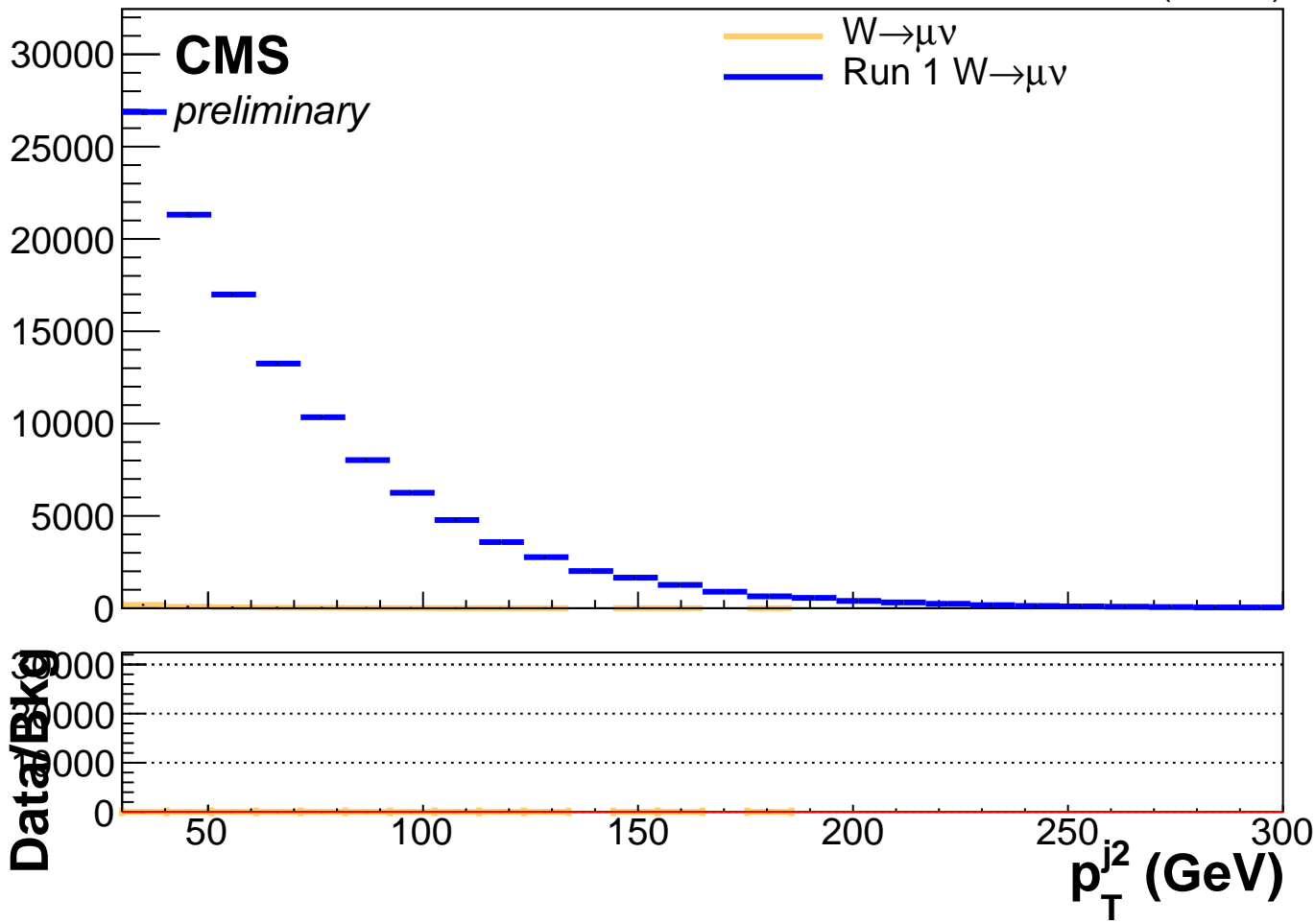


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν
Run 1 W→μν

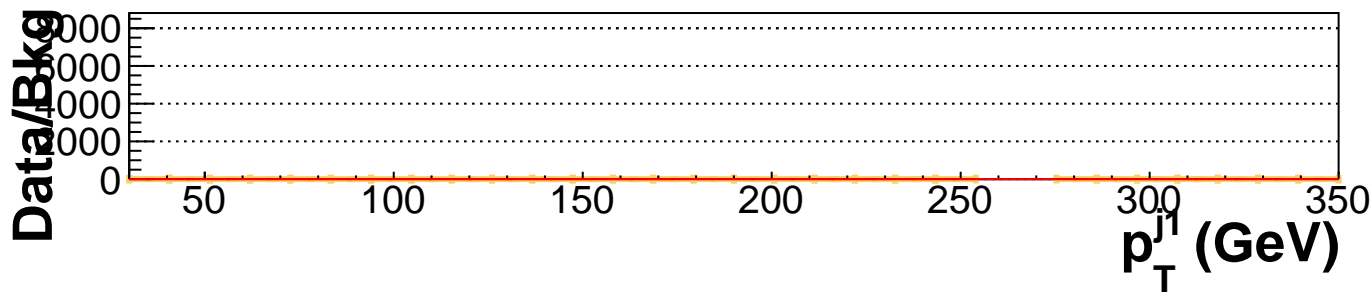


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



19.2 fb⁻¹ (8 TeV)

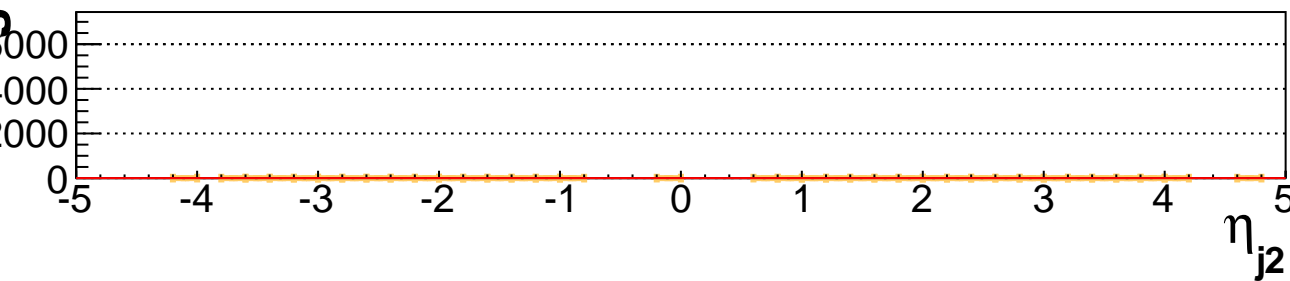
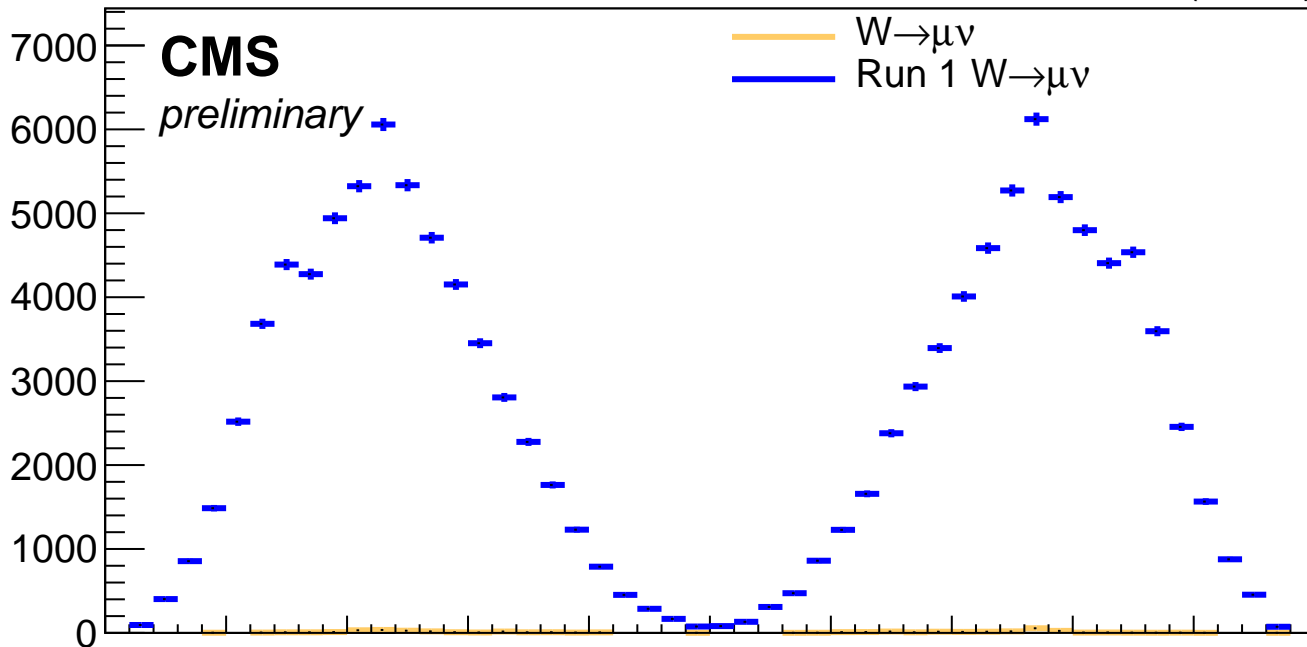
CMS

preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$

Data/Bkg

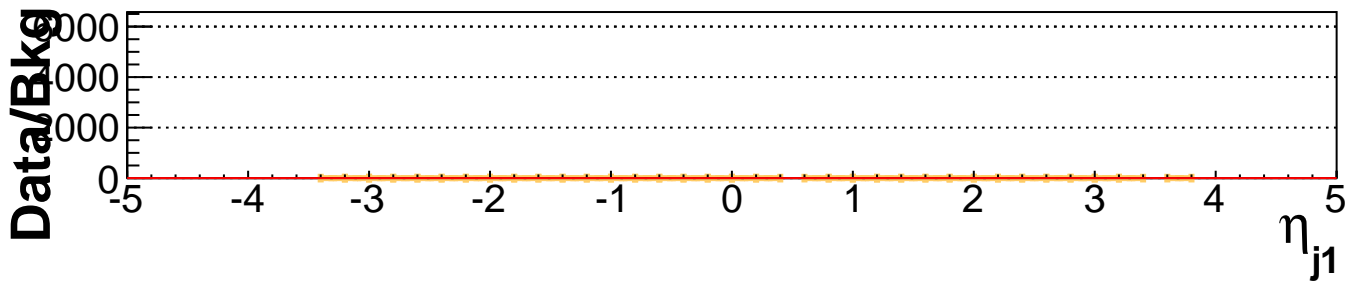
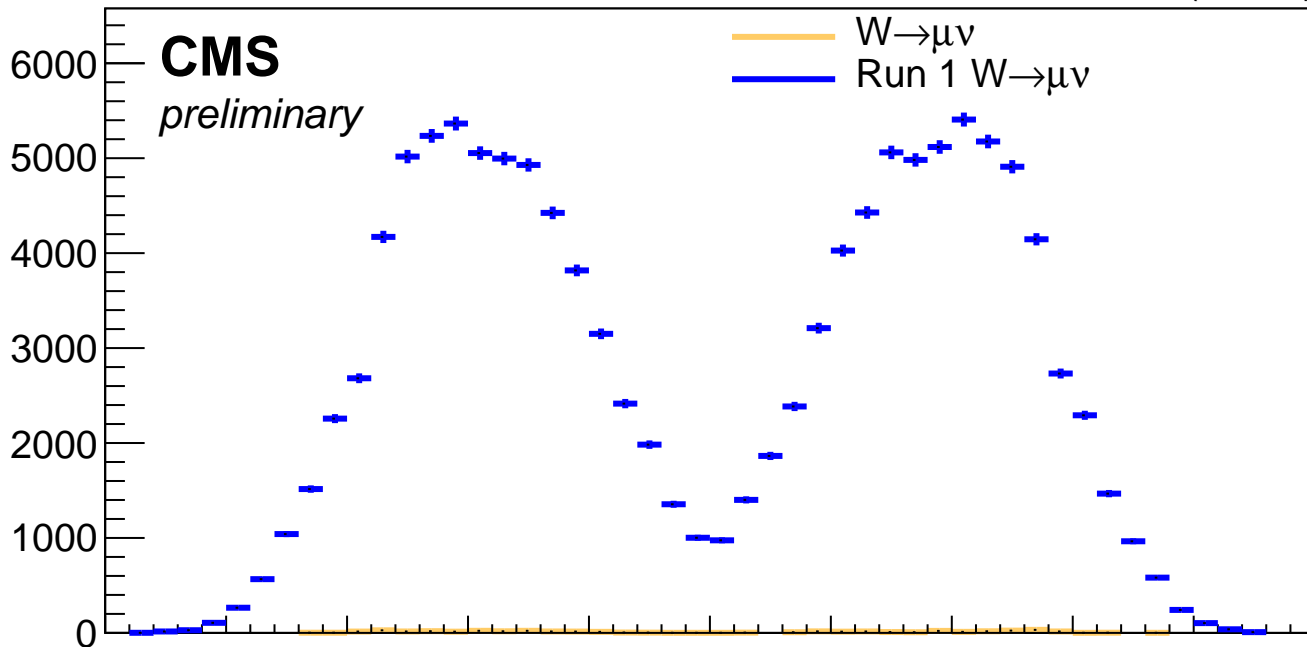
η_{j2}



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



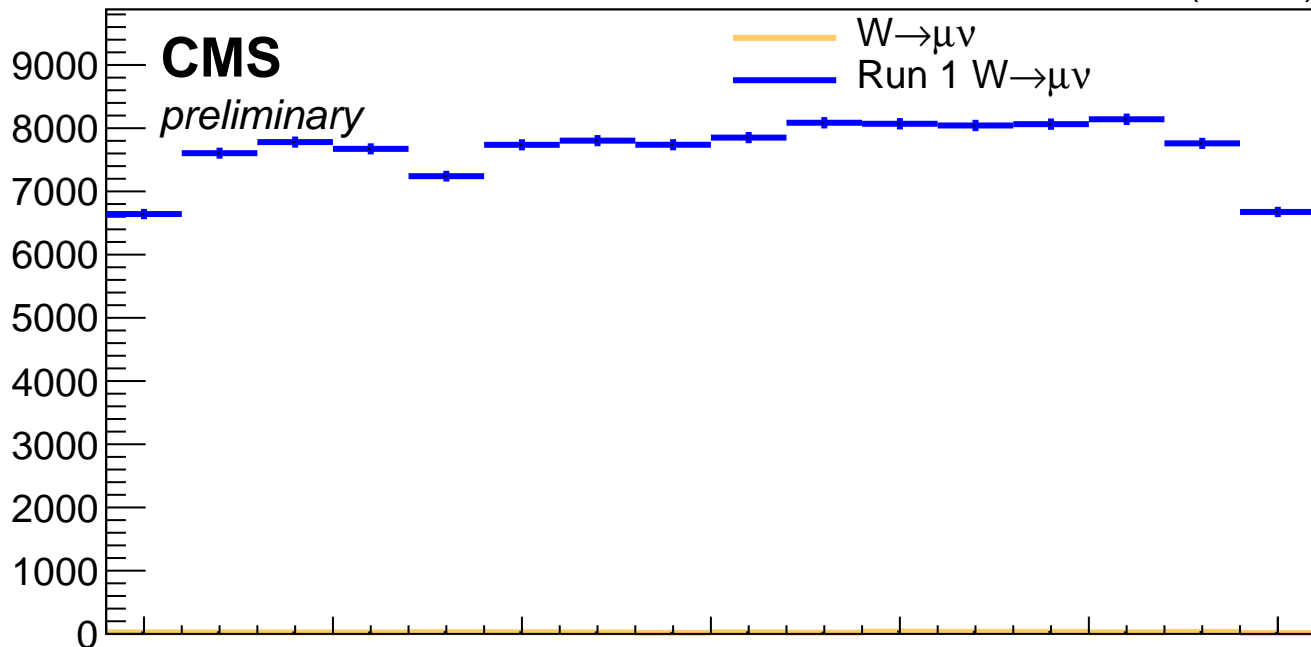
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν

Run 1 W→μν



Data/Bkg

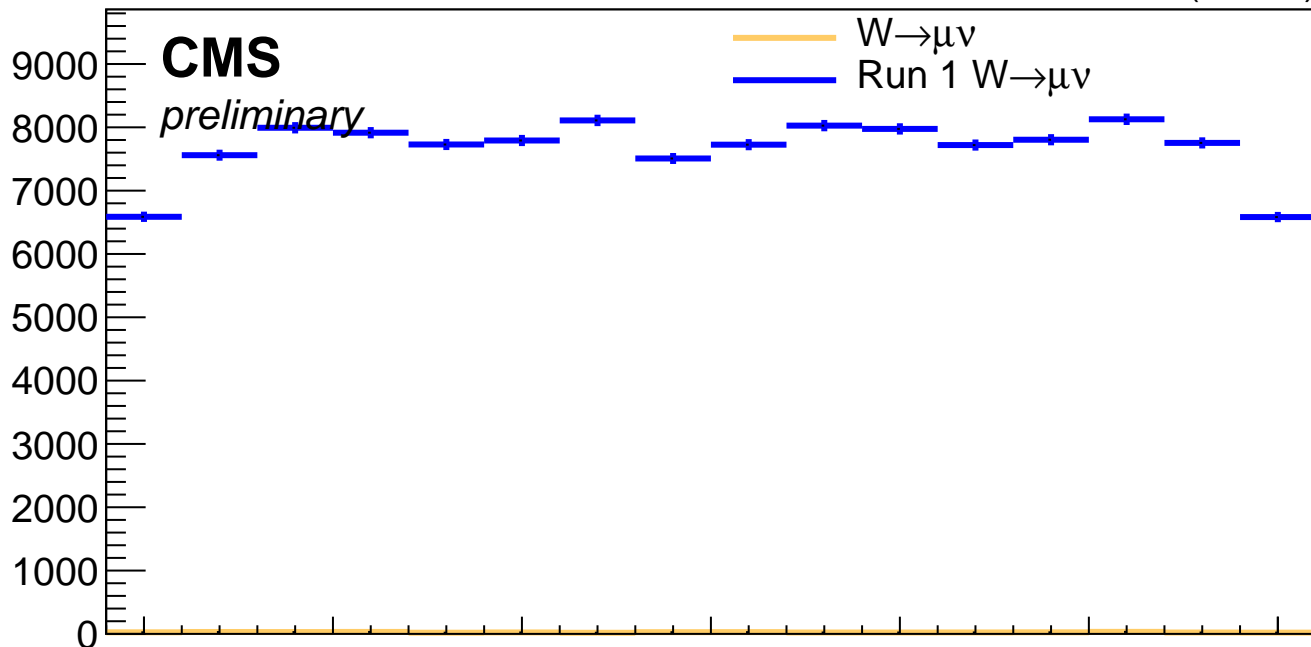
ϕ_{j1}

19.2 fb⁻¹ (8 TeV)

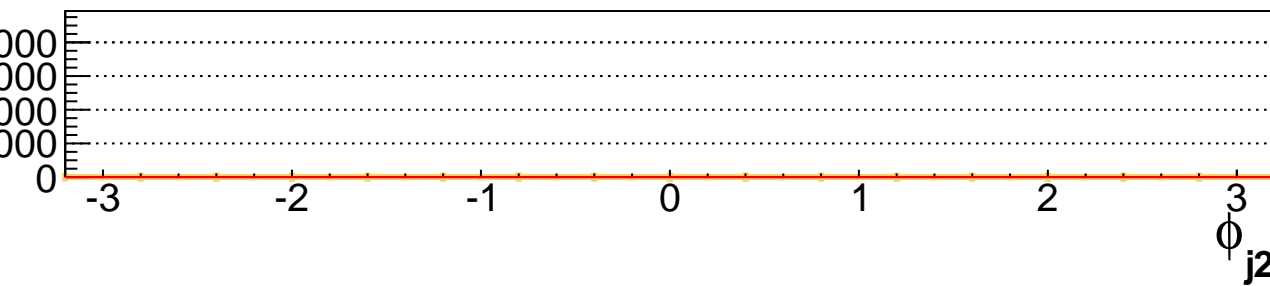
CMS

preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



Data/Bkg



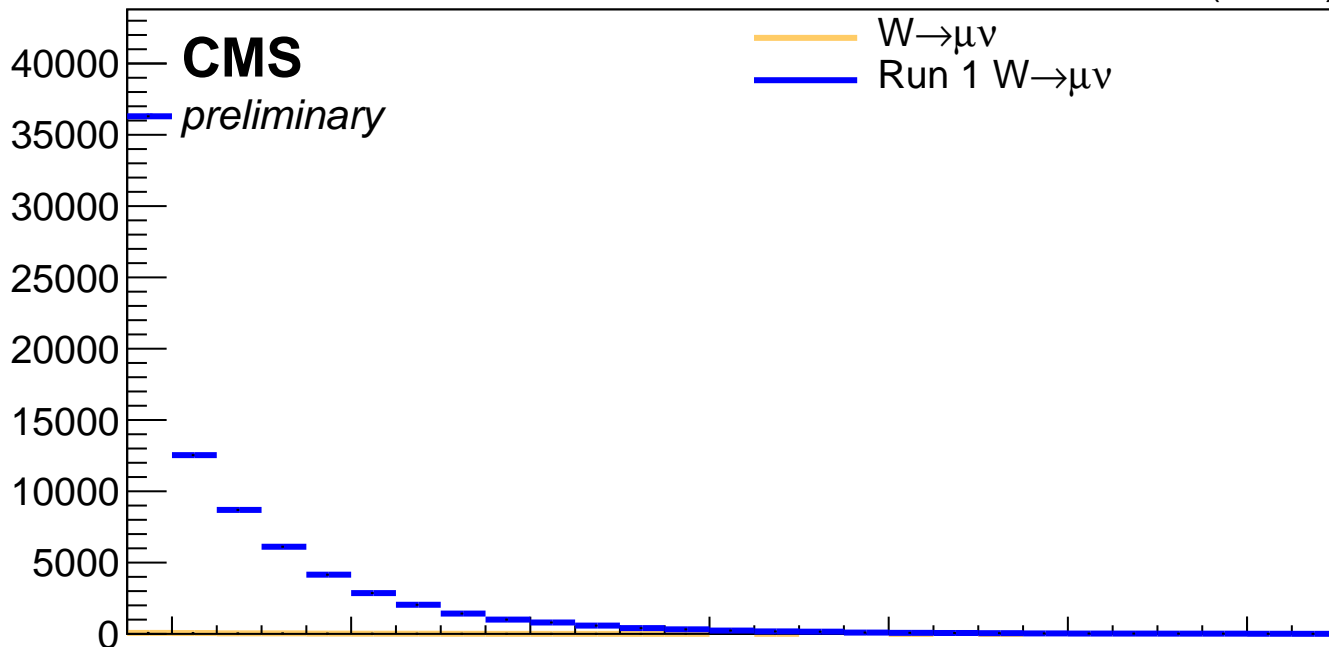
19.2 fb⁻¹ (8 TeV)

CMS

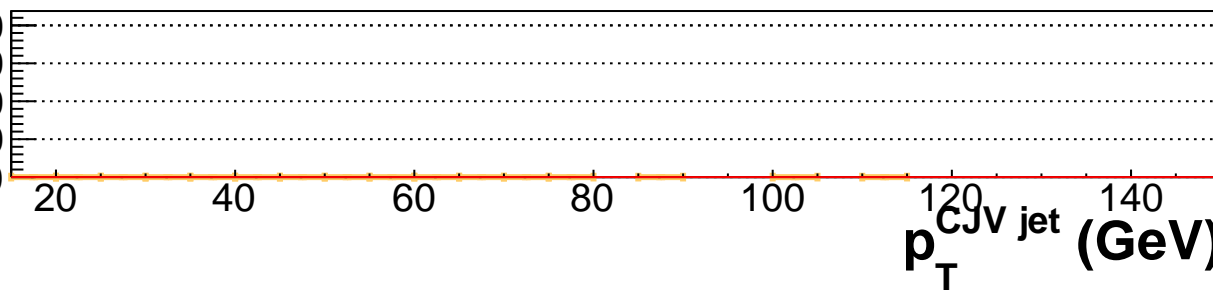
preliminary

W→μν

Run 1 W→μν



Data/Bkg

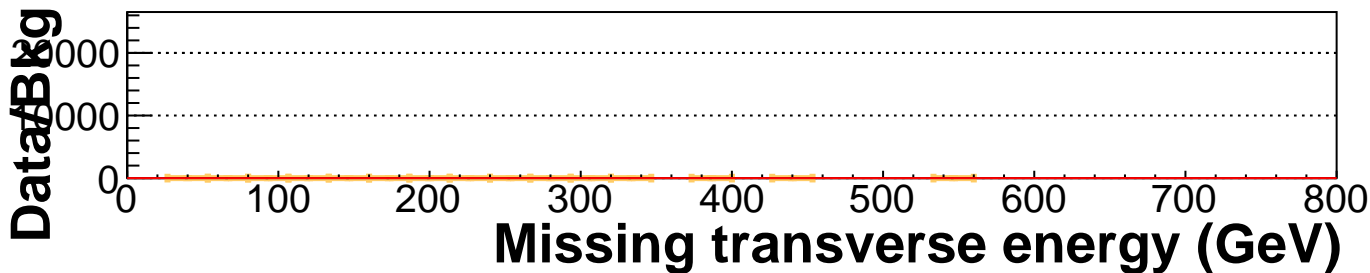
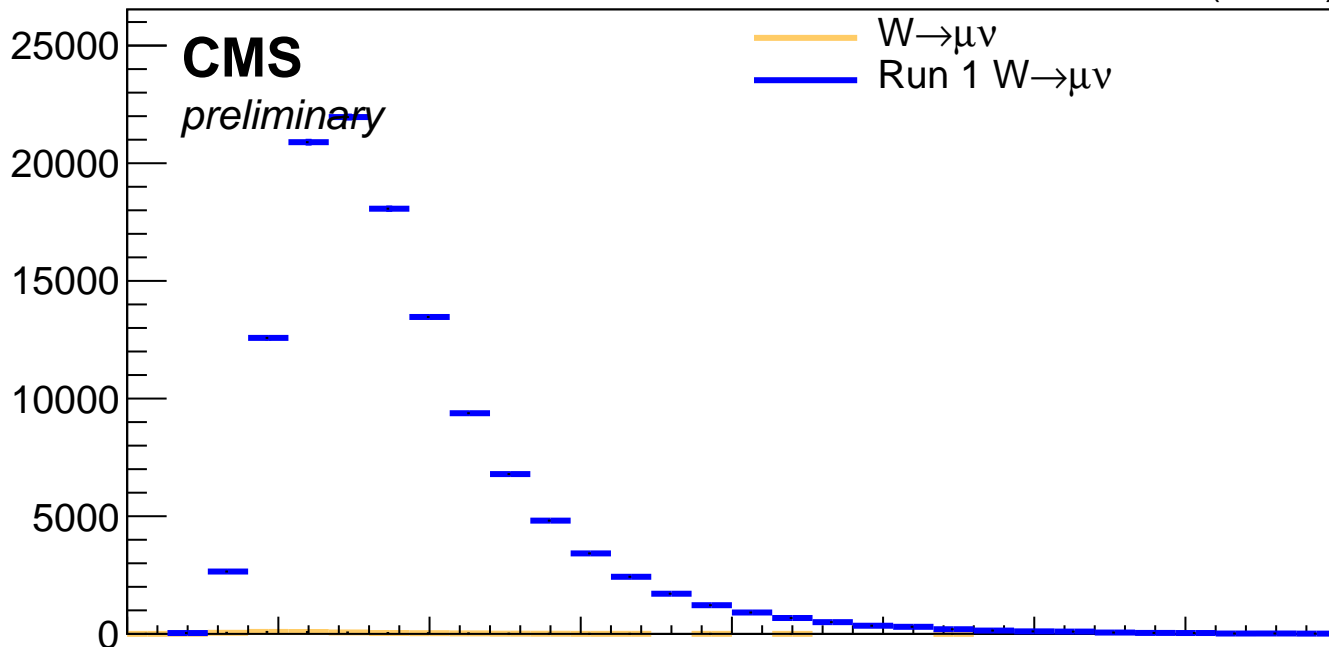


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν
Run 1 W→μν

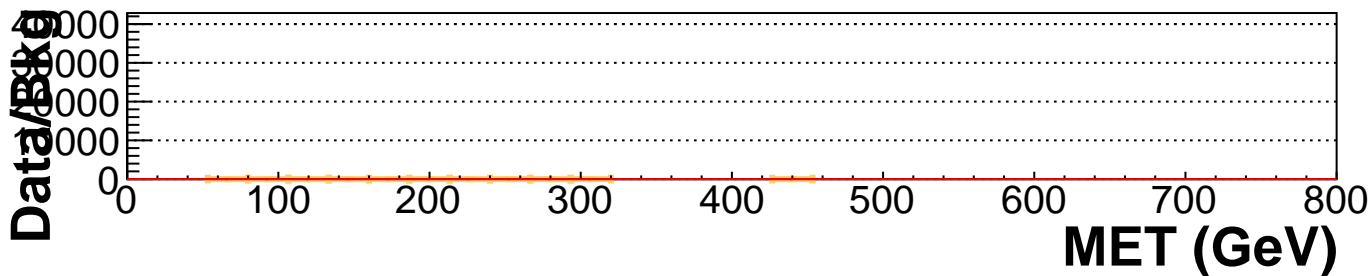
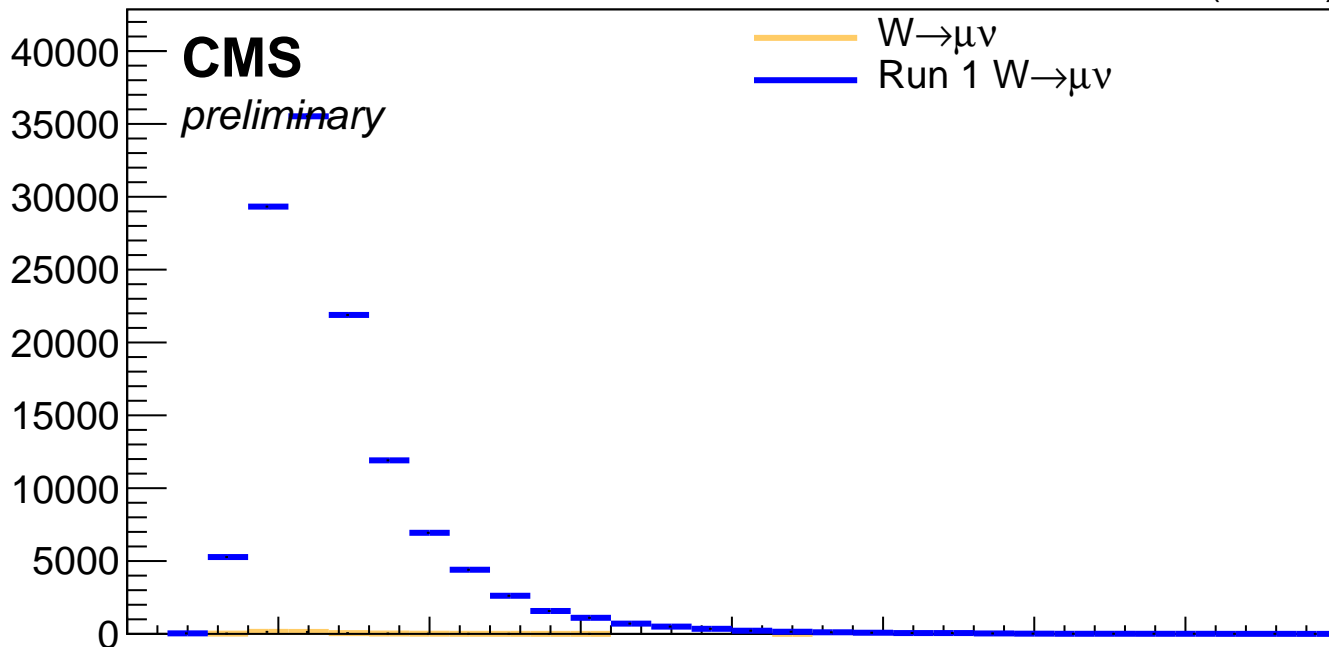


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

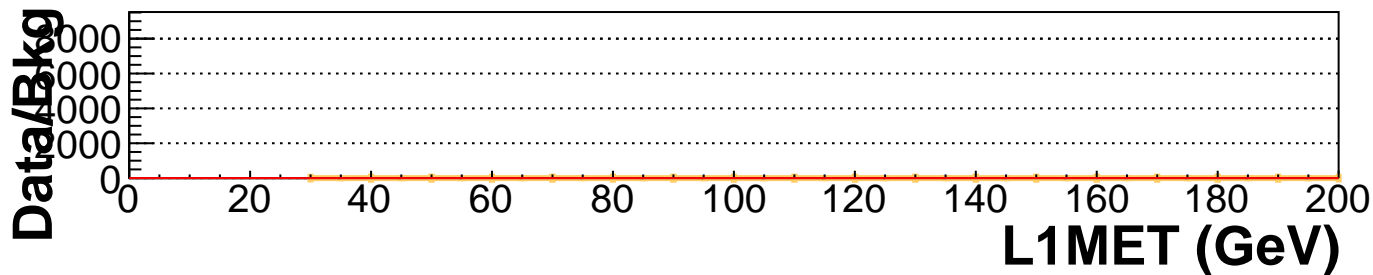
W→μν
Run 1 W→μν



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$

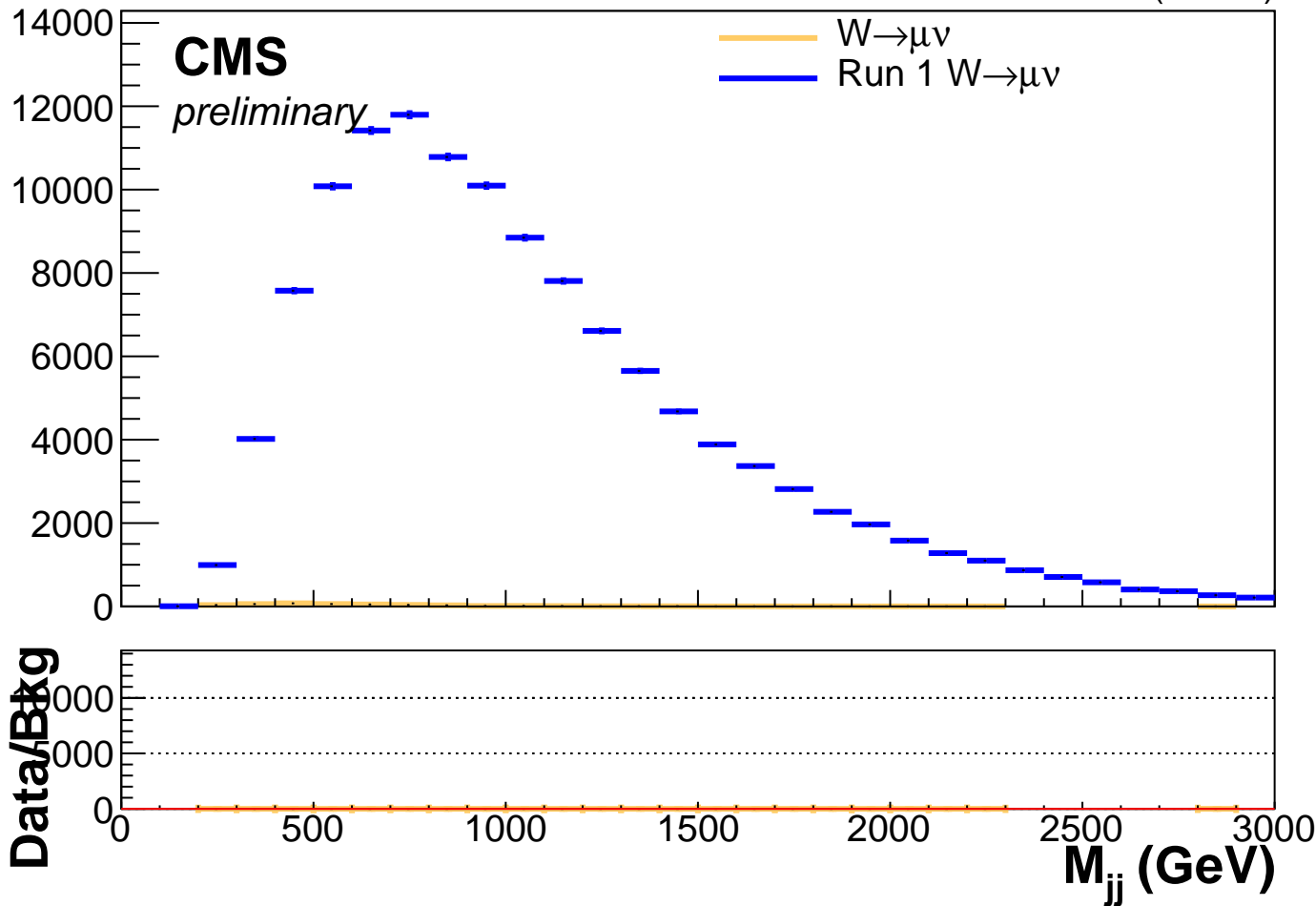


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

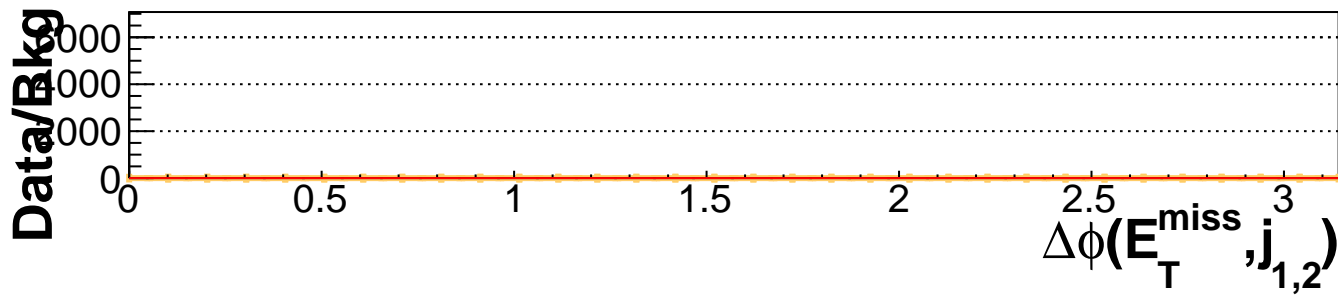
W→μν
Run 1 W→μν



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

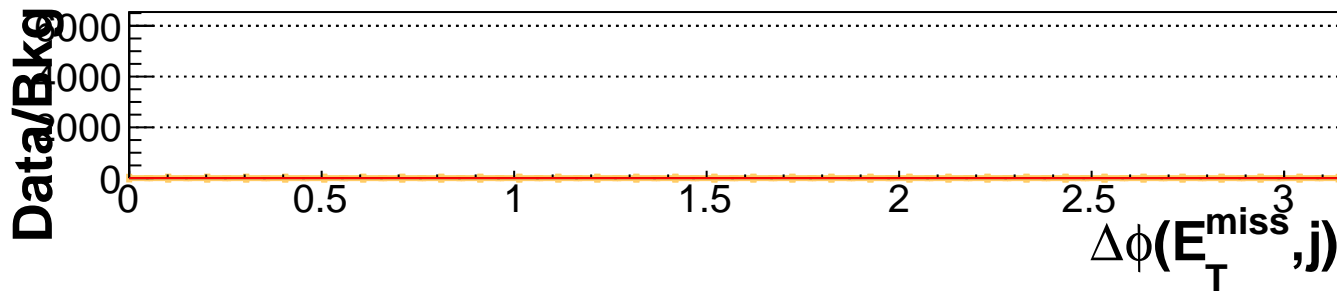
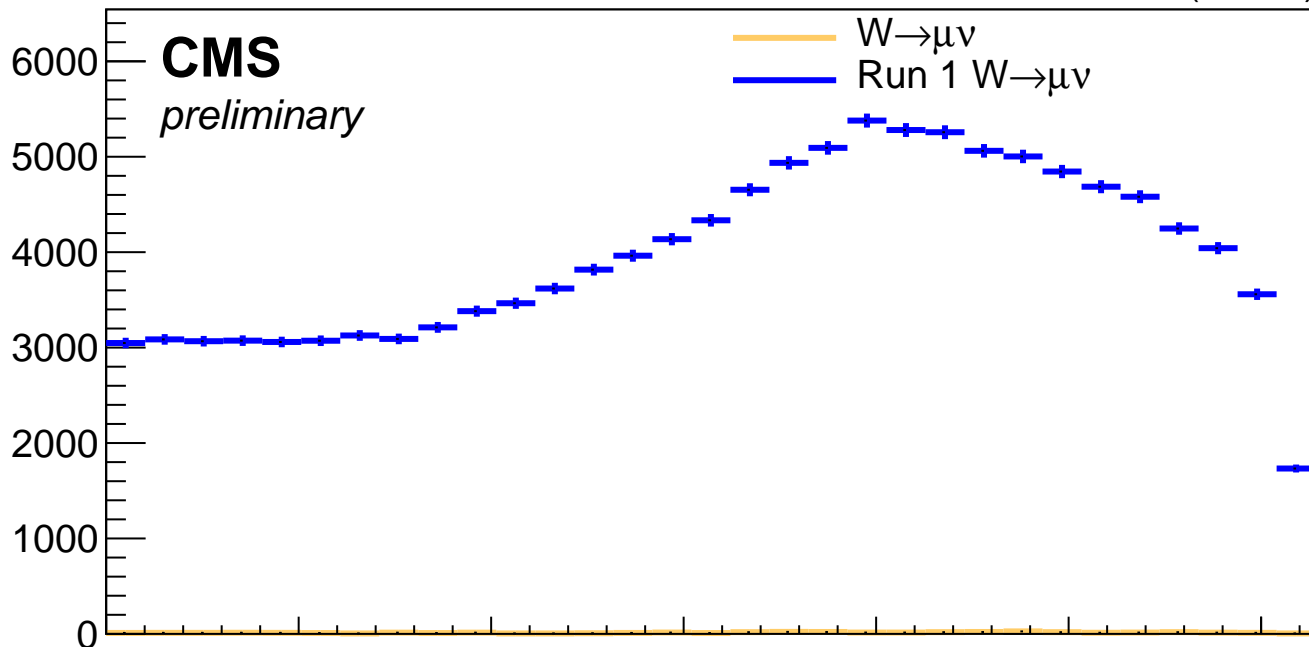
— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$



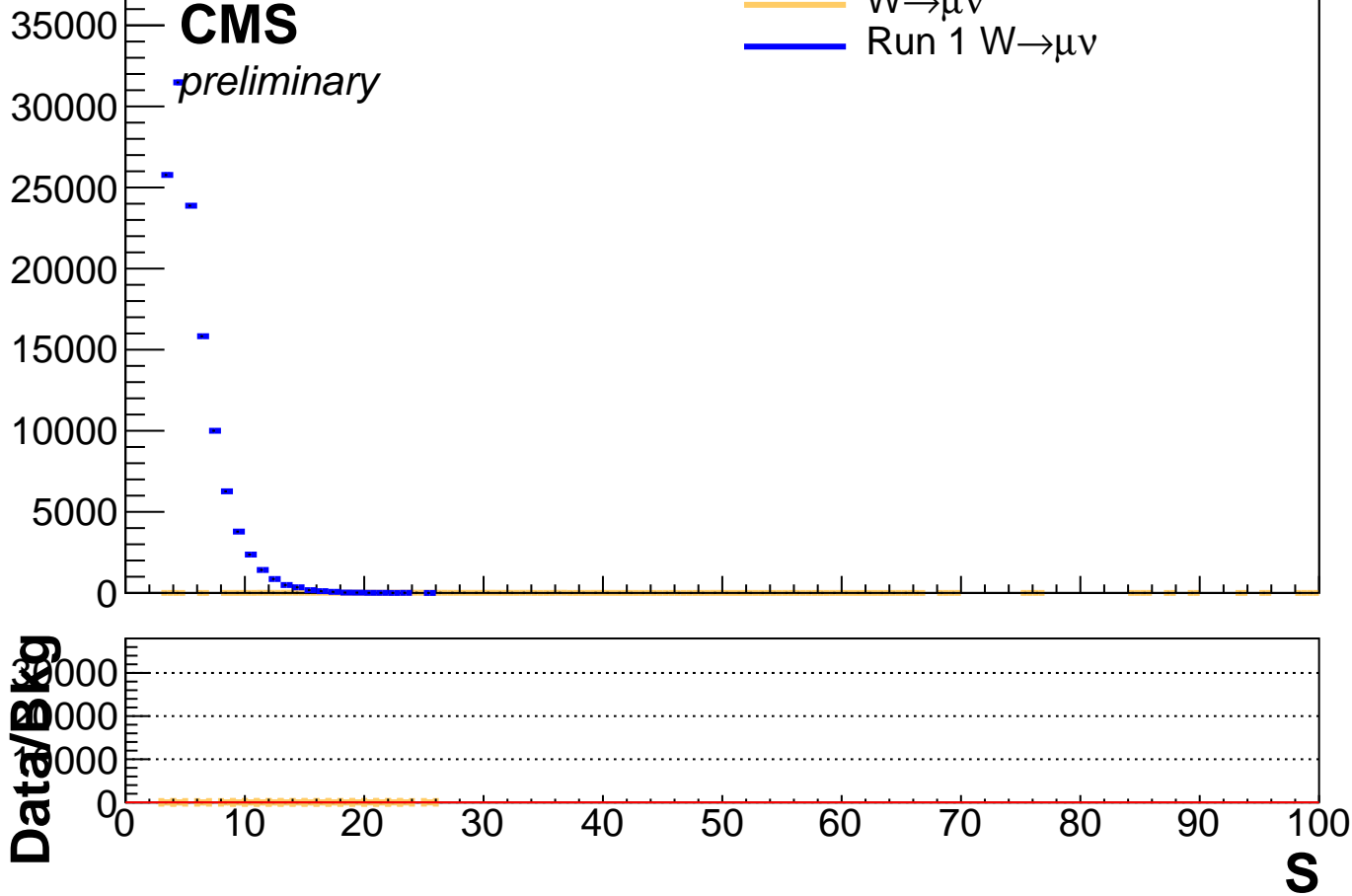
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν

Run 1 W→μν



19.2 fb⁻¹ (8 TeV)

CMS

preliminary

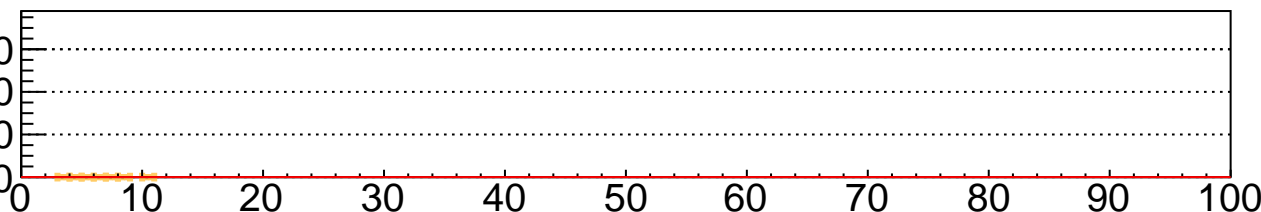
W→μν

Run 1 W→μν

70000
60000
50000
40000
30000
20000
10000
0

Data/Bkg

20000
10000
0

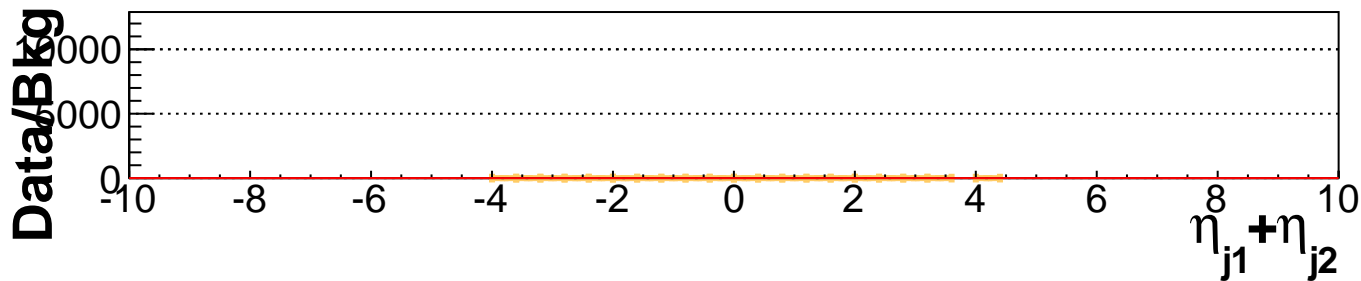
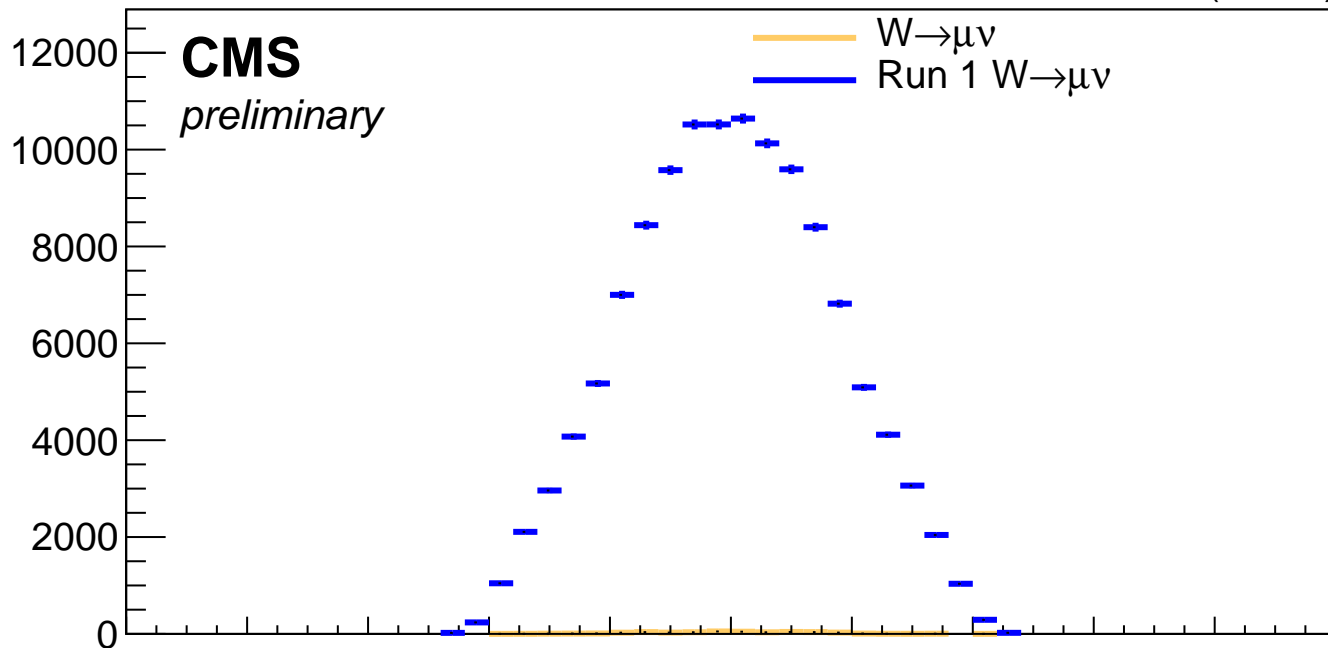


Run 1 S

19.2 fb⁻¹ (8 TeV)

CMS
preliminary

W → μν
Run 1 W → μν

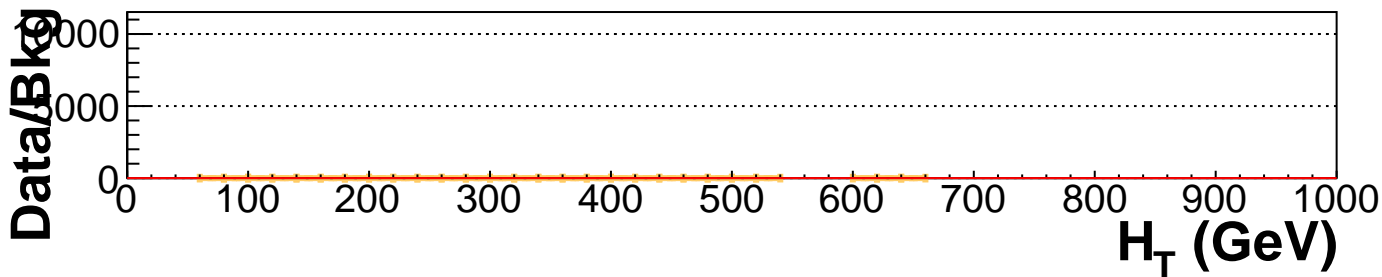
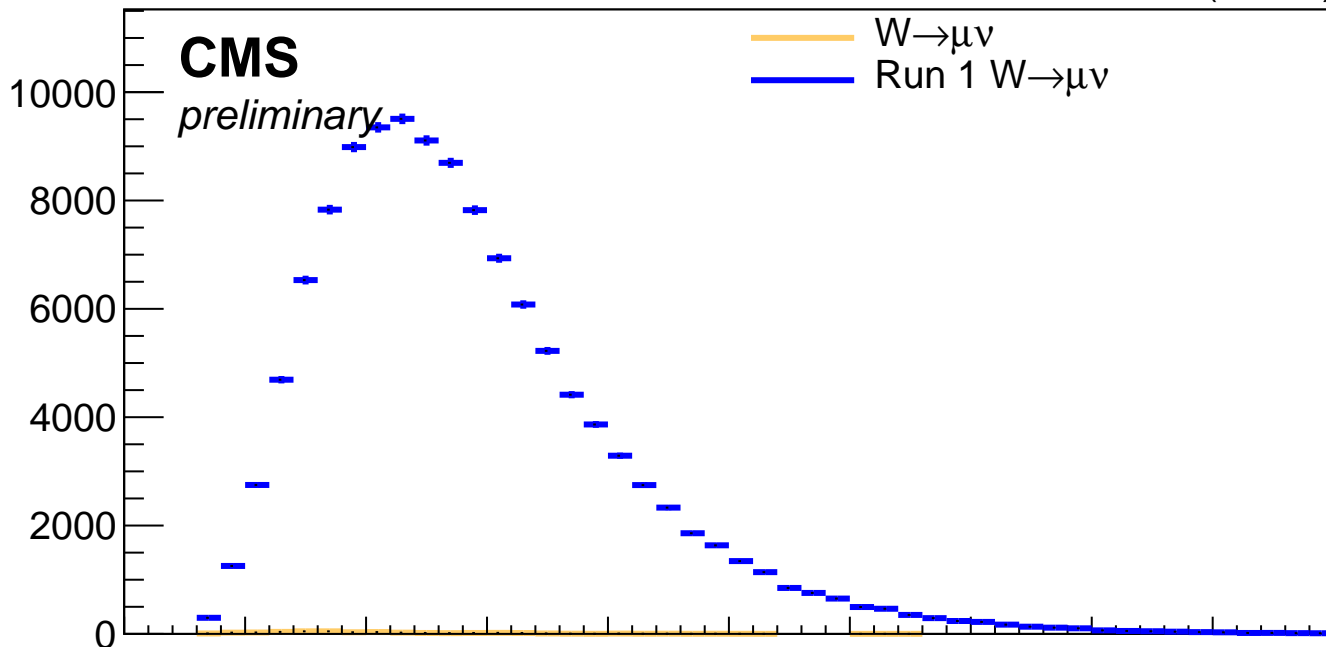


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$

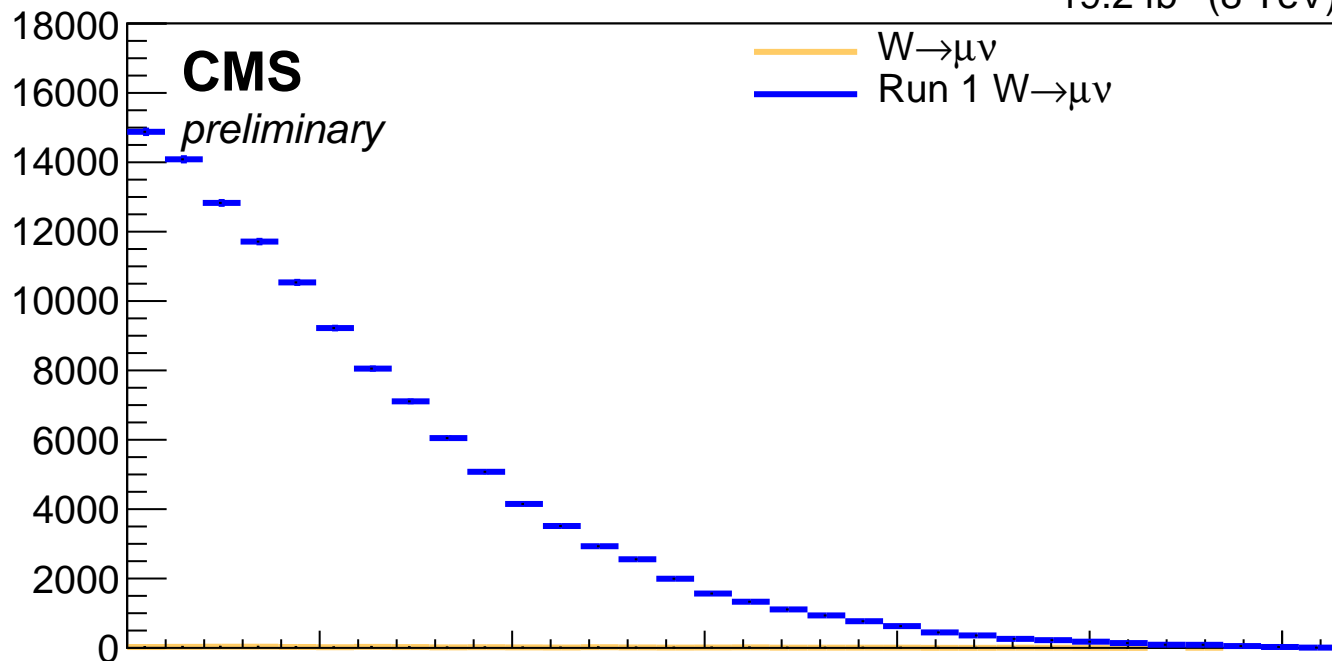


19.2 fb⁻¹ (8 TeV)

CMS

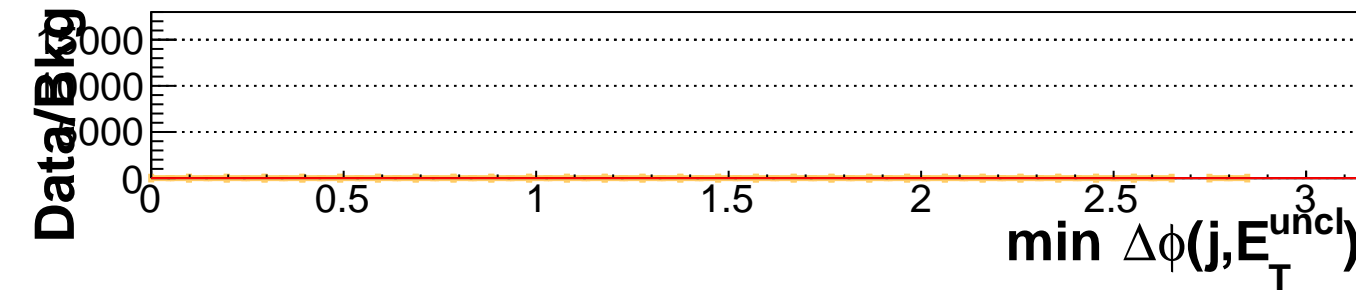
preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$



Data/Bkg

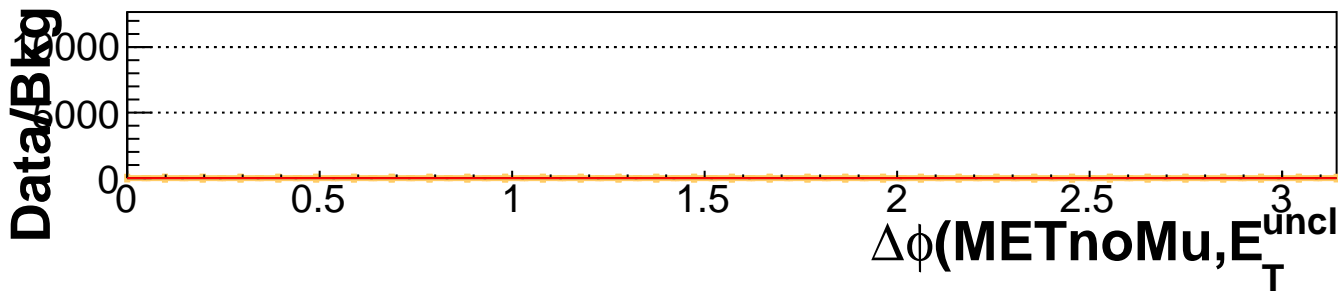
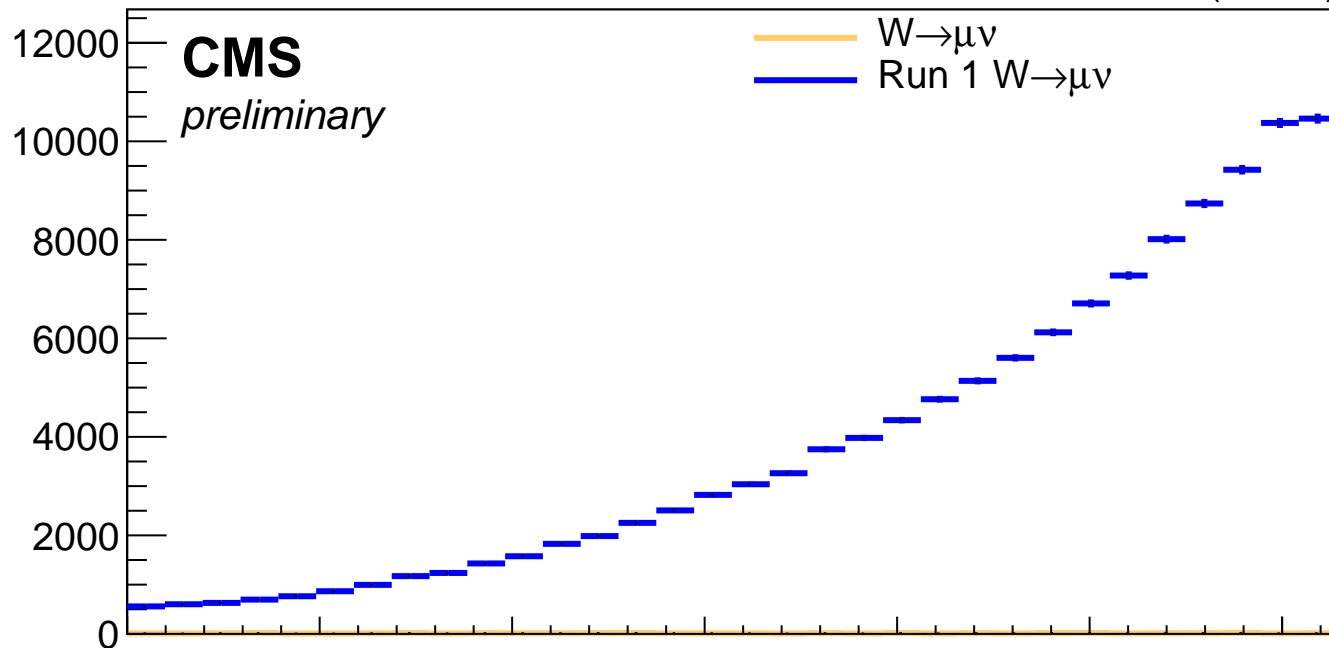
$\min \Delta\phi(j, E_T^{\text{uncl}})$



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$



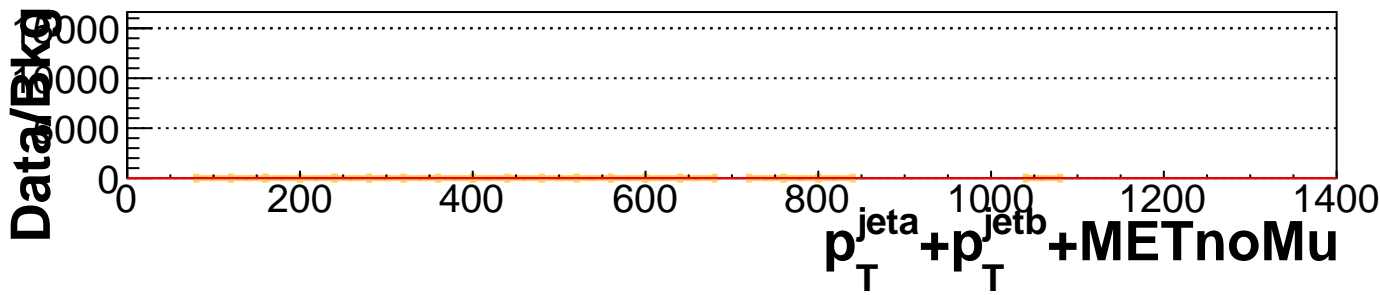
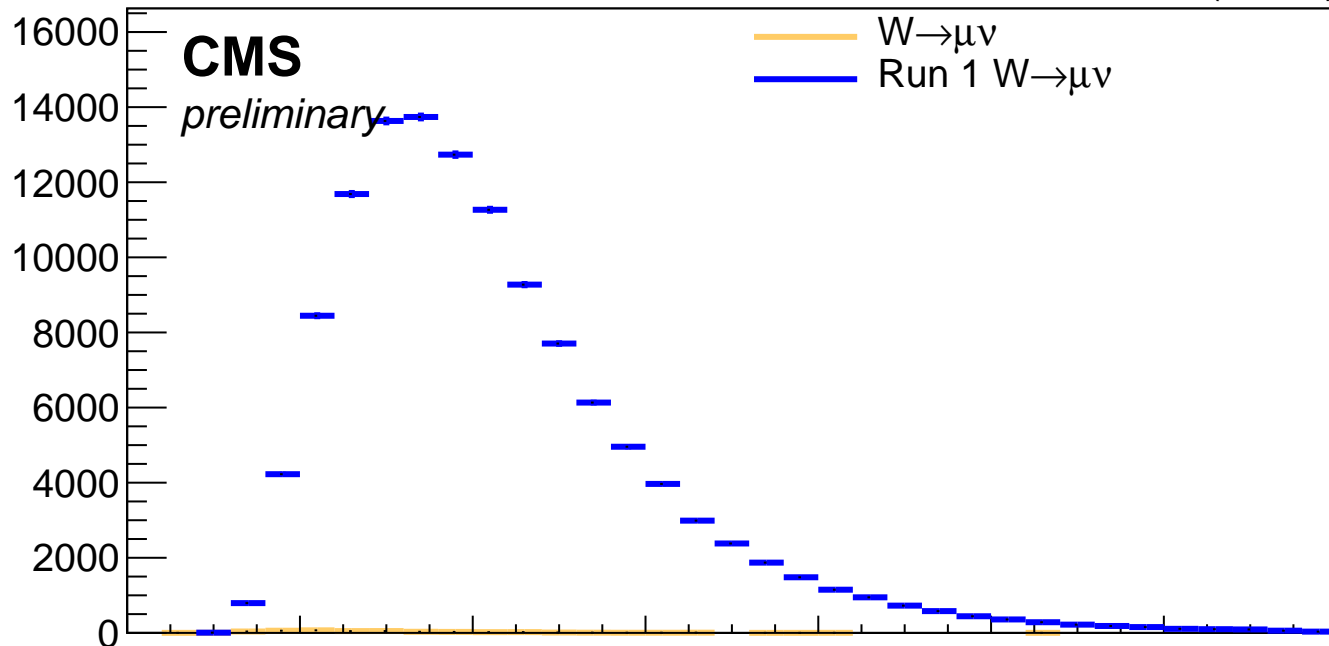
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν

Run 1 W→μν

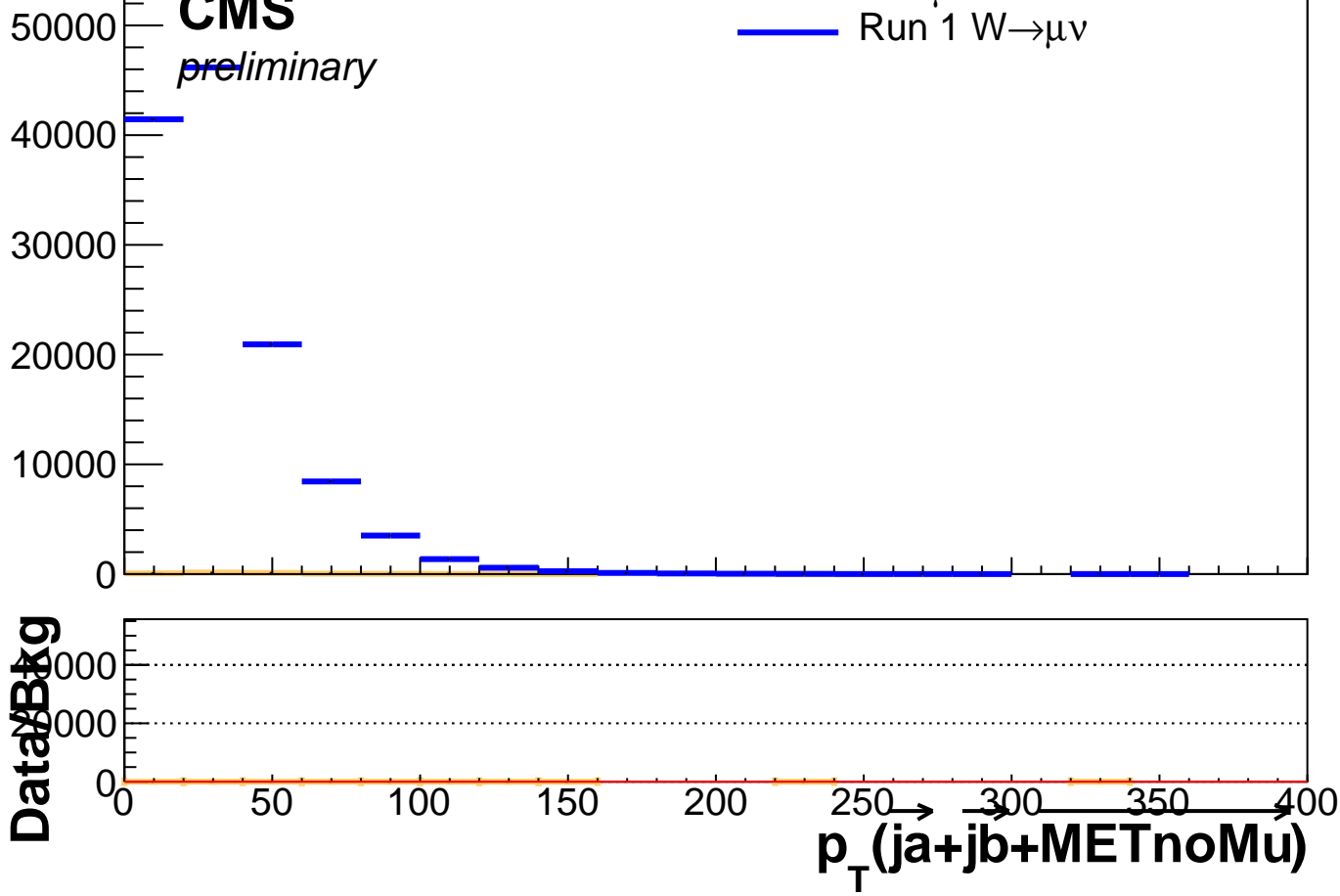


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$



19.2 fb⁻¹ (8 TeV)

CMS

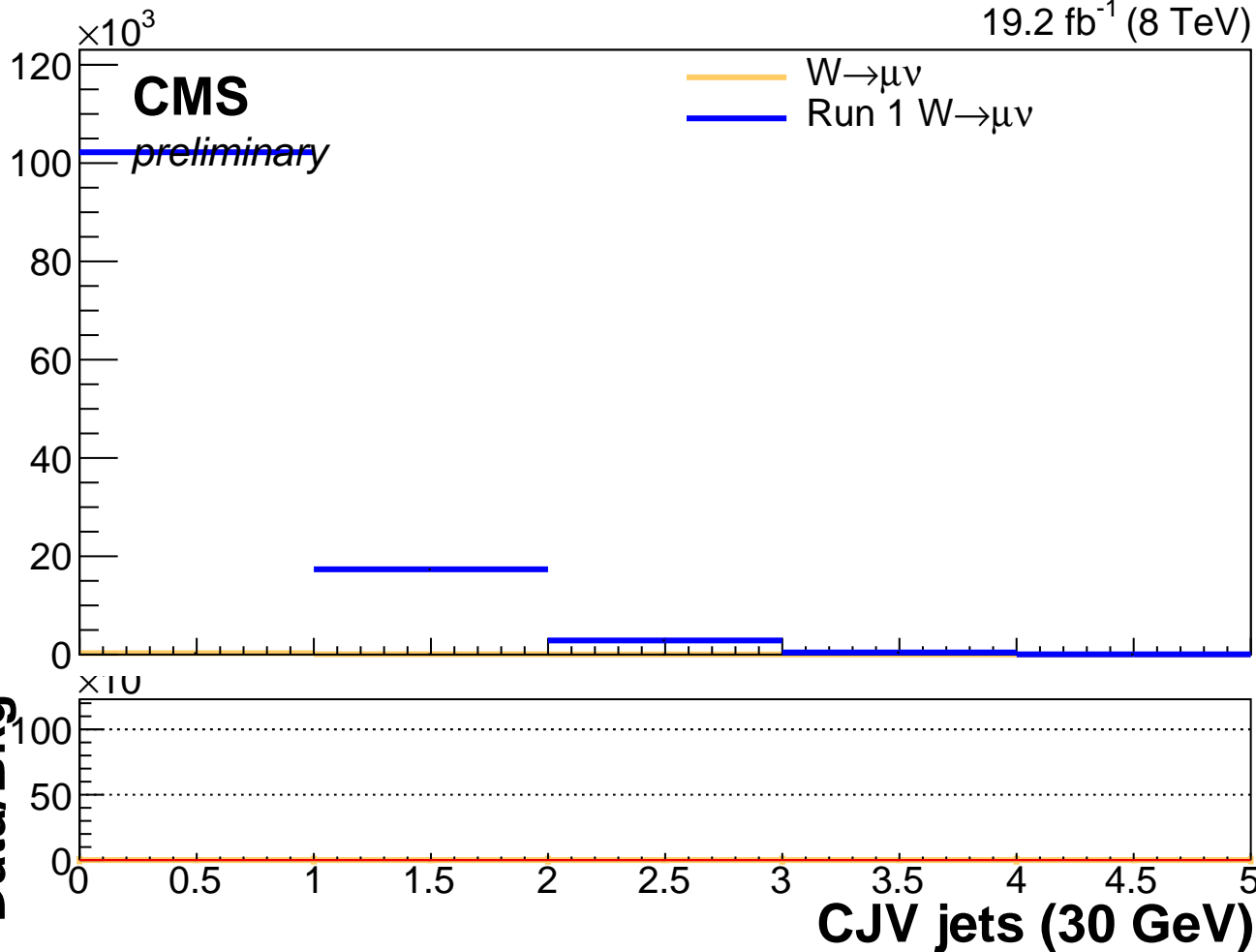
preliminary

W→μν

Run 1 W→μν

Data/Bkg

CJV jets (30 GeV)



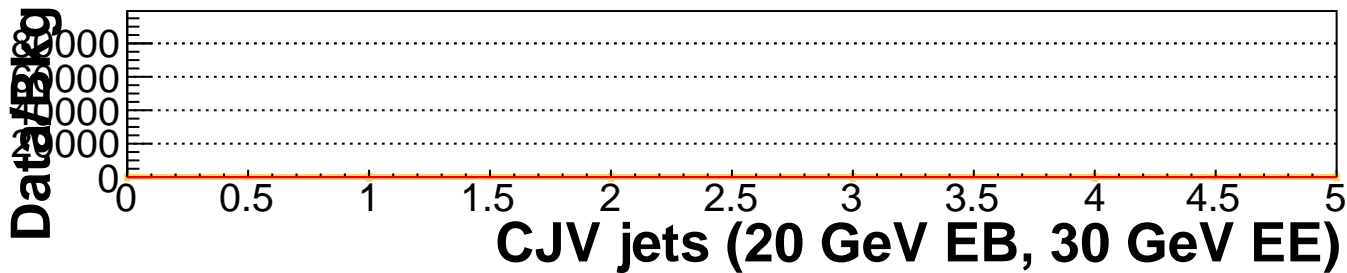
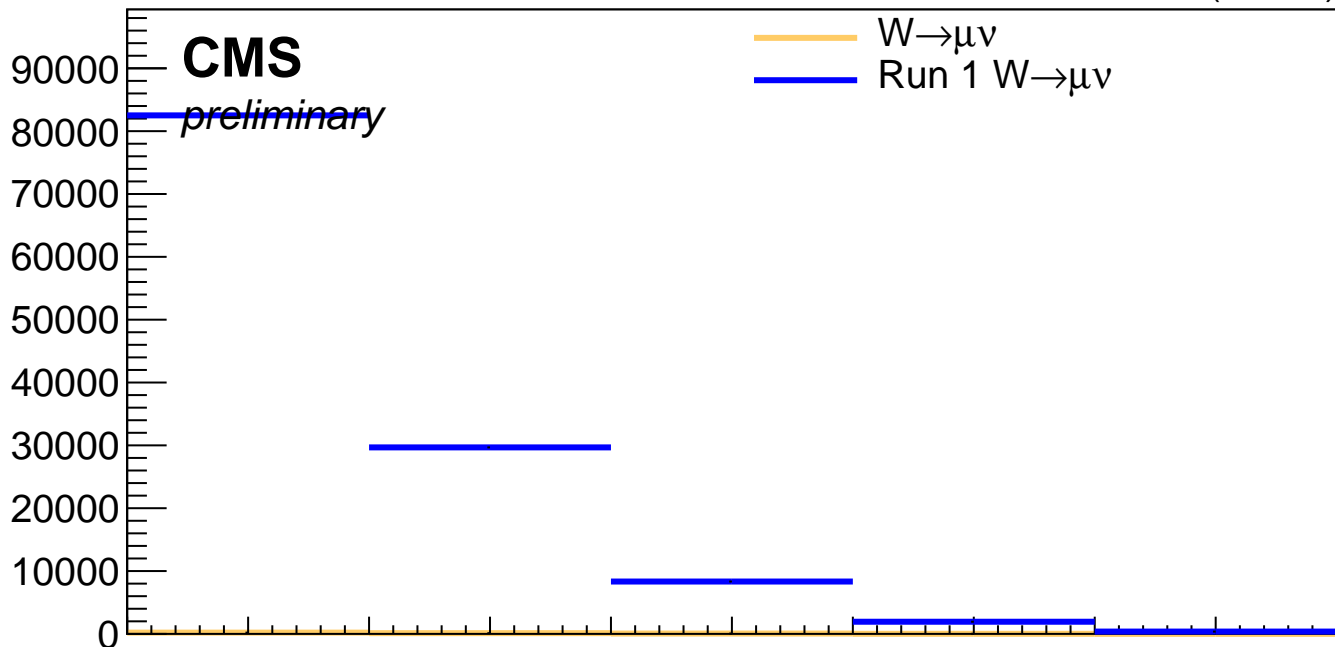
19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν

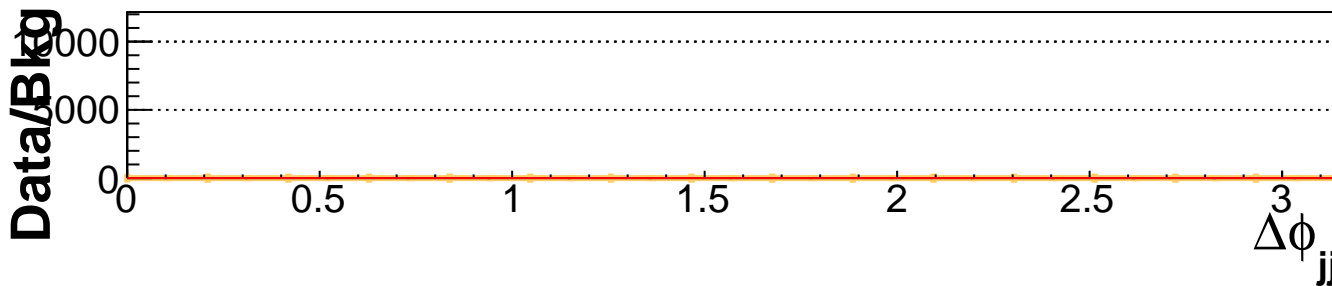
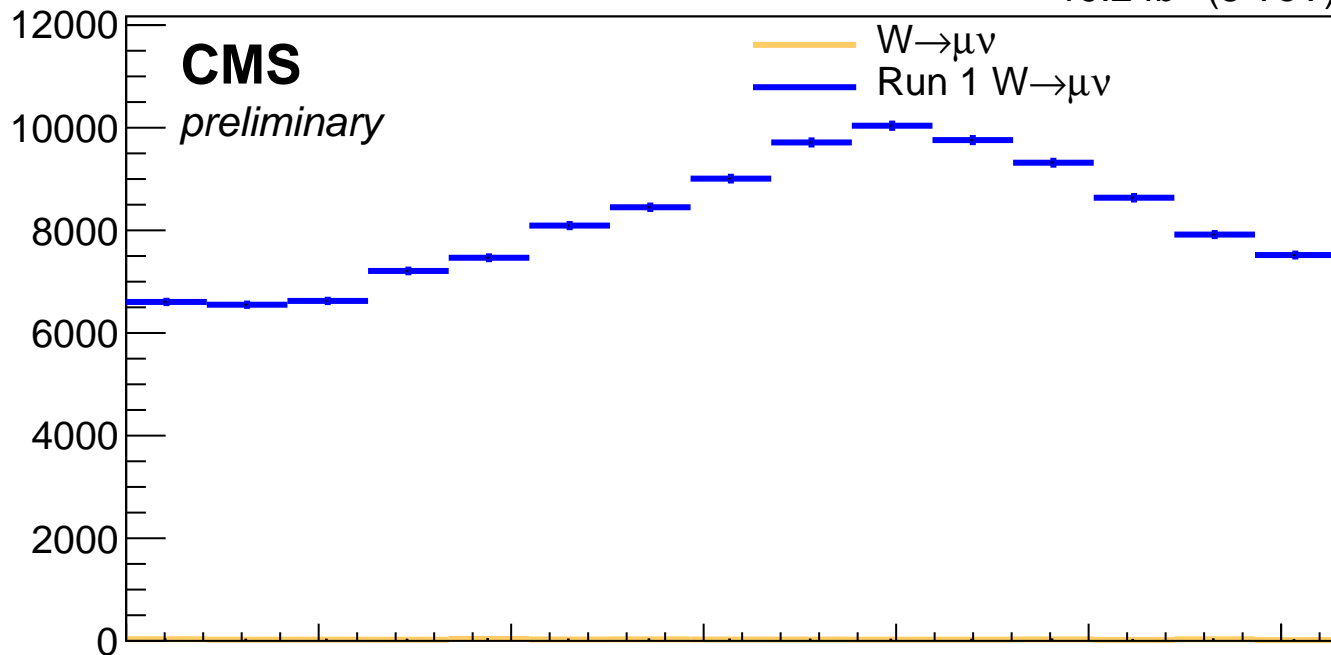
Run 1 W→μν



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

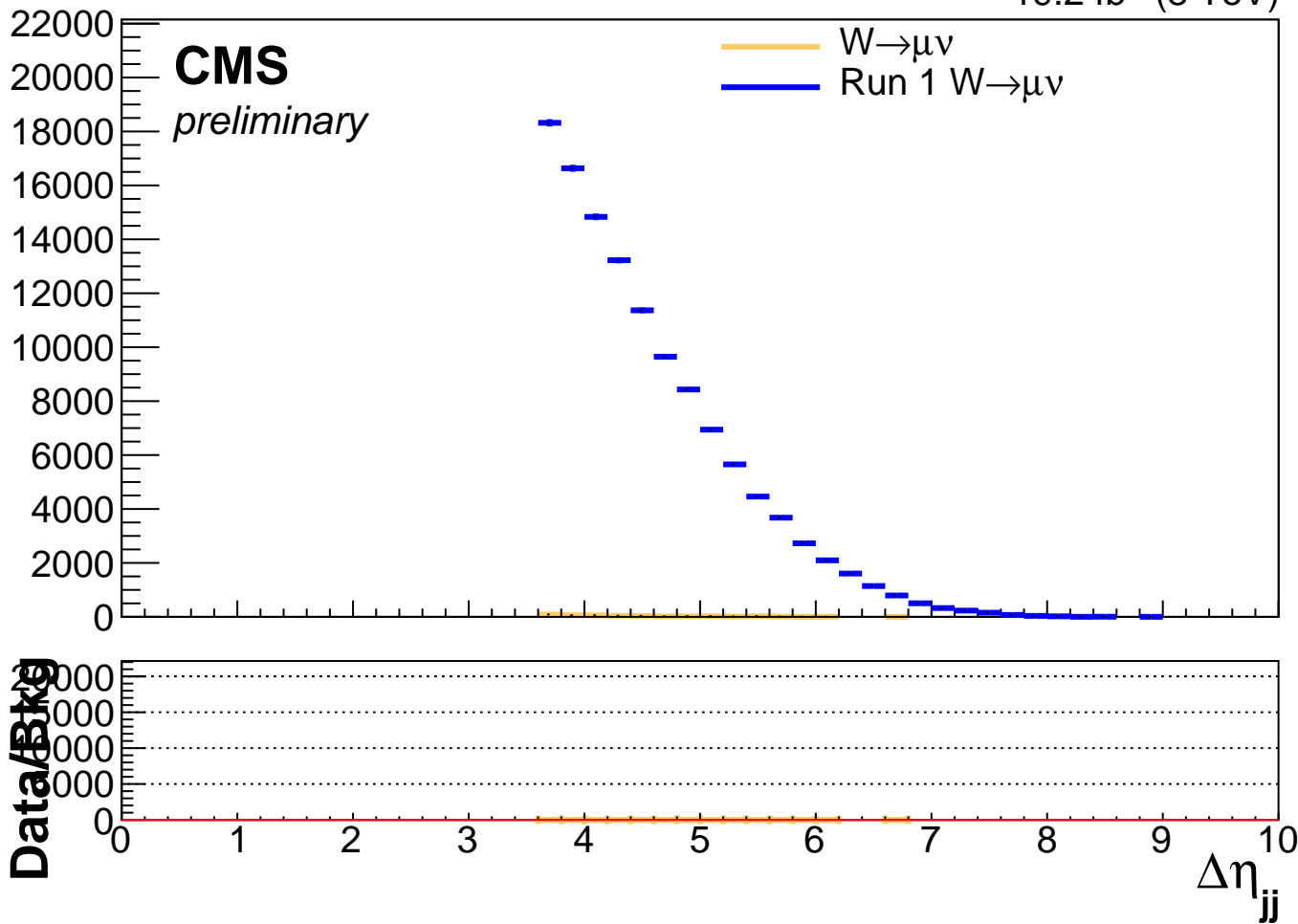
— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

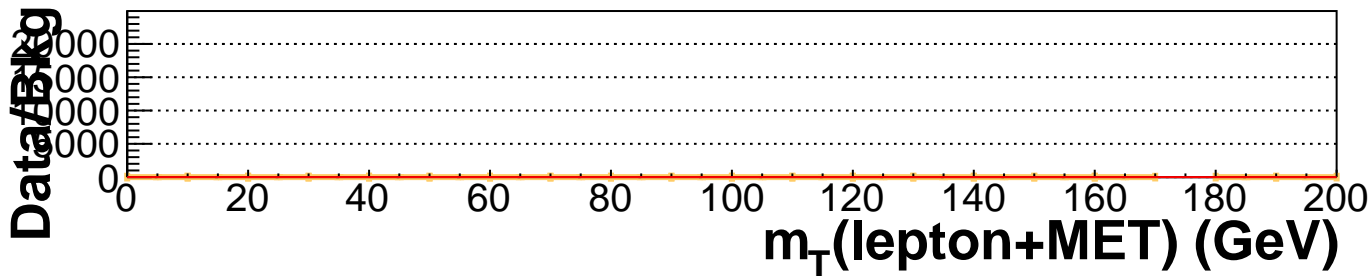
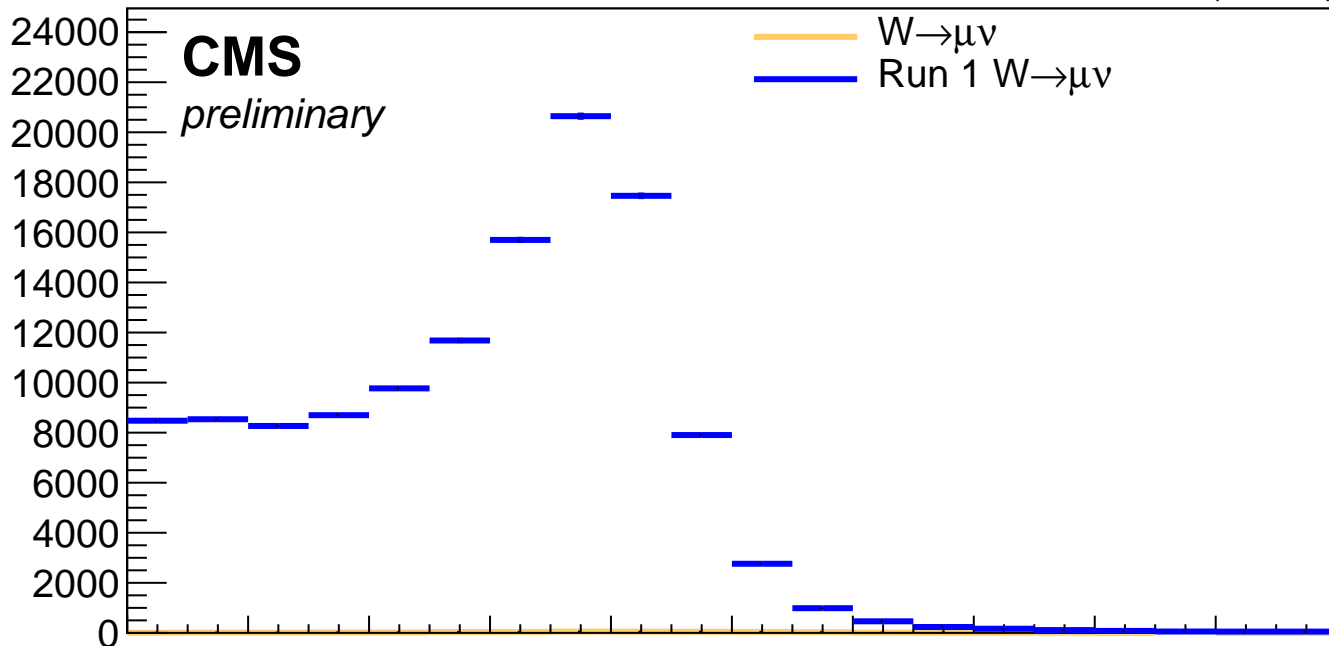
— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

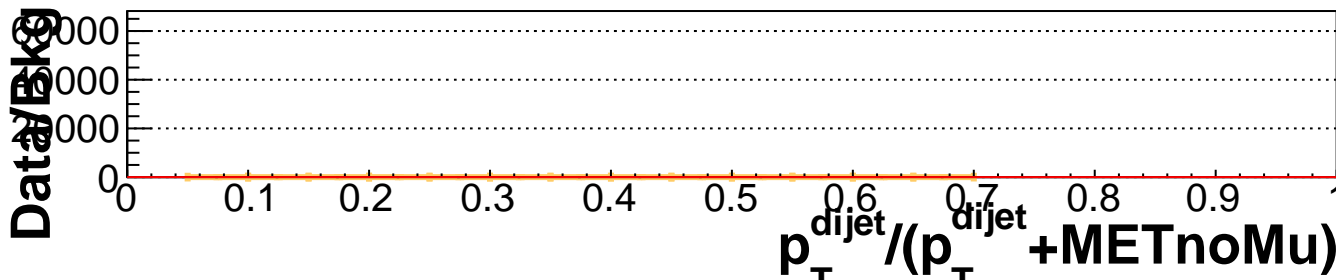
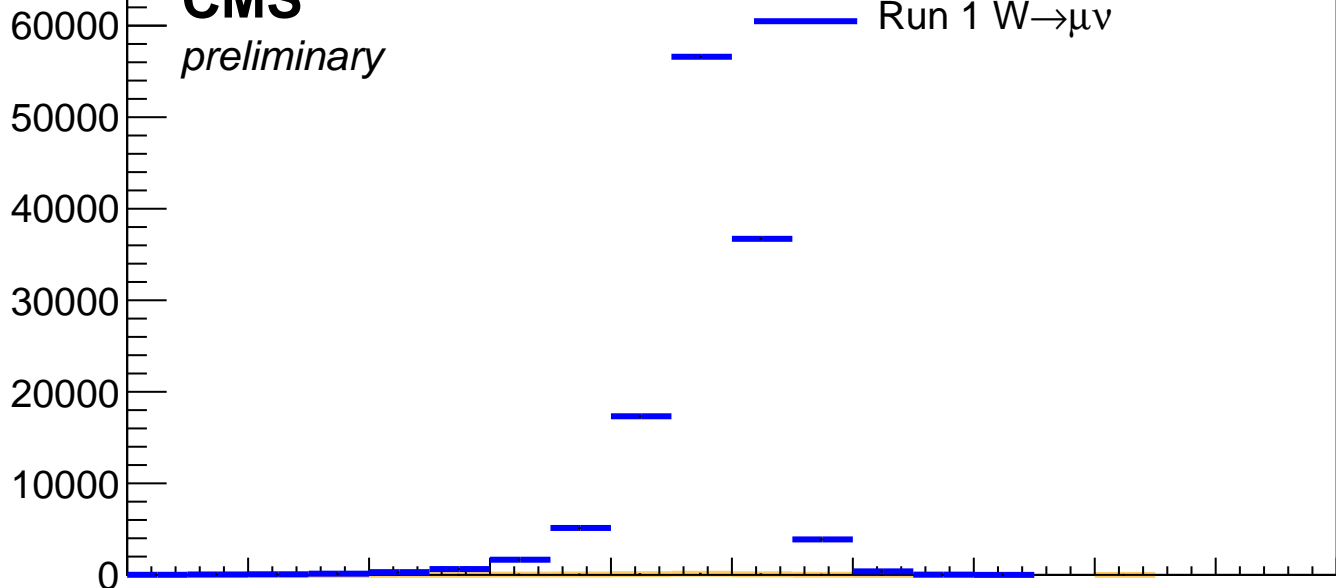
— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— W→μν
— Run 1 W→μν

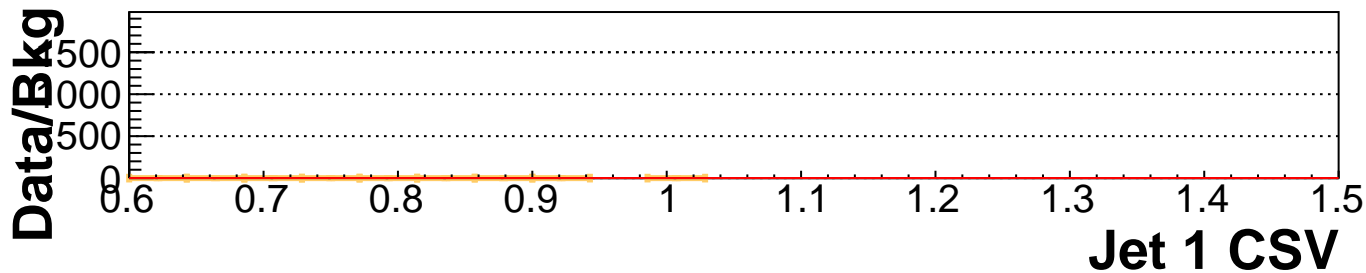
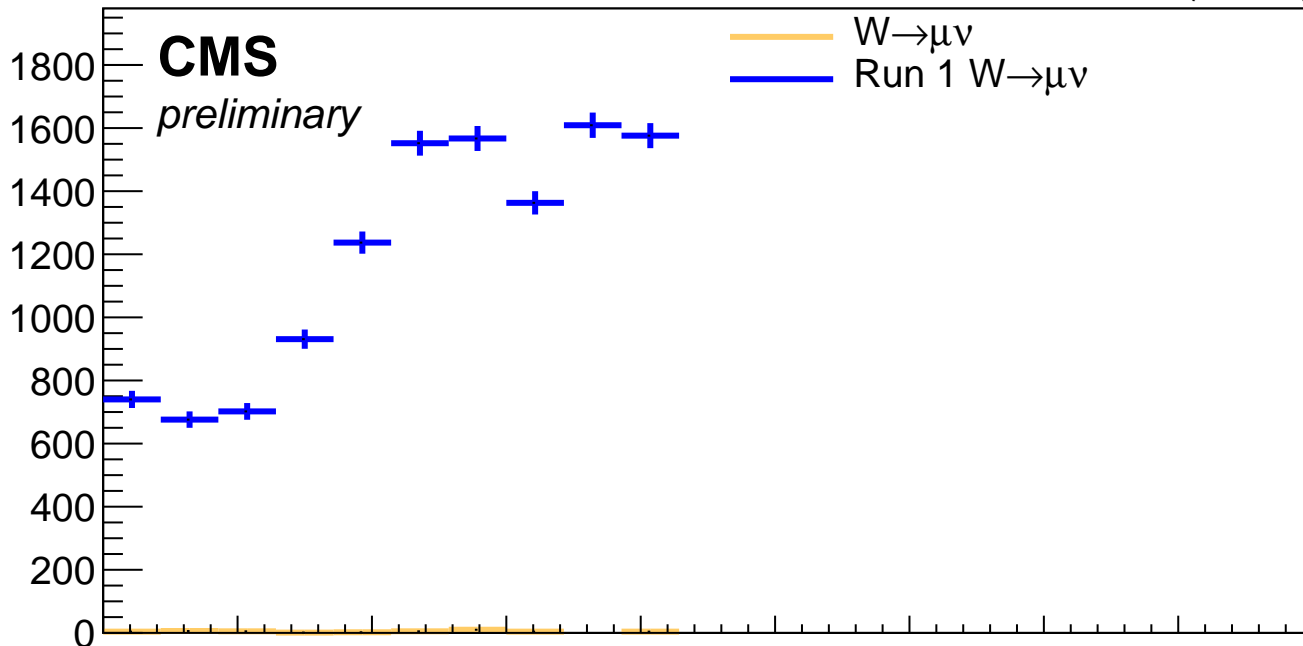


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



19.2 fb⁻¹ (8 TeV)

CMS

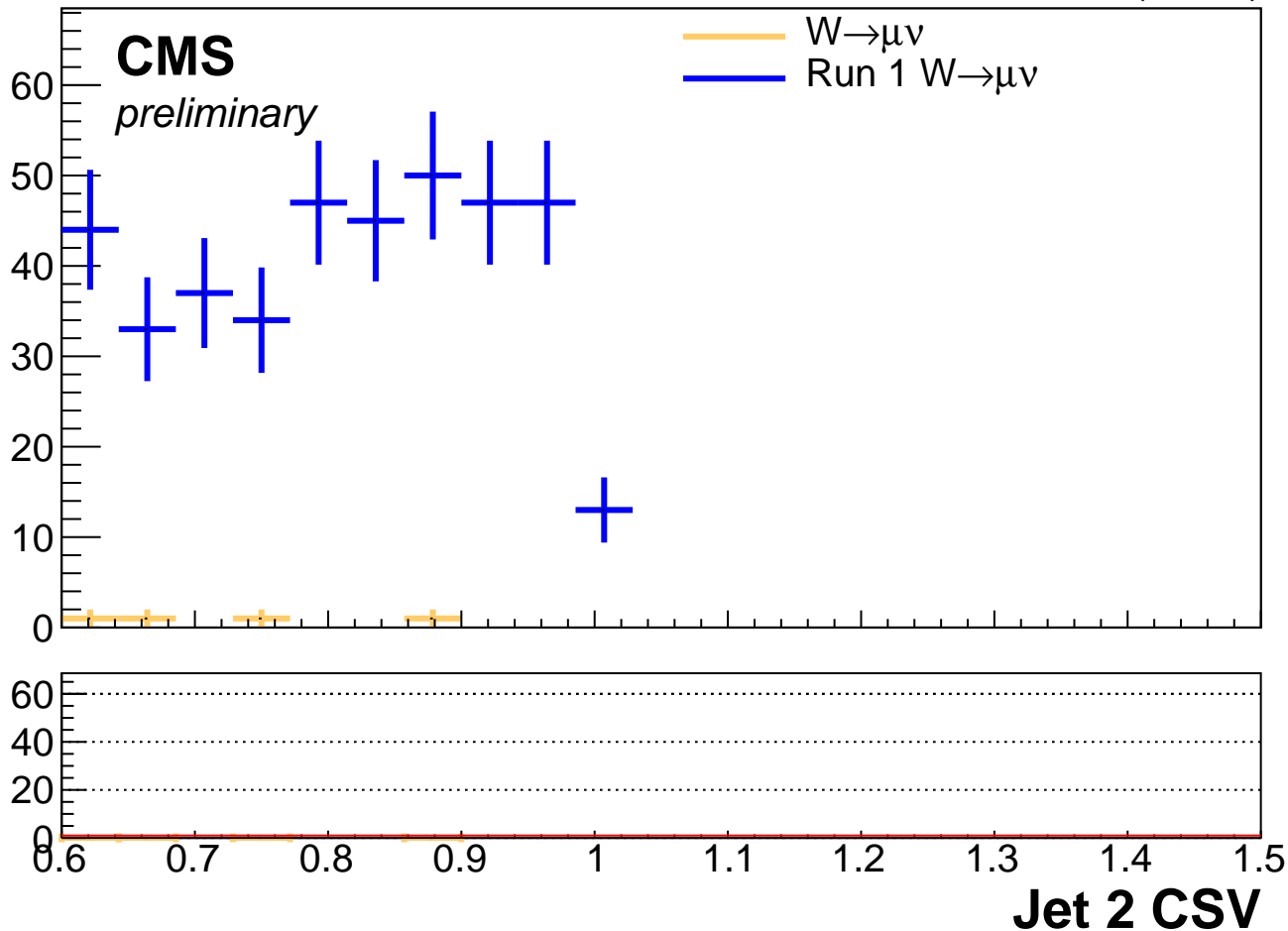
preliminary

W→μν

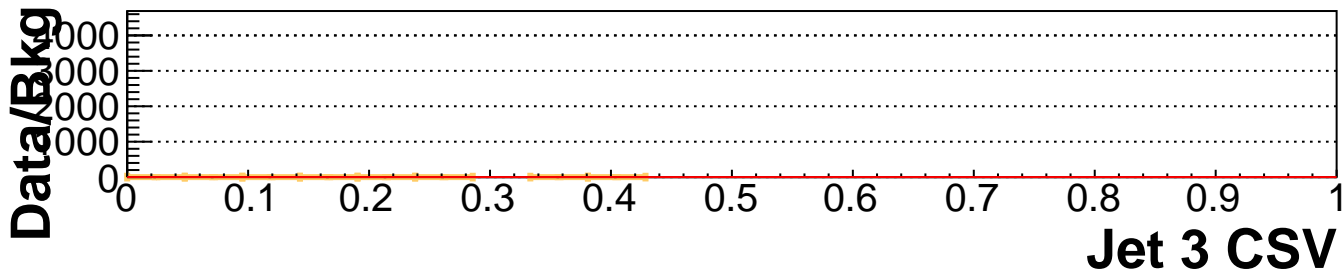
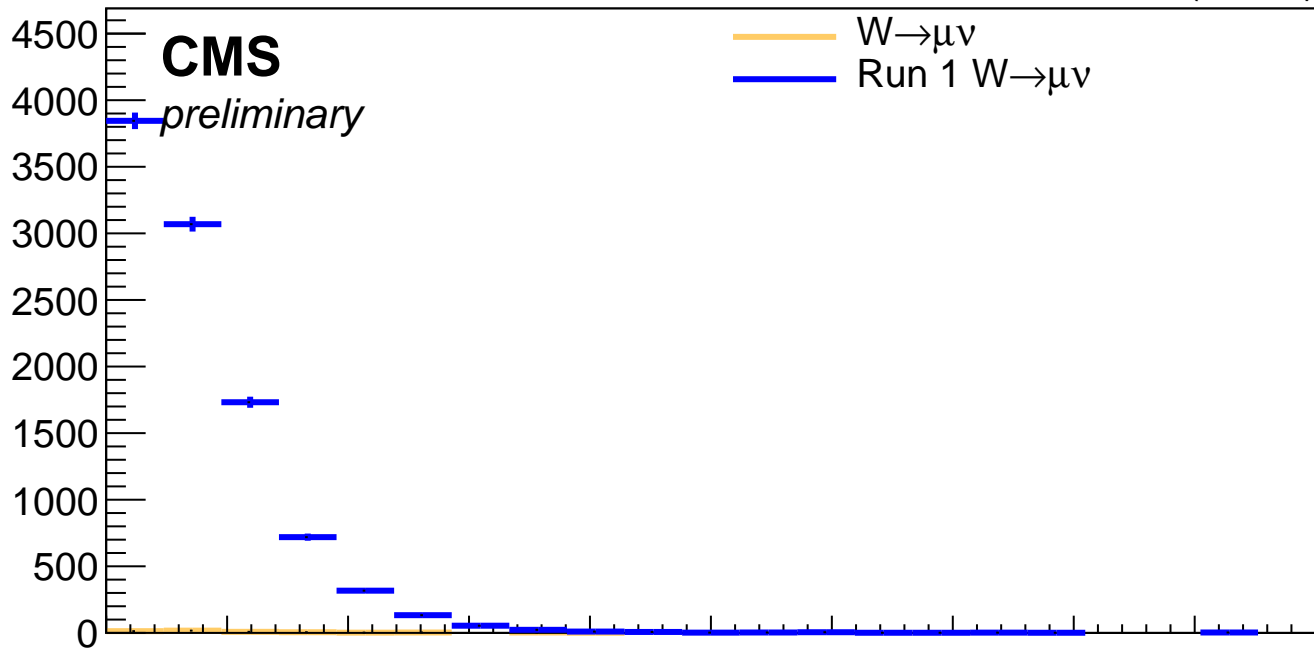
Run 1 W→μν

Data/Bkg

Jet 2 CSV



19.2 fb⁻¹ (8 TeV)



19.2 fb⁻¹ (8 TeV)

CMS

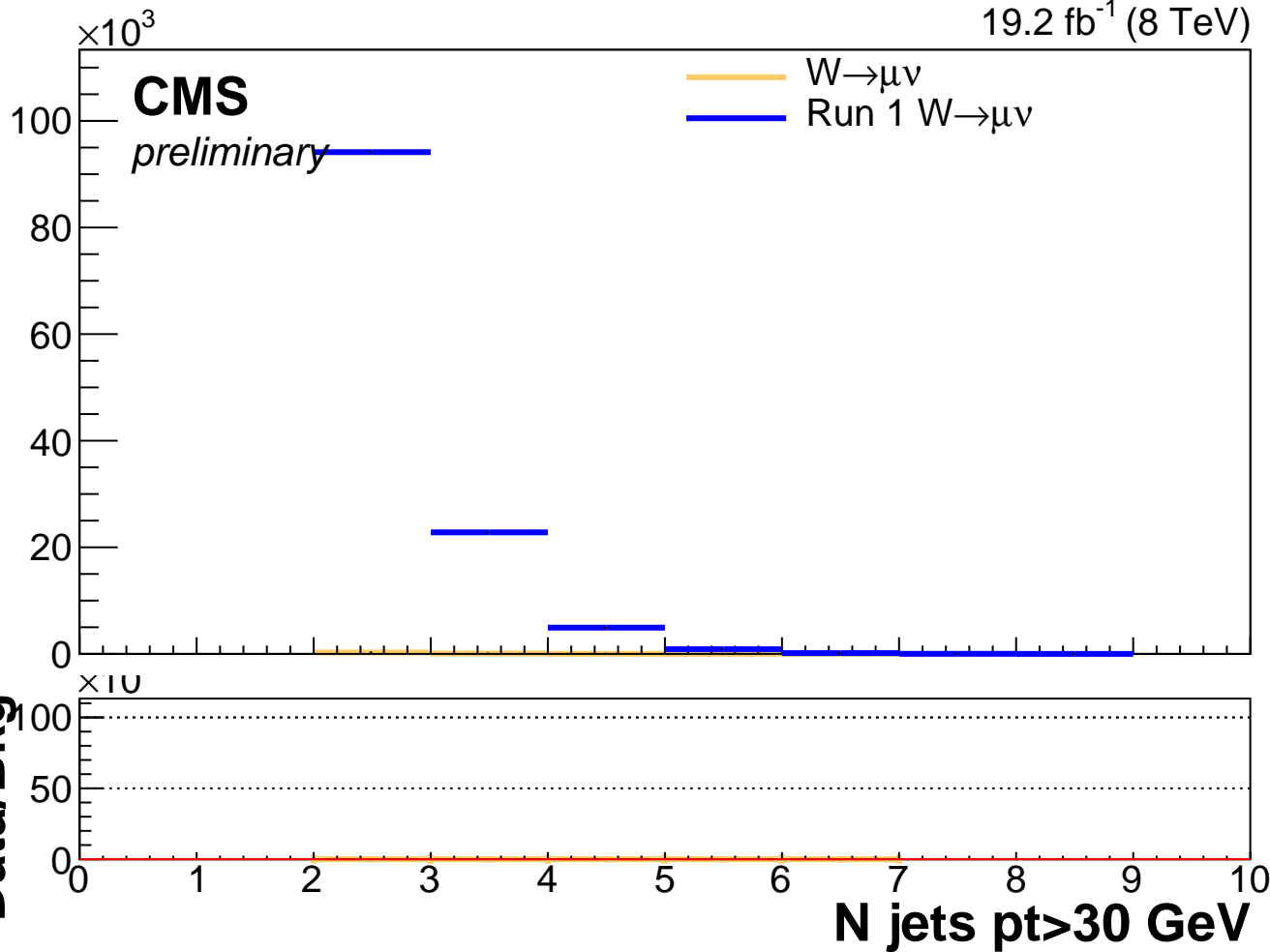
preliminary

W→μν

Run 1 W→μν

Data/Bkg

N jets pt>30 GeV



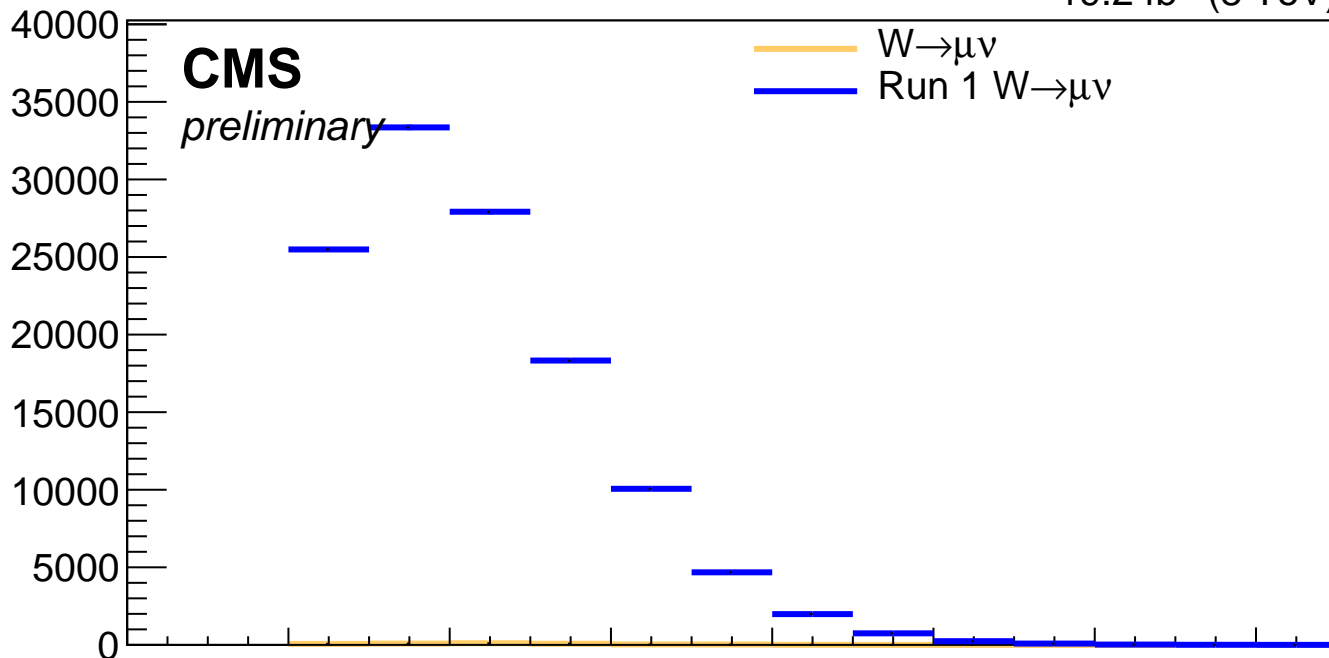
19.2 fb⁻¹ (8 TeV)

CMS

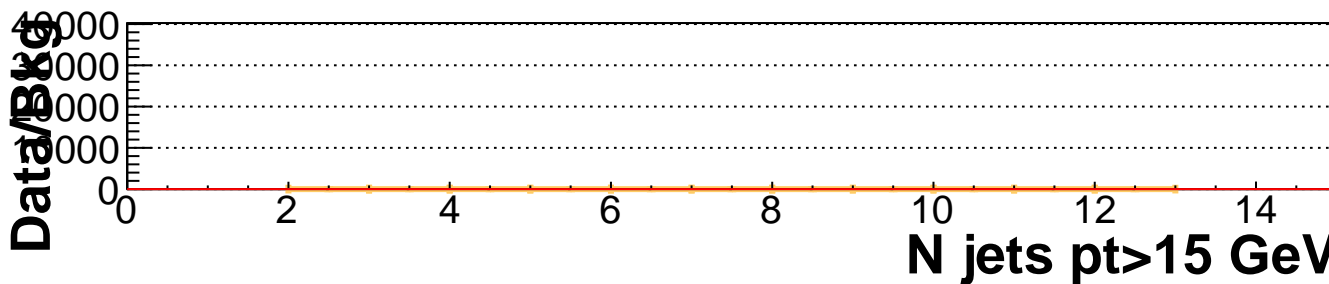
preliminary

W→μν

Run 1 W→μν



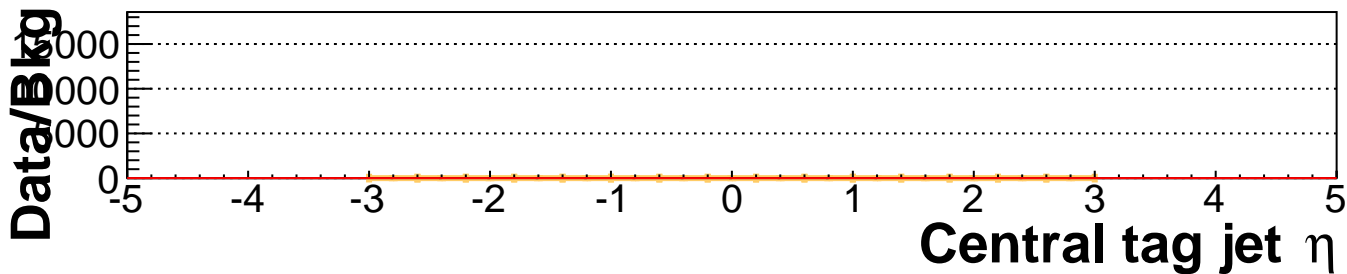
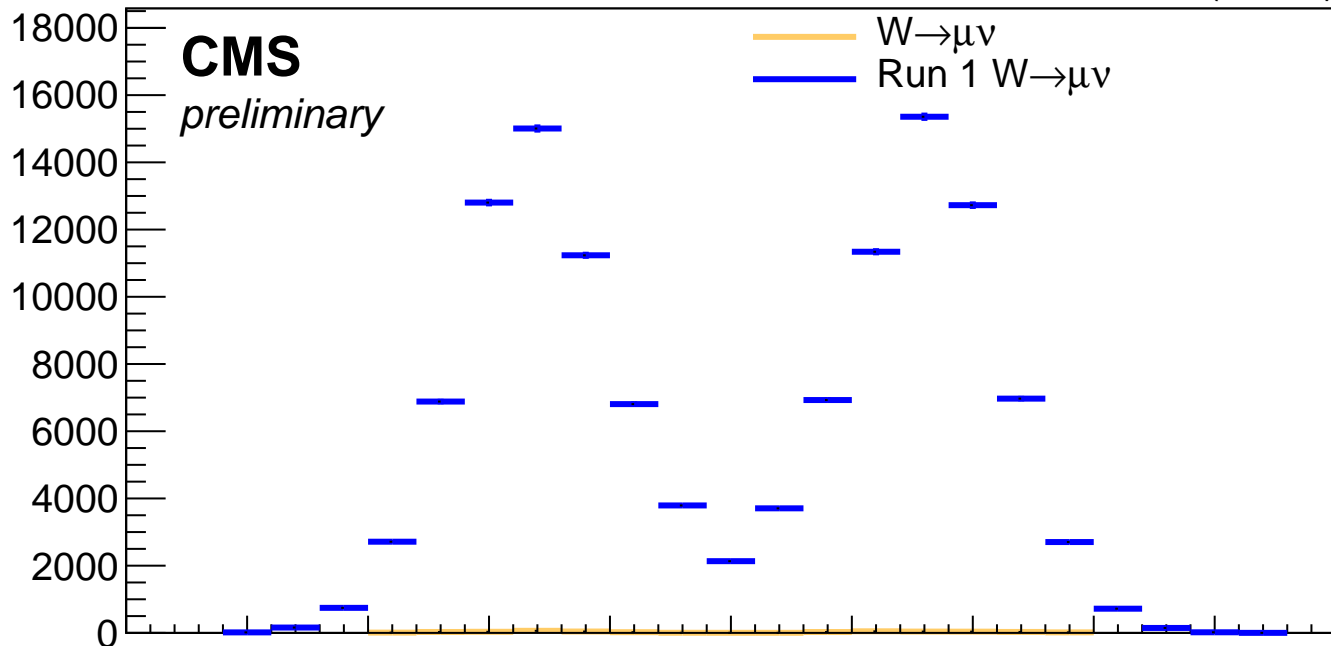
Data/Bkg



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$

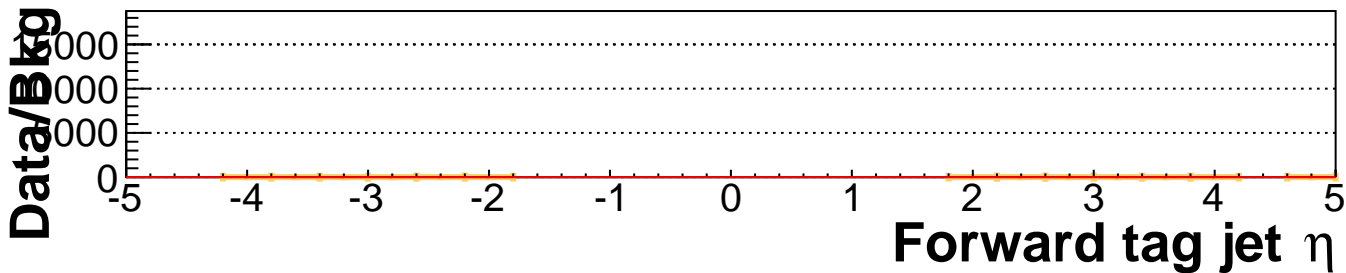
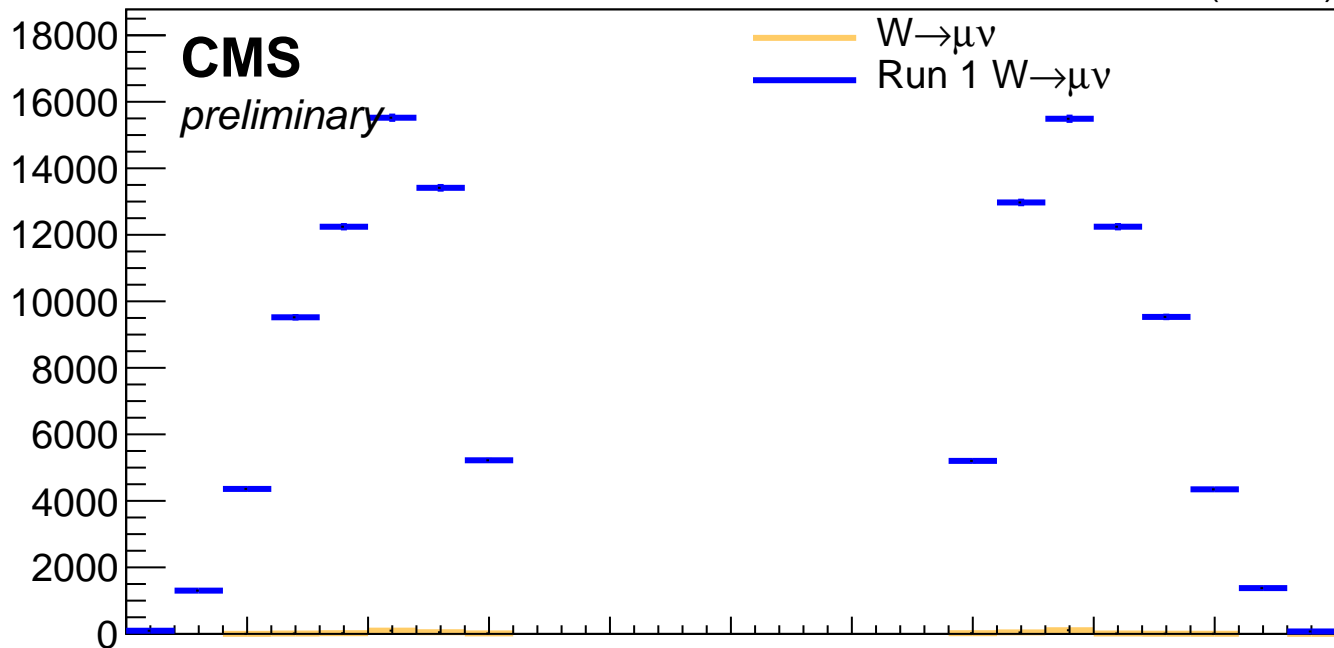


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$

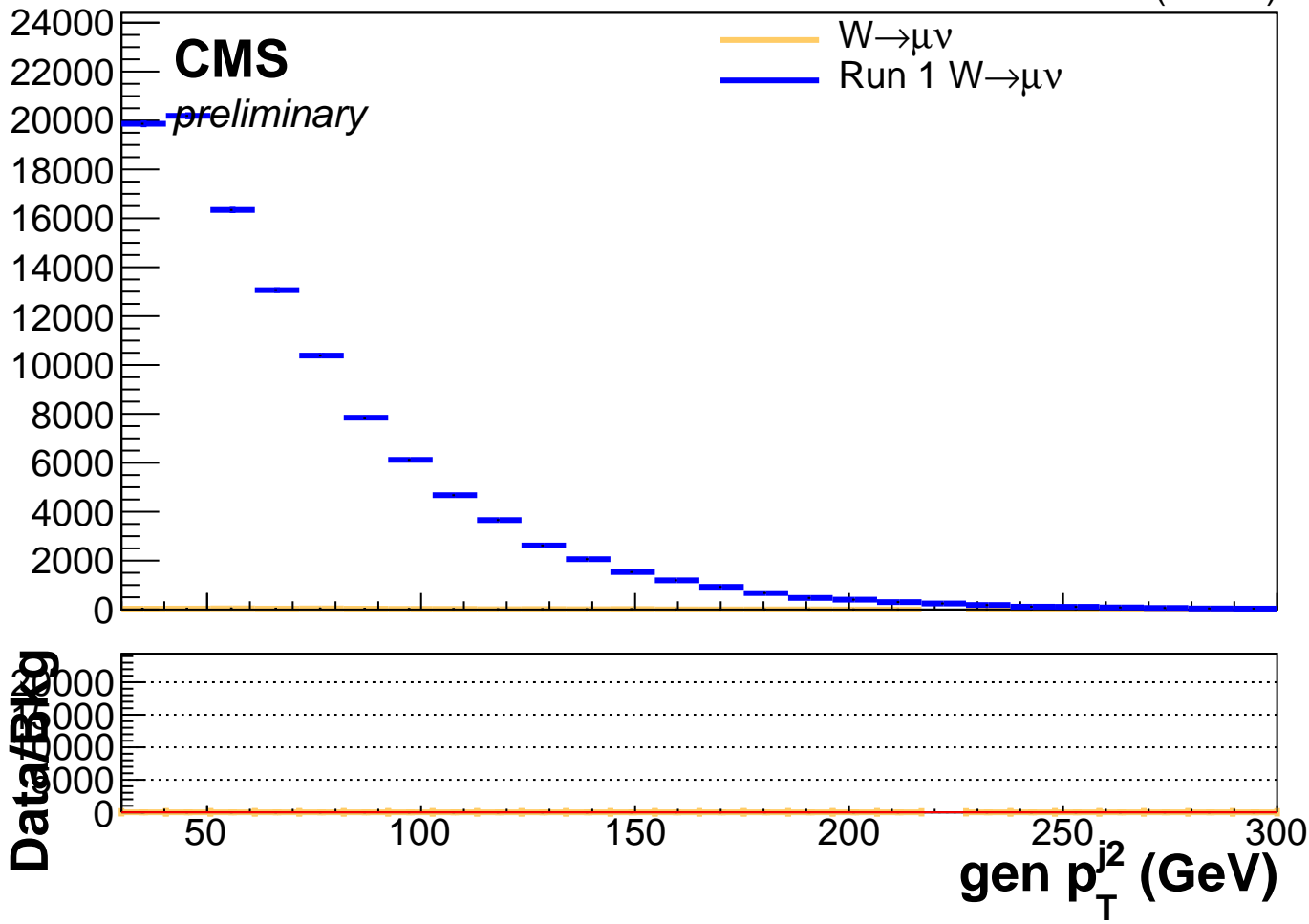


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

— $W \rightarrow \mu \nu$
— Run 1 $W \rightarrow \mu \nu$

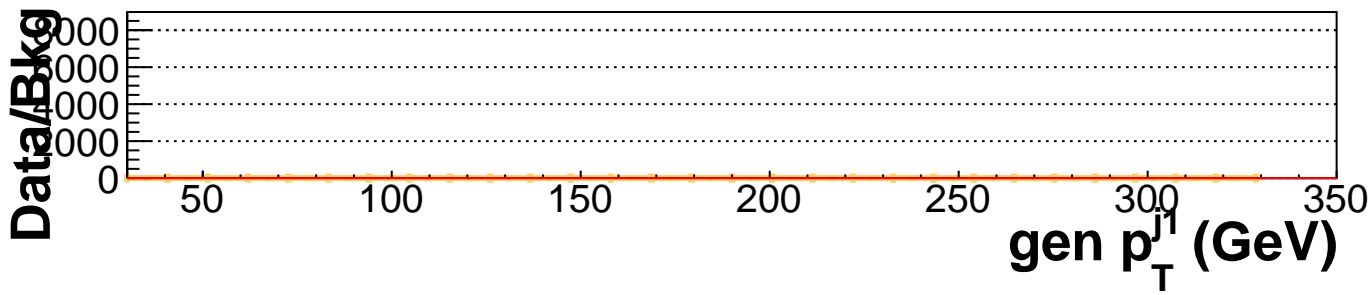
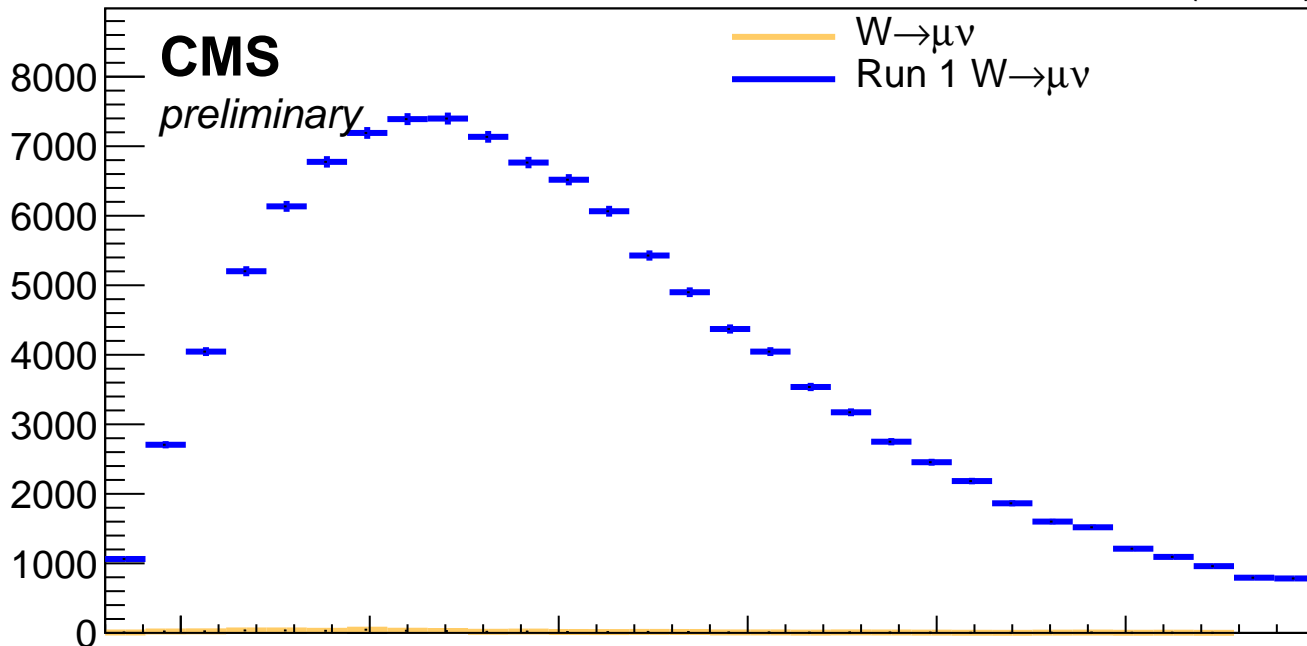


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

W→μν
Run 1 W→μν



19.2 fb⁻¹ (8 TeV)

CMS

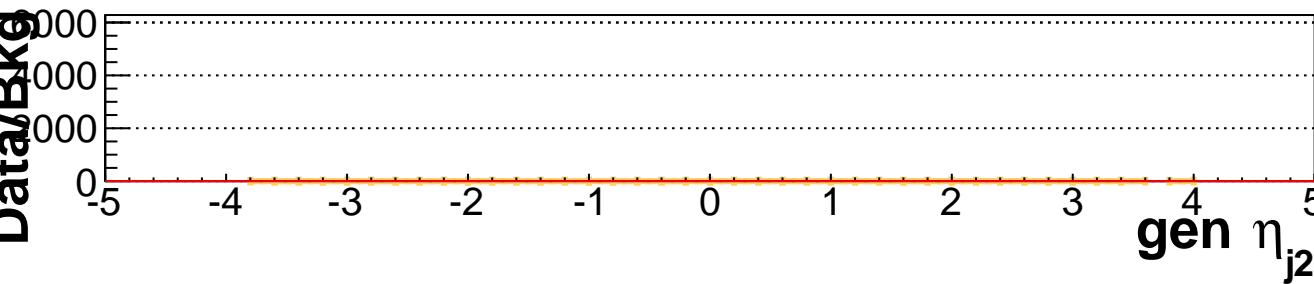
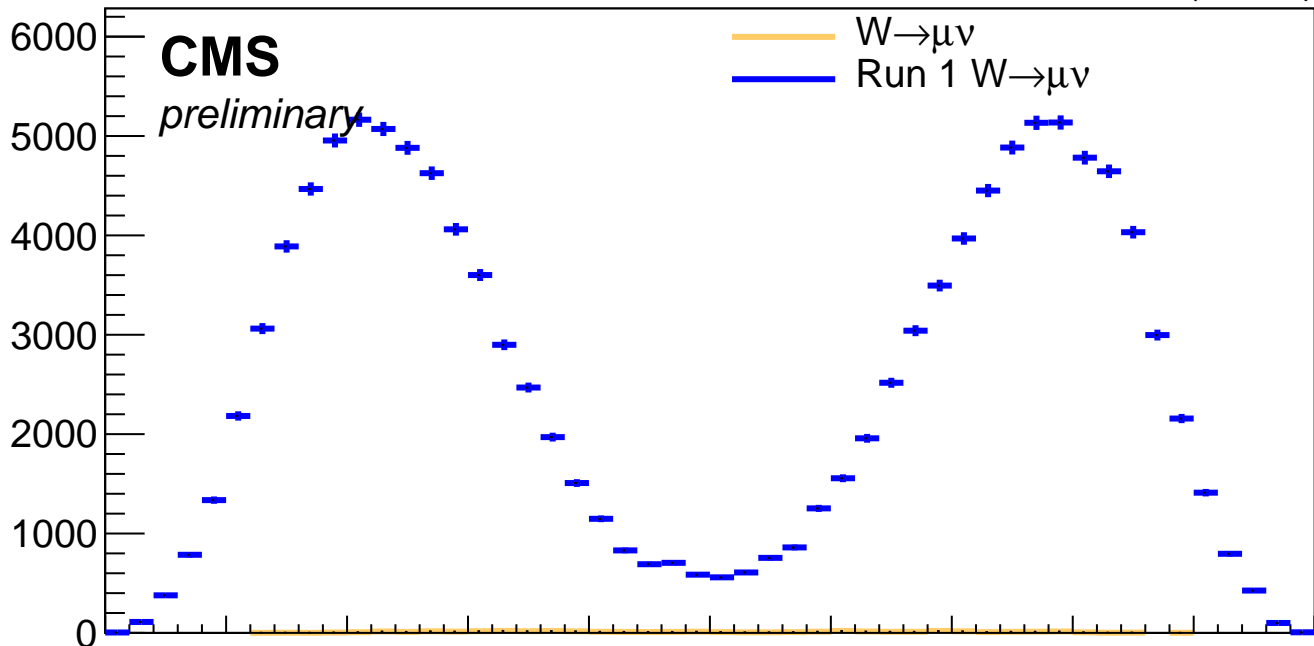
preliminary

W→μν

Run 1 W→μν

Data/Bkg

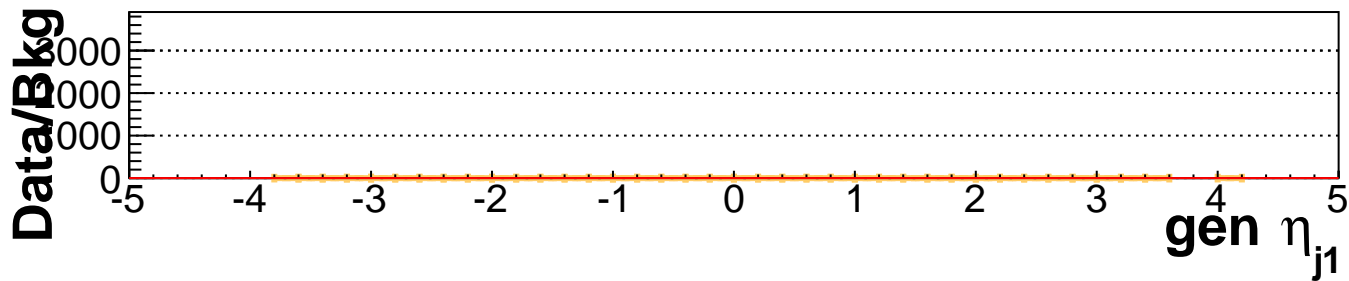
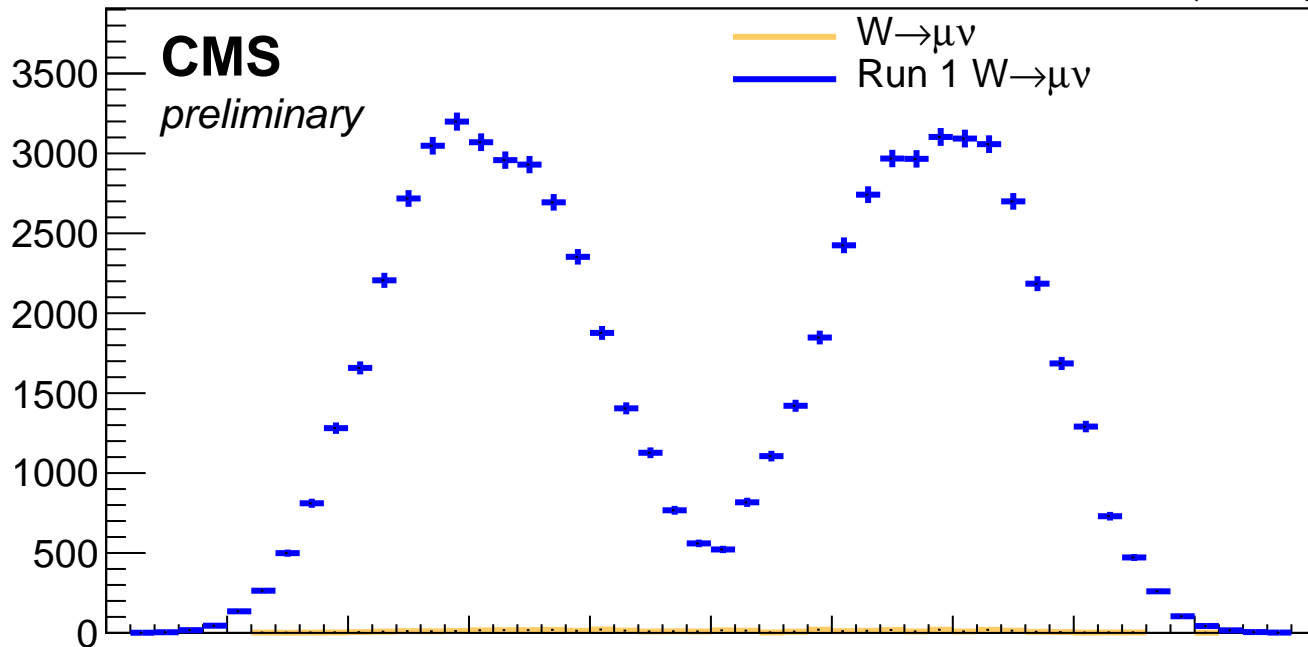
gen η_{j2}



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



19.2 fb⁻¹ (8 TeV)

CMS

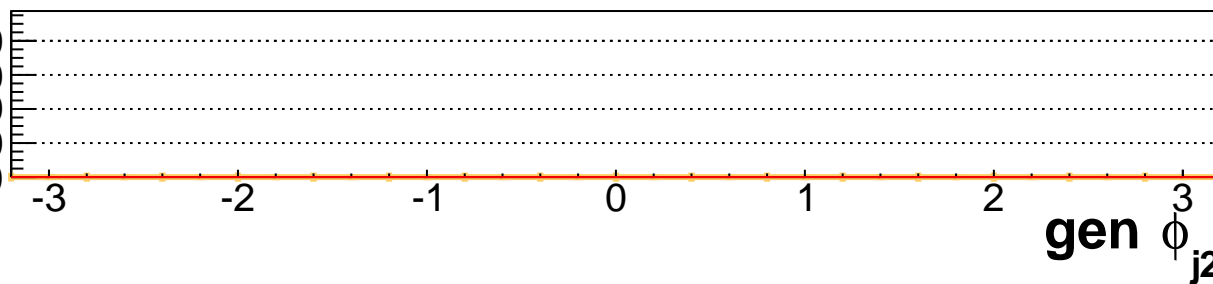
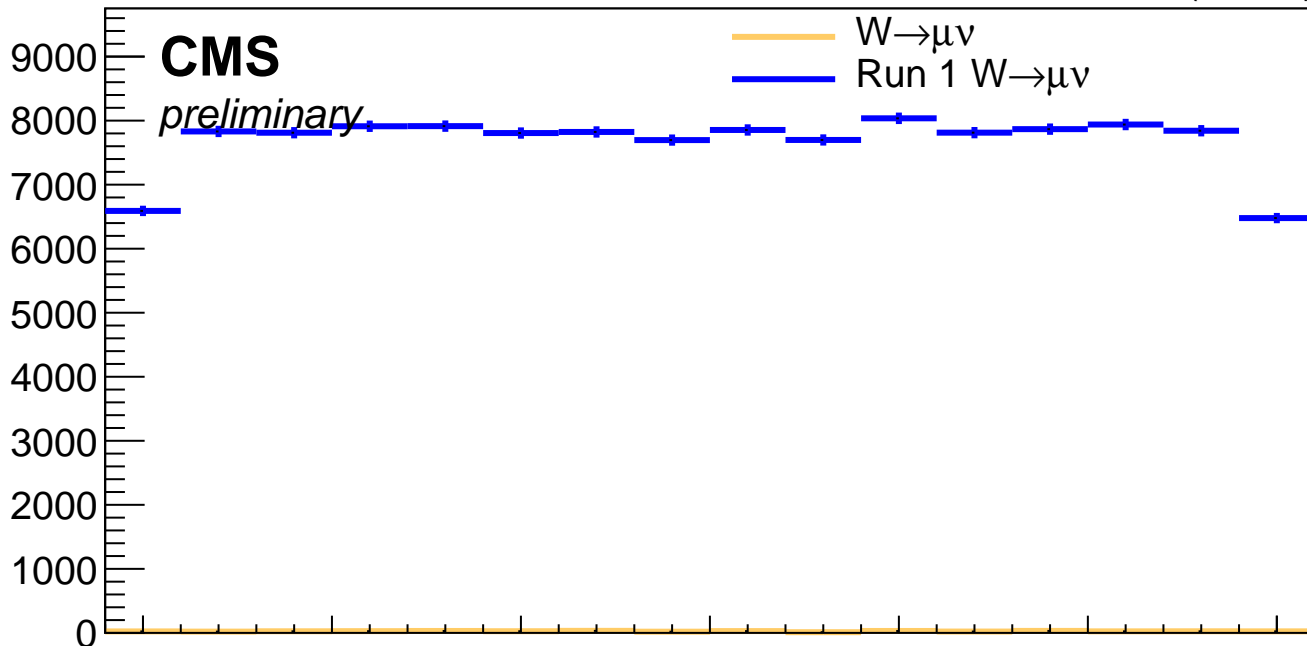
preliminary

W→μν

Run 1 W→μν

Data/Bkg

gen ϕ_{j2}



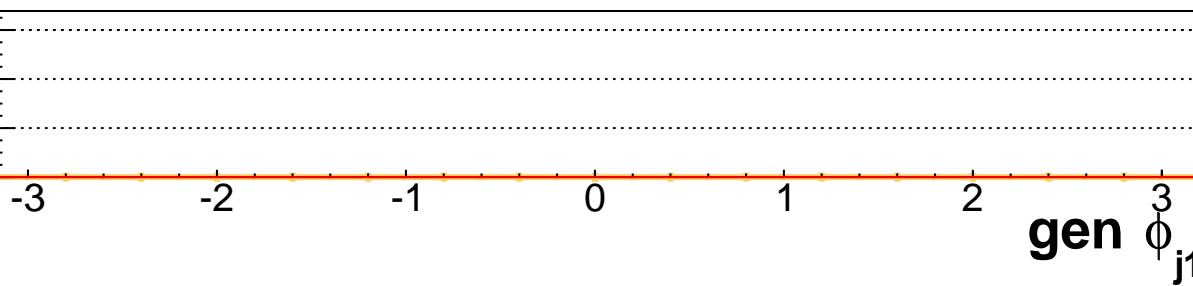
19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— W→μν
— Run 1 W→μν

60000
50000
40000
30000
20000
10000
0

Data/Bkg

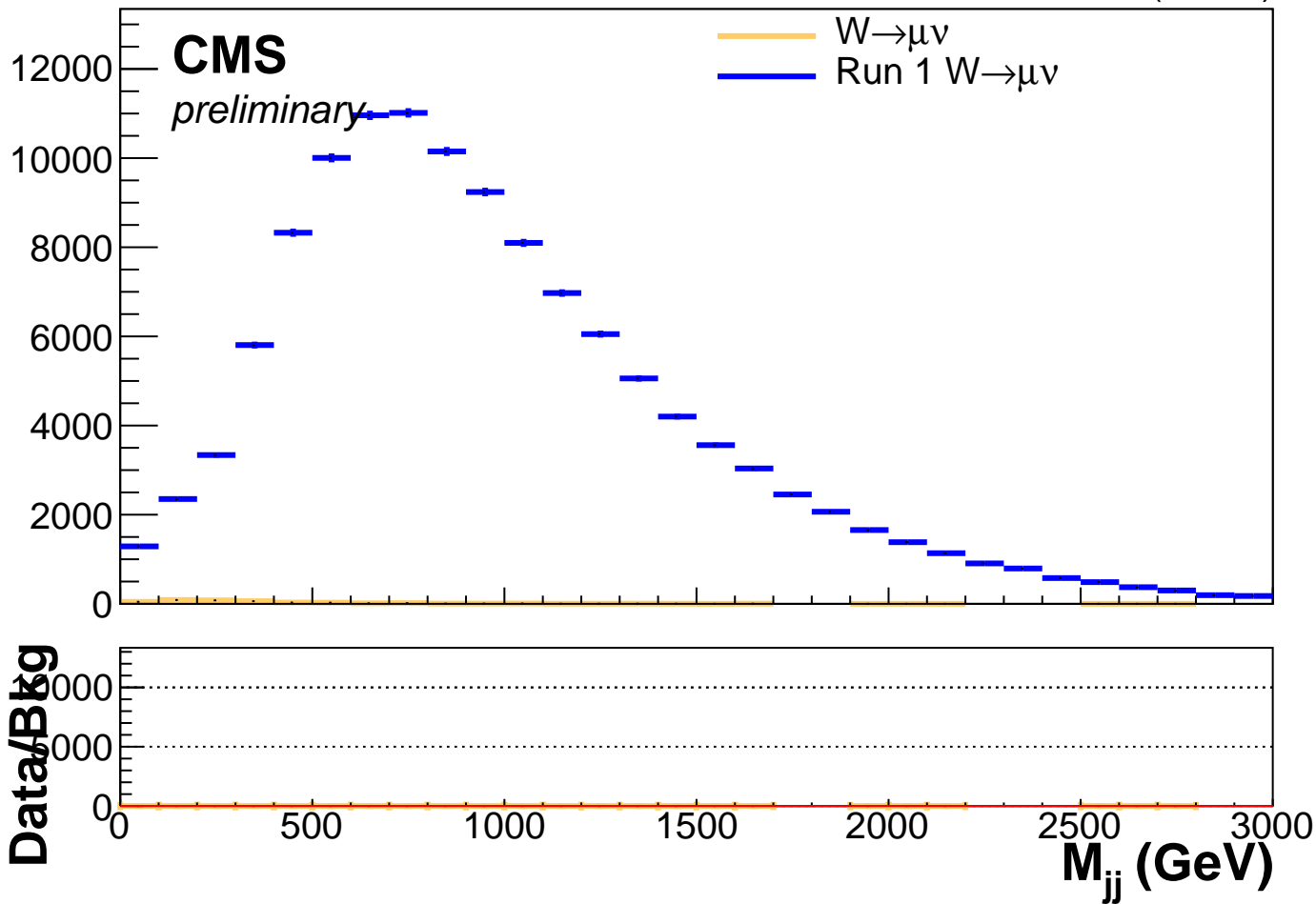


19.2 fb⁻¹ (8 TeV)

CMS

preliminary

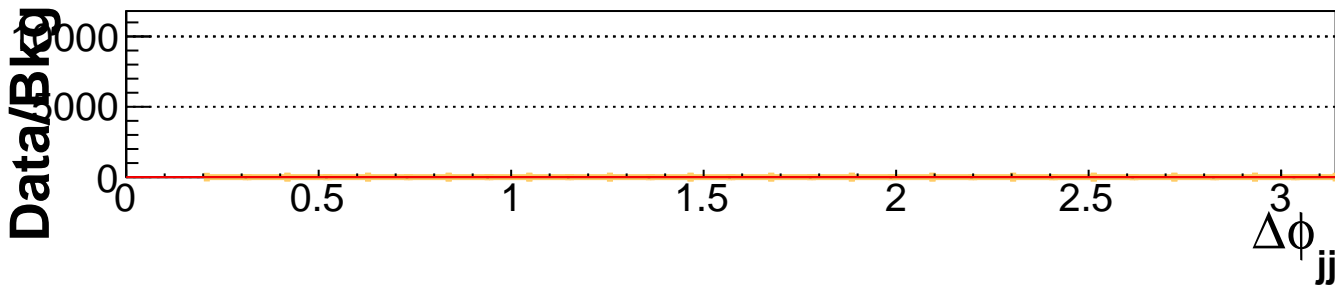
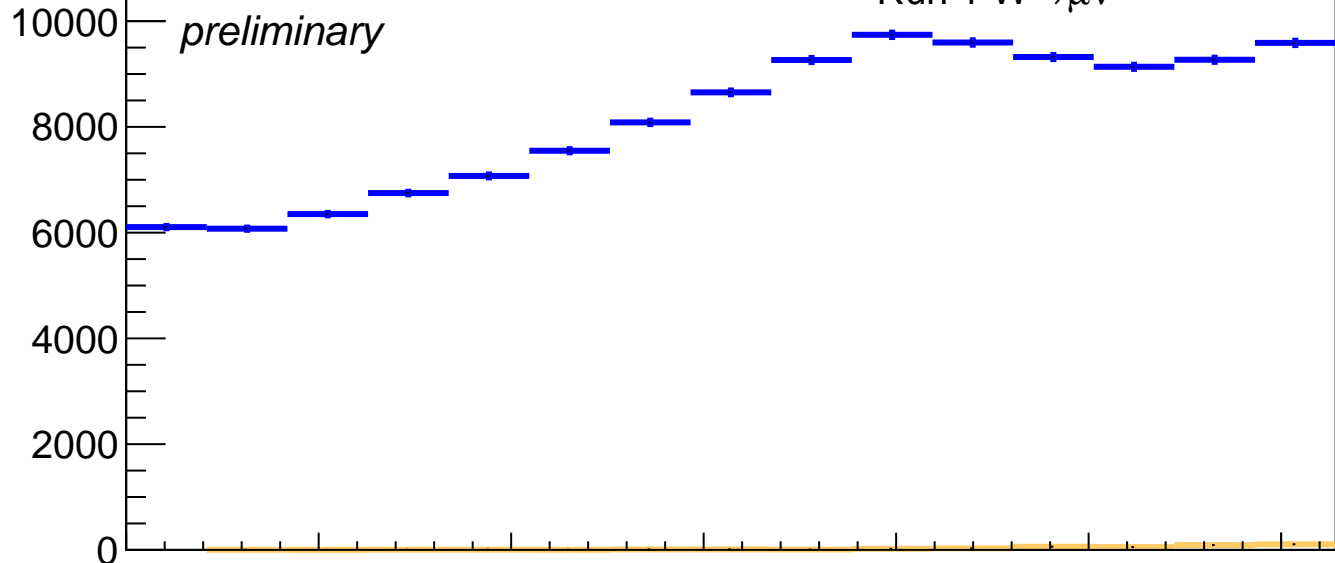
W→μν
Run 1 W→μν



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$



19.2 fb⁻¹ (8 TeV)

CMS
preliminary

— $W \rightarrow \mu\nu$
— Run 1 $W \rightarrow \mu\nu$

