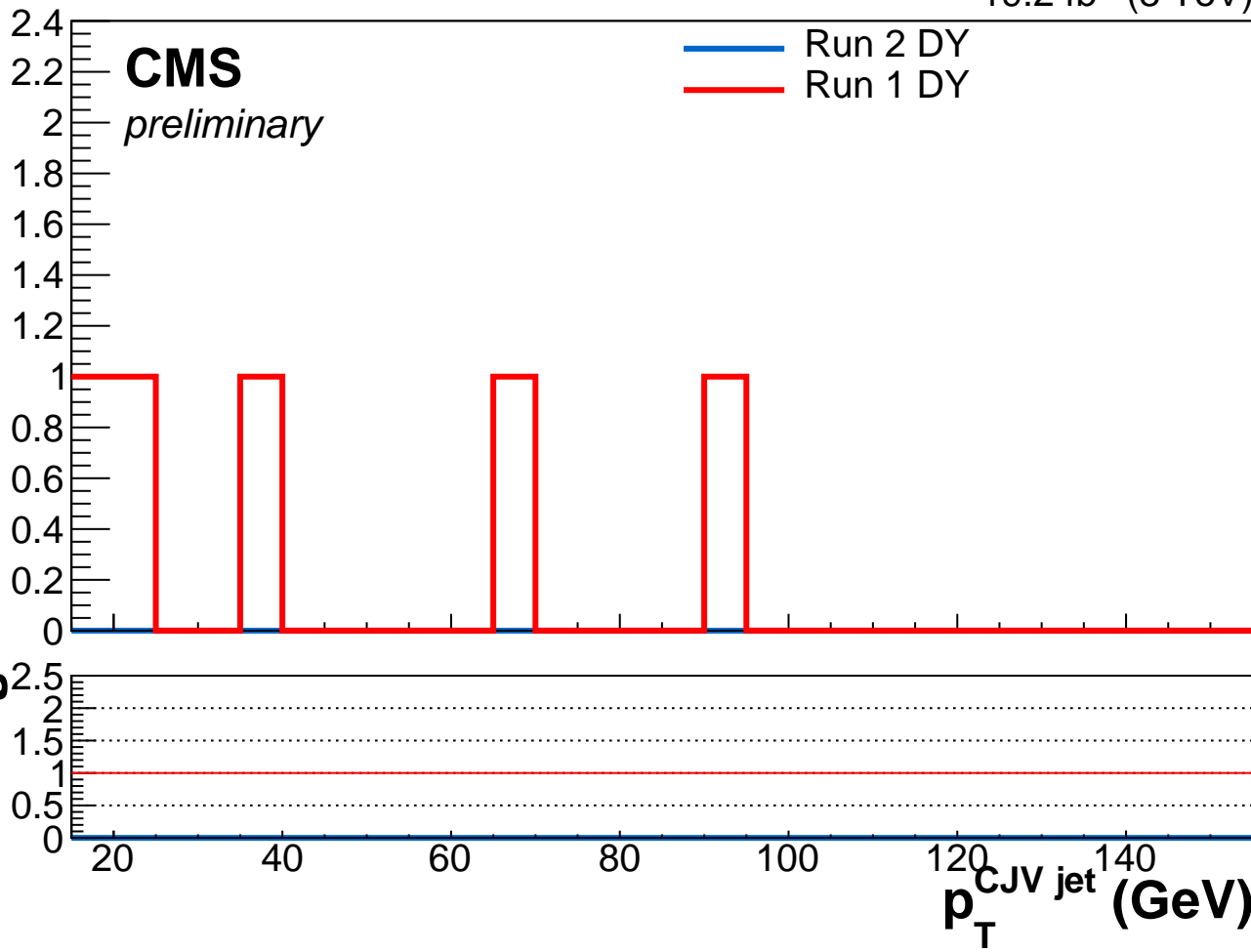
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



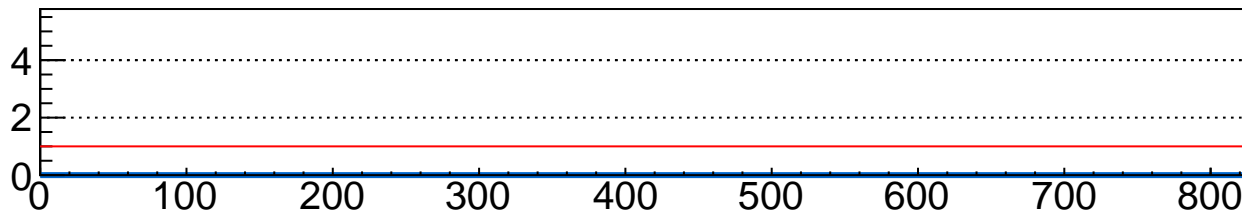
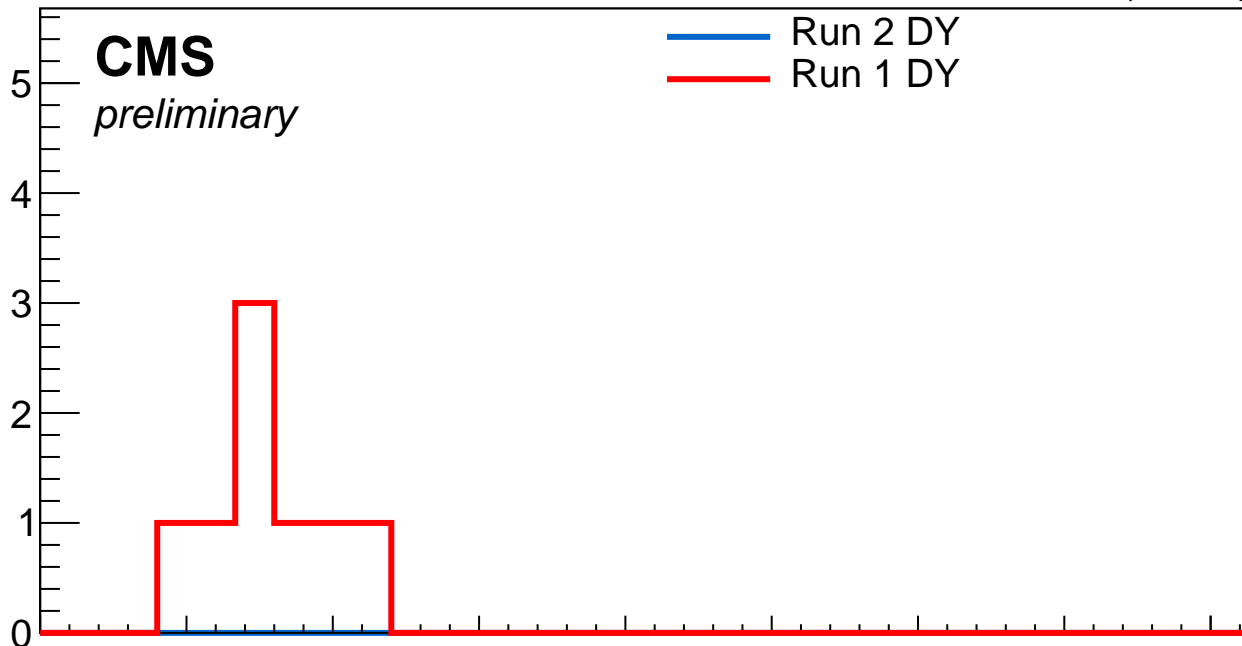
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

Data/Bkg



Missing transverse energy (GeV)



19.2 fb<sup>-1</sup> (8 TeV)

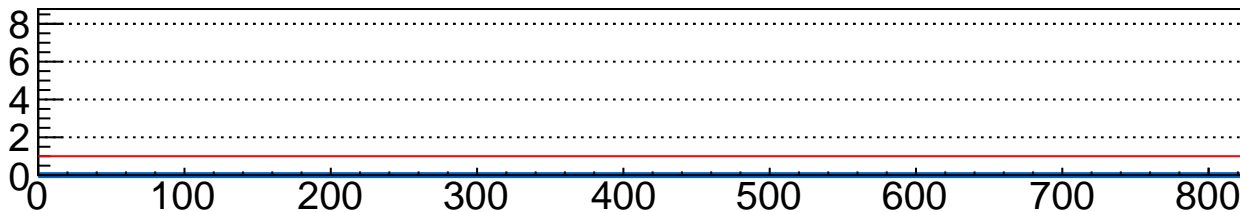
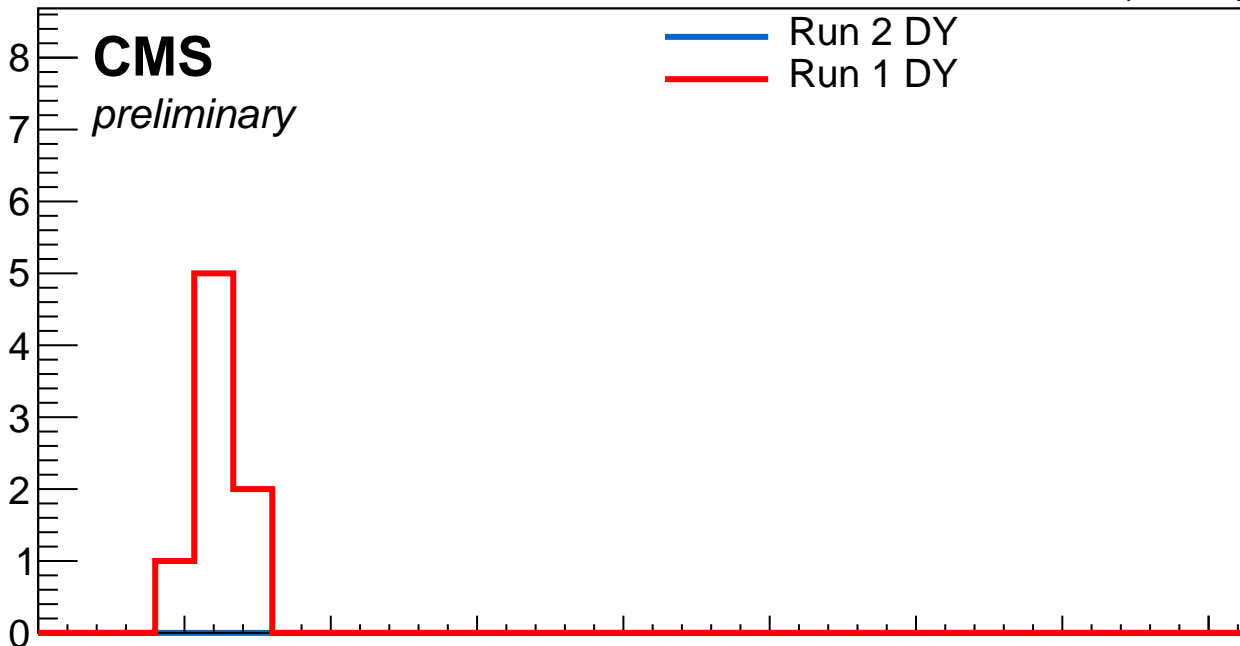
**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

**MET (GeV)**



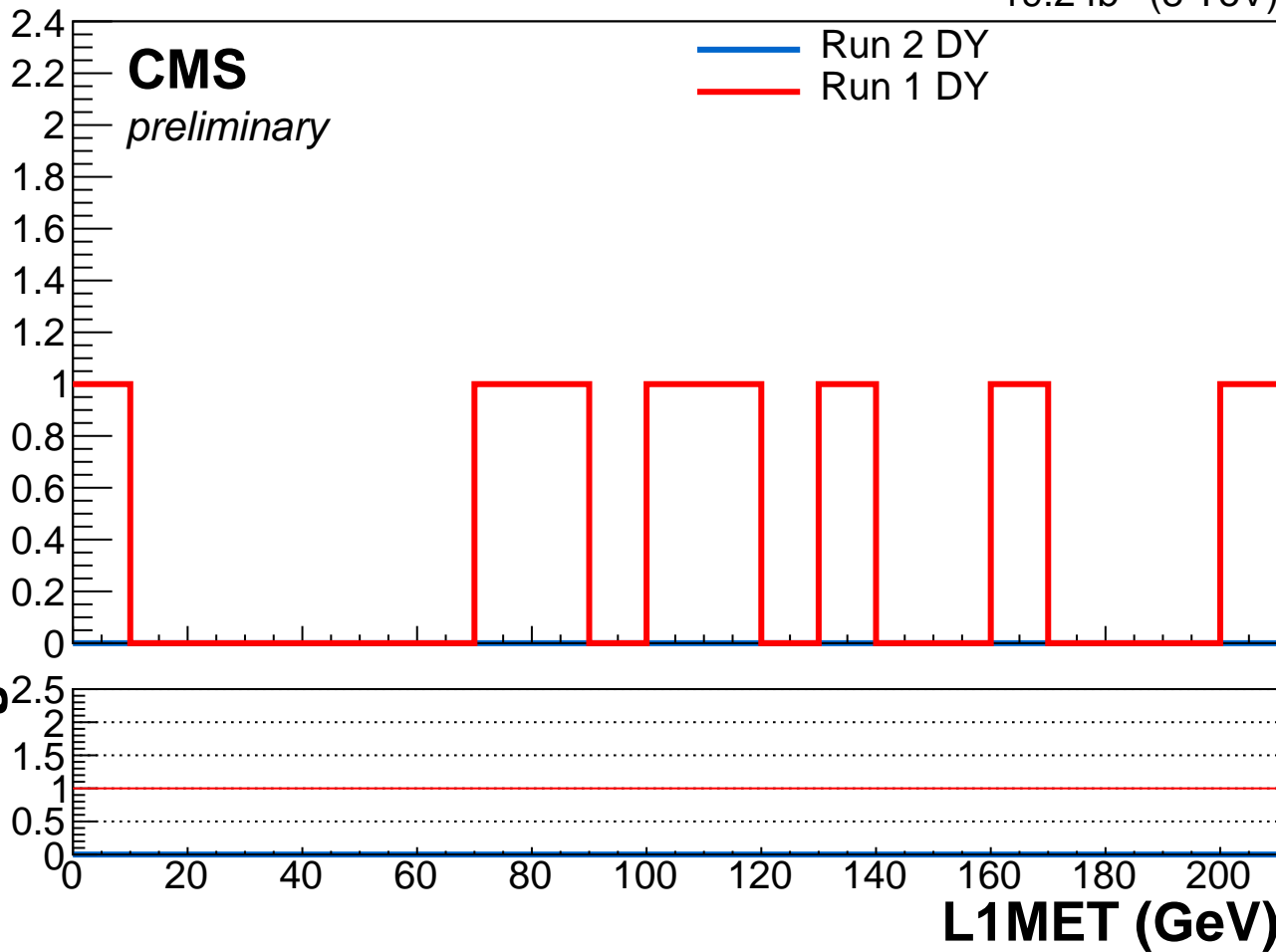
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



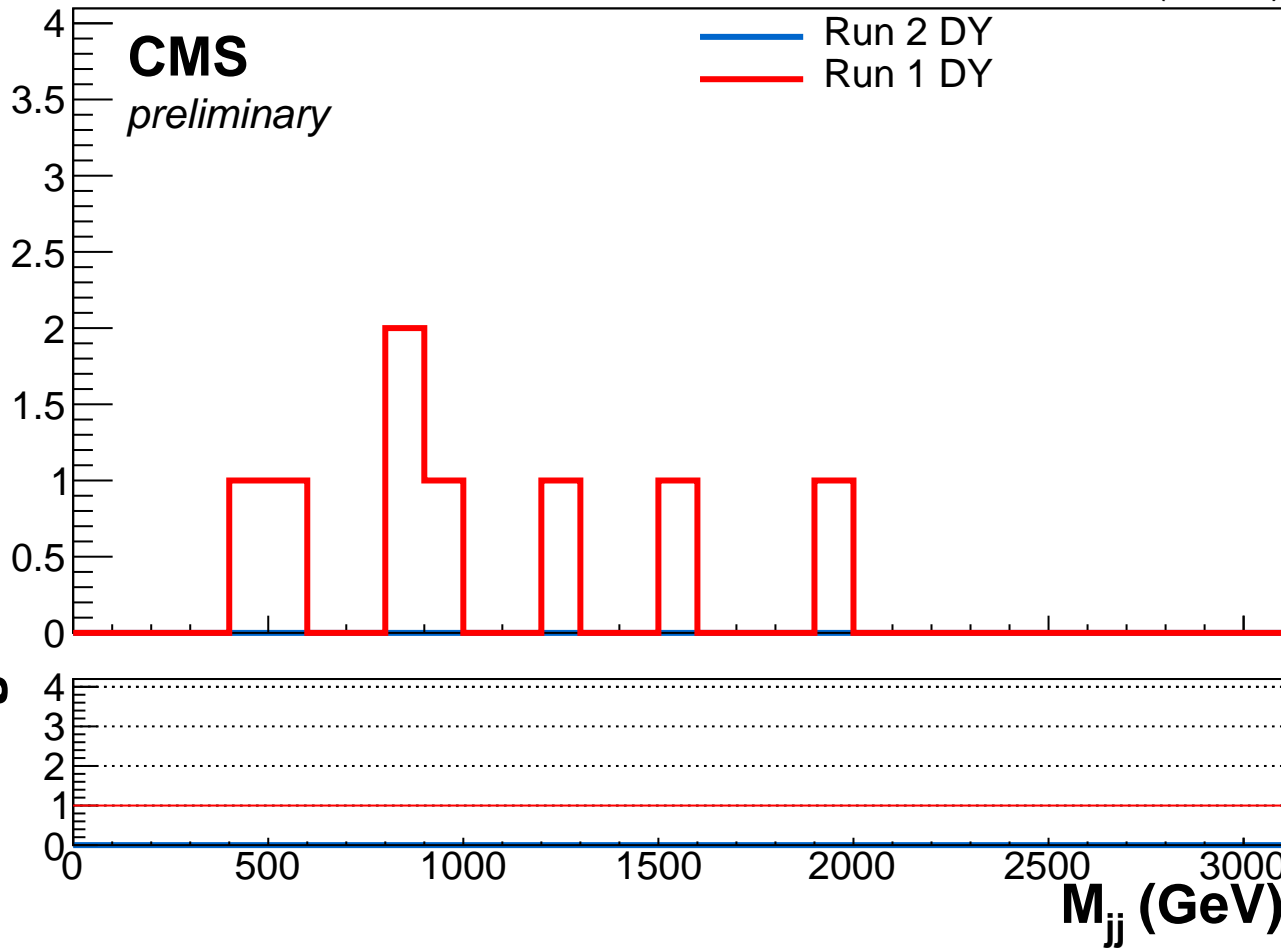
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



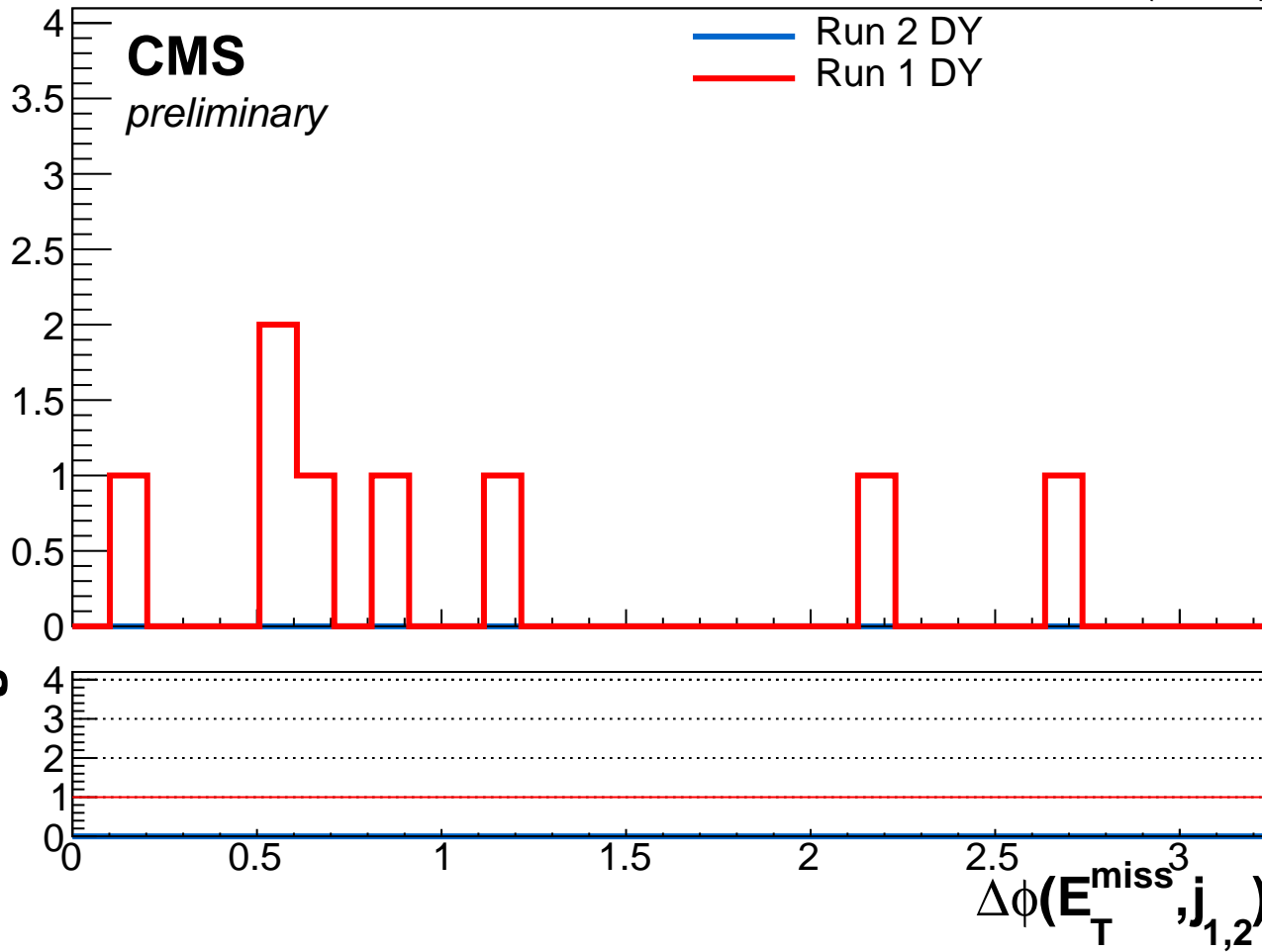
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

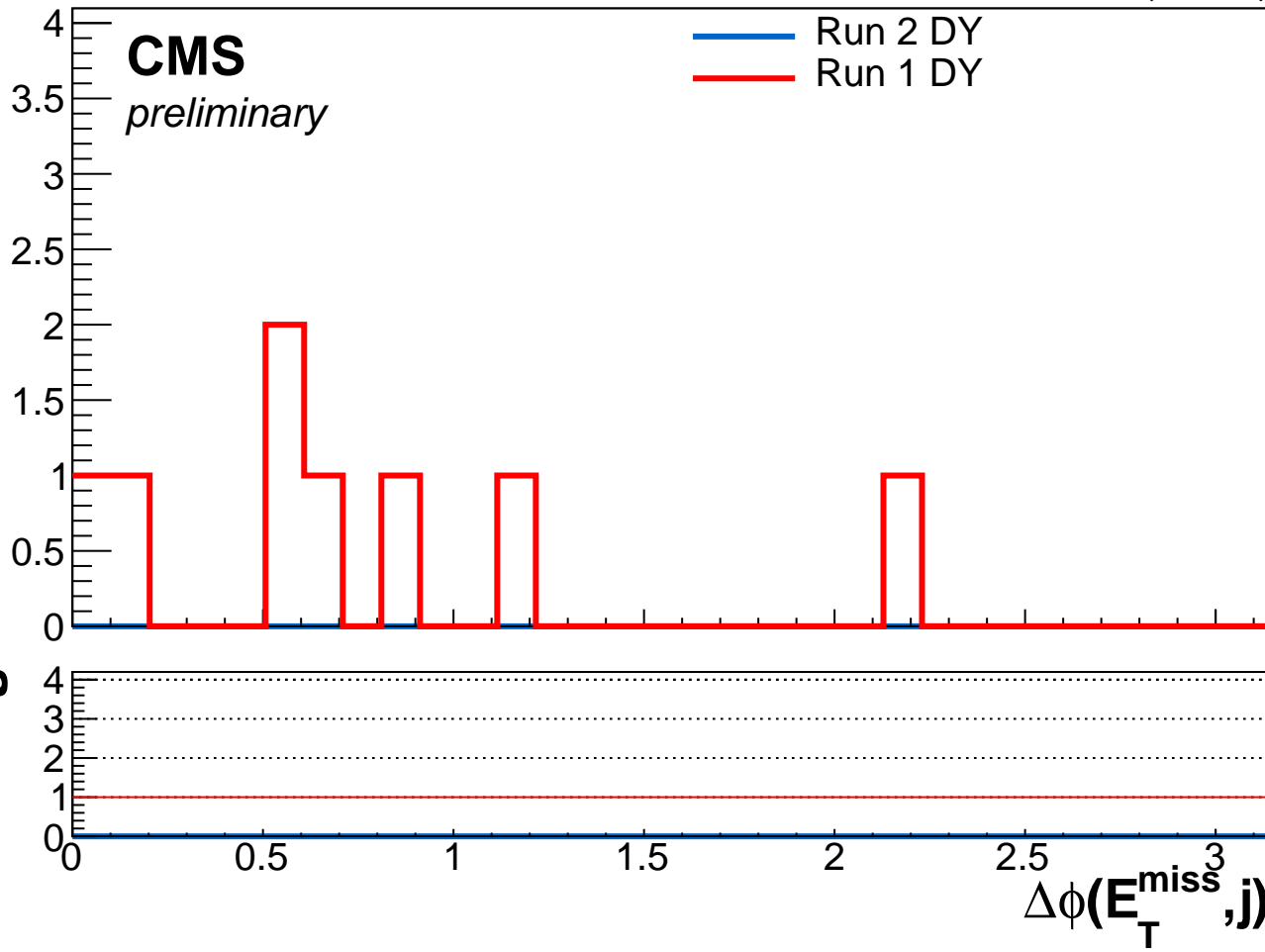


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



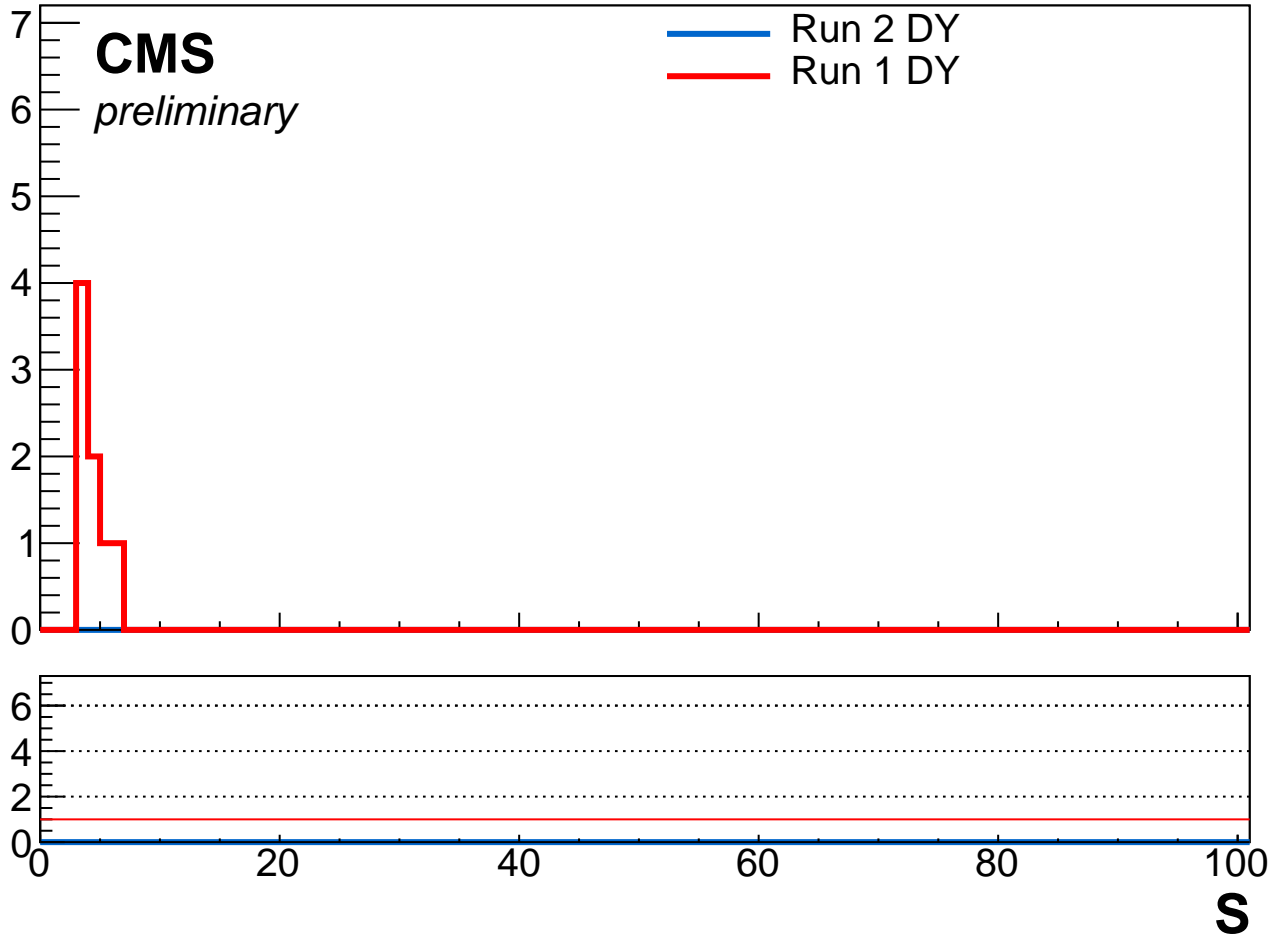
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

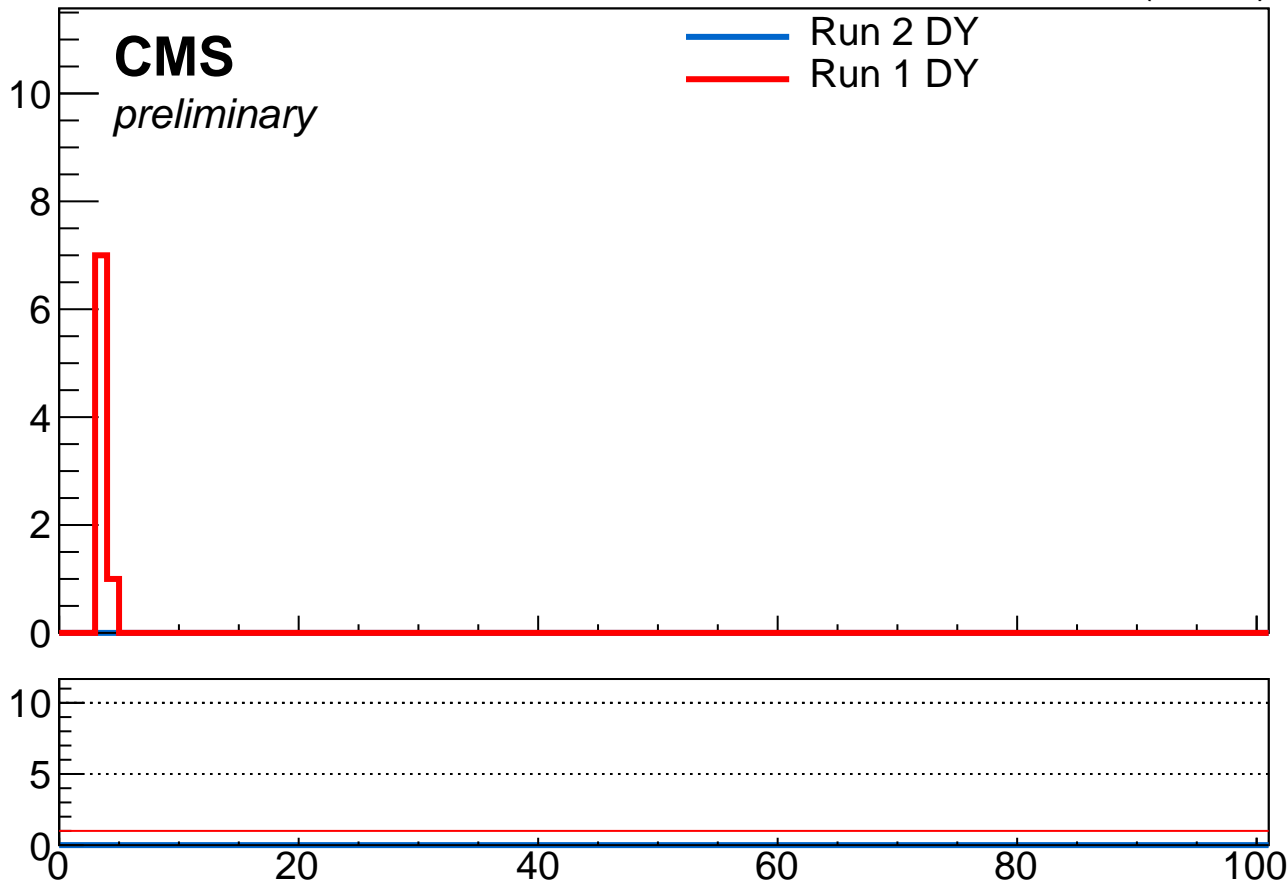
*preliminary*

Run 2 DY

Run 1 DY

**Data/Bkg**

**Run 1 S**

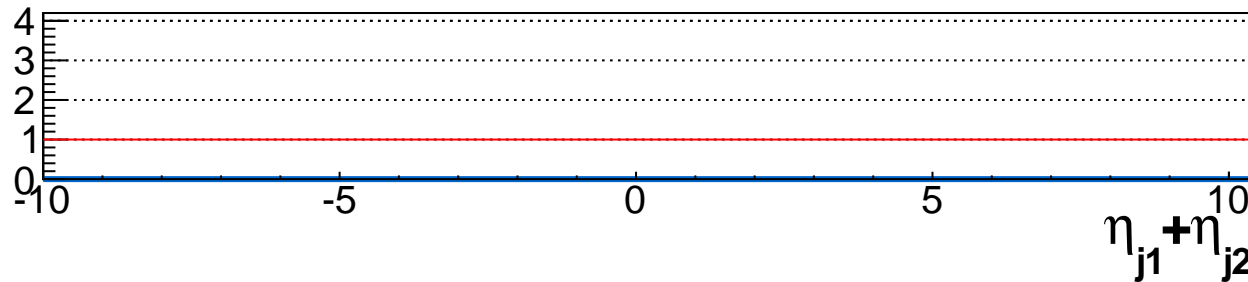
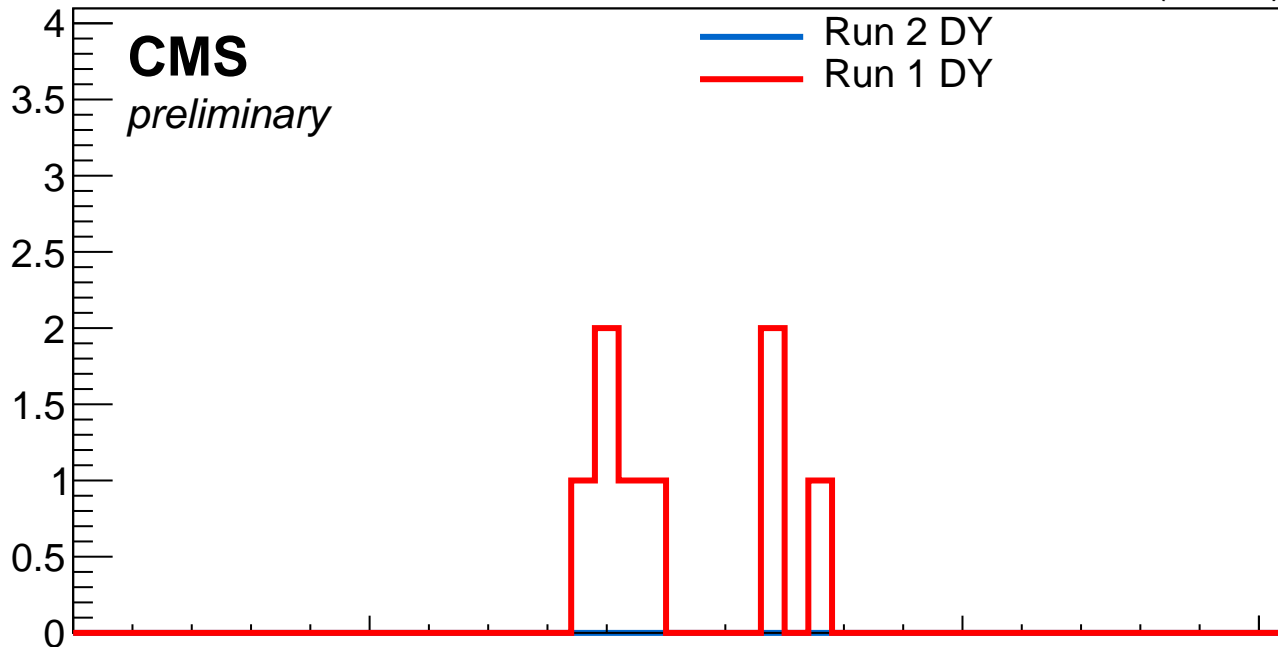


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

— Run 2 DY  
— Run 1 DY

**Data/Bkg**





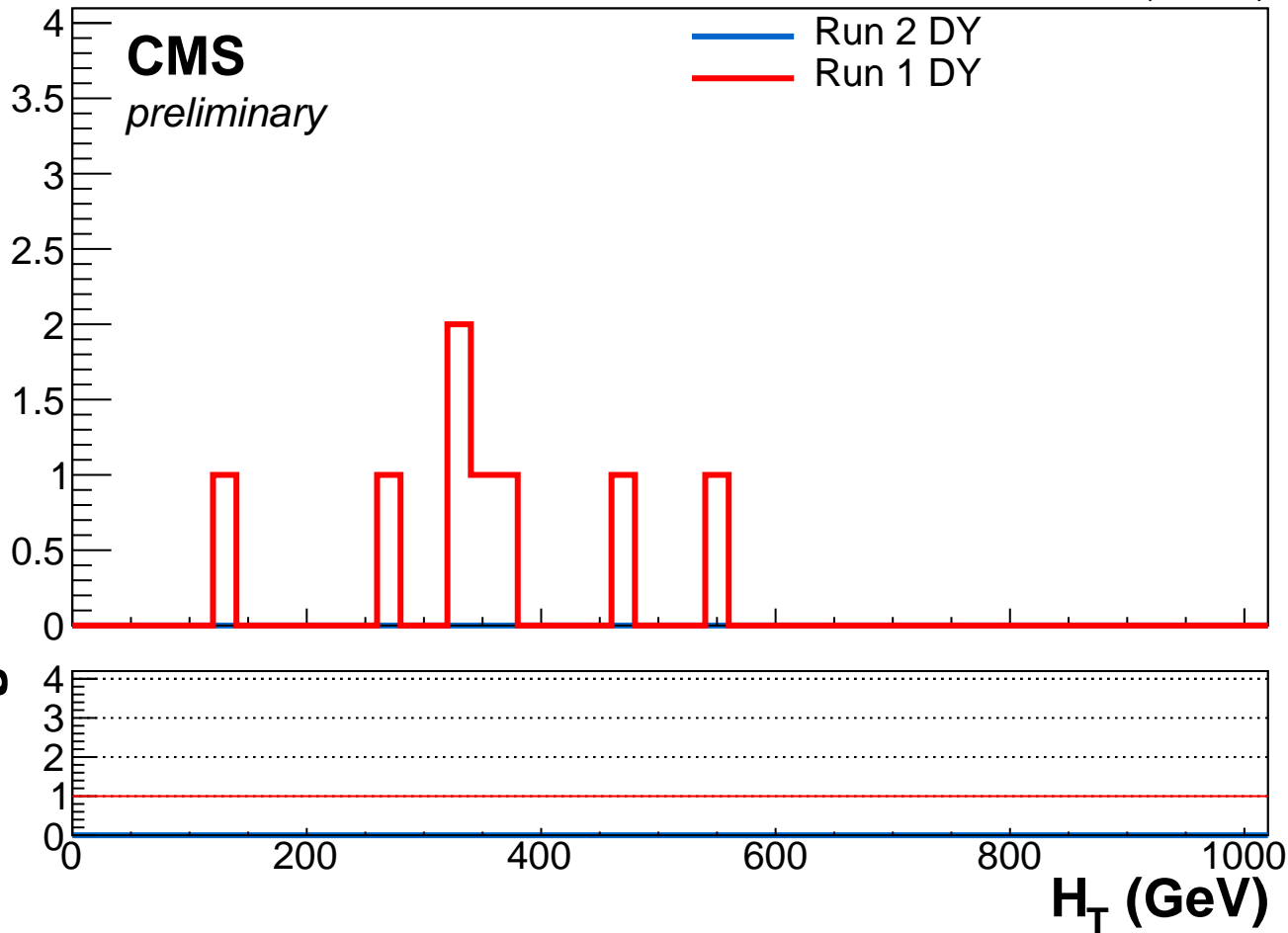
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



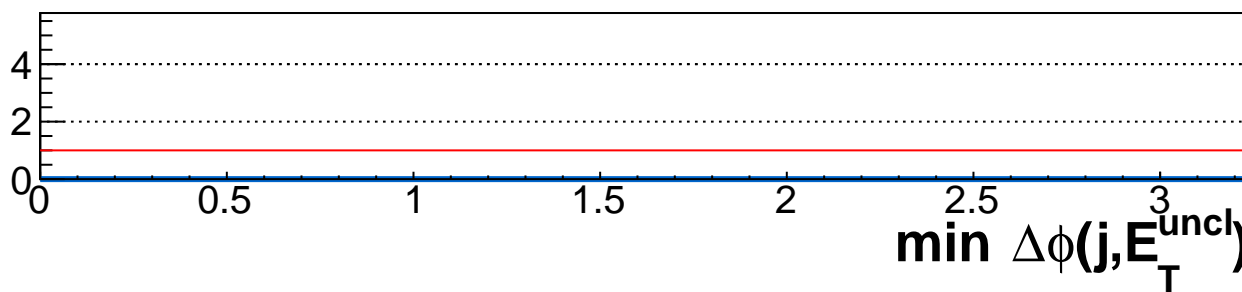
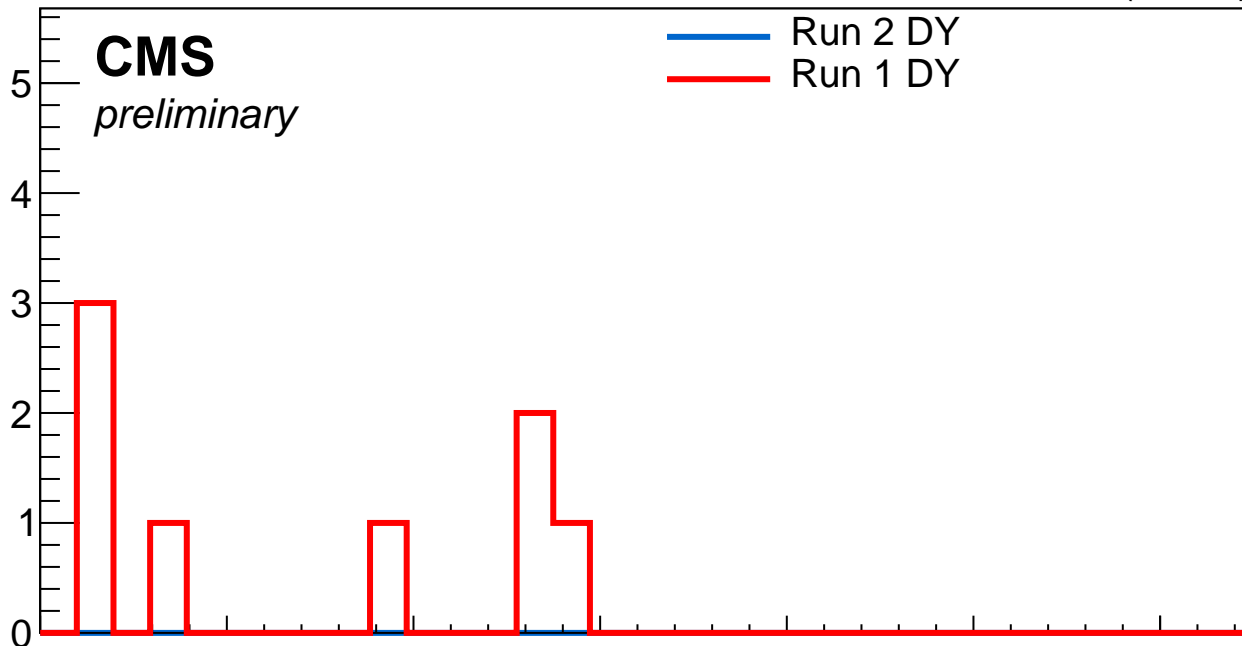
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

Data/Bkg



19.2 fb<sup>-1</sup> (8 TeV)

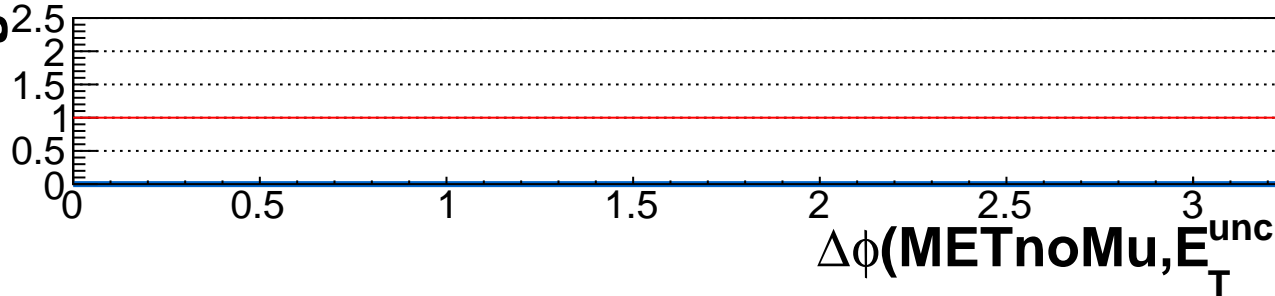
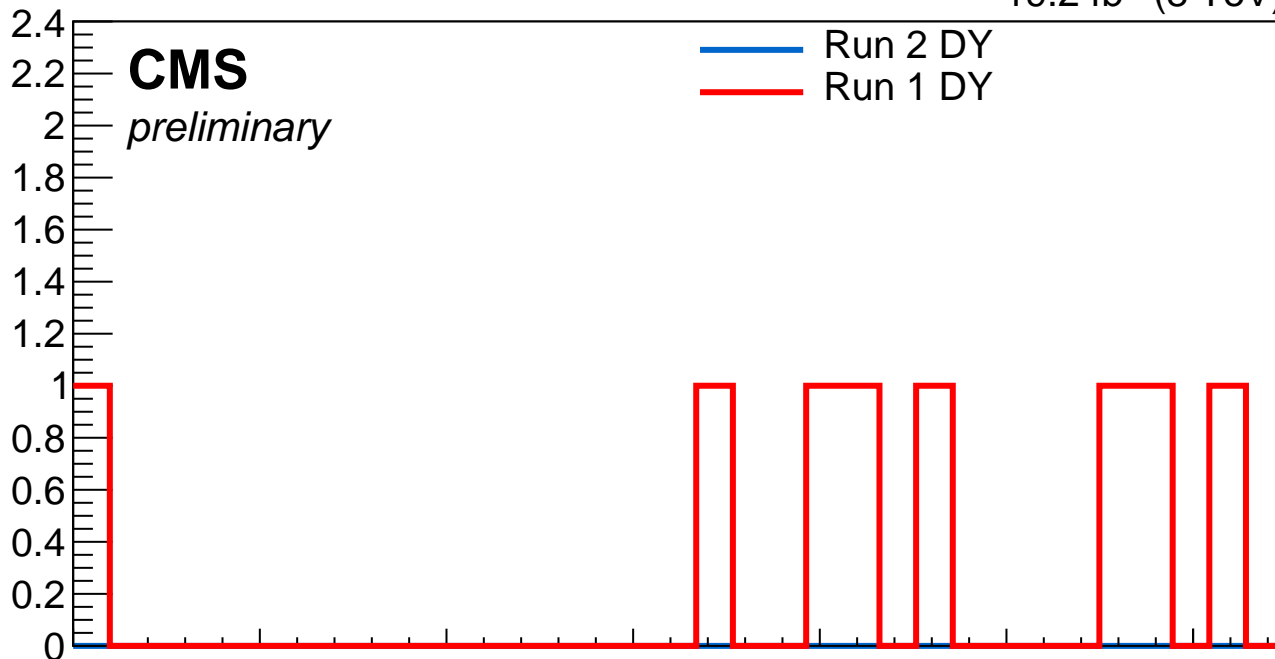
**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

$\Delta\phi(\text{METnoMu}, E_{\text{T}}^{\text{uncl}})$



19.2 fb<sup>-1</sup> (8 TeV)

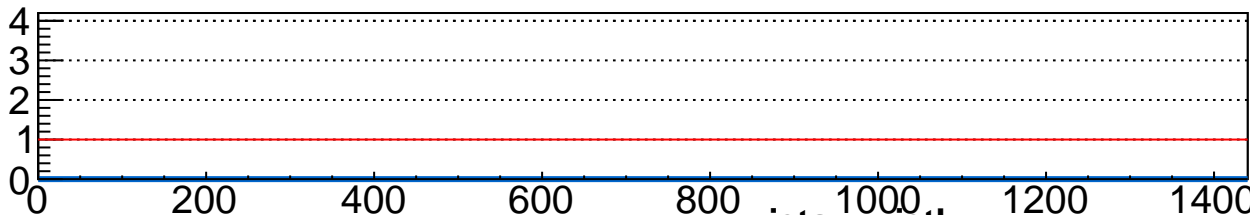
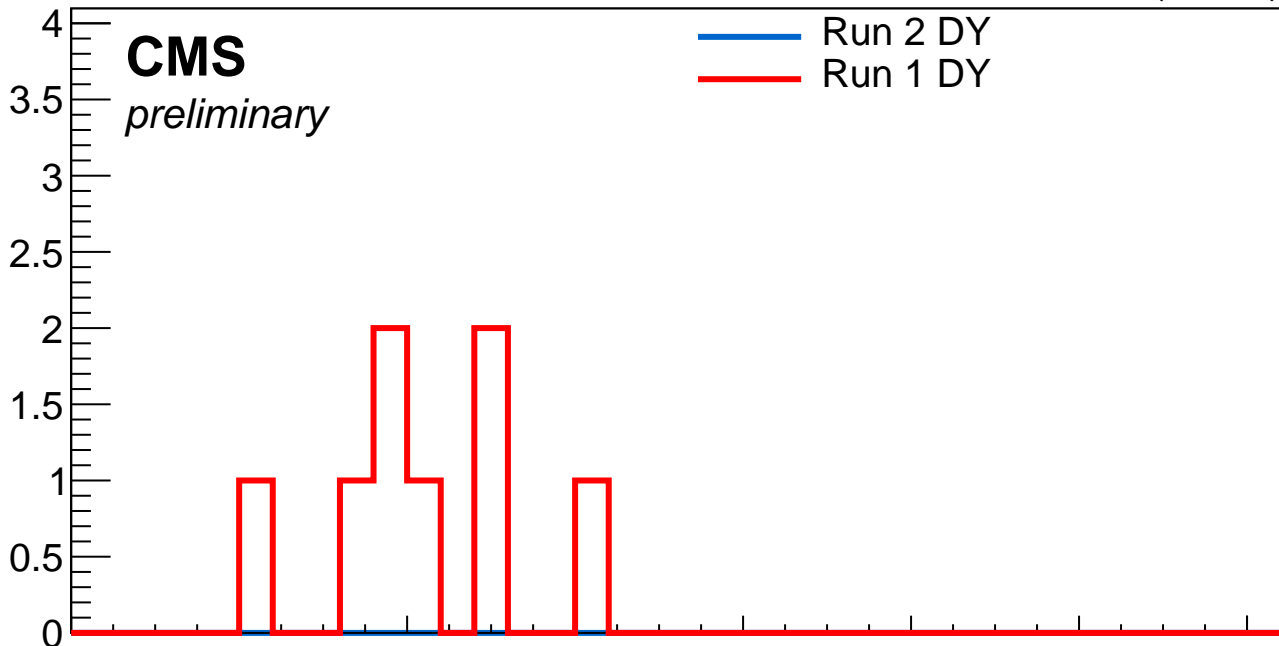
**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

**$p_T^{\text{jeta}} + p_T^{\text{jetb}} + \text{MET}_{\text{noMu}}$**



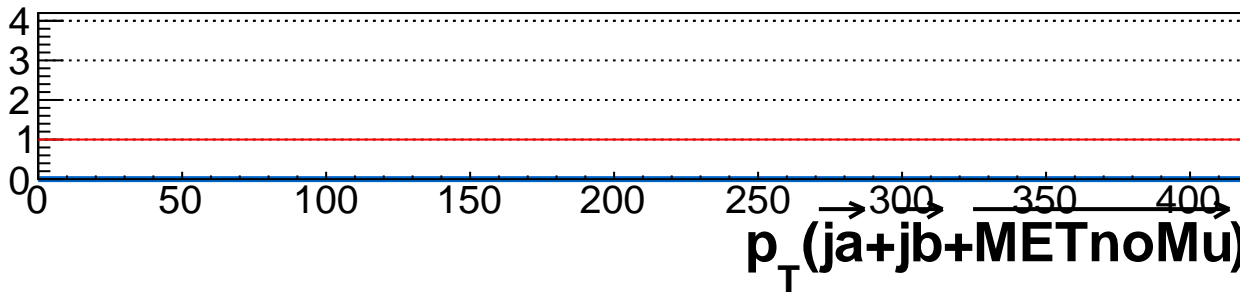
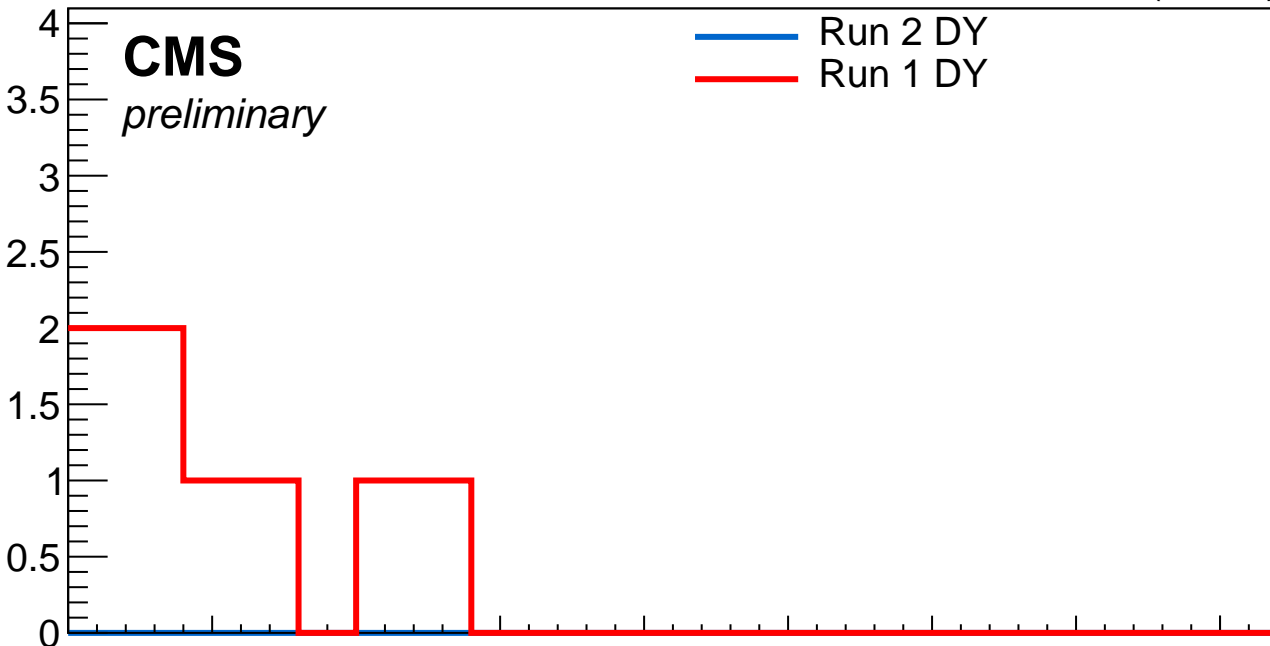
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



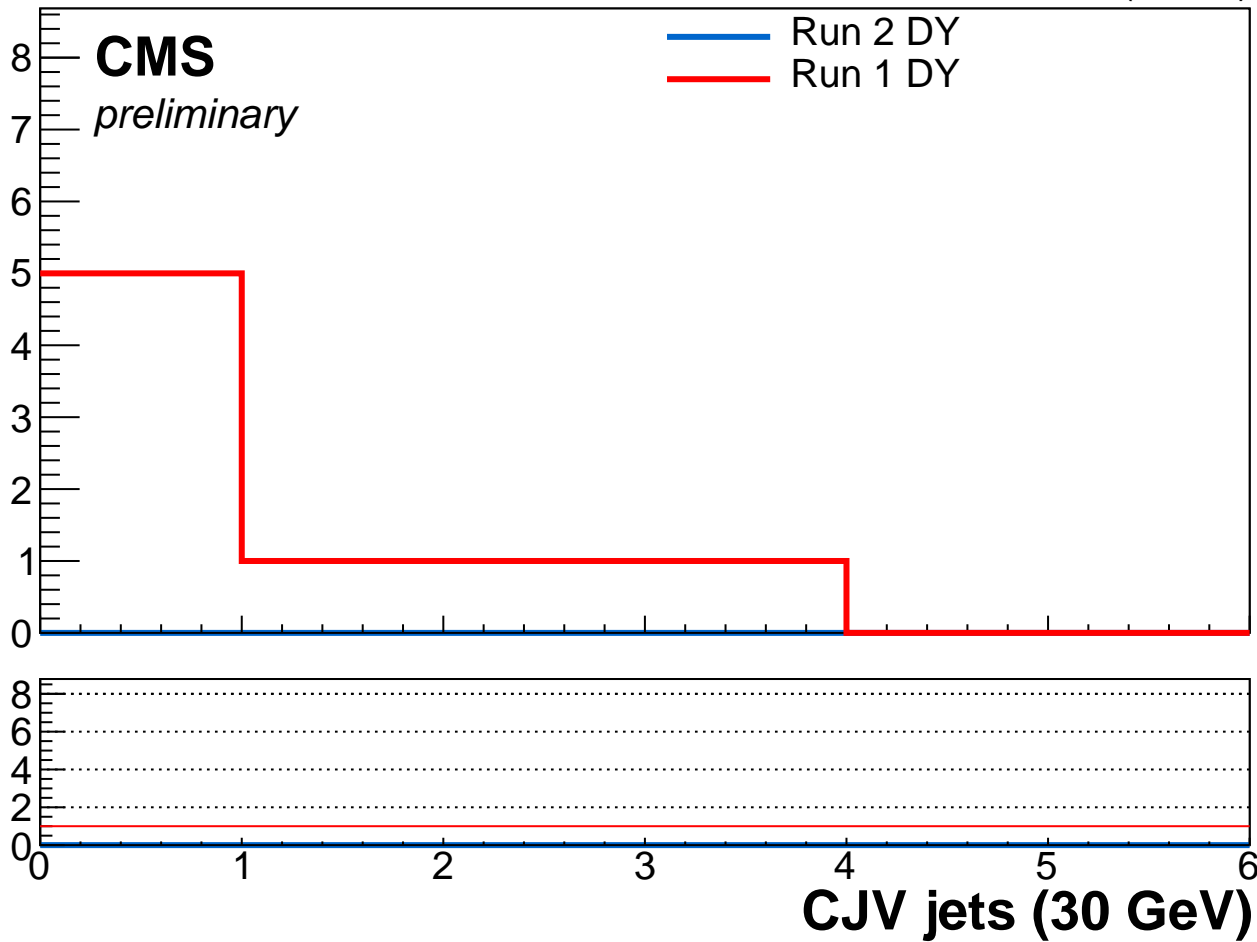
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



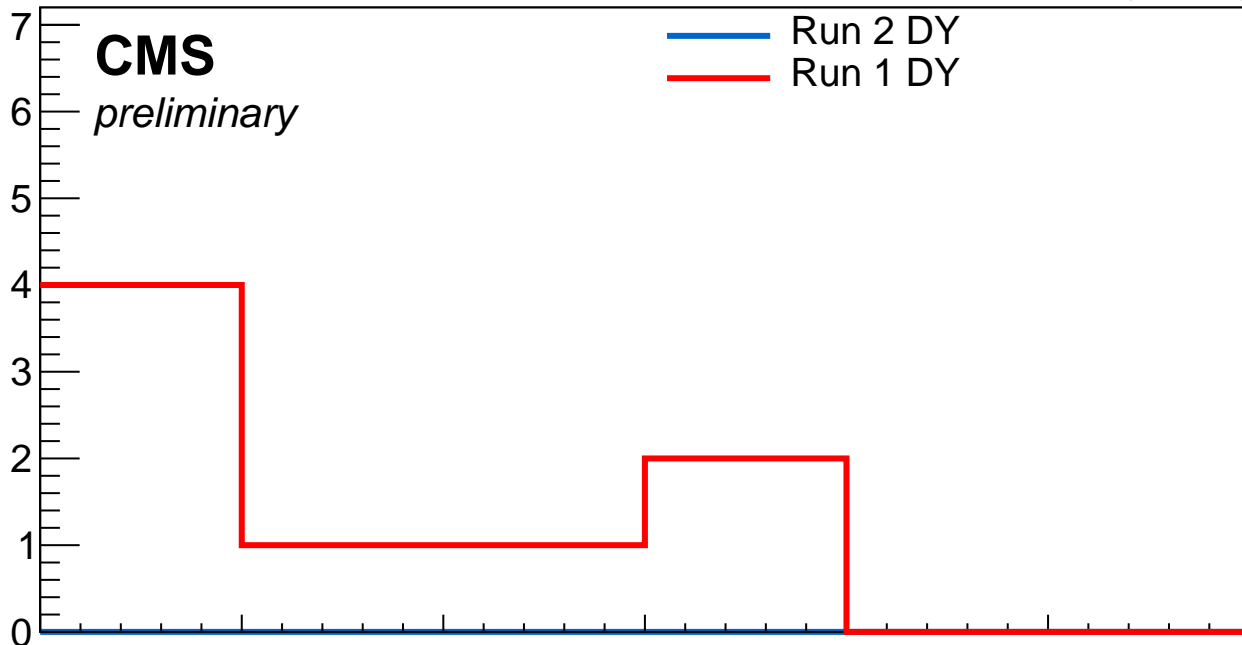
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

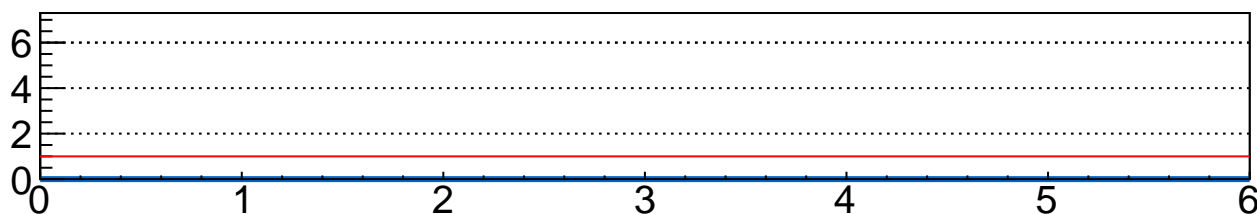
*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



**CJV jets (20 GeV EB, 30 GeV EE)**

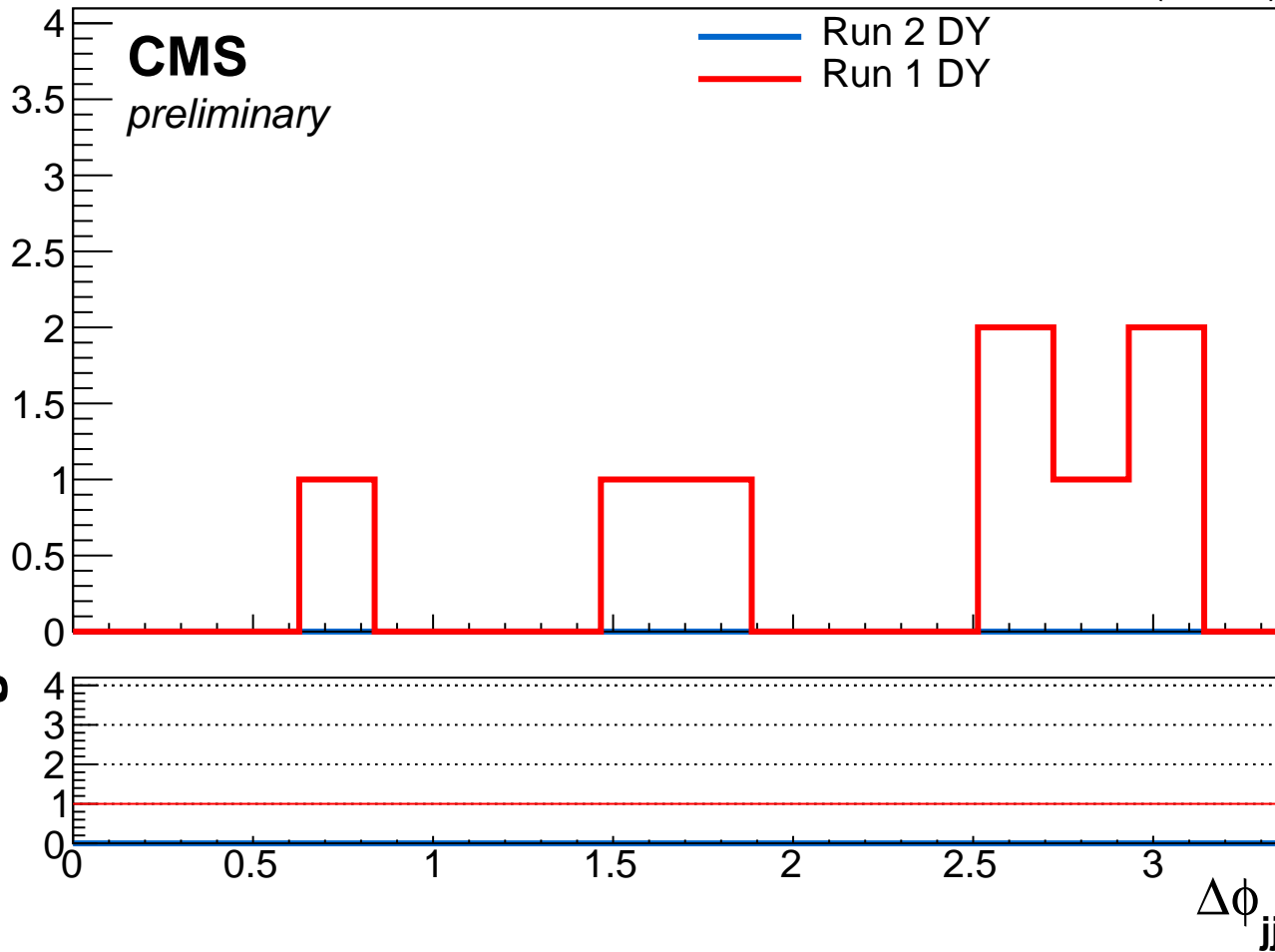


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

— Run 2 DY  
— Run 1 DY

**Data/Bkg**



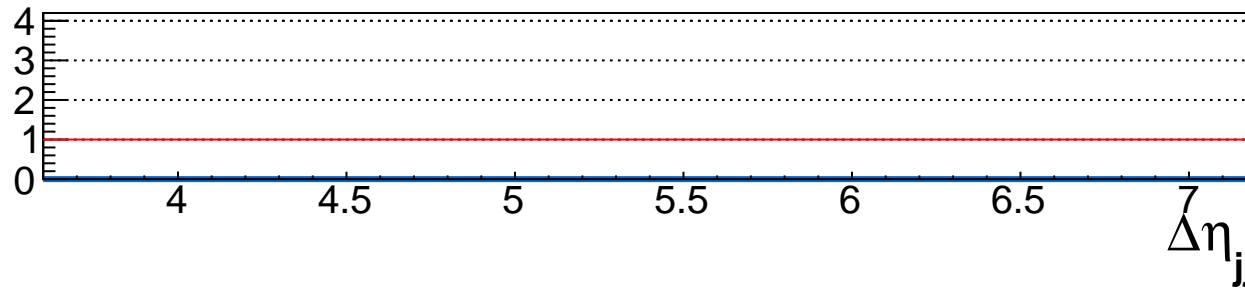
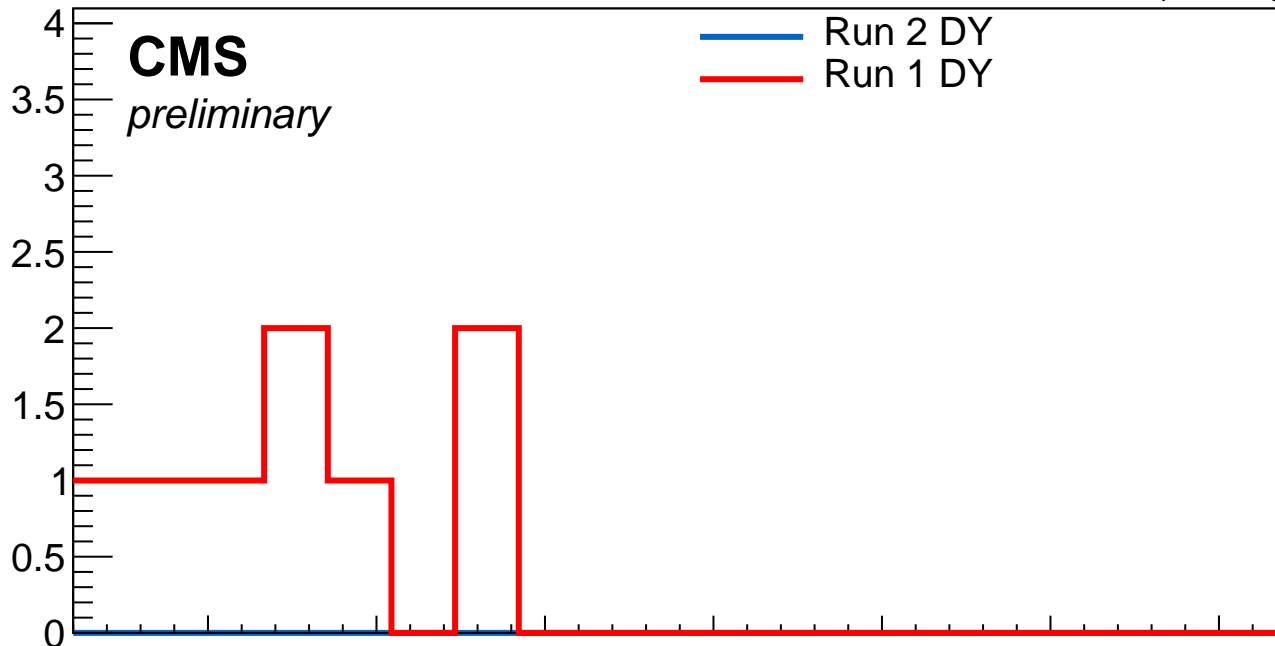


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



19.2 fb<sup>-1</sup> (8 TeV)

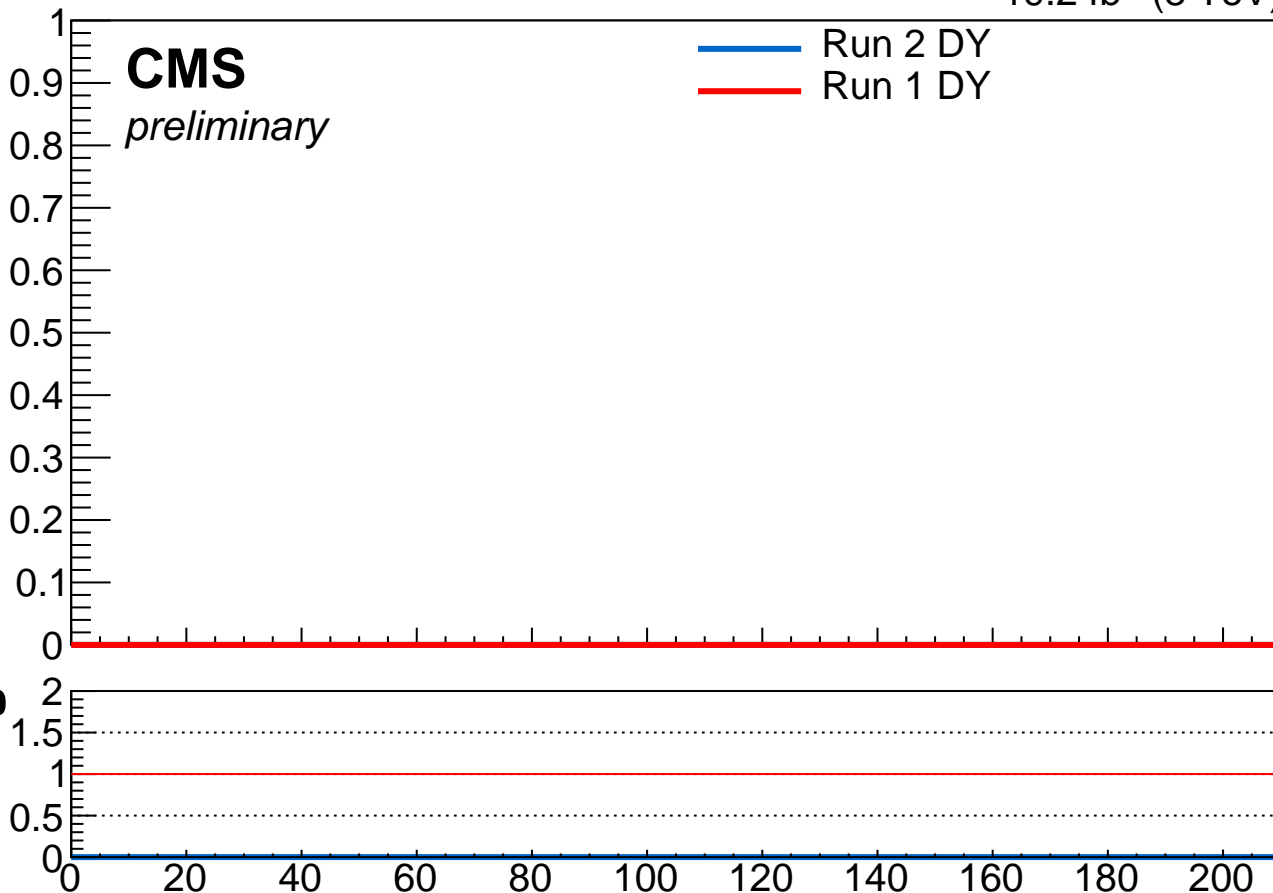
**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

Data/Bkg

$m_T(\text{lepton}+\text{MET})$  (GeV)



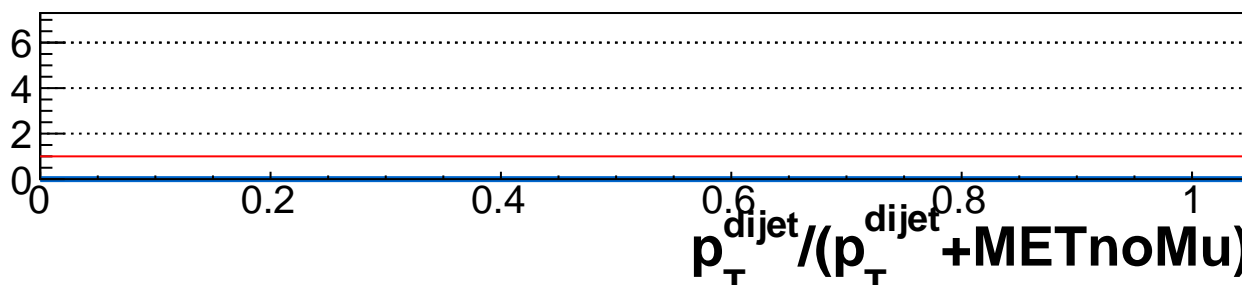
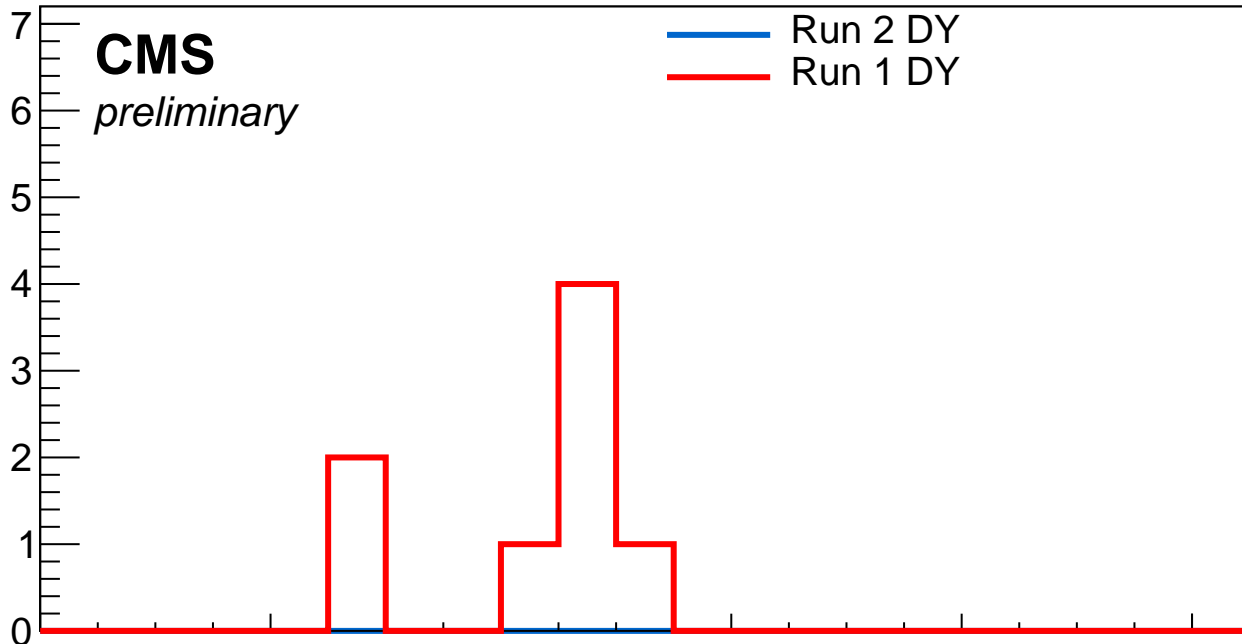
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



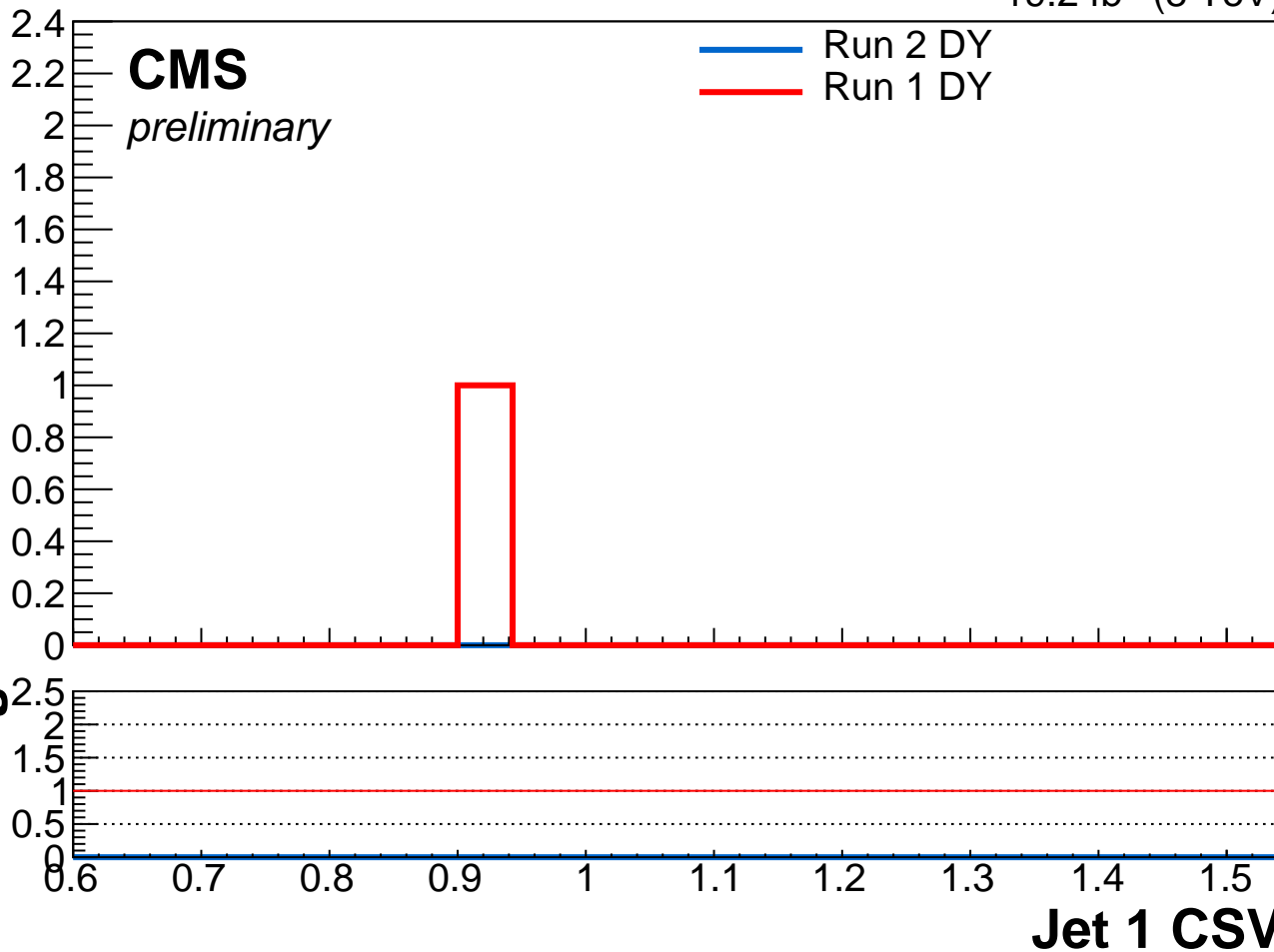
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



19.2 fb<sup>-1</sup> (8 TeV)

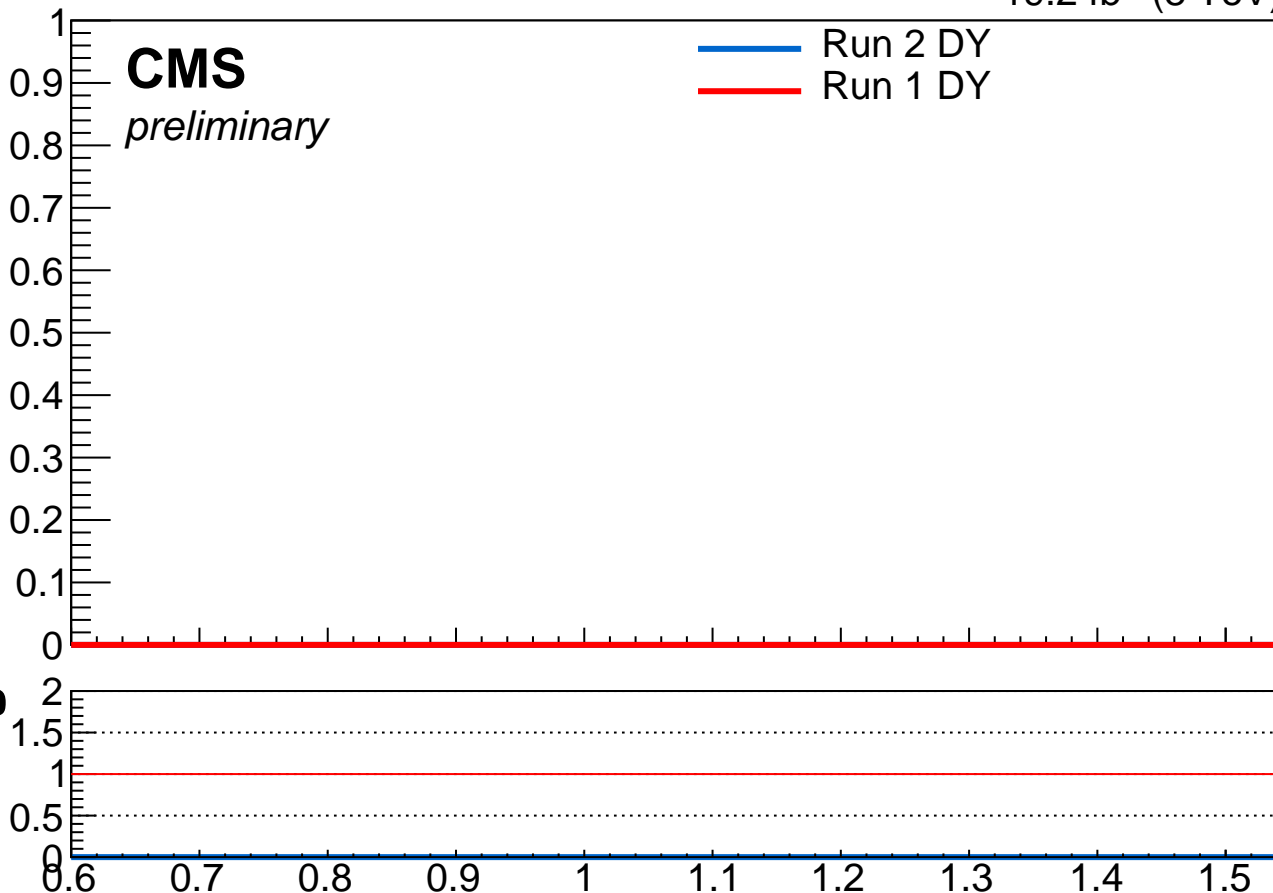
**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

**Jet 2 CSV**



19.2 fb<sup>-1</sup> (8 TeV)

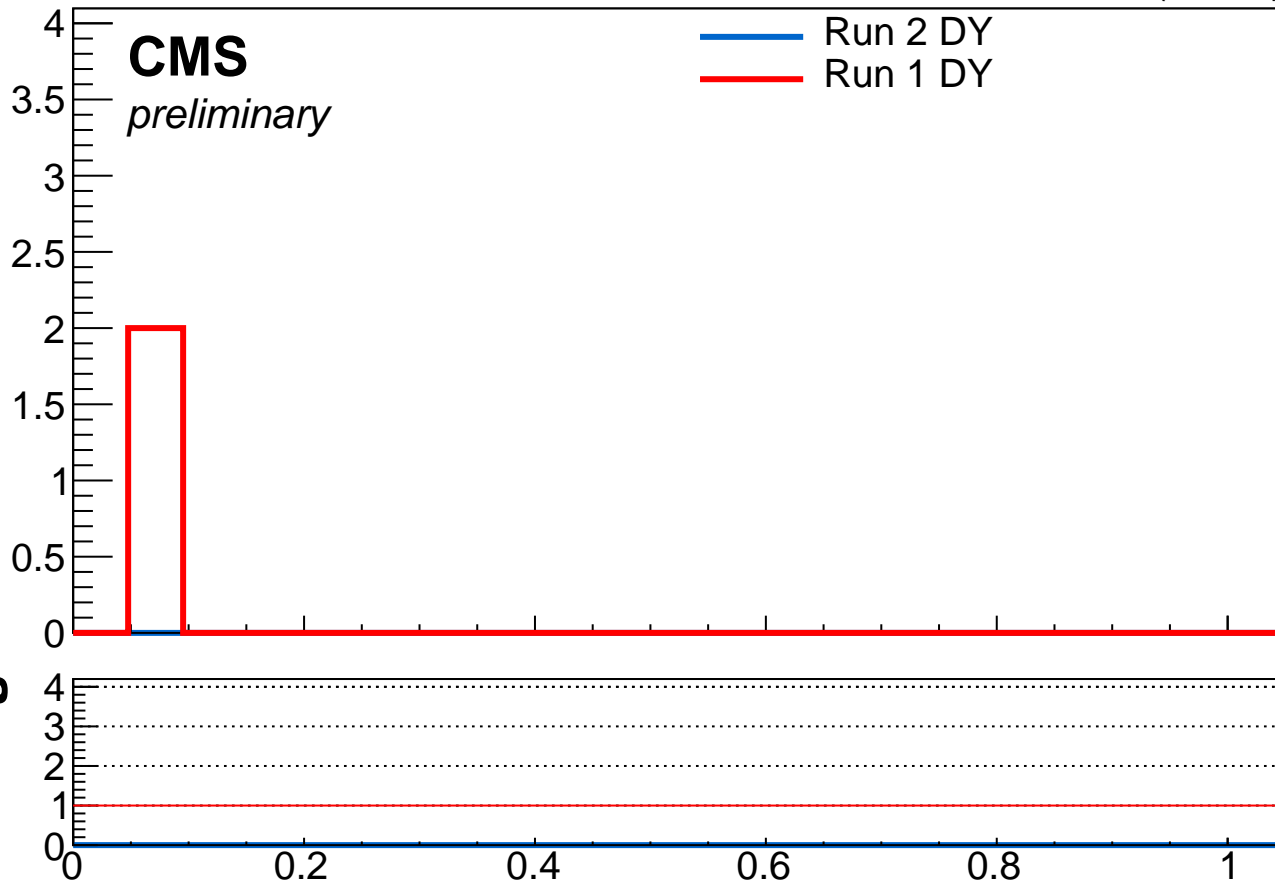
**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

**Jet 3 CSV**



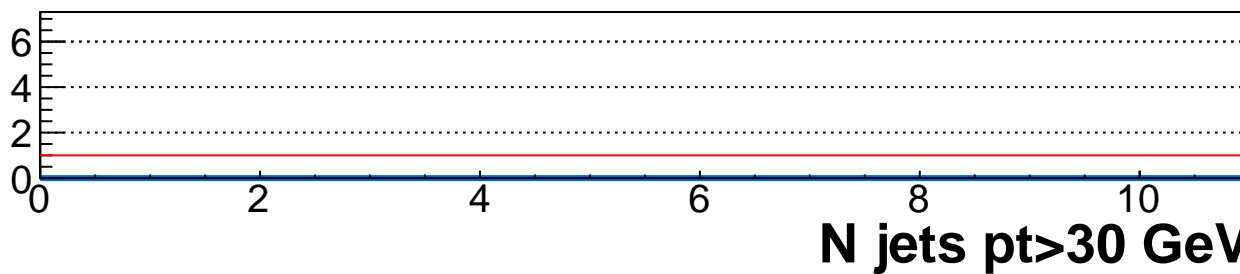
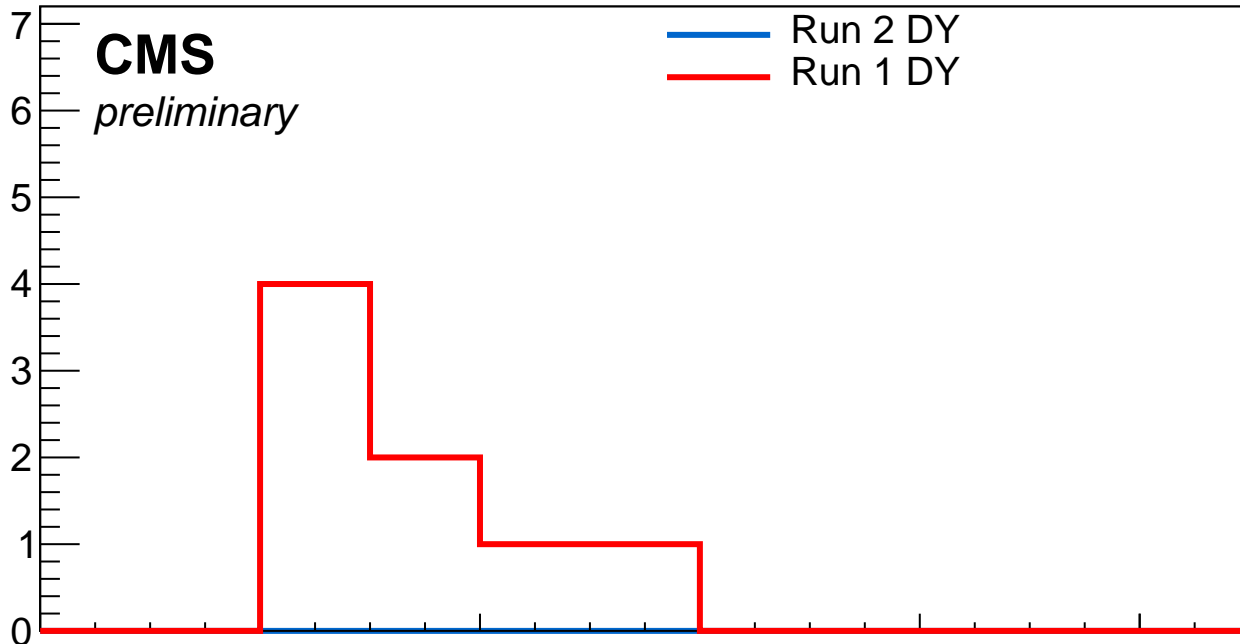
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



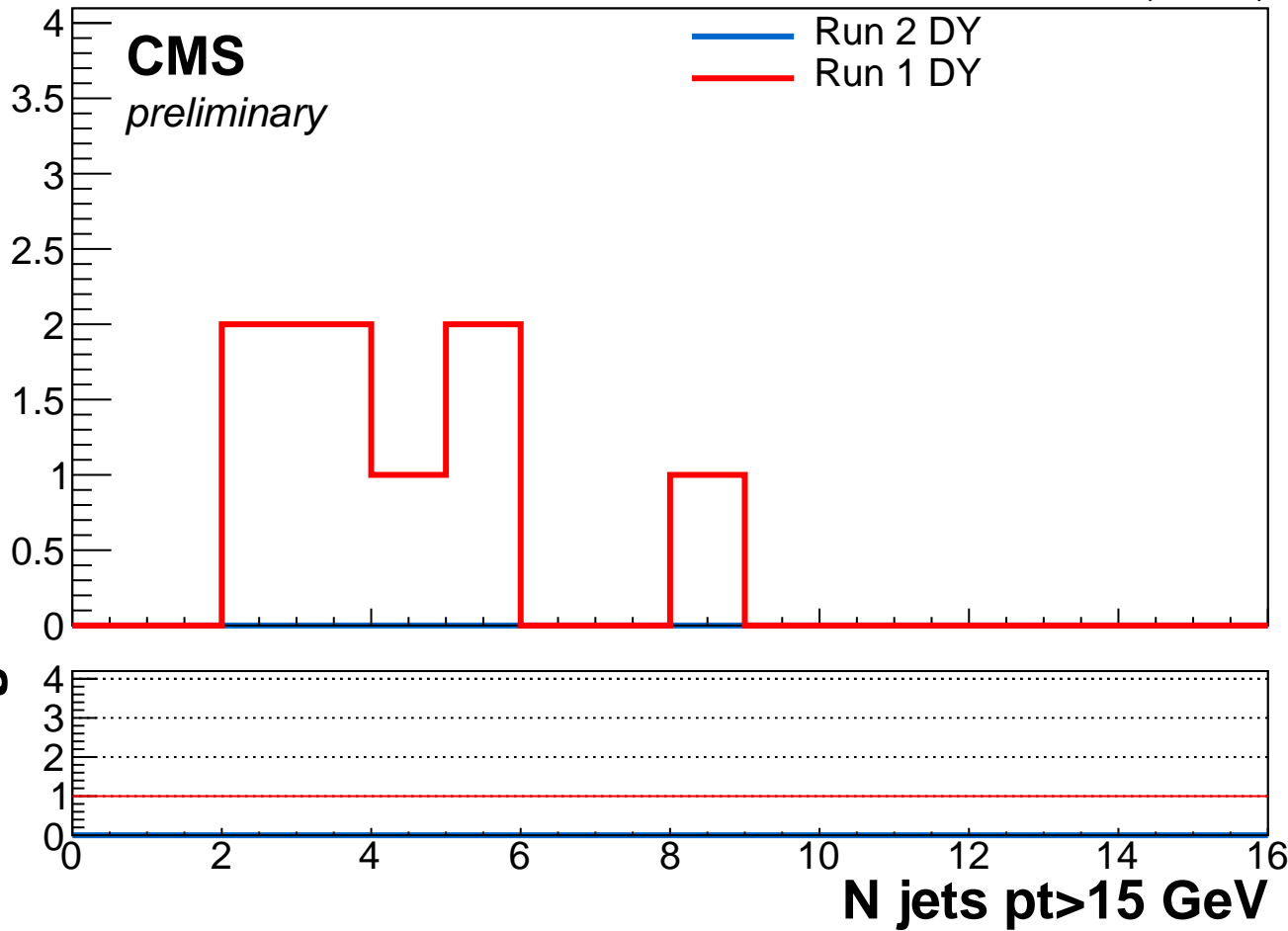
19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**



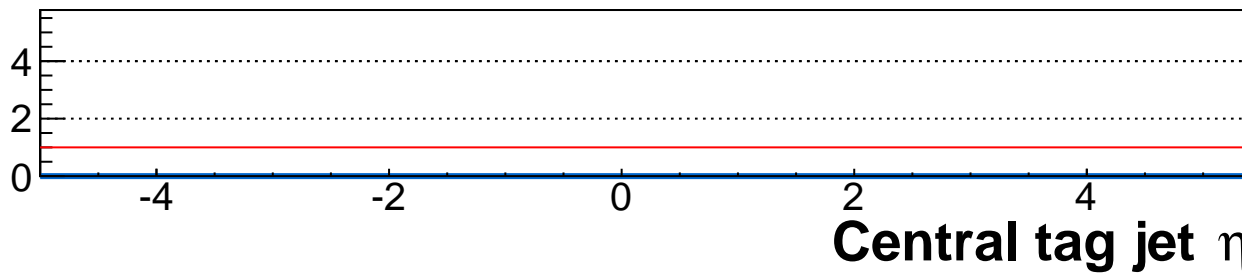
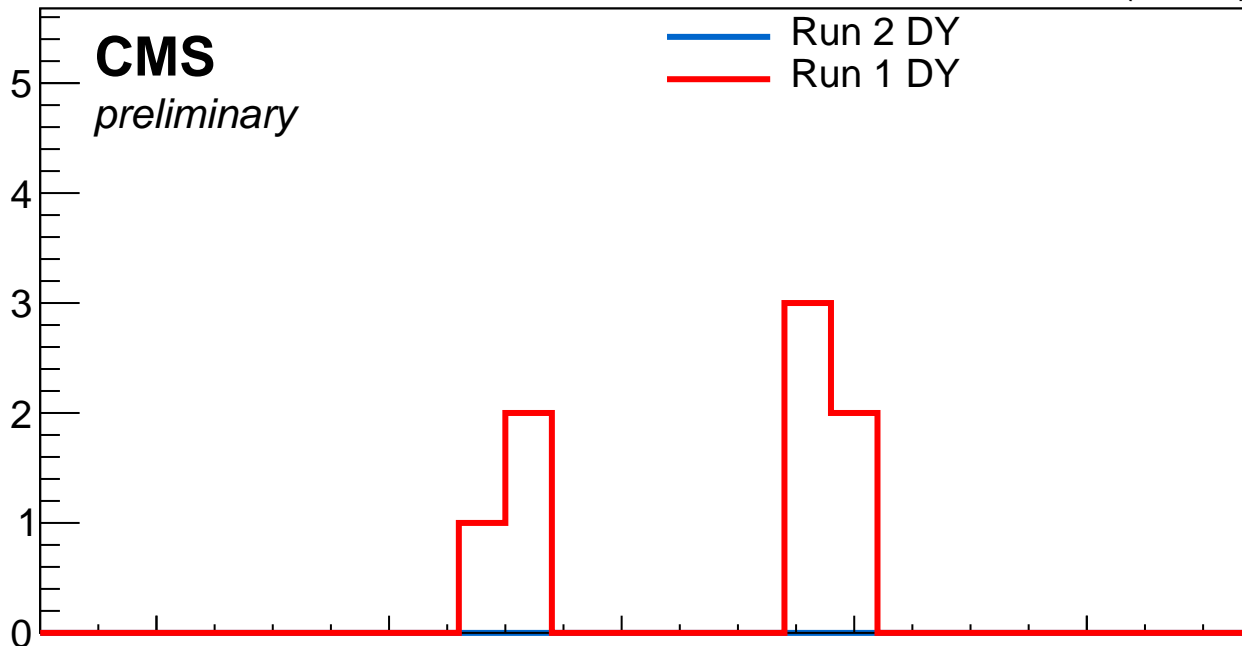


19.2 fb<sup>-1</sup> (8 TeV)

**CMS**  
*preliminary*

— Run 2 DY  
— Run 1 DY

**Data/Bkg**



19.2 fb<sup>-1</sup> (8 TeV)

**CMS**

*preliminary*

Run 2 DY  
Run 1 DY

**Data/Bkg**

