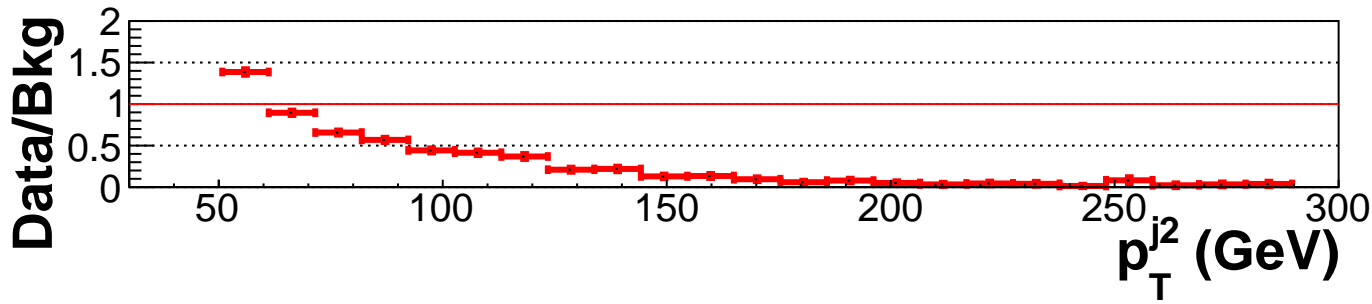
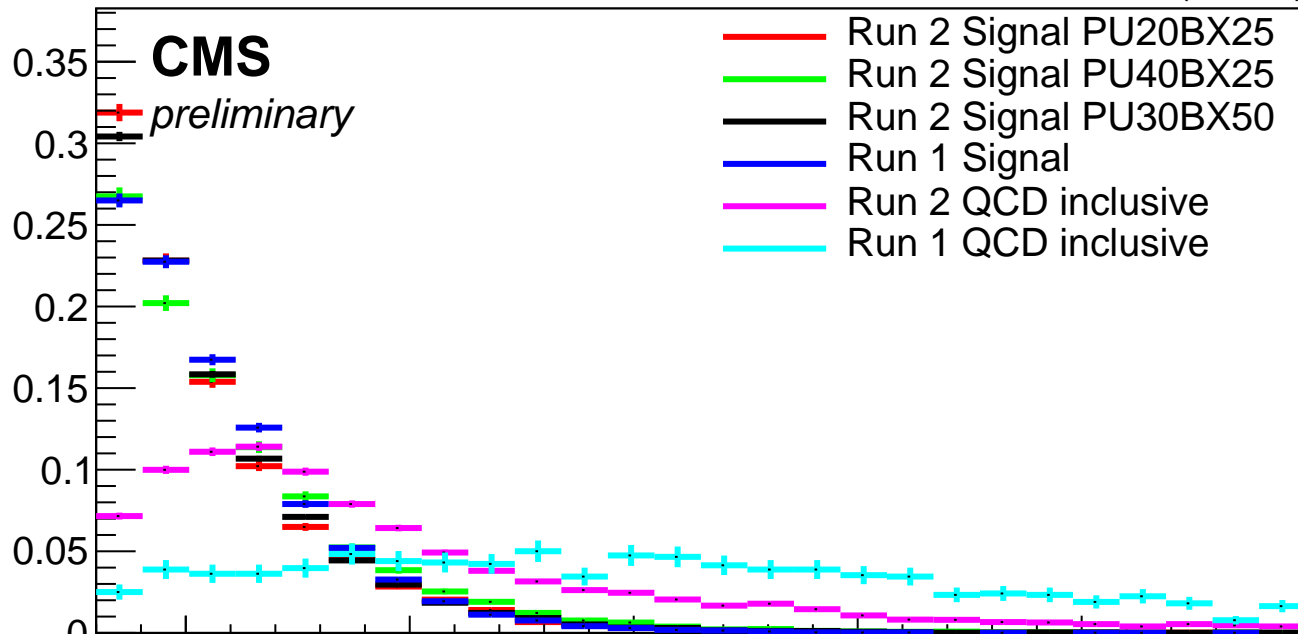


19.2 fb⁻¹ (8 TeV)

CMS

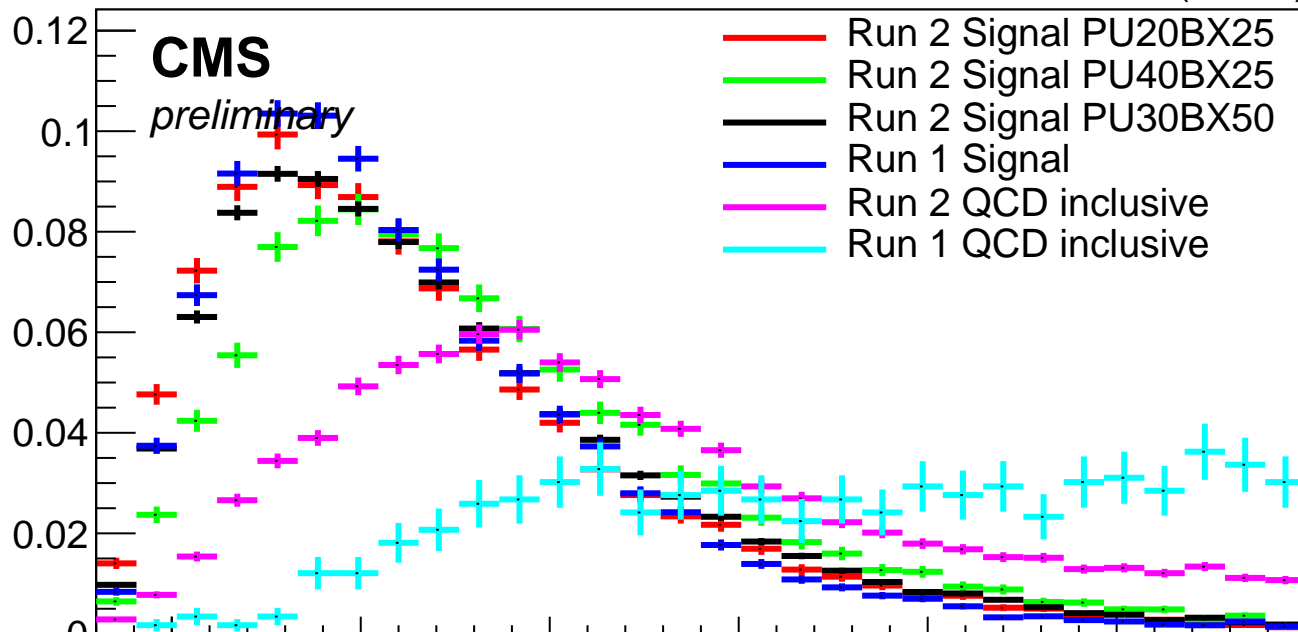
preliminary



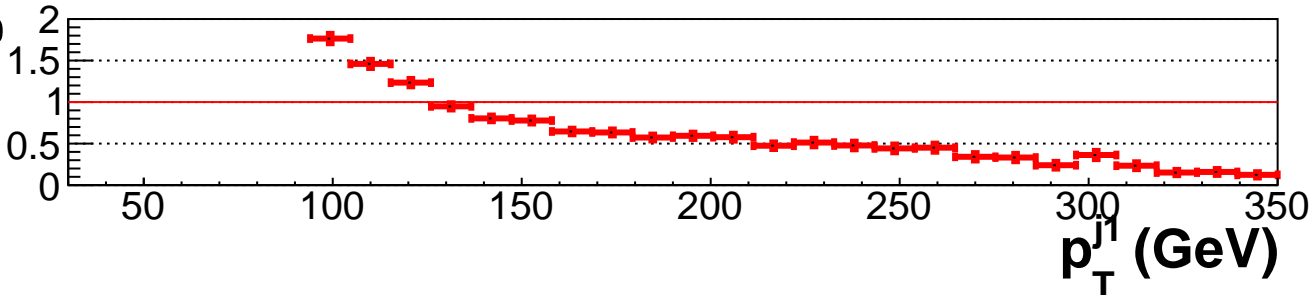
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

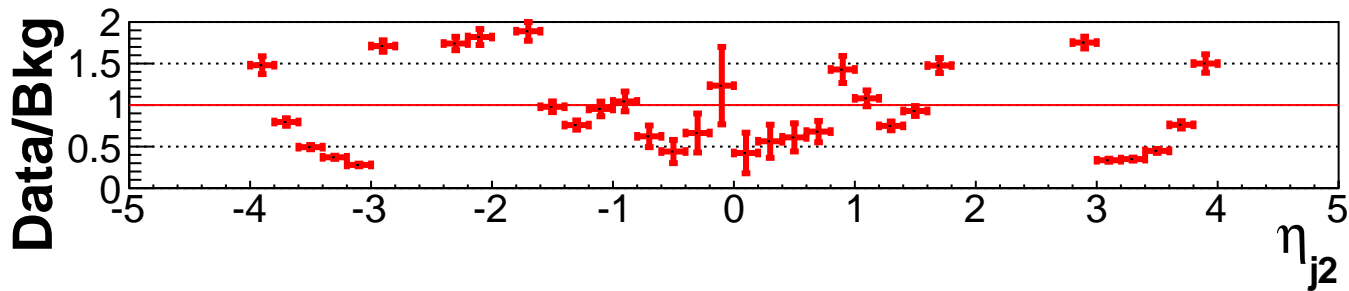
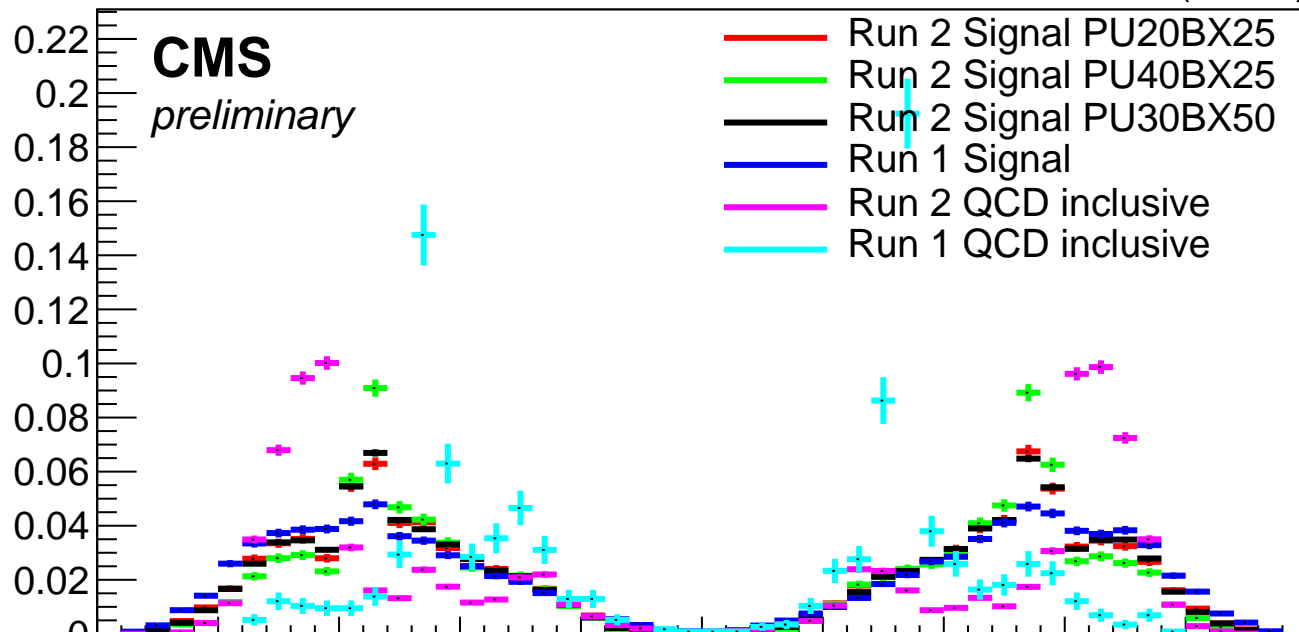


Data/Bkg



19.2 fb⁻¹ (8 TeV)

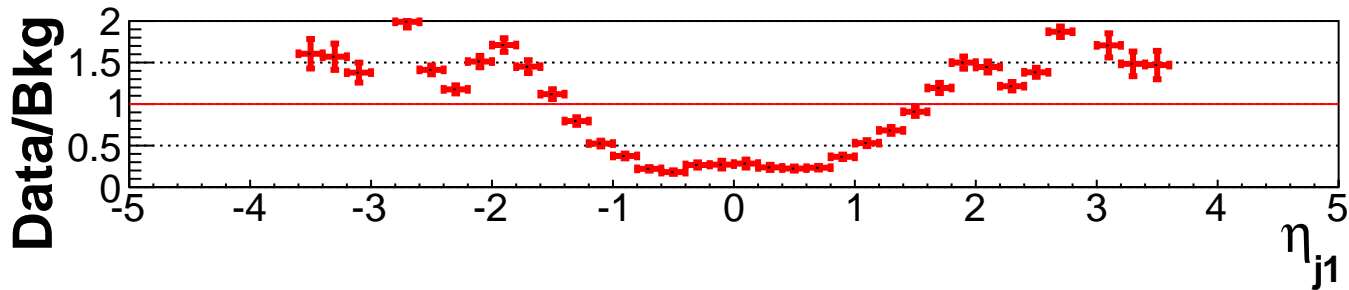
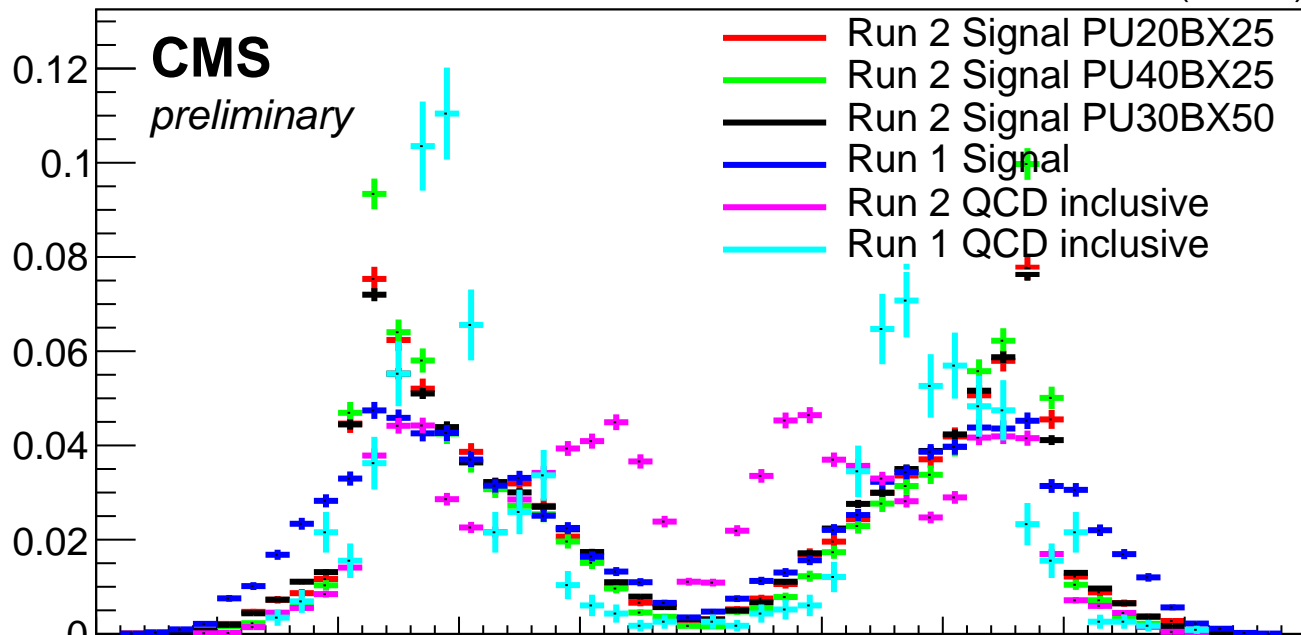
CMS
preliminary



19.2 fb⁻¹ (8 TeV)

CMS

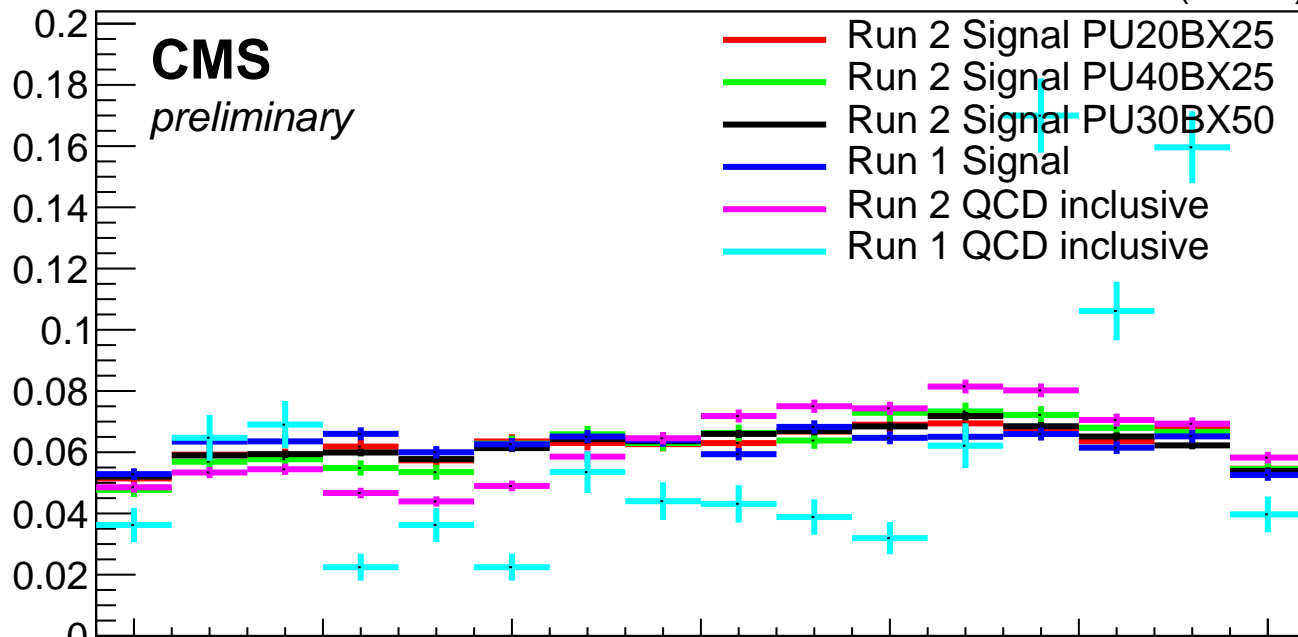
preliminary



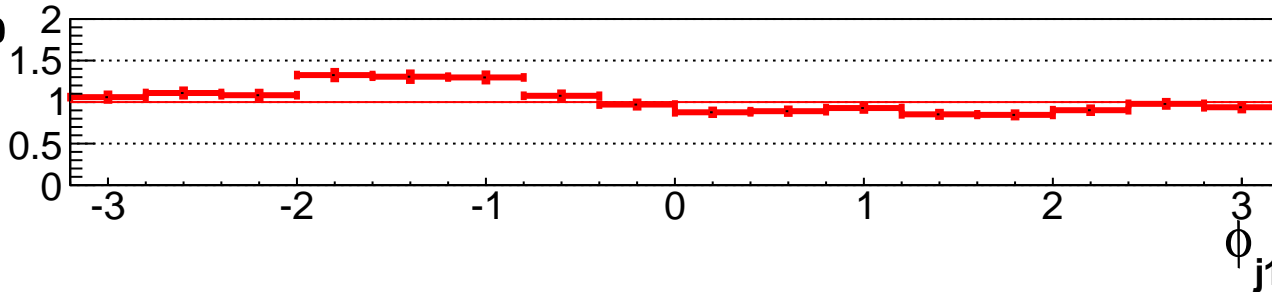
19.2 fb⁻¹ (8 TeV)

CMS
preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



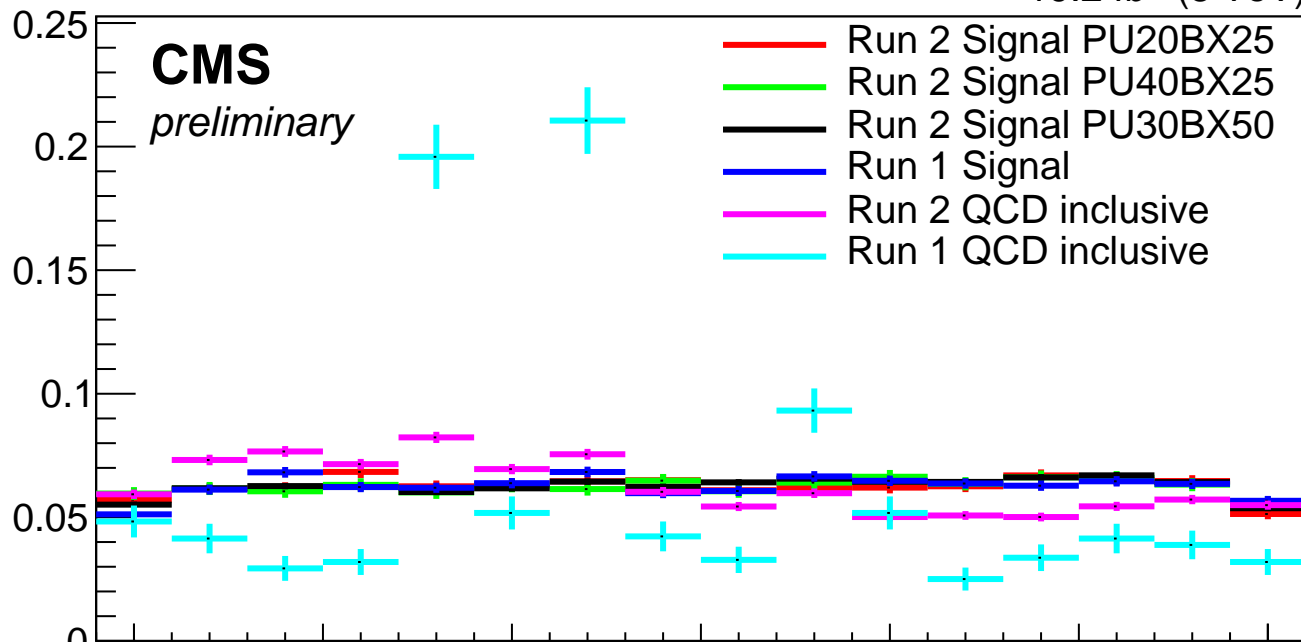
Data/Bkg



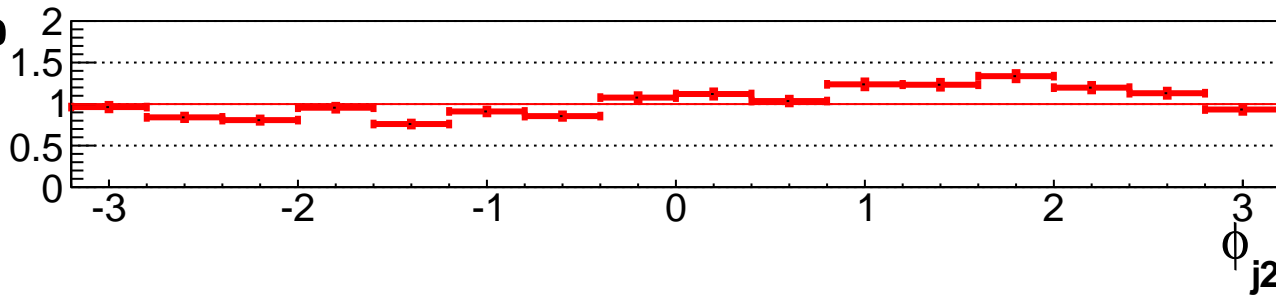
19.2 fb⁻¹ (8 TeV)

CMS

preliminary



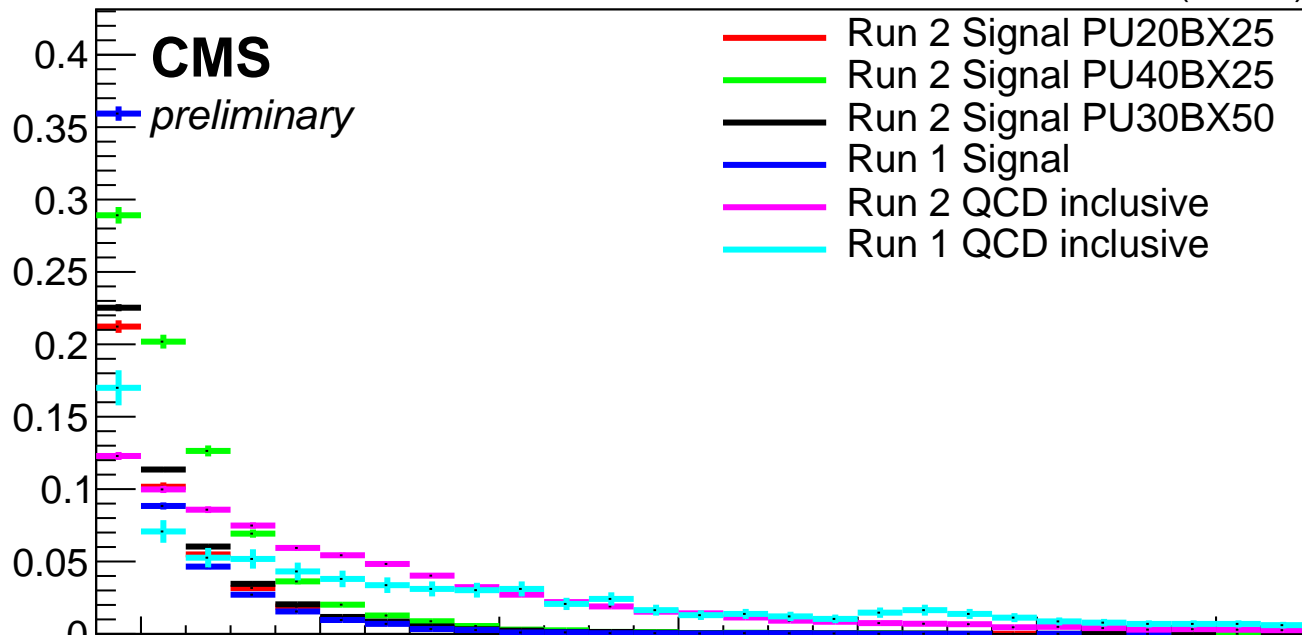
Data/Bkg



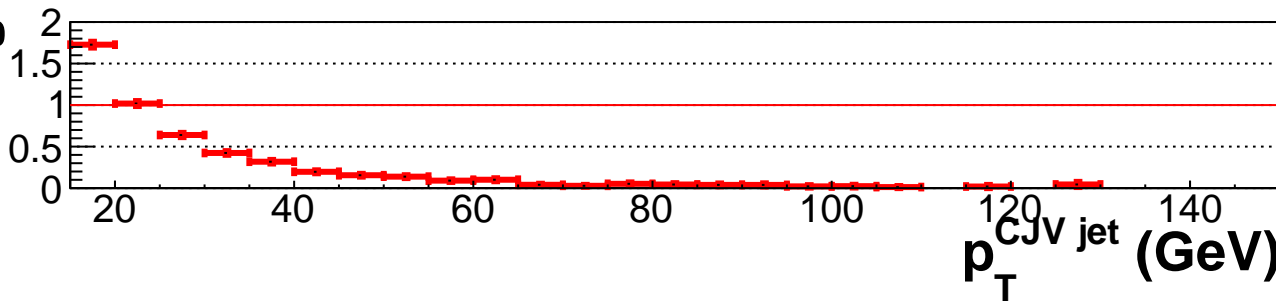
19.2 fb⁻¹ (8 TeV)

CMS

preliminary



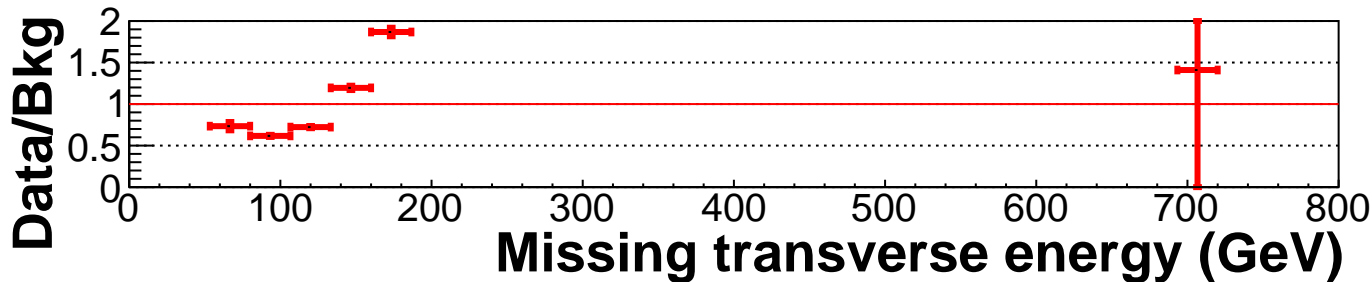
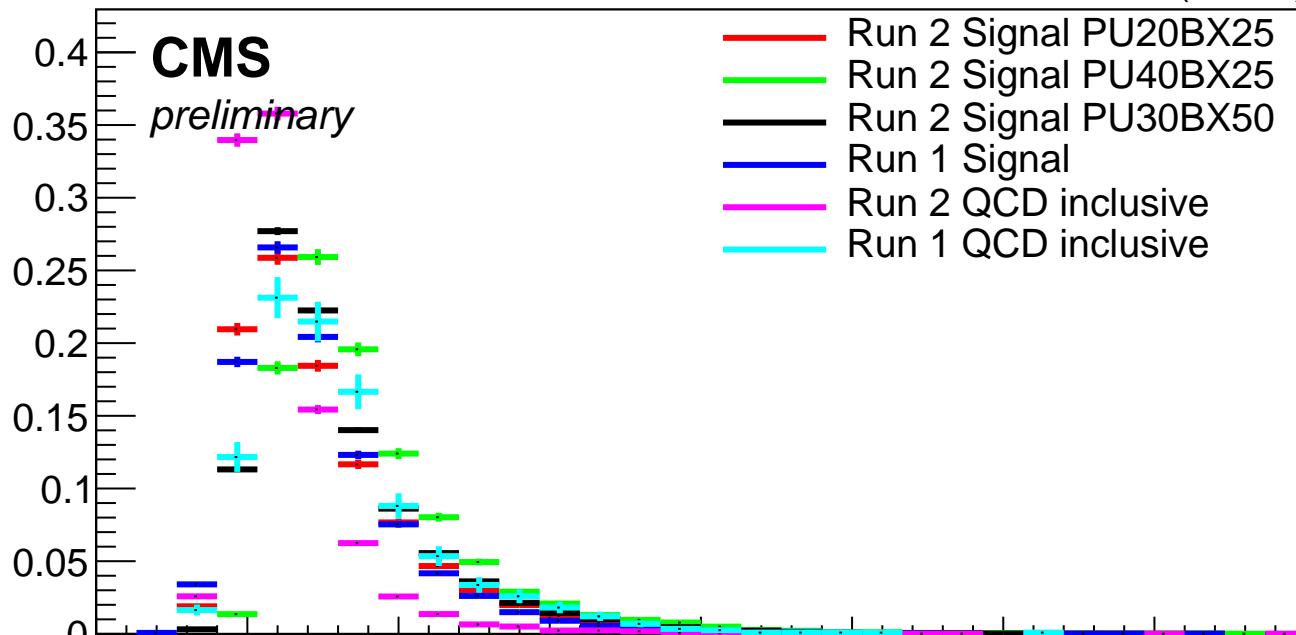
Data/Bkg



19.2 fb⁻¹ (8 TeV)

CMS

preliminary

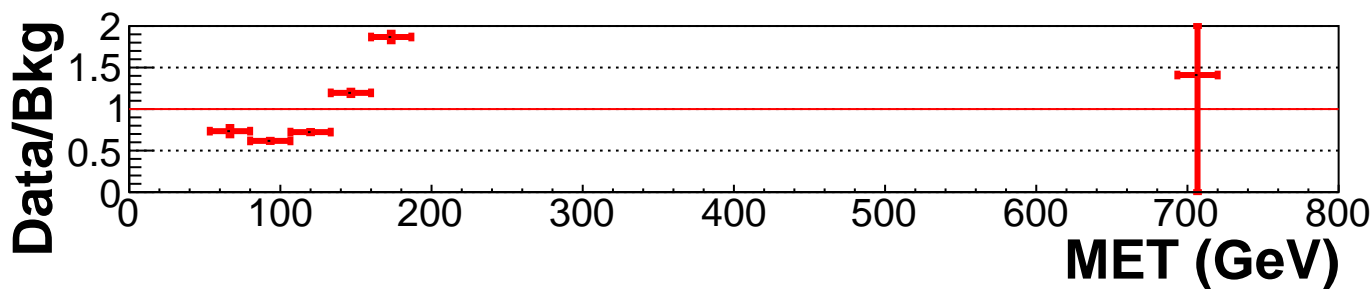


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

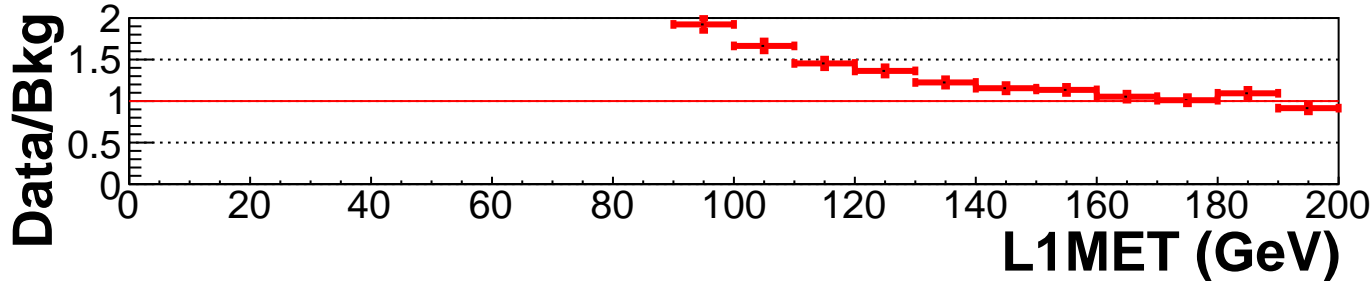
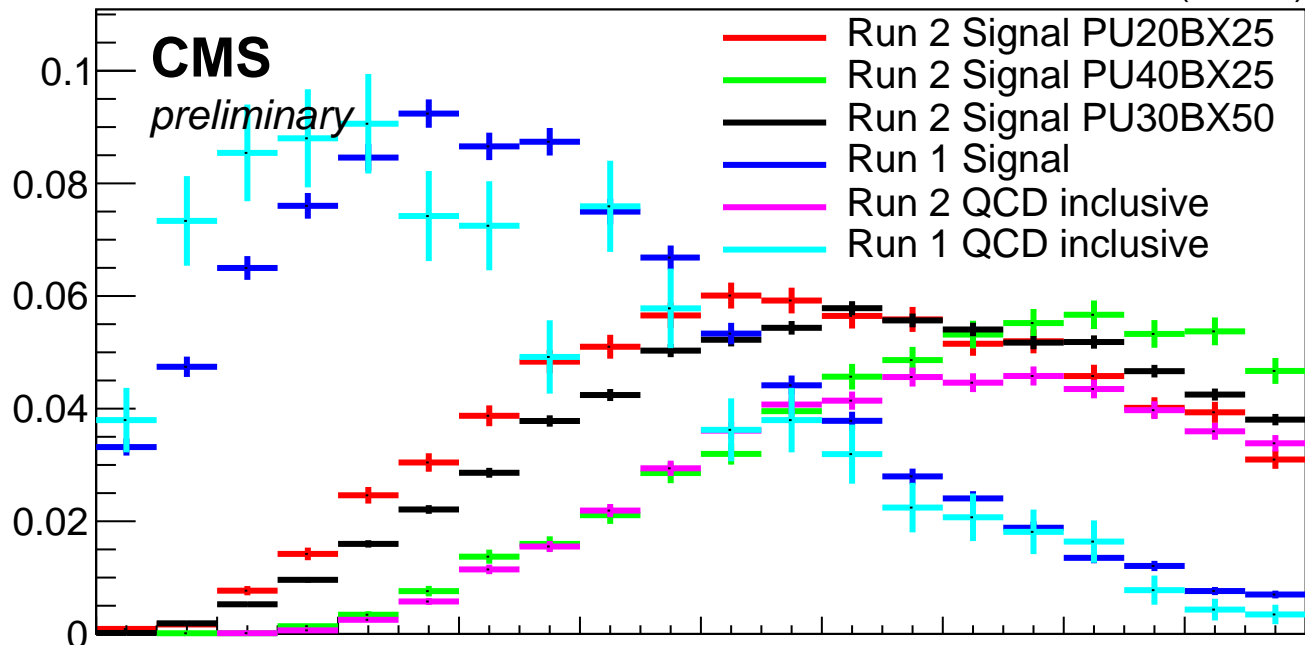
- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



19.2 fb⁻¹ (8 TeV)

CMS

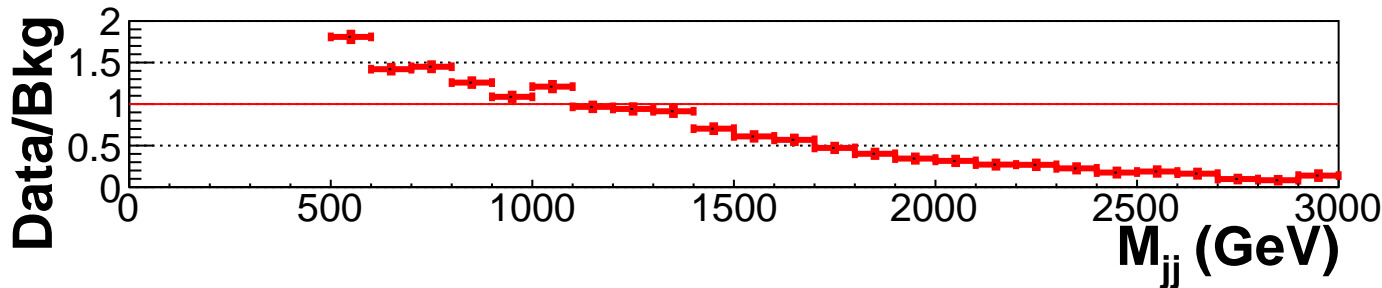
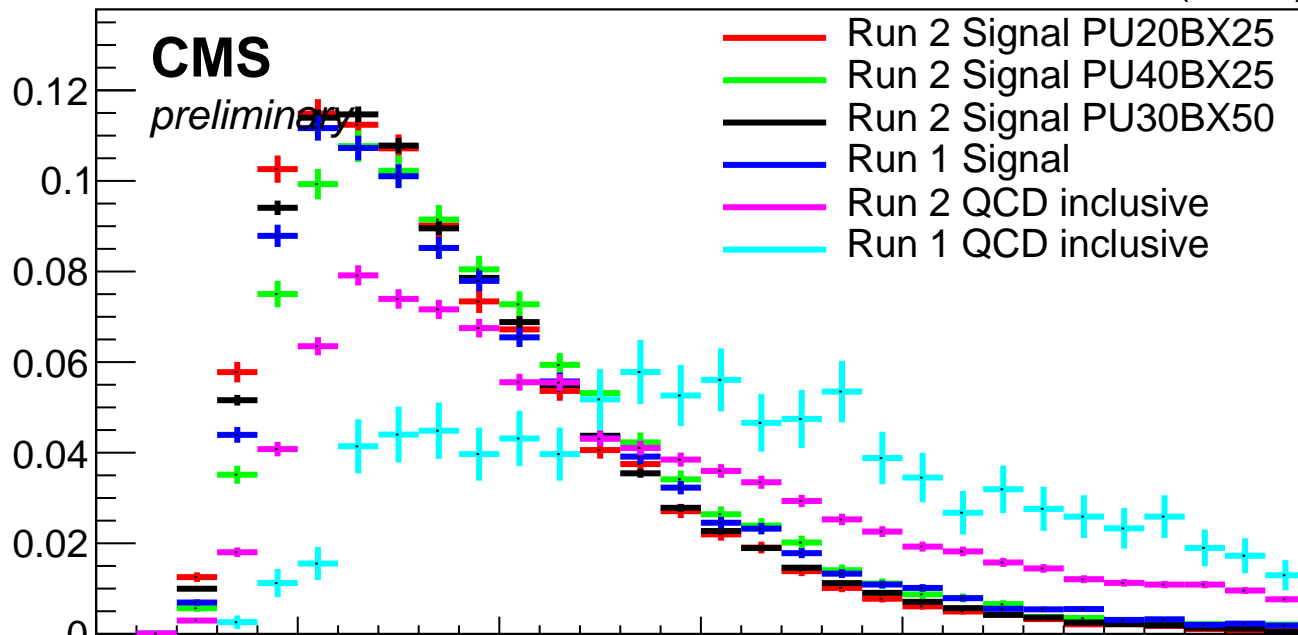
preliminary



19.2 fb⁻¹ (8 TeV)

CMS

preliminary



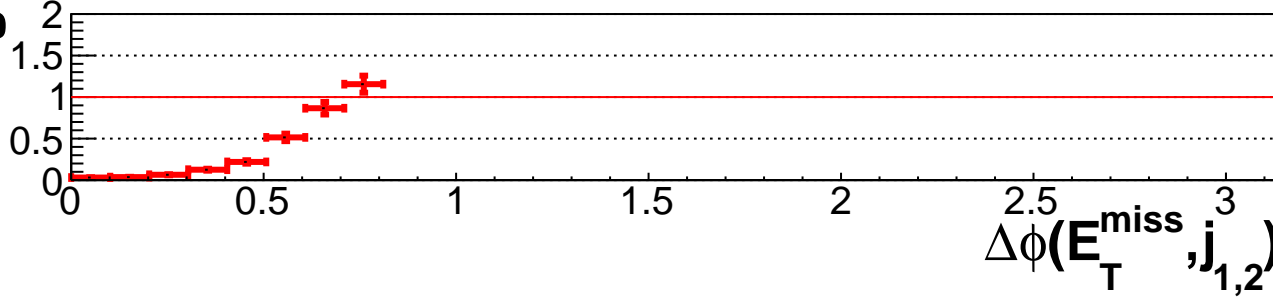
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg



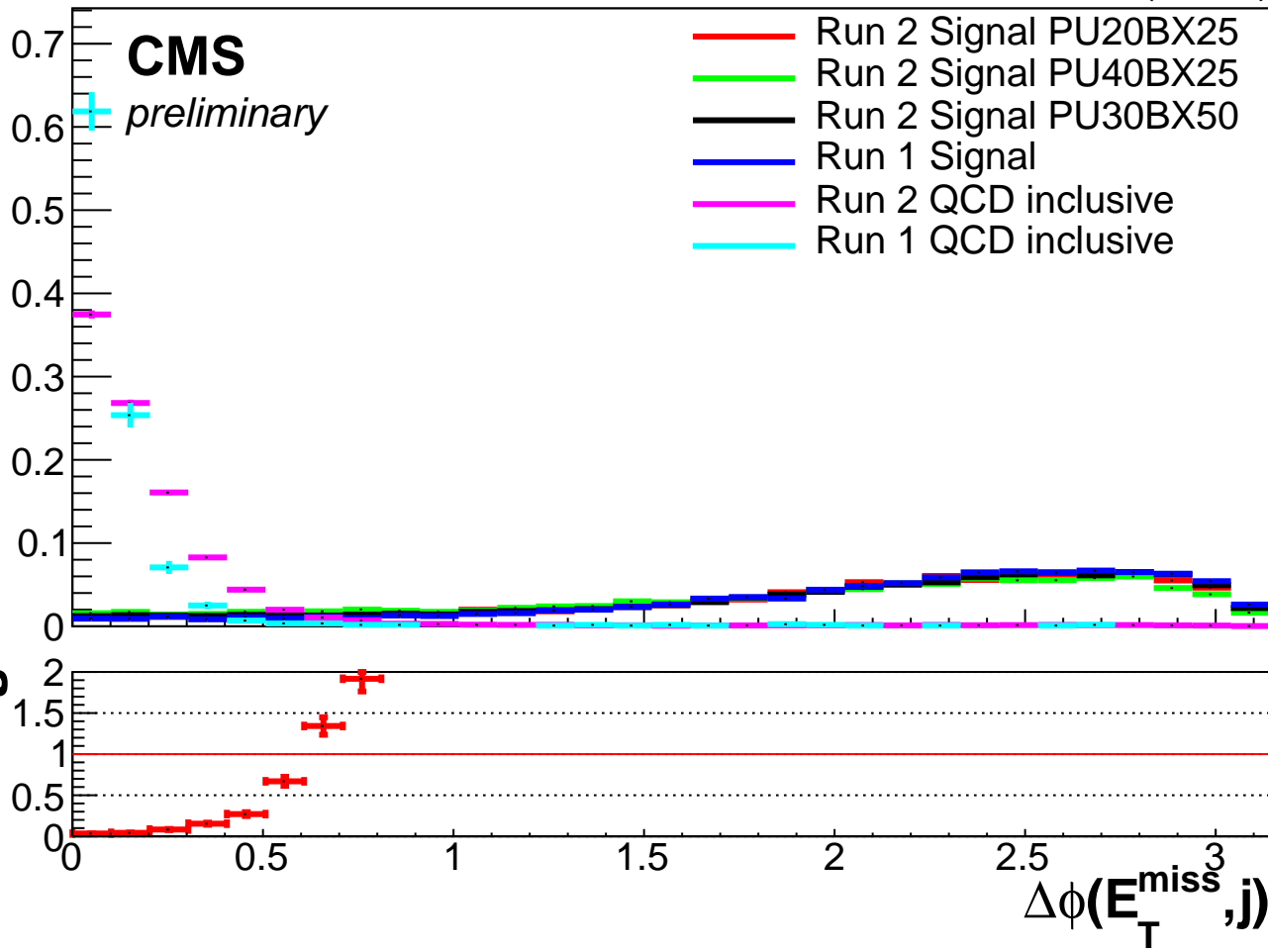
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg



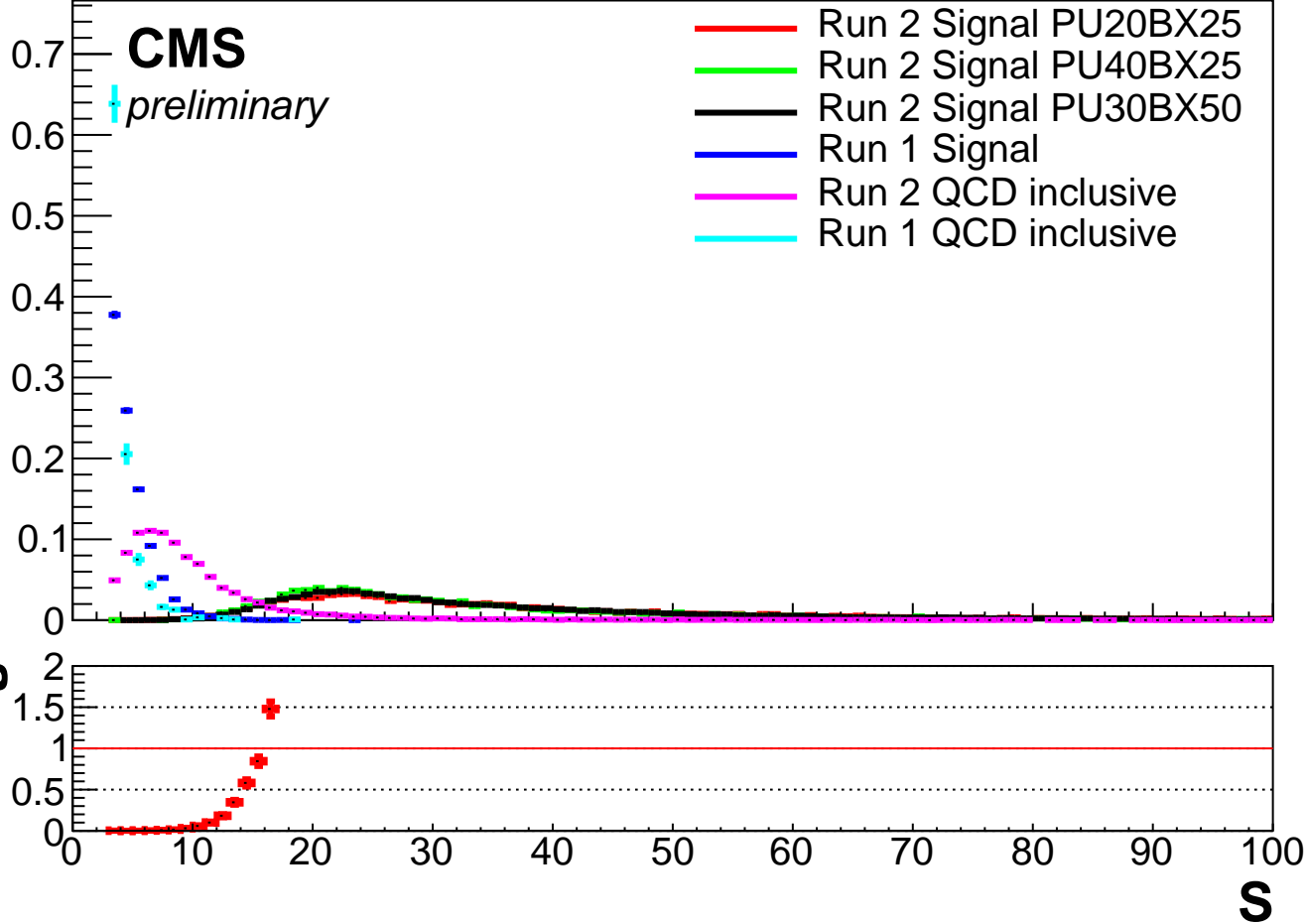
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg



19.2 fb⁻¹ (8 TeV)

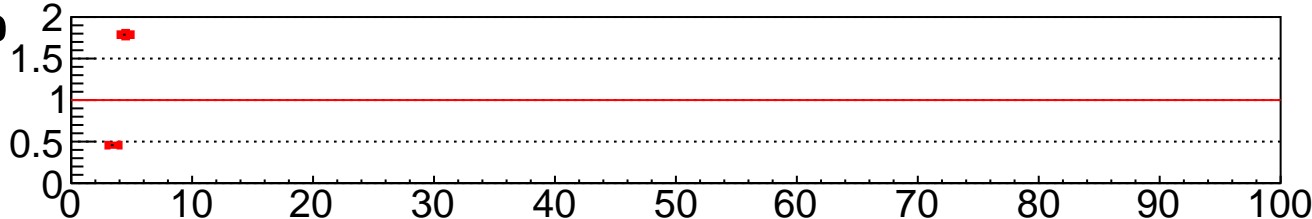
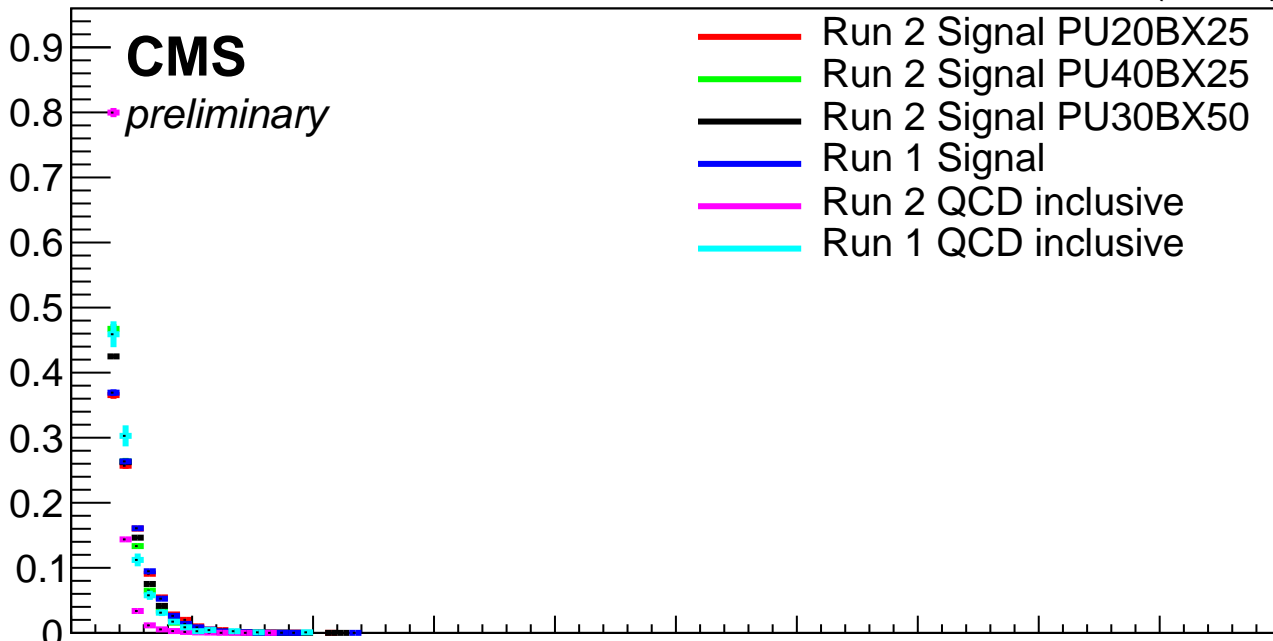
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg

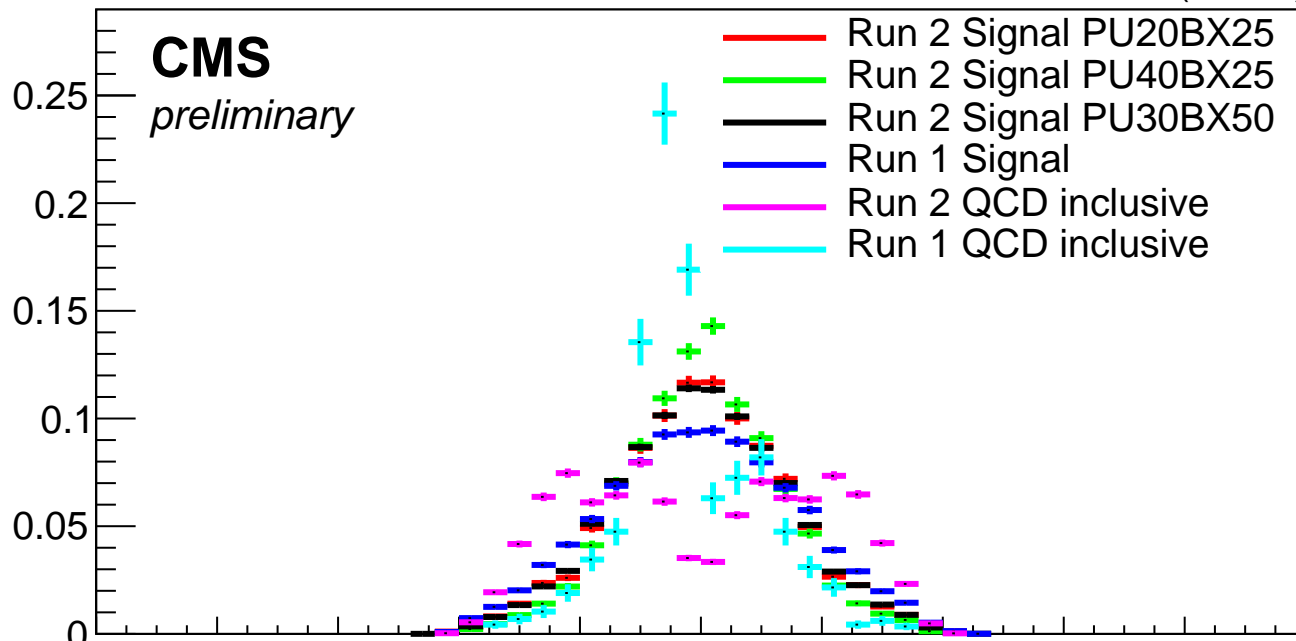
Run 1 S



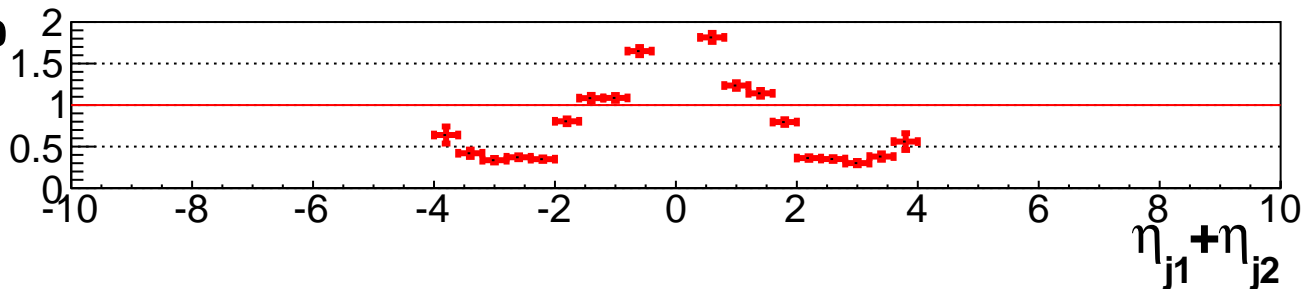
19.2 fb⁻¹ (8 TeV)

CMS

preliminary



Data/Bkg

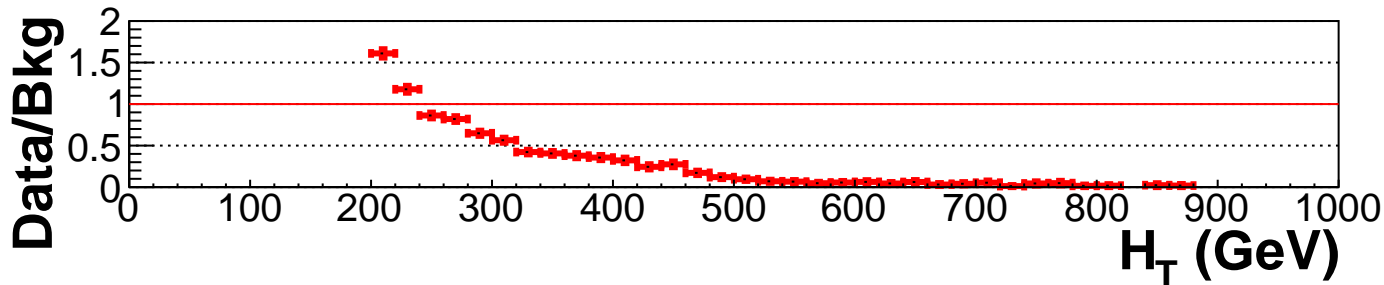


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

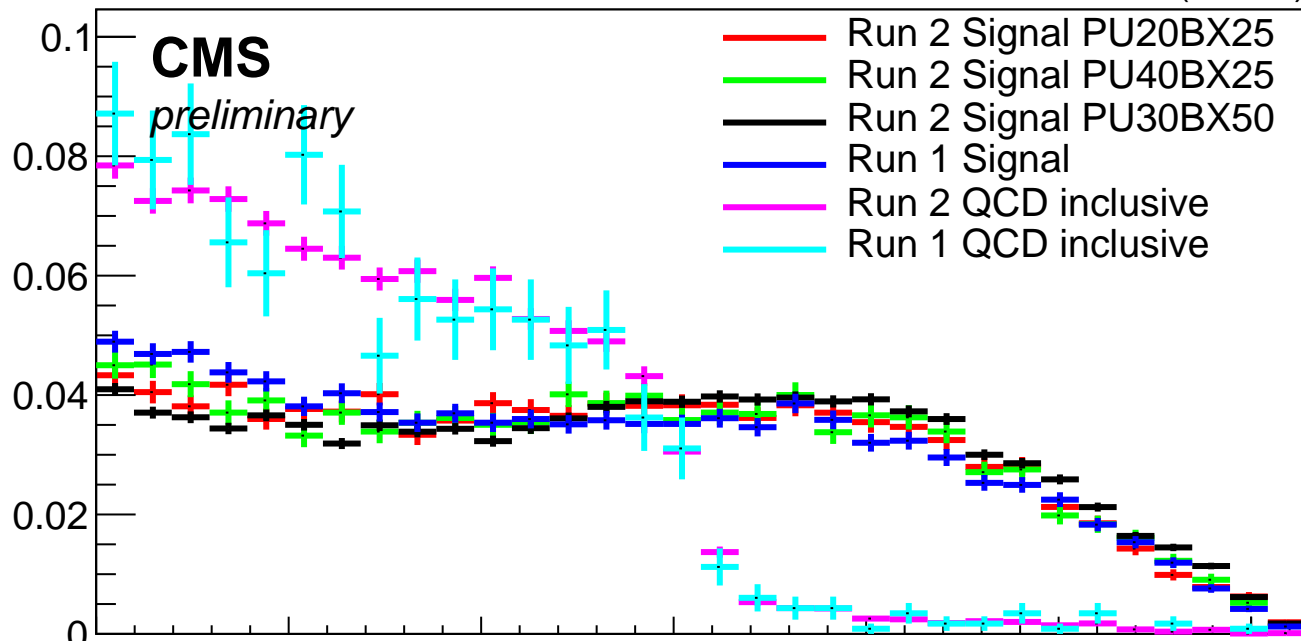
- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



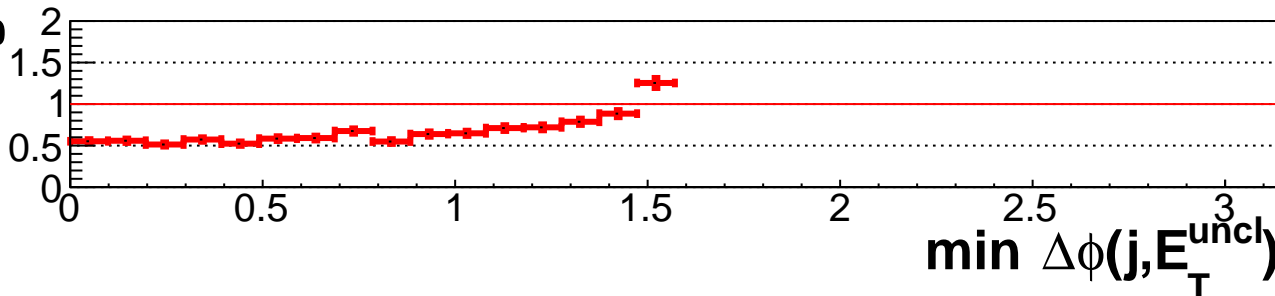
19.2 fb⁻¹ (8 TeV)

CMS

preliminary



Data/Bkg



19.2 fb⁻¹ (8 TeV)

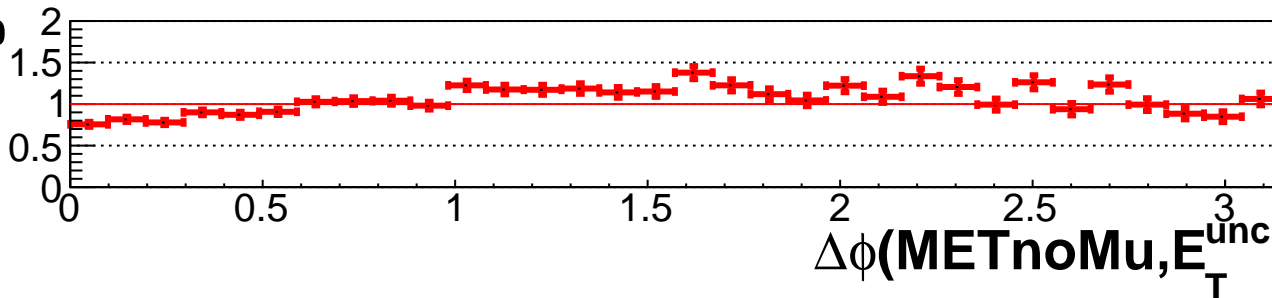
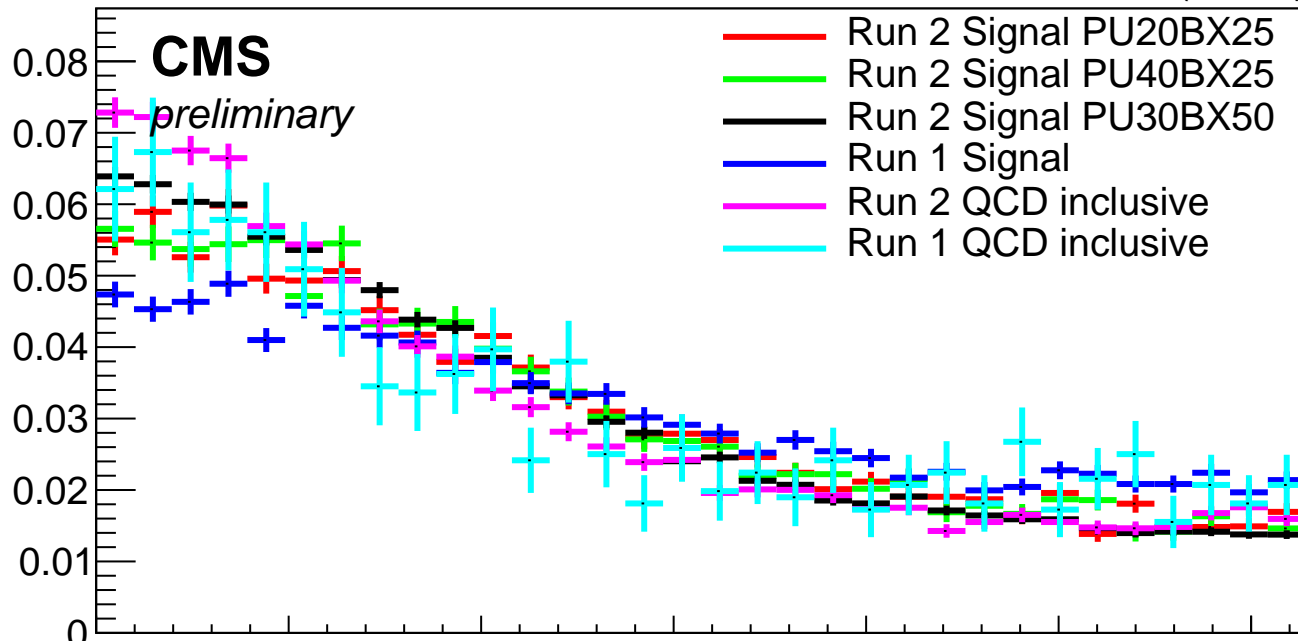
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg

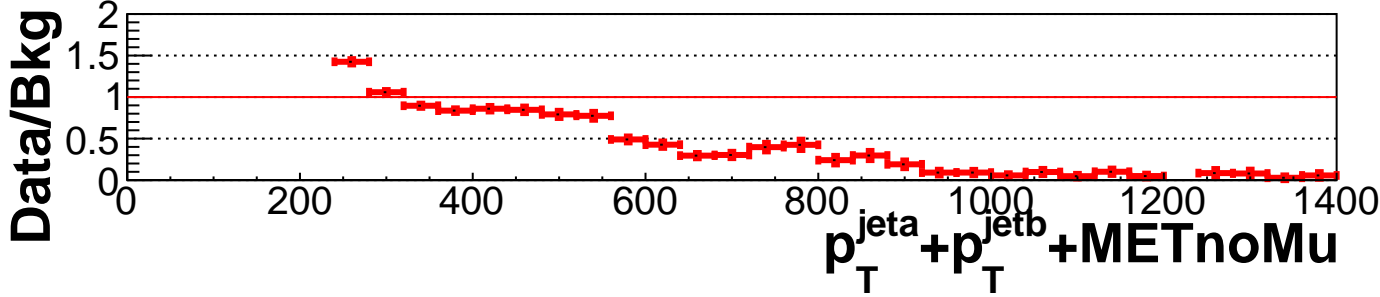
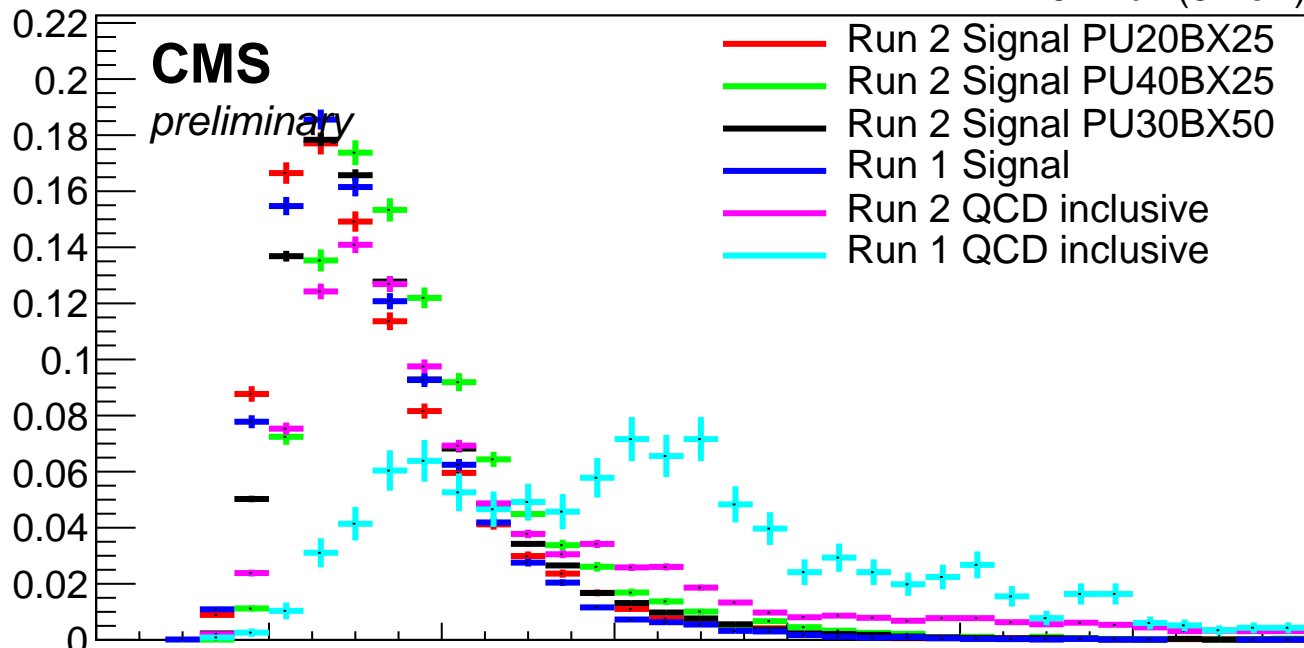
$\Delta\phi(\text{METnoMu}, E_{\text{T}}^{\text{uncl}})$



19.2 fb⁻¹ (8 TeV)

CMS

preliminary



19.2 fb⁻¹ (8 TeV)

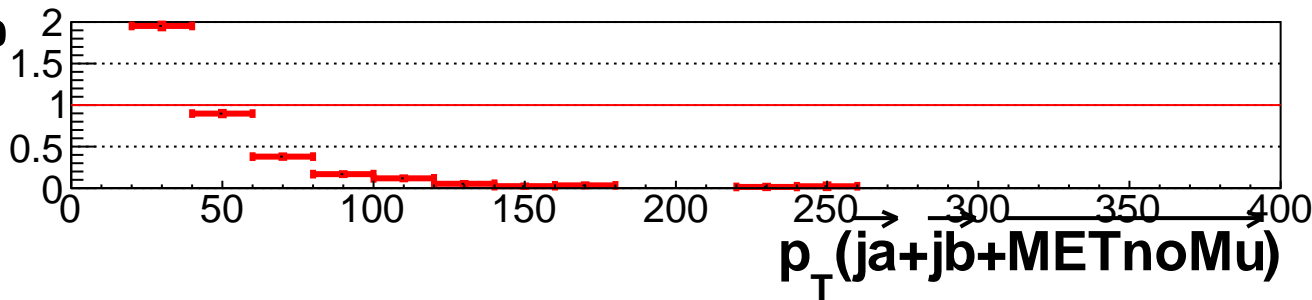
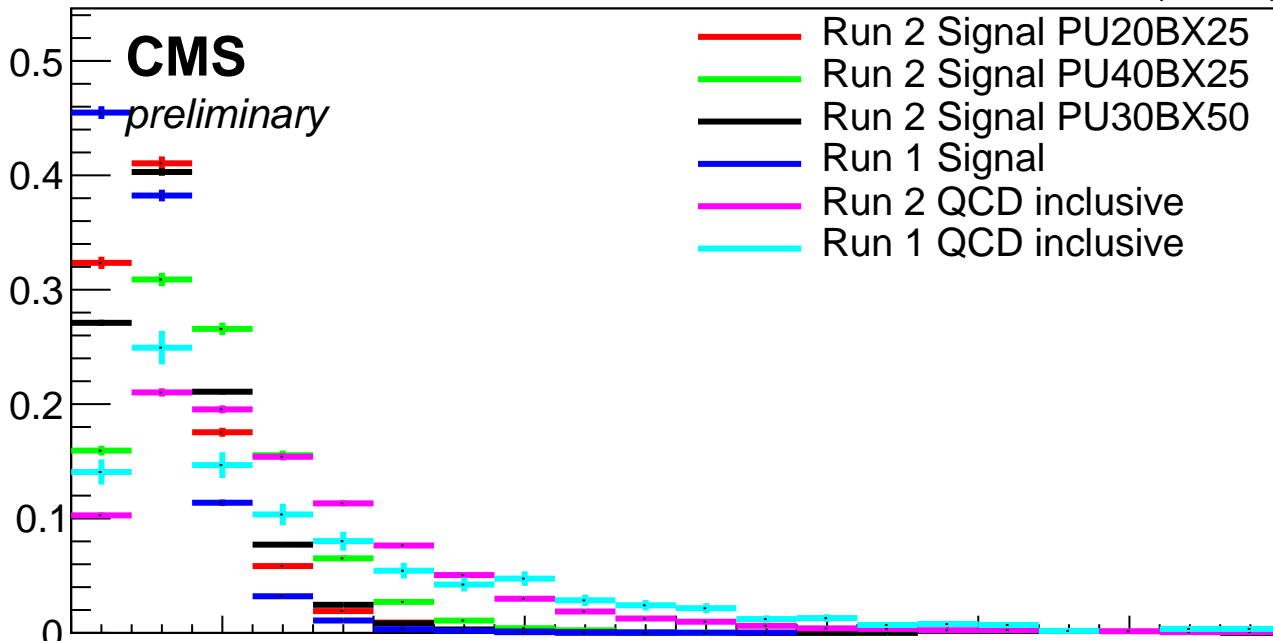
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg

p_T (ja+jb+METnoMu)

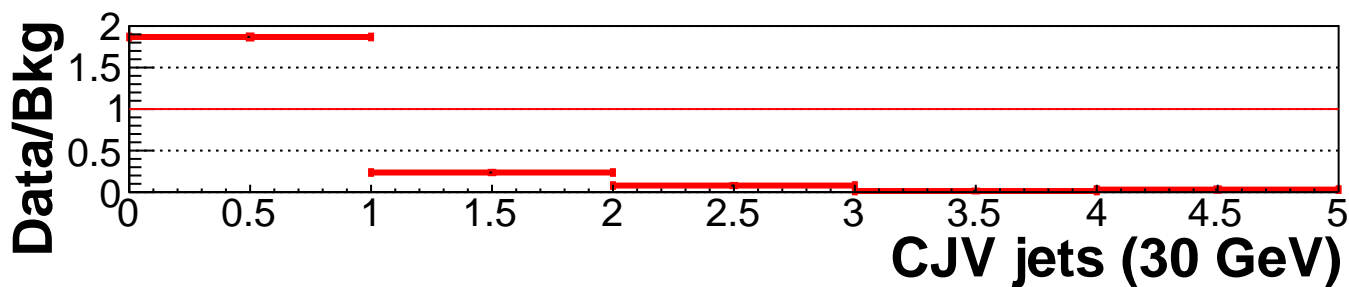


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

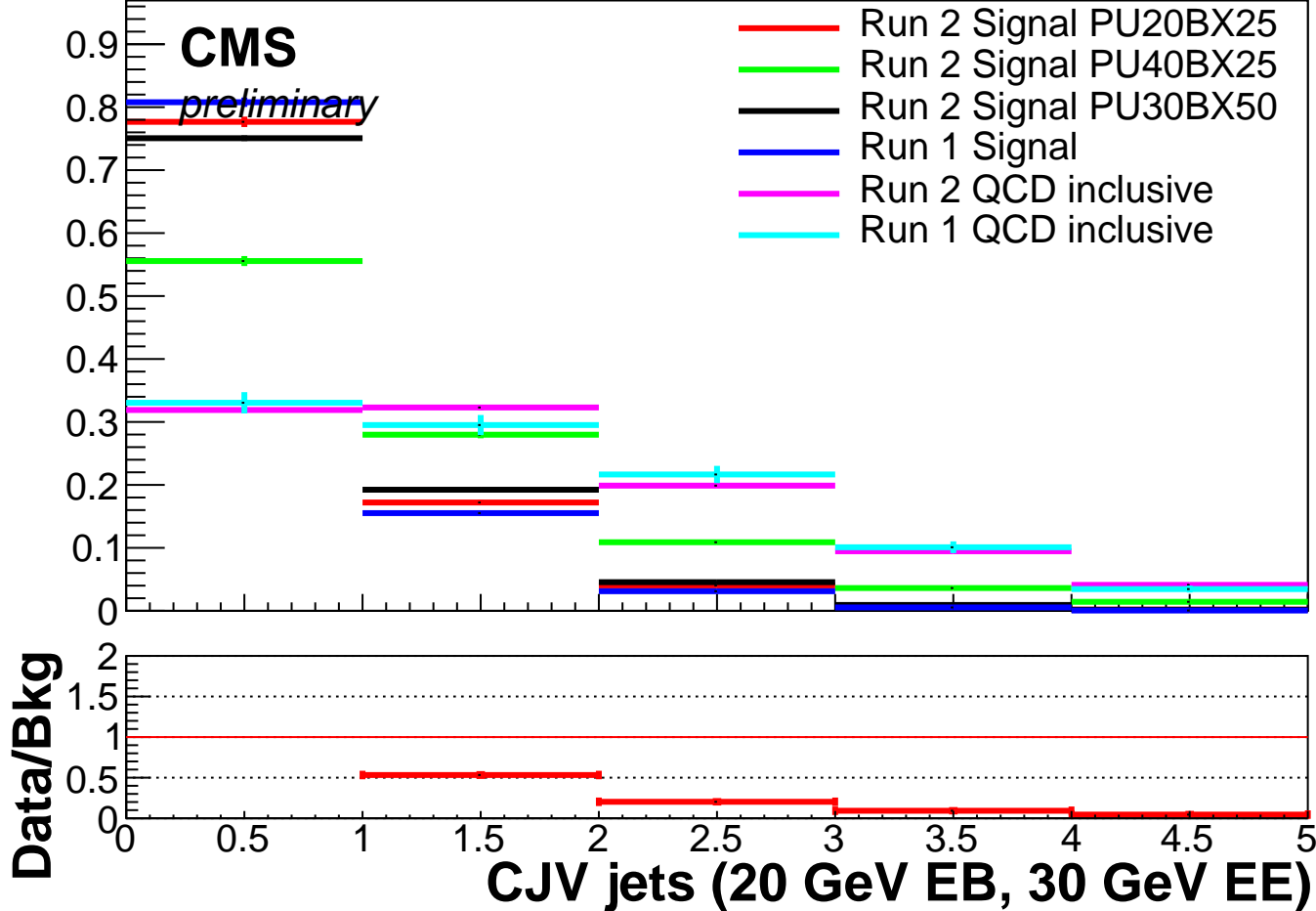


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

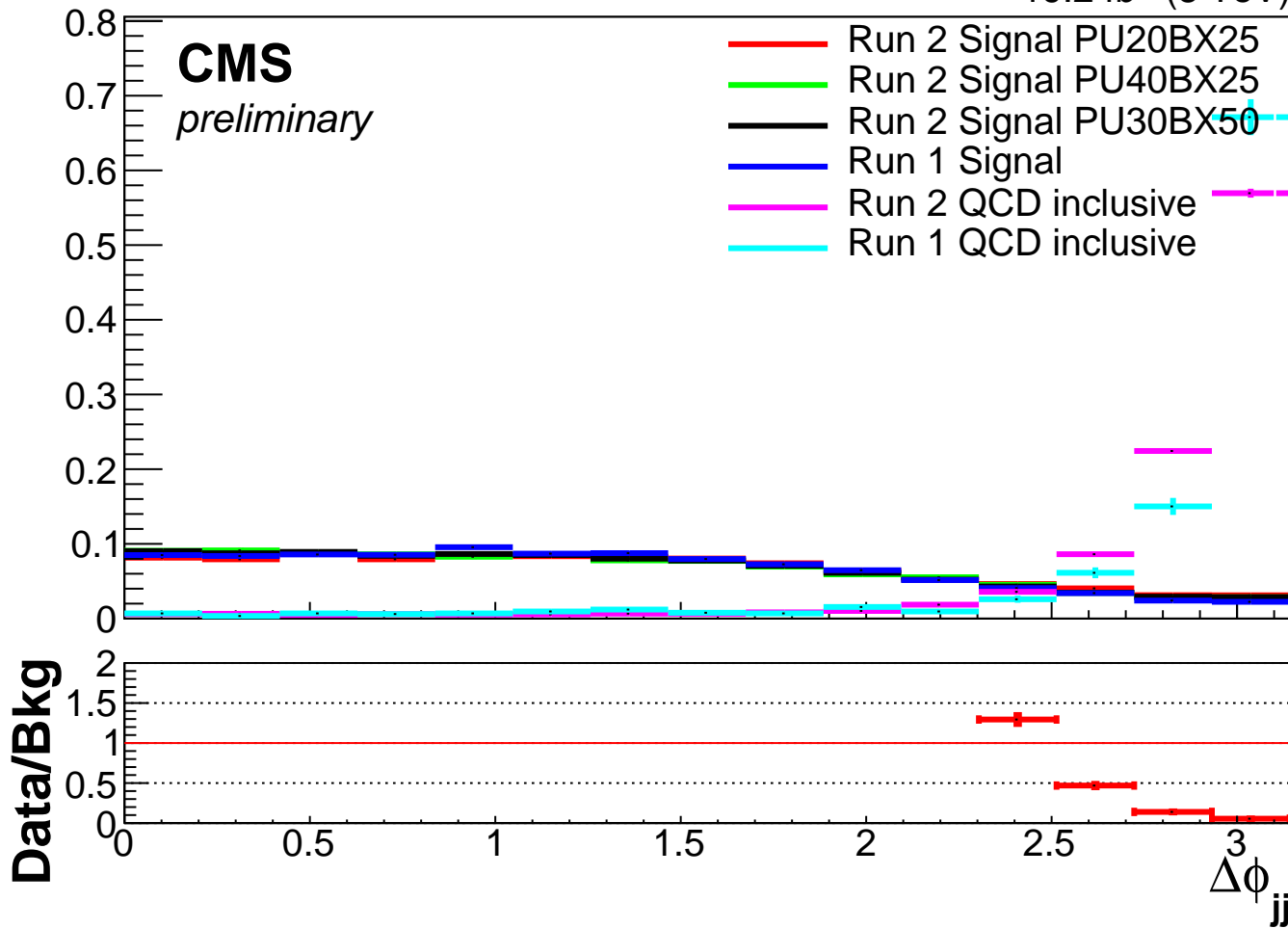
- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

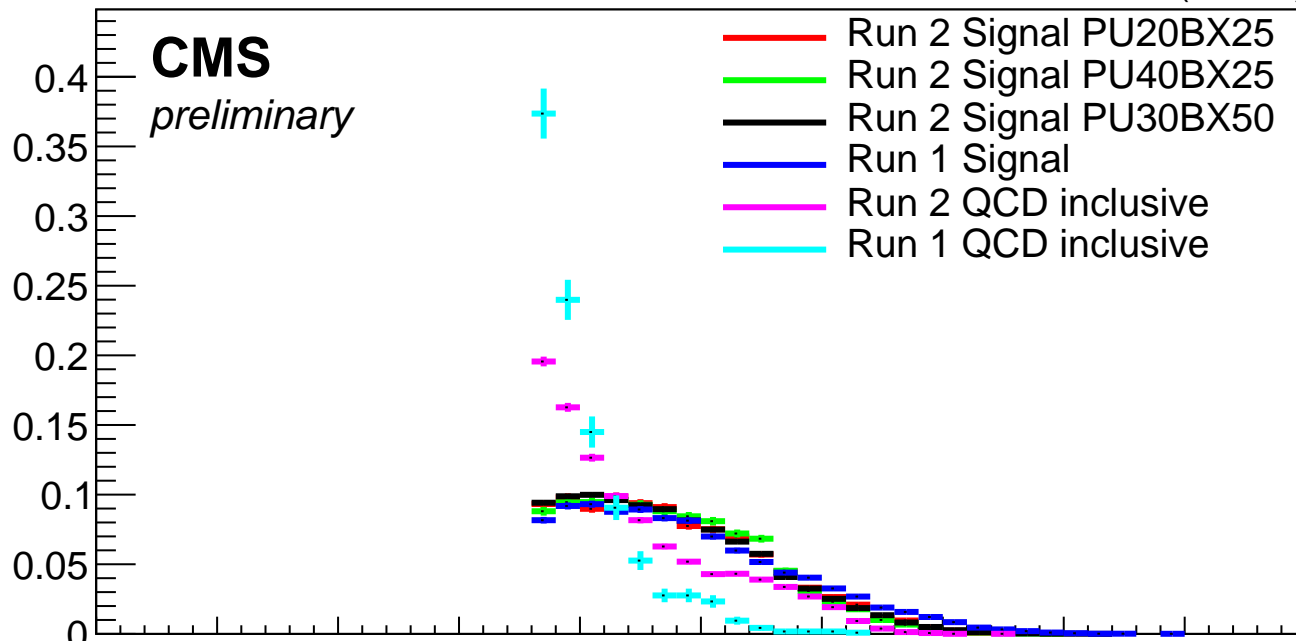
- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



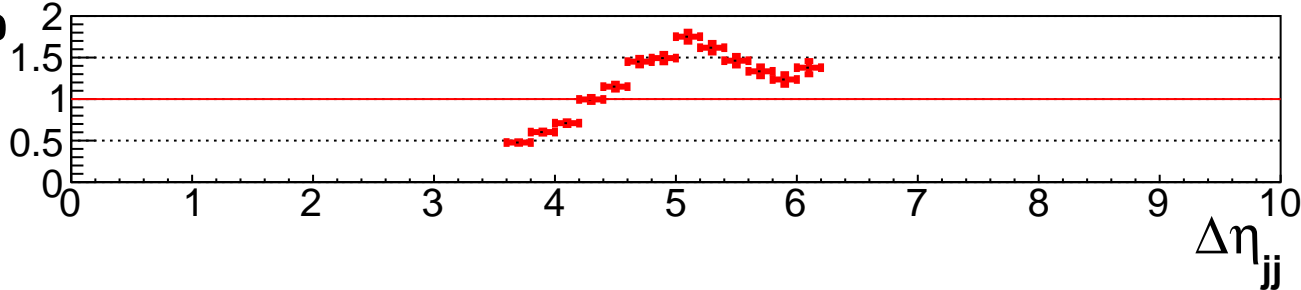
19.2 fb⁻¹ (8 TeV)

CMS

preliminary



Data/Bkg

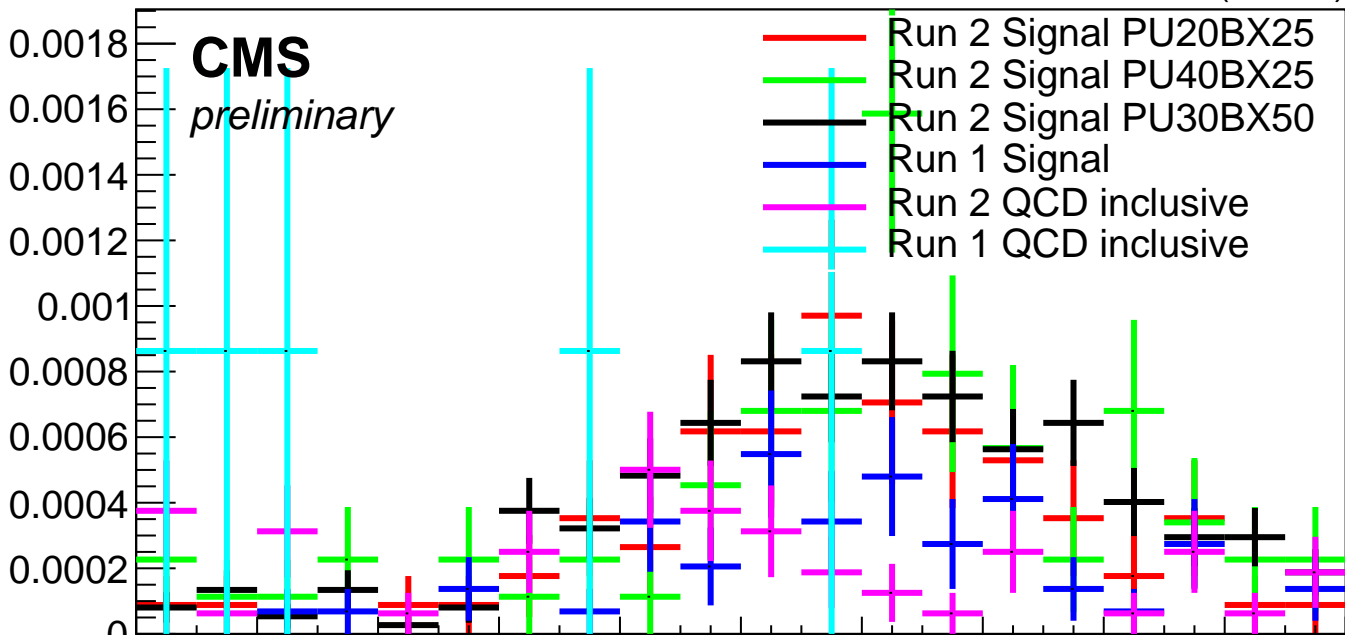


19.2 fb⁻¹ (8 TeV)

CMS

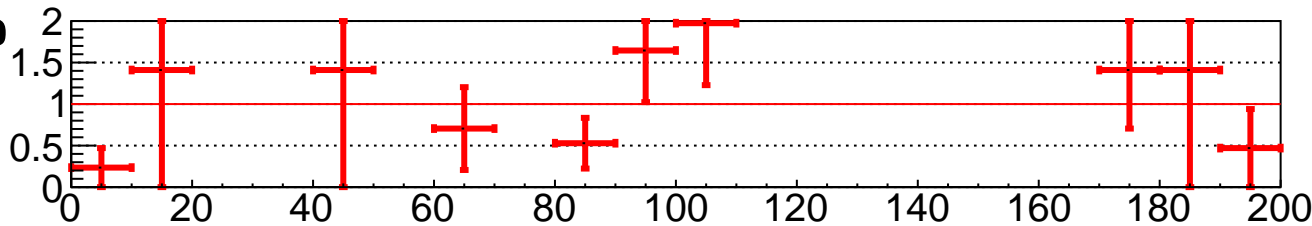
preliminary

Run 2 Signal PU20BX25
Run 2 Signal PU40BX25
Run 2 Signal PU30BX50
Run 1 Signal
Run 2 QCD inclusive
Run 1 QCD inclusive



Data/Bkg

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

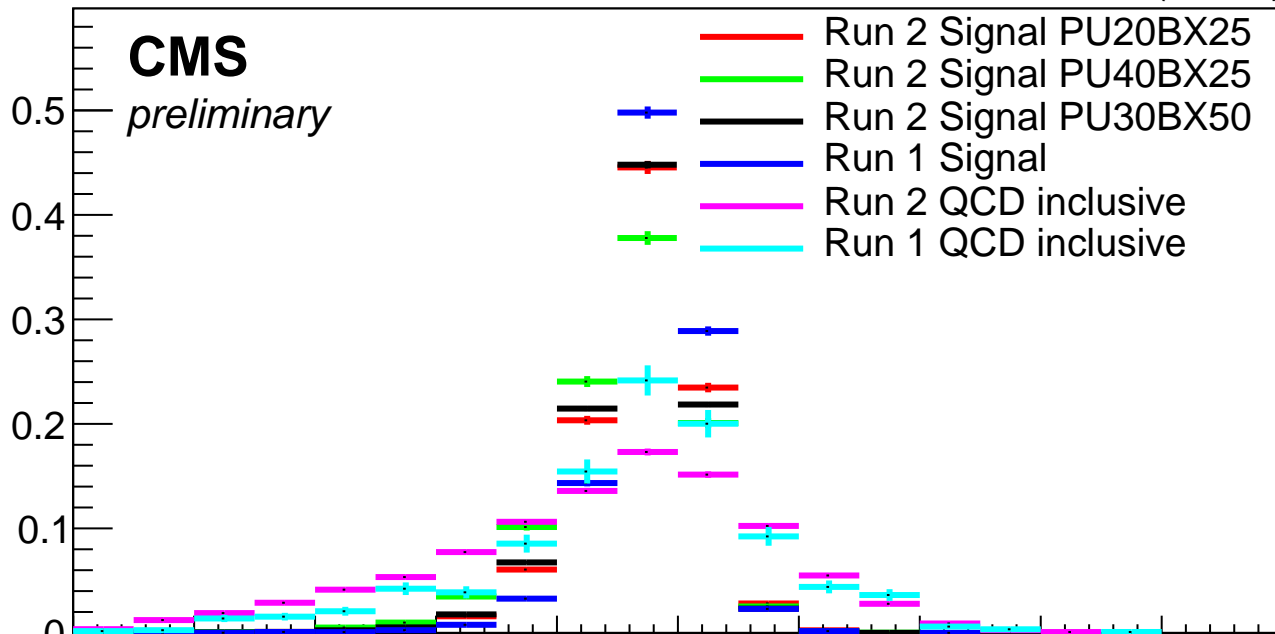


19.2 fb⁻¹ (8 TeV)

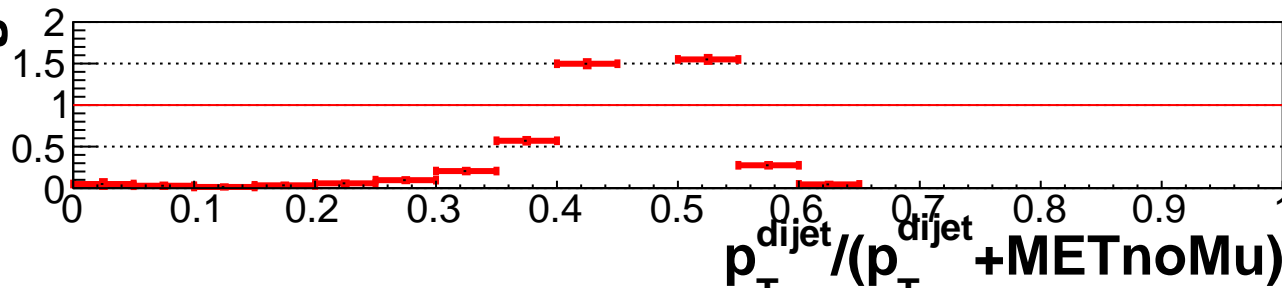
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



Data/Bkg

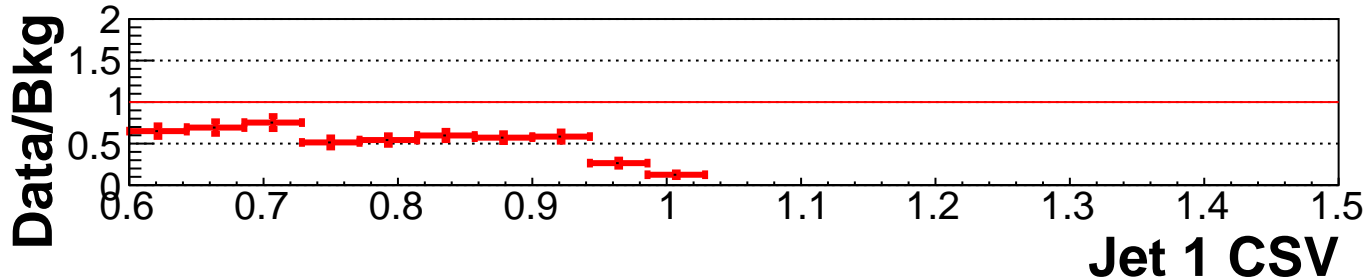
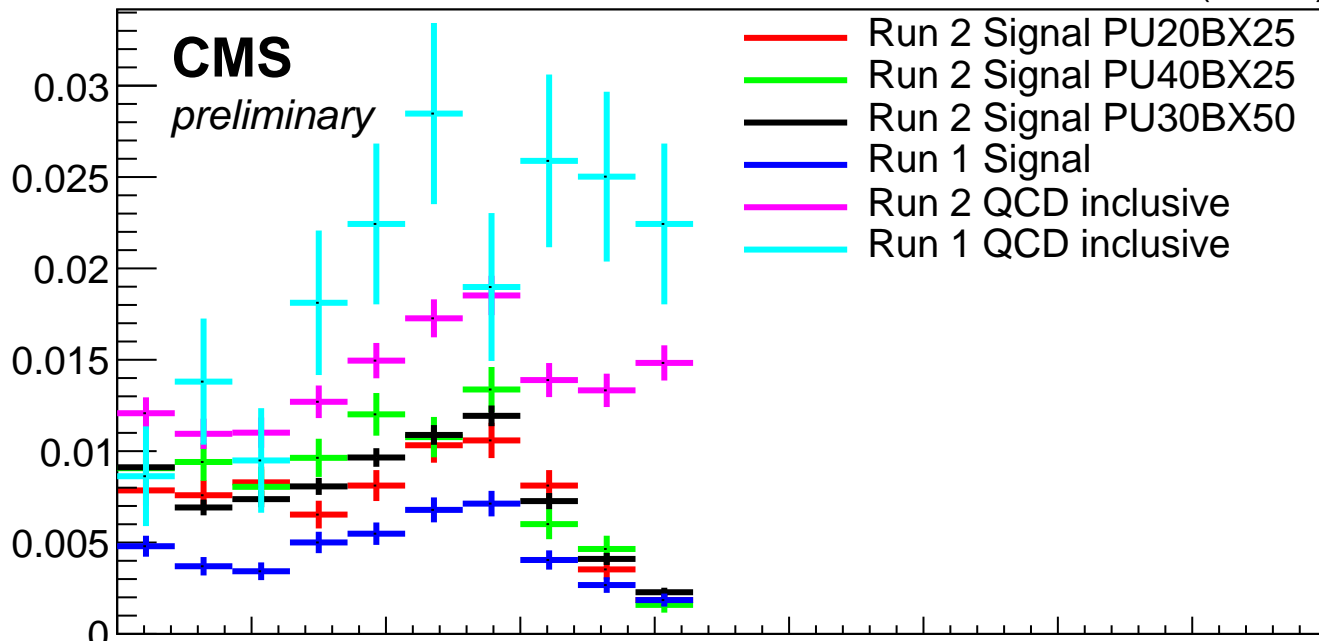


$p_T^{\text{dijet}} / (p_T^{\text{dijet}} + \text{MET}_{\text{noMu}})$

19.2 fb⁻¹ (8 TeV)

CMS

preliminary

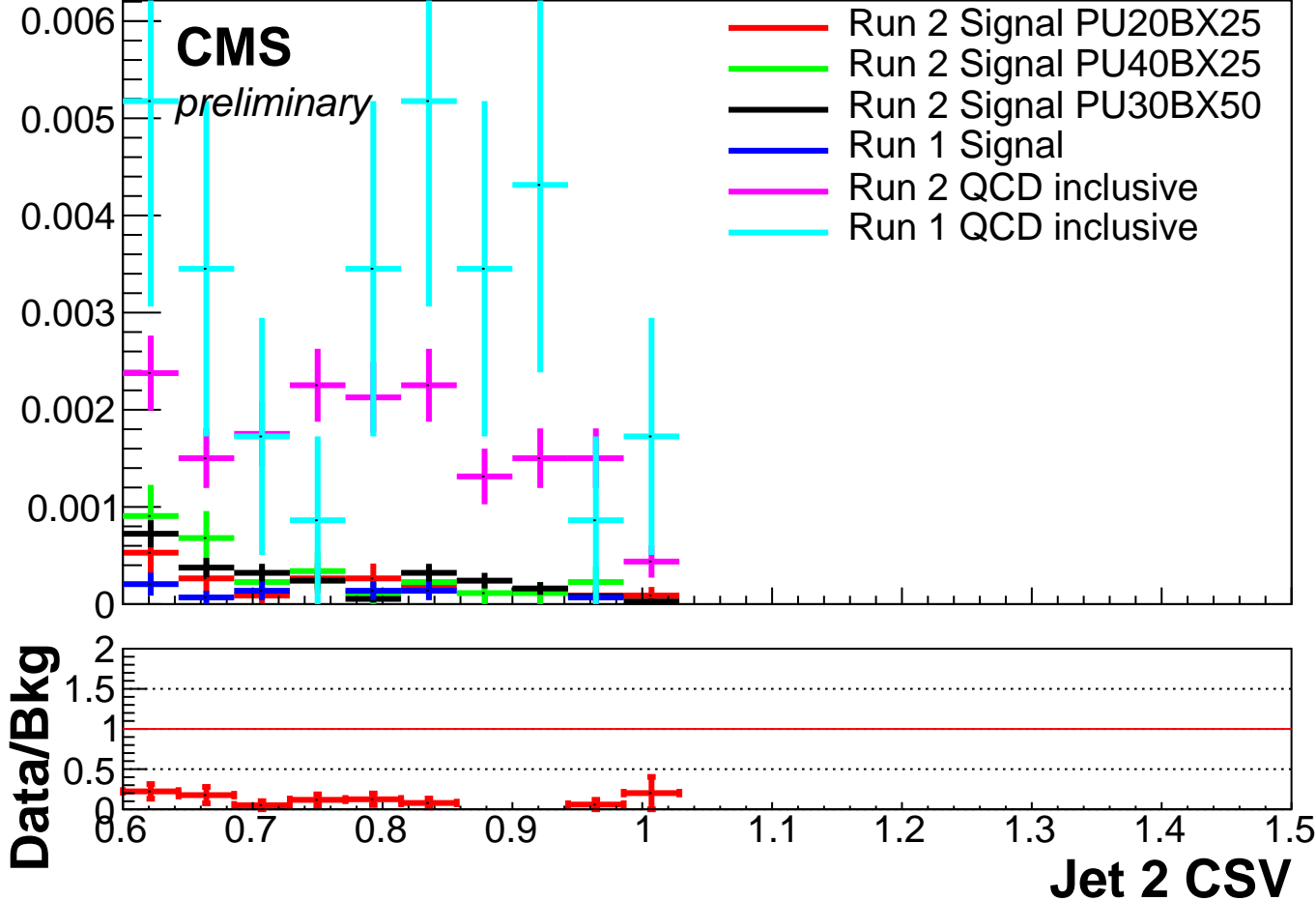


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

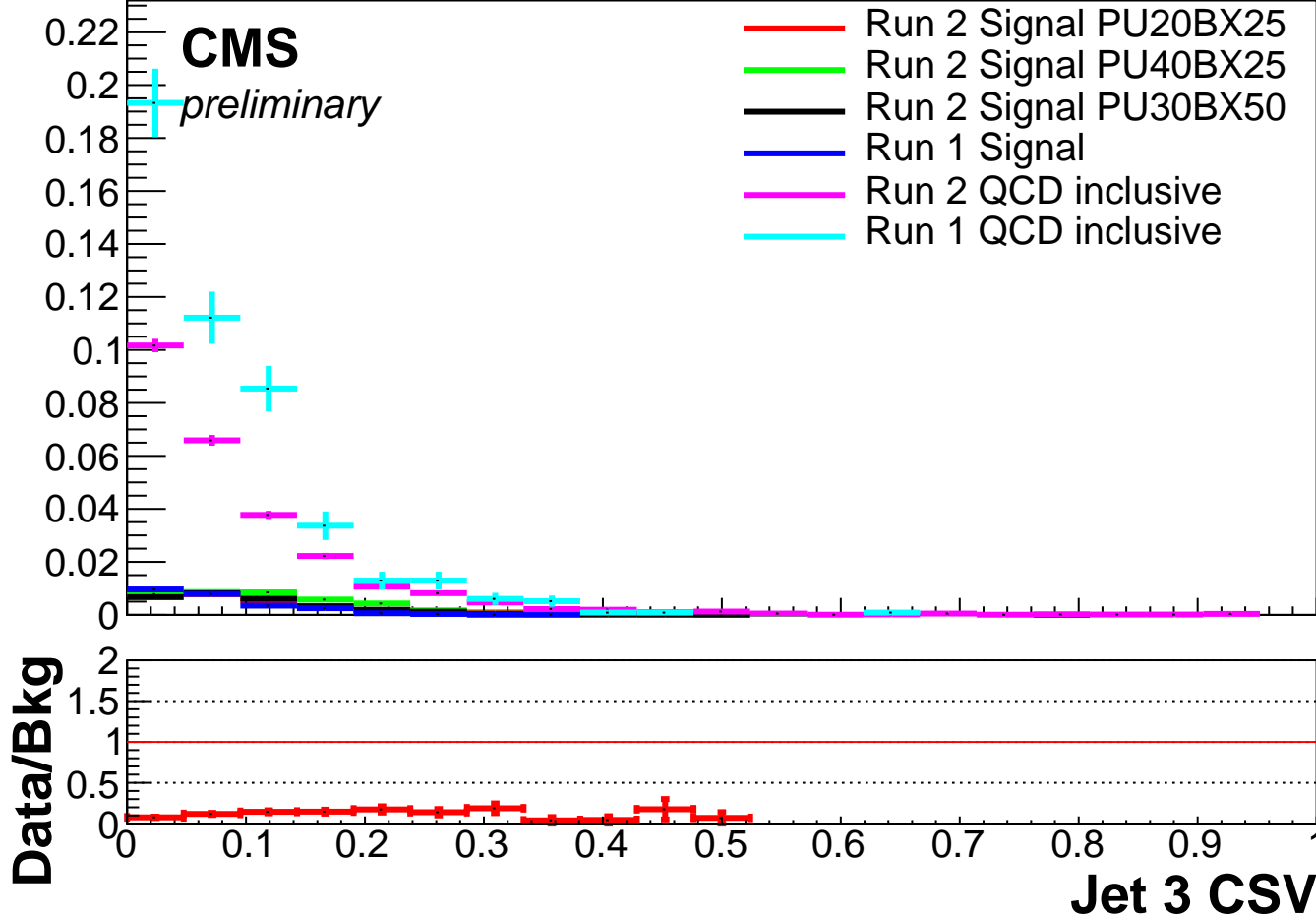


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



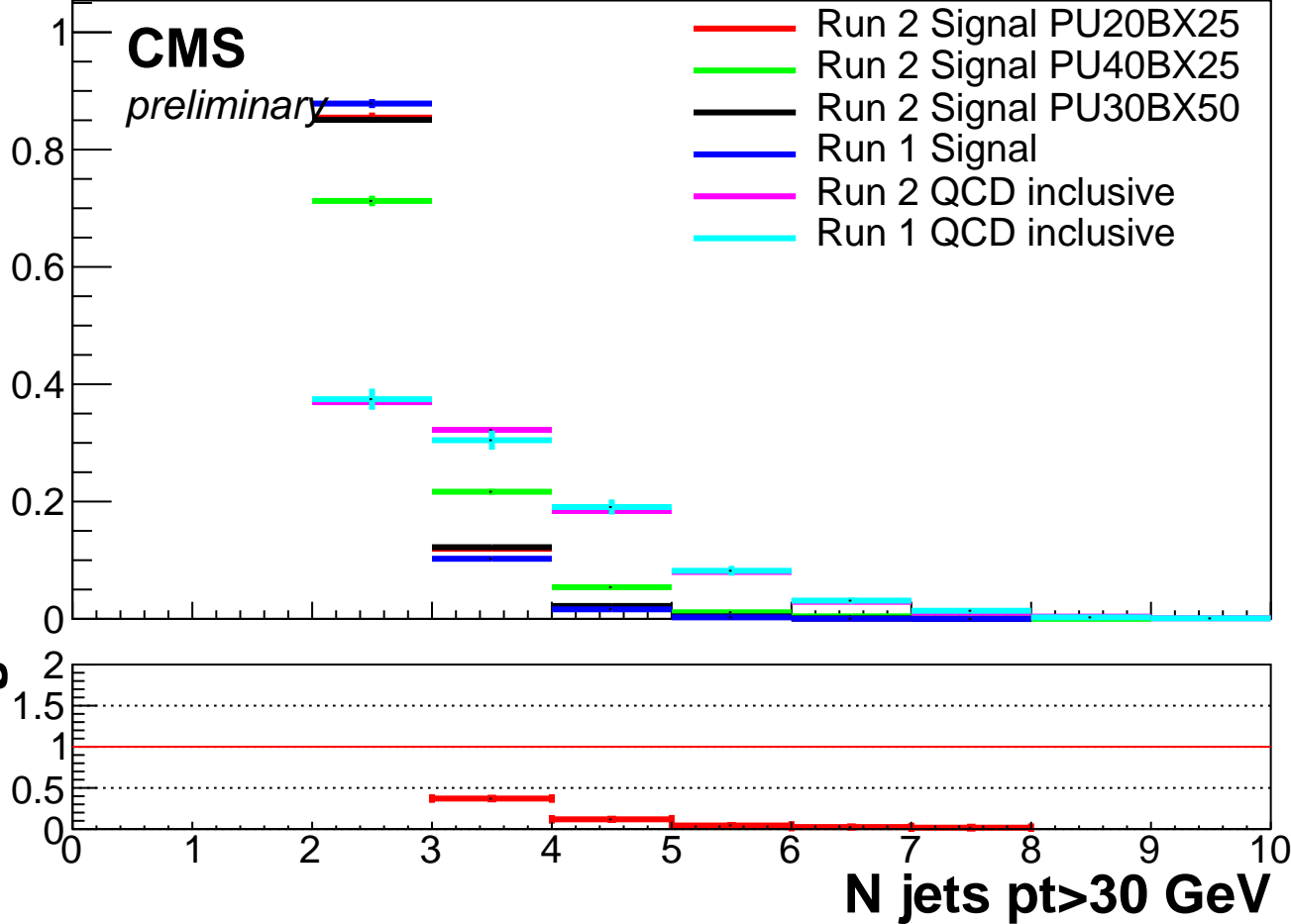
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

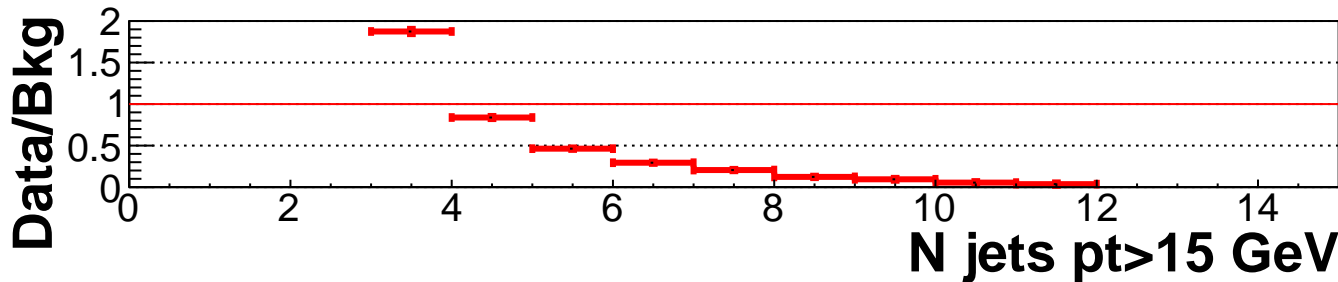
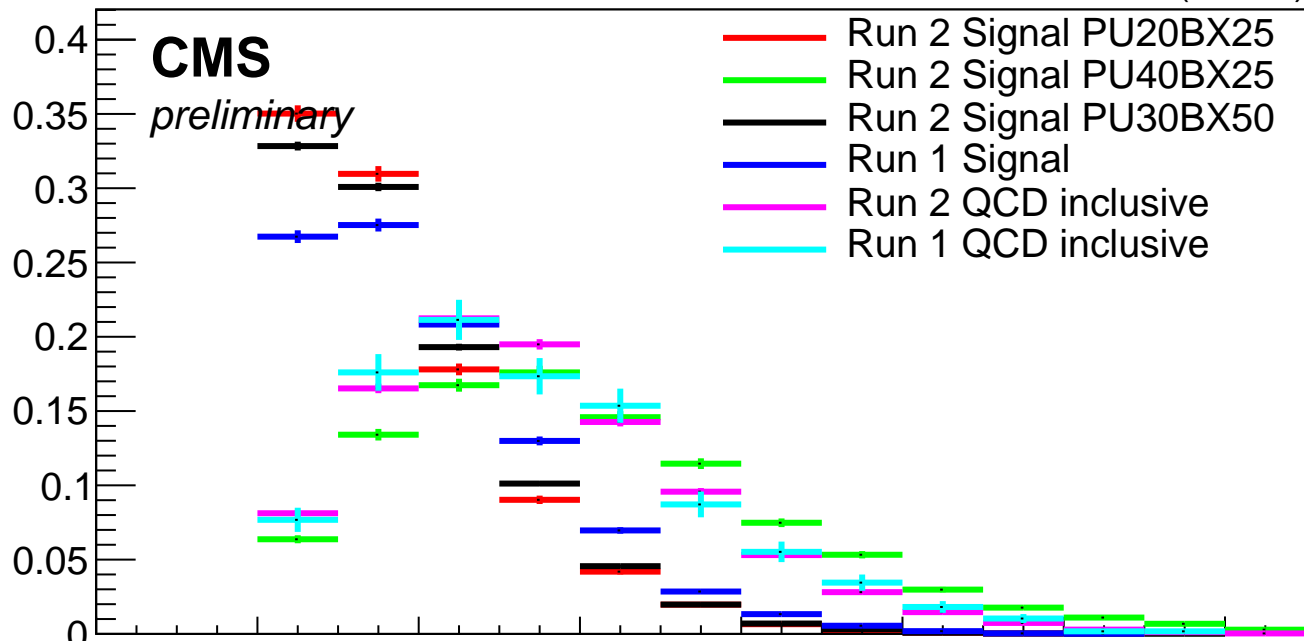
Data/Bkg



19.2 fb⁻¹ (8 TeV)

CMS

preliminary

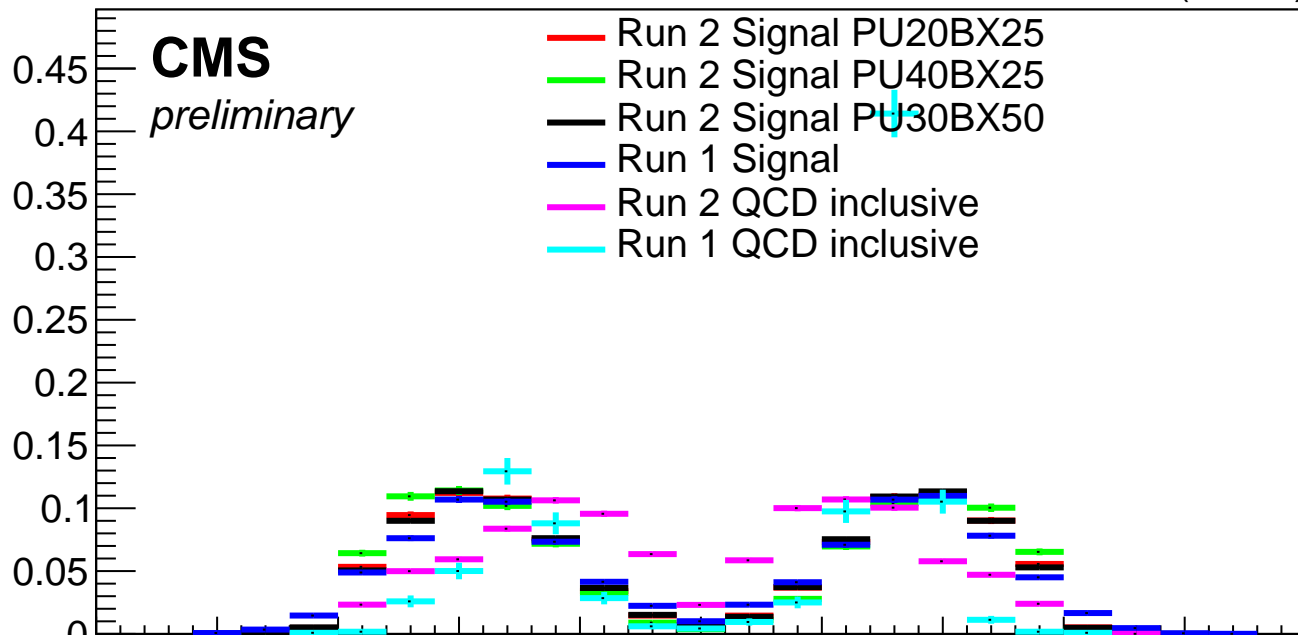


19.2 fb⁻¹ (8 TeV)

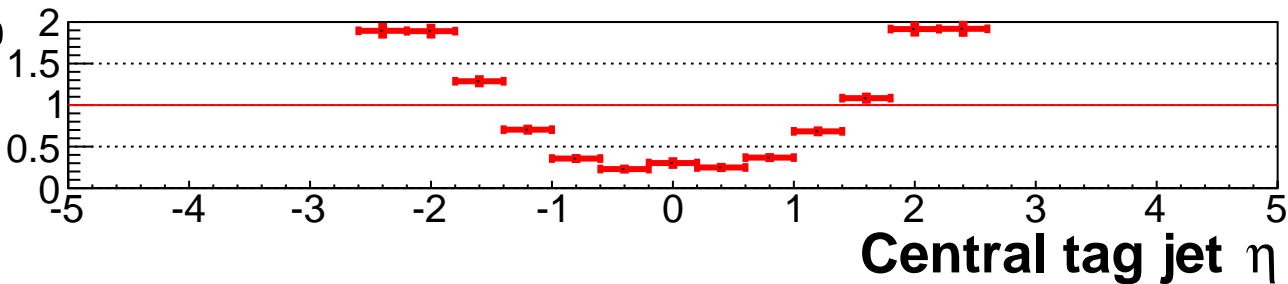
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



Data/Bkg

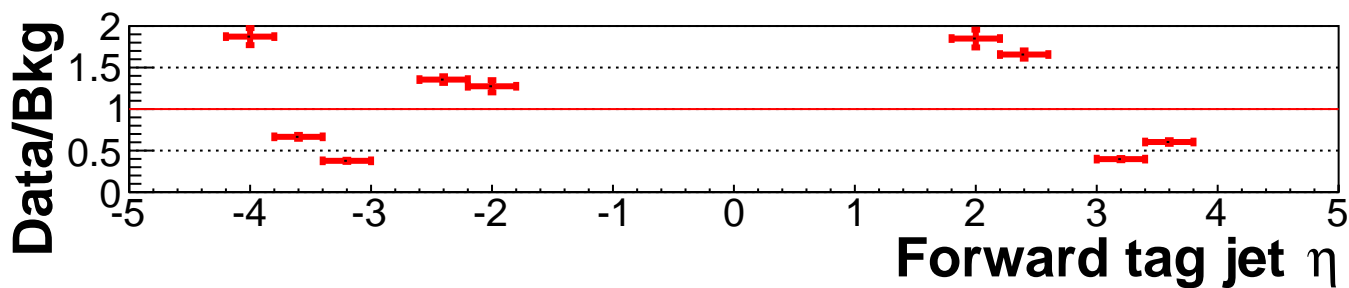


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



19.2 fb⁻¹ (8 TeV)

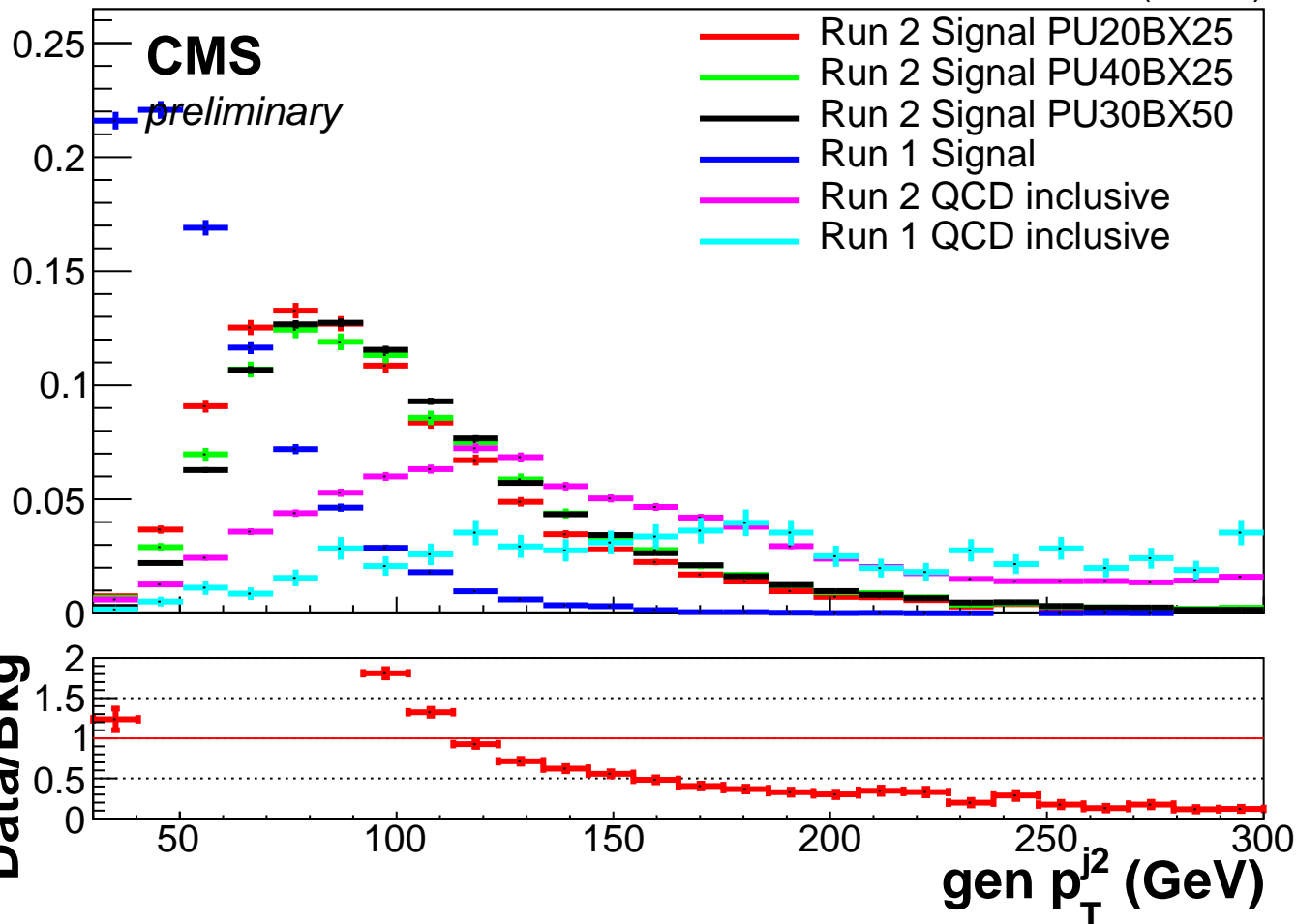
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg

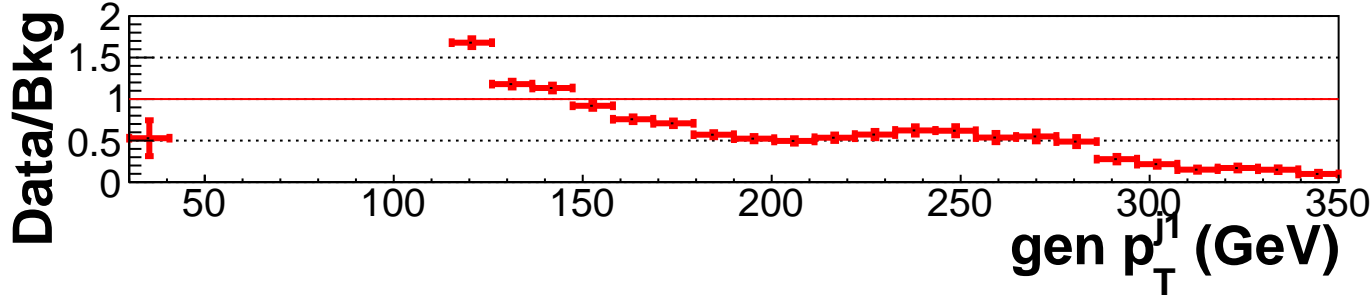
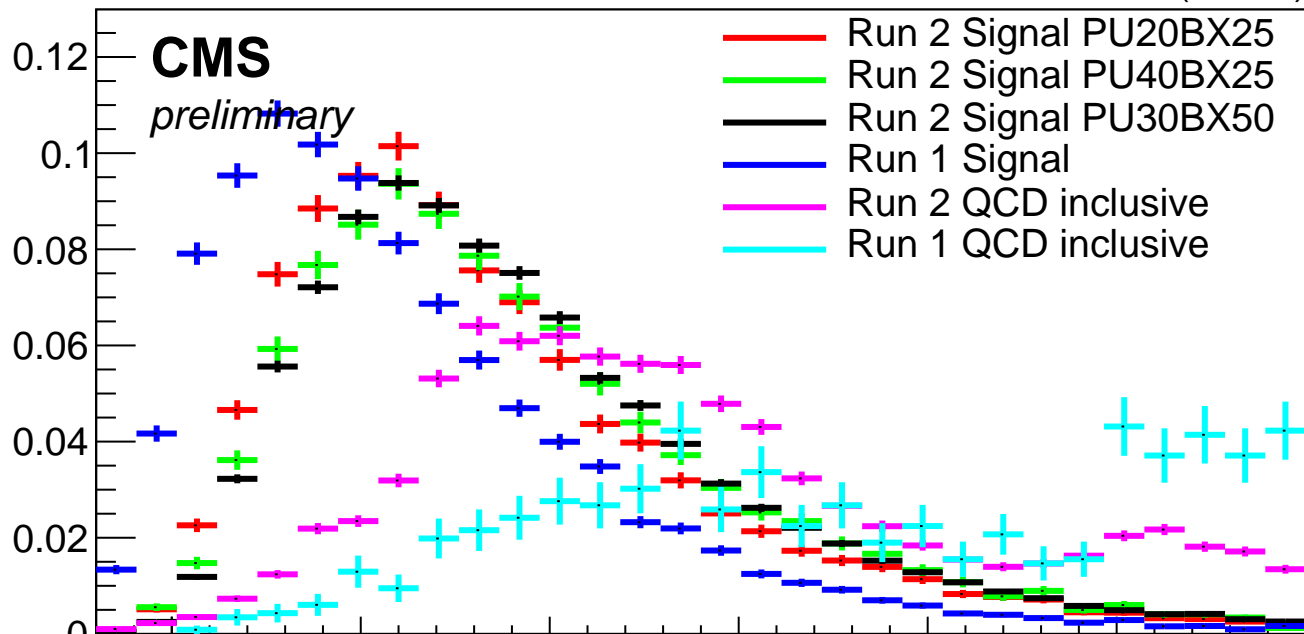
gen p_T^{j2} (GeV)



19.2 fb⁻¹ (8 TeV)

CMS

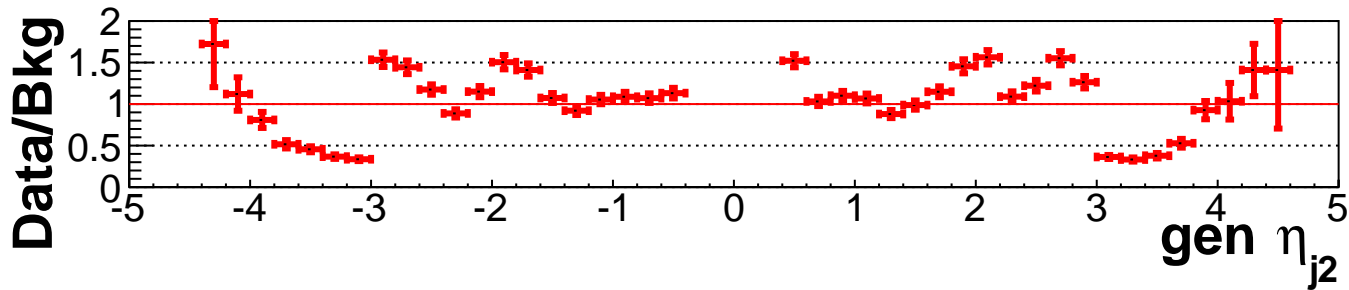
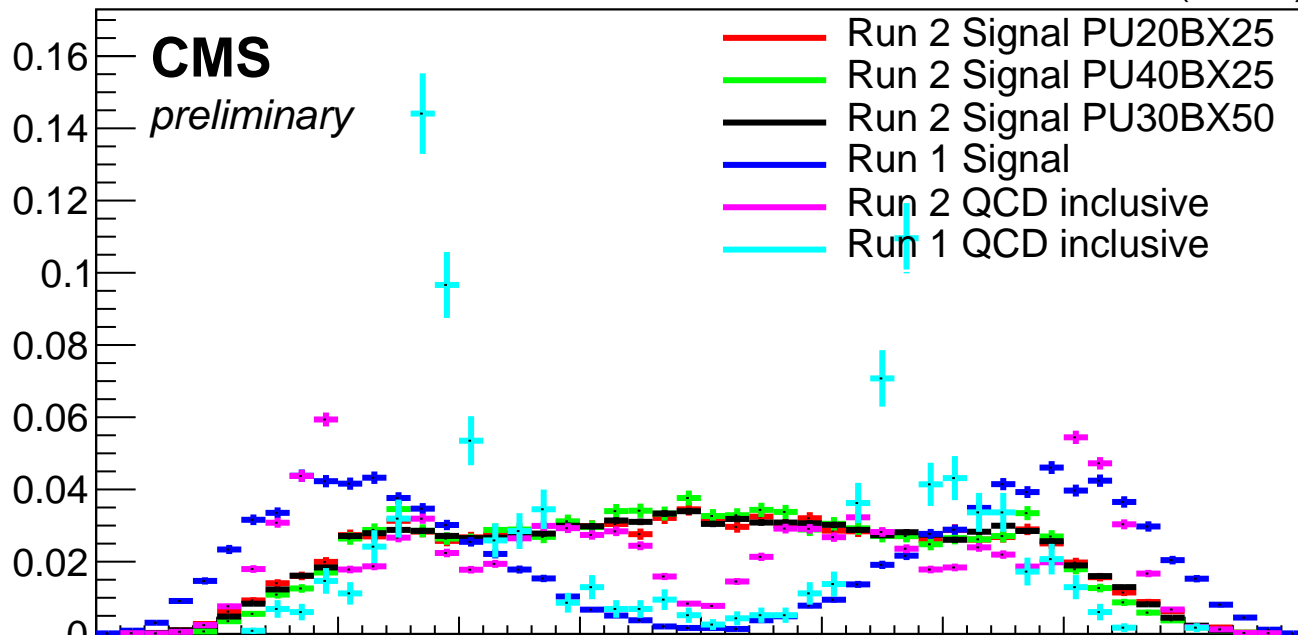
preliminary



19.2 fb⁻¹ (8 TeV)

CMS

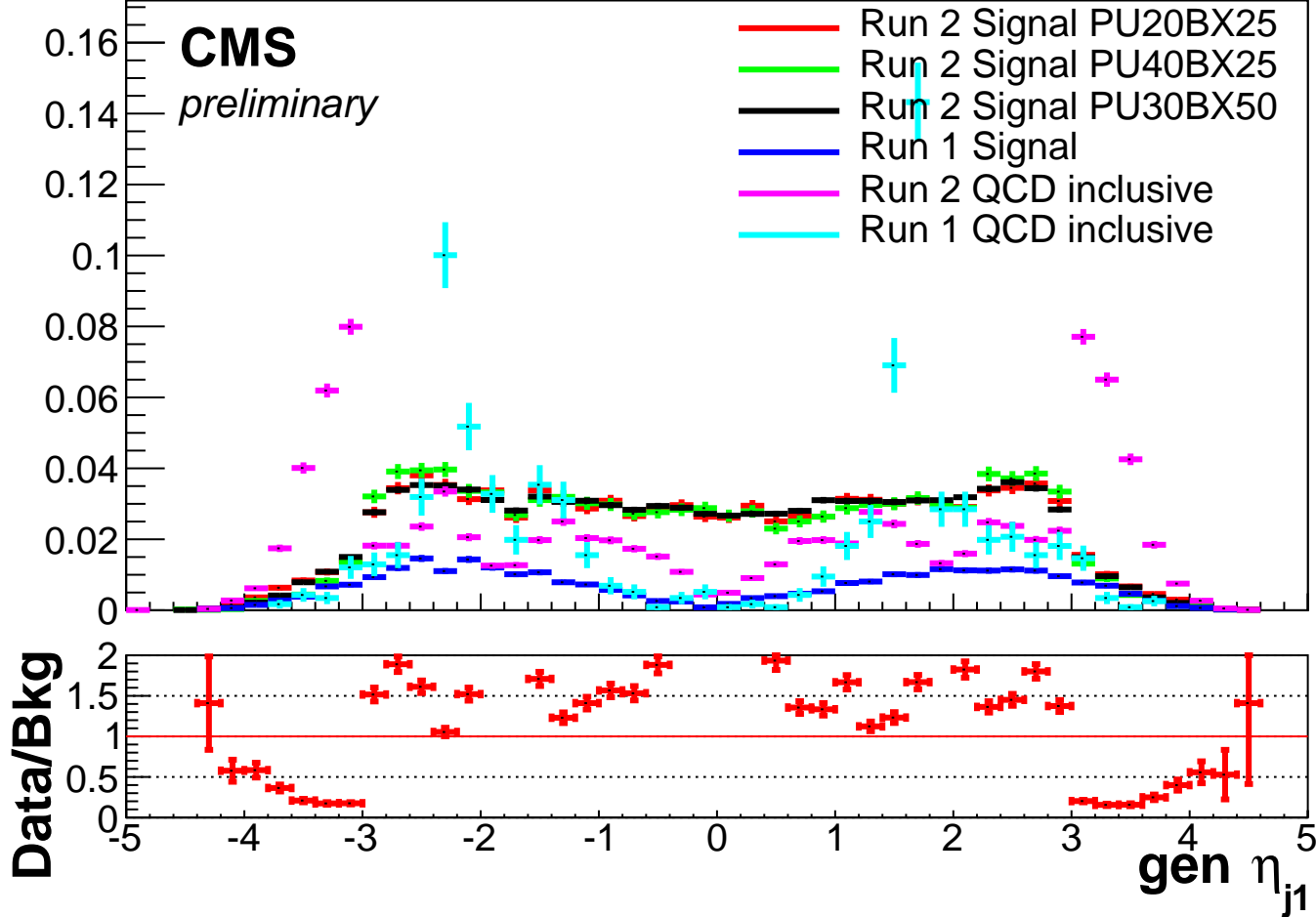
preliminary



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

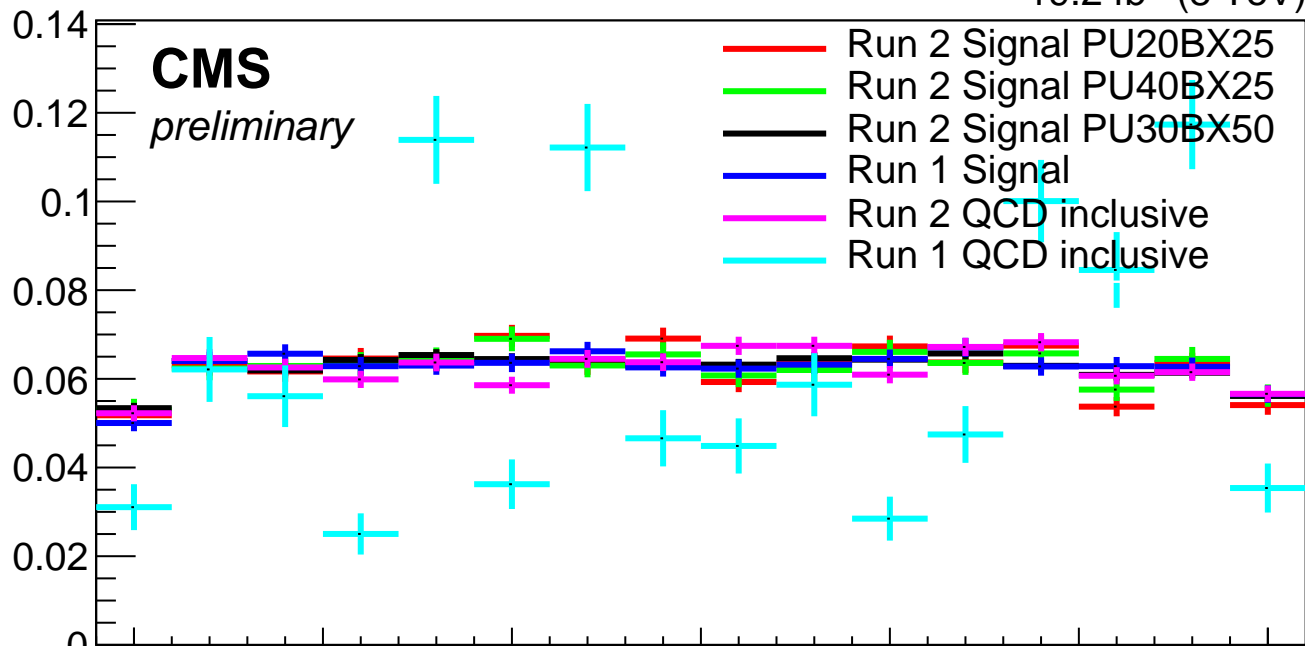
- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



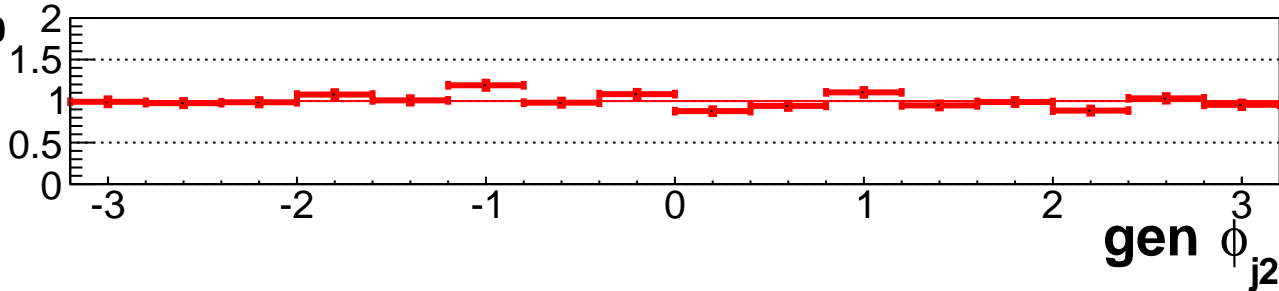
19.2 fb⁻¹ (8 TeV)

CMS

preliminary



Data/Bkg



19.2 fb⁻¹ (8 TeV)

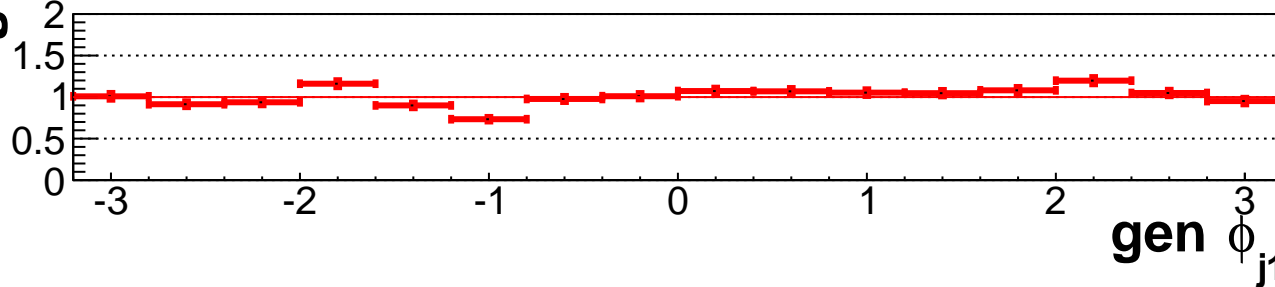
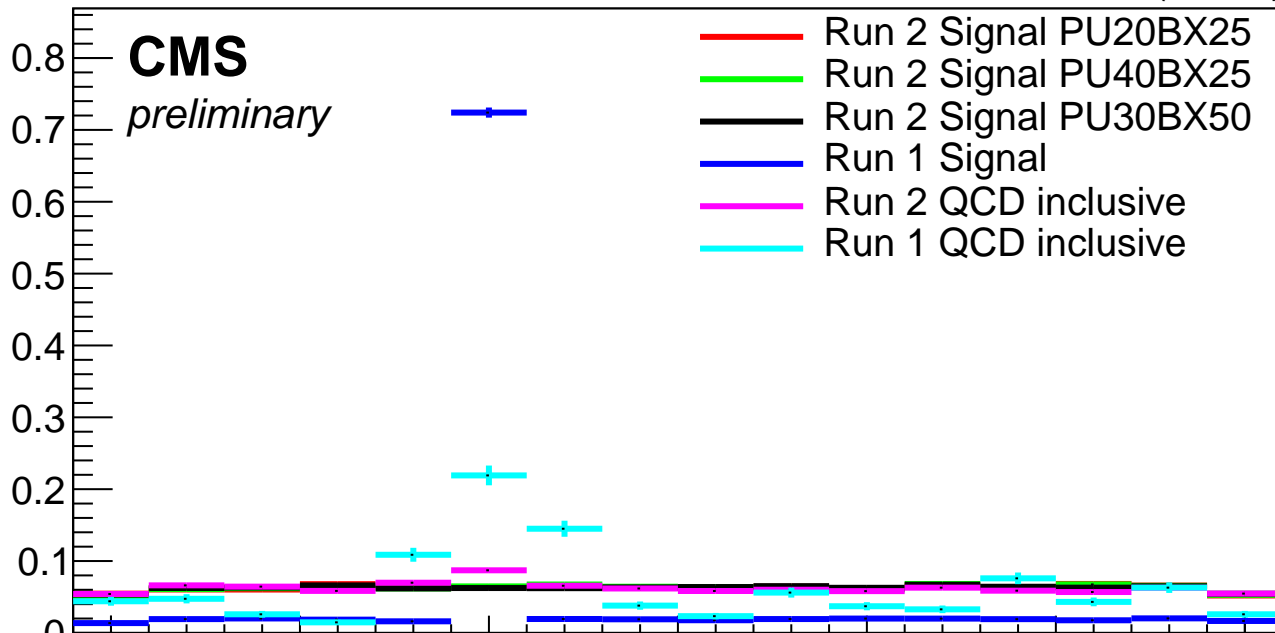
CMS

preliminary

- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive

Data/Bkg

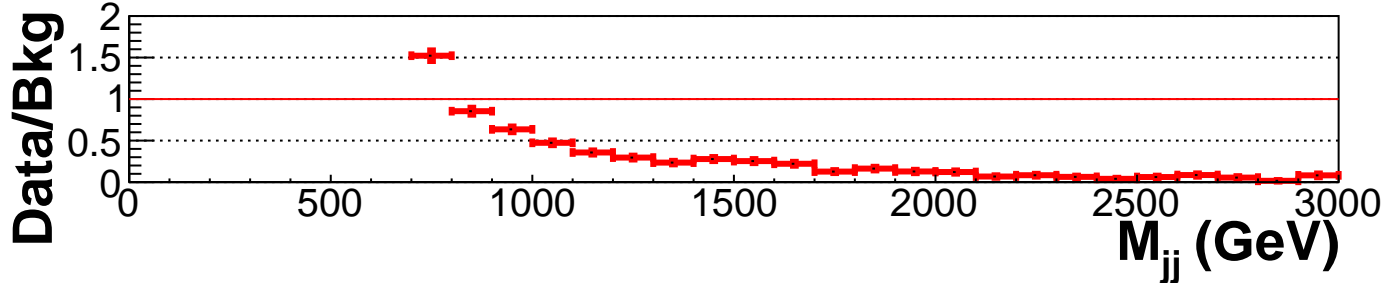
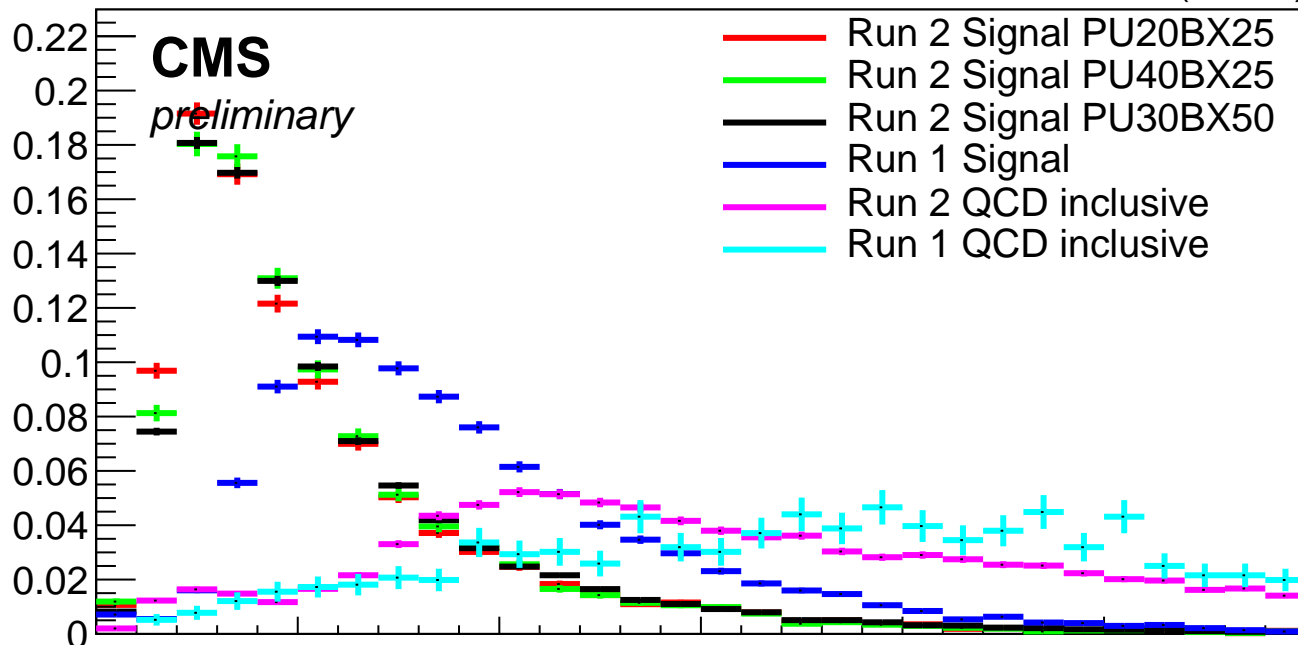
gen ϕ_{j1}



19.2 fb⁻¹ (8 TeV)

CMS

preliminary

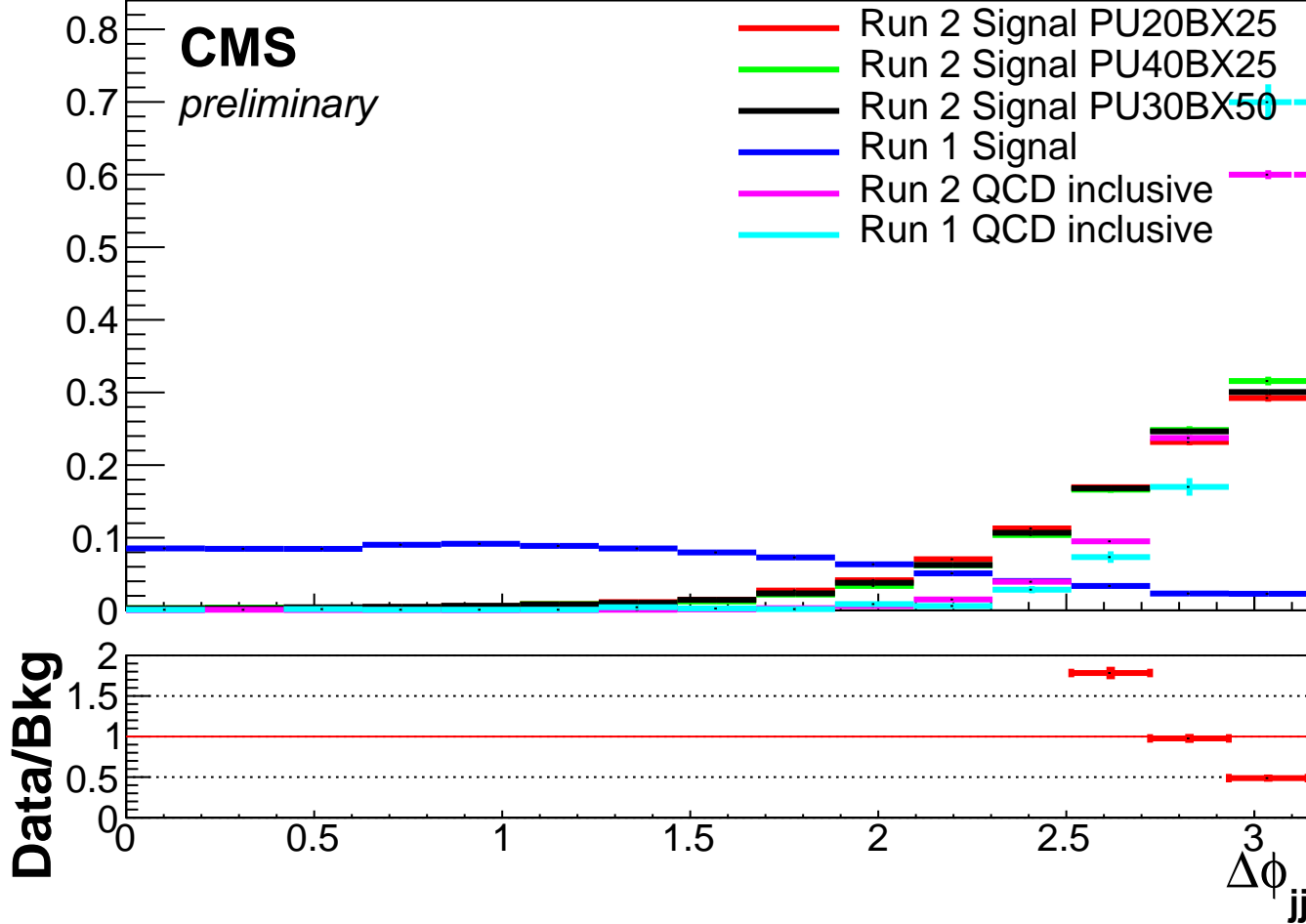


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

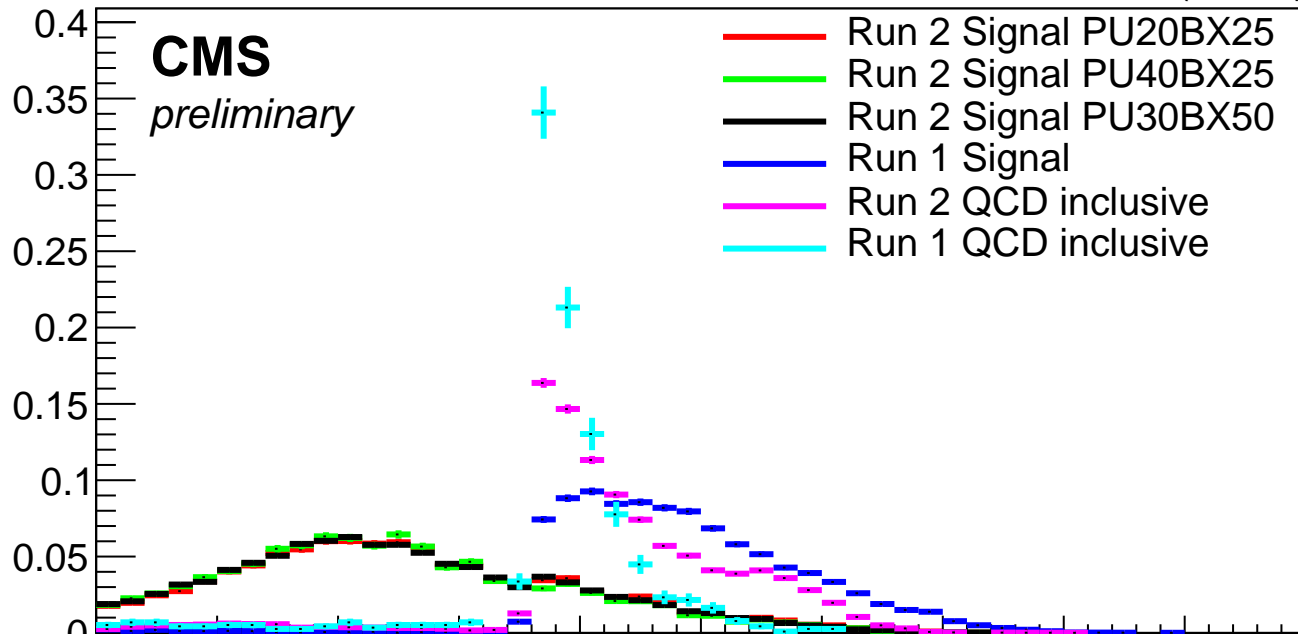
- Run 2 Signal PU20BX25
- Run 2 Signal PU40BX25
- Run 2 Signal PU30BX50
- Run 1 Signal
- Run 2 QCD inclusive
- Run 1 QCD inclusive



19.2 fb⁻¹ (8 TeV)

CMS

preliminary



Data/Bkg

