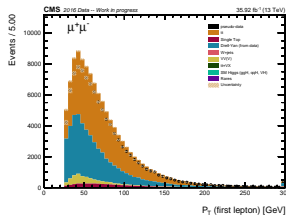
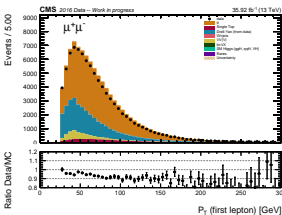
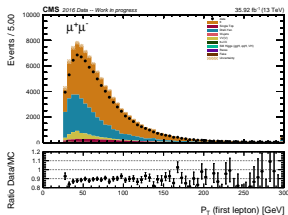


## DY MC

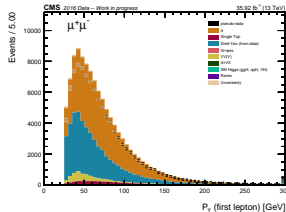
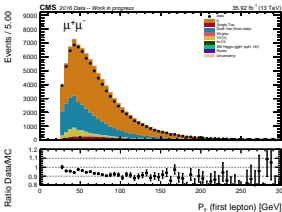
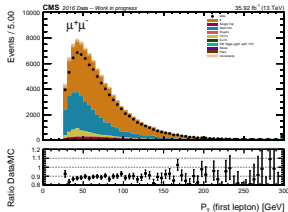
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)

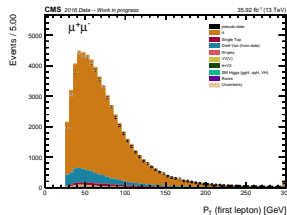
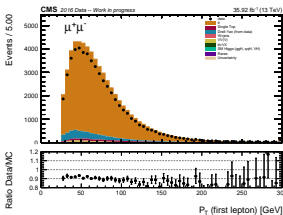
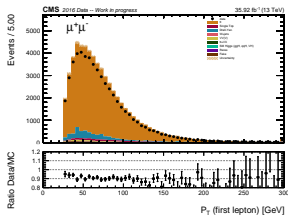


**DY MC**

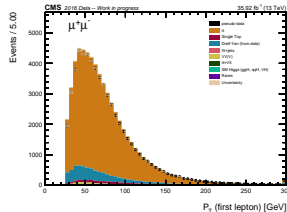
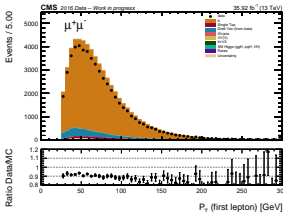
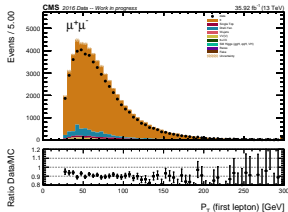
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)

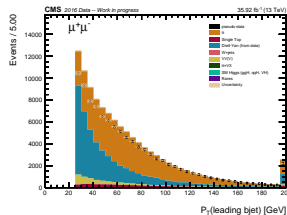
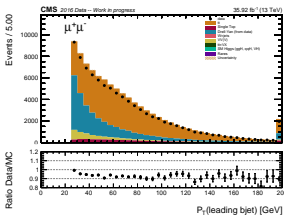
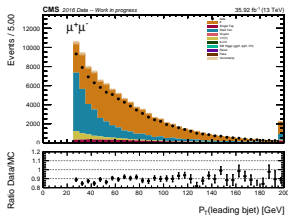


## DY MC

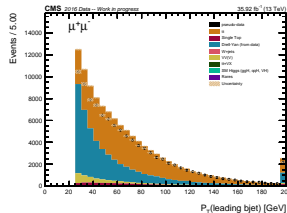
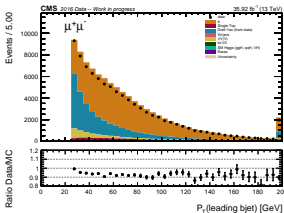
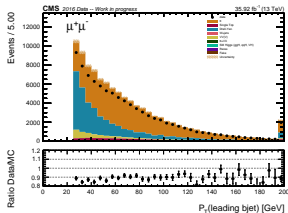
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)

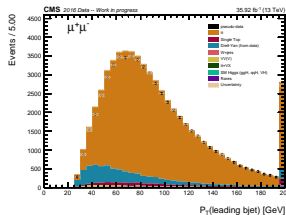
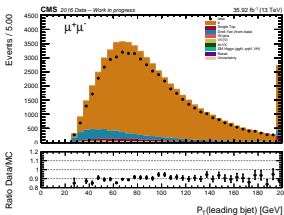
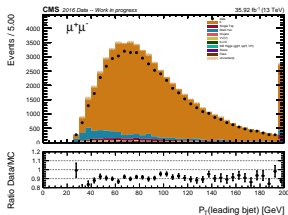


**DY MC**

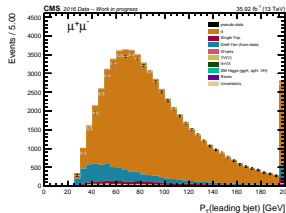
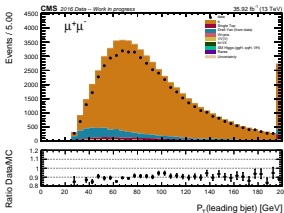
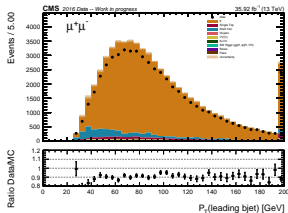
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



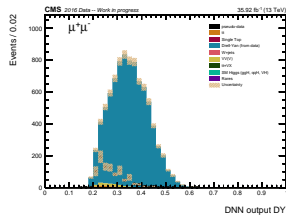
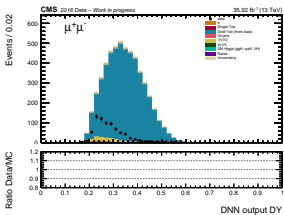
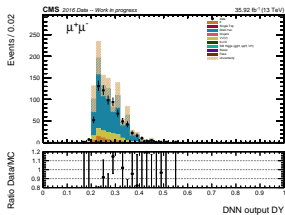
# Resolved 1 btag : DNN output node DY

DY MC

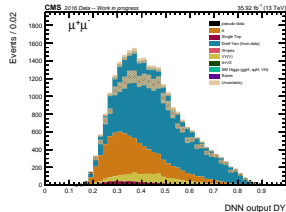
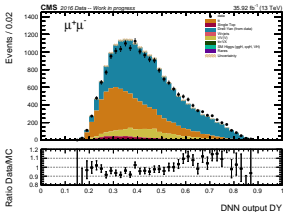
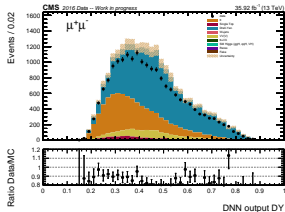
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)

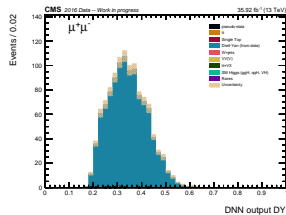
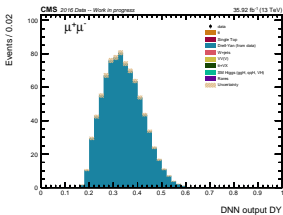
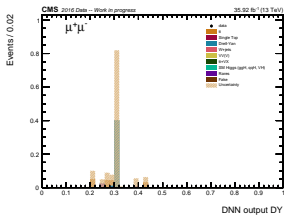


DY MC

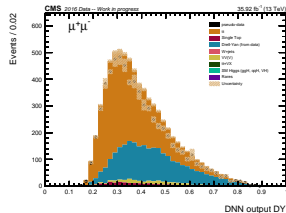
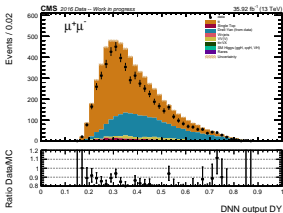
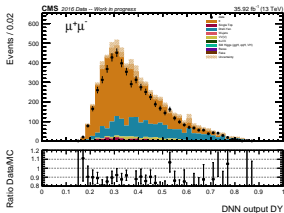
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)



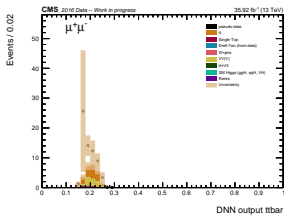
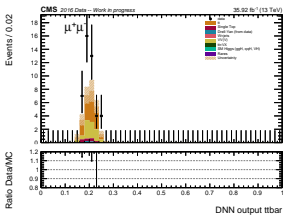
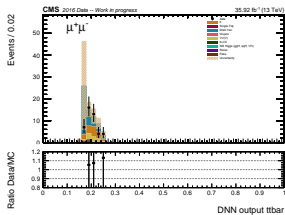
Resolved 1 btag : DNN output node ttbar

**DY MC**

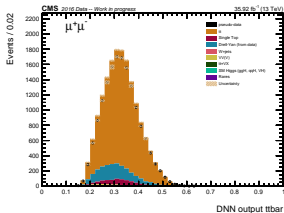
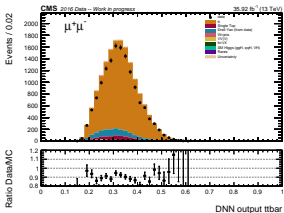
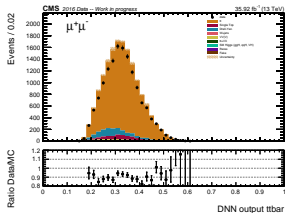
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



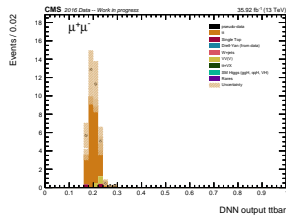
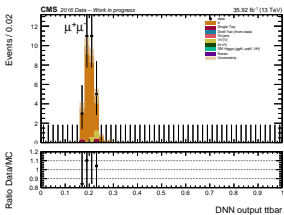
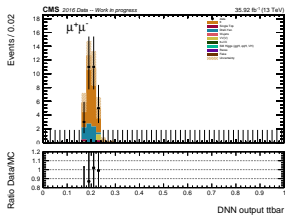
# Resolved 2 btag : DNN output node ttbar

DY MC

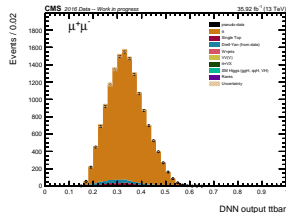
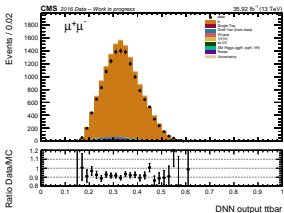
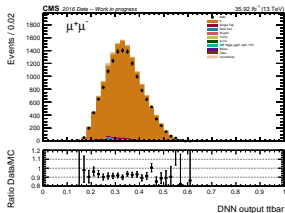
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)





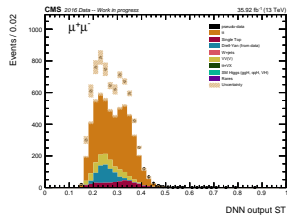
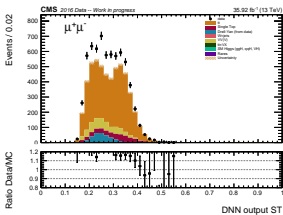
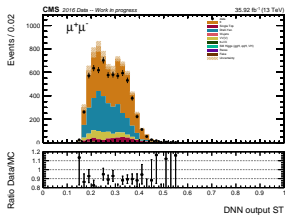
Resolved 1 btag : DNN output node ST

**DY MC**

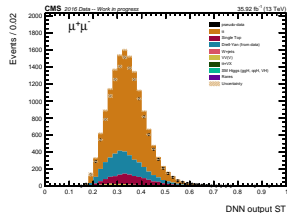
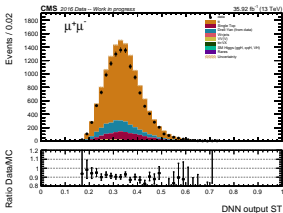
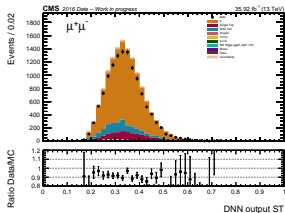
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



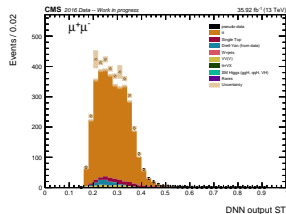
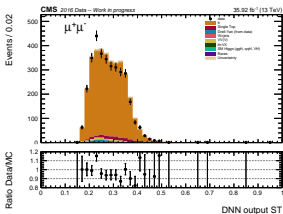
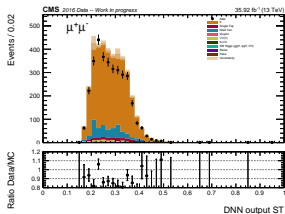
# Resolved 2 btag : DNN output node ST

DY MC

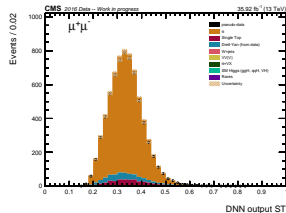
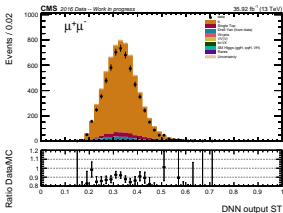
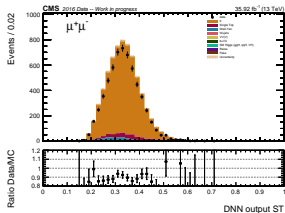
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)



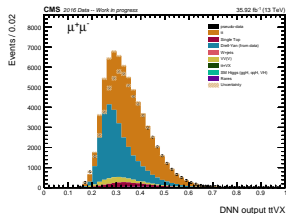
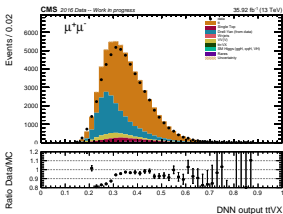
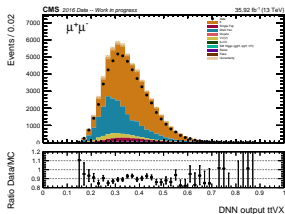
Resolved 1 btag : DNN output node ttVX

**DY MC**

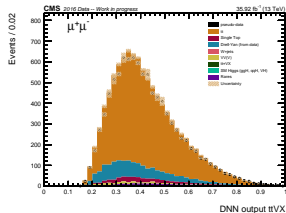
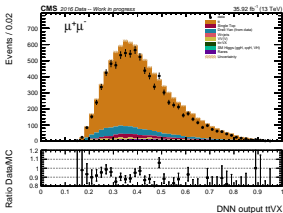
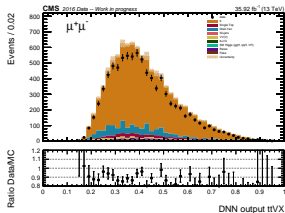
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



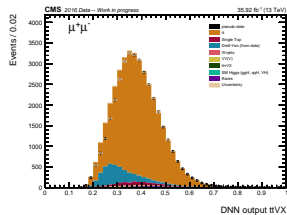
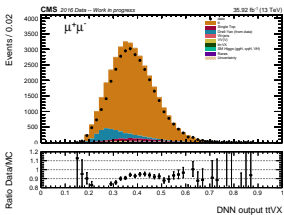
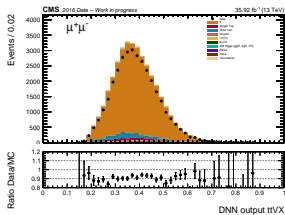
# Resolved 2 btag : DNN output node ttVX

DY MC

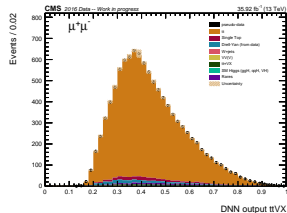
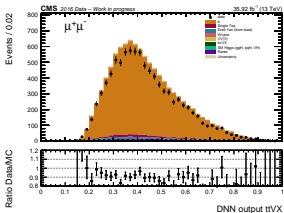
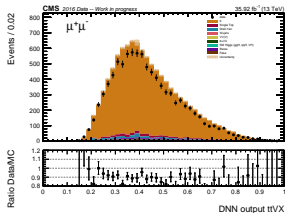
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)



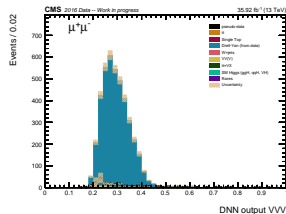
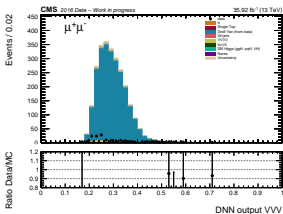
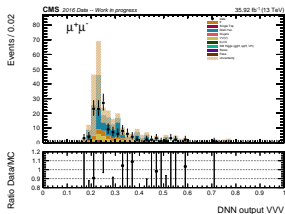
Resolved 1 btag : DNN output node VVV

**DY MC**

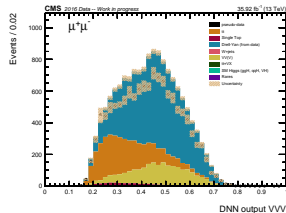
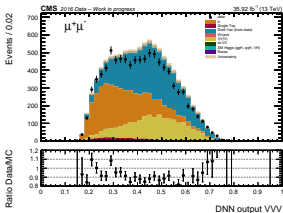
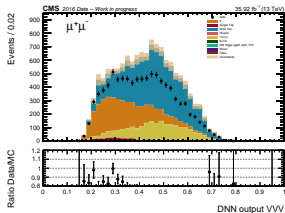
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



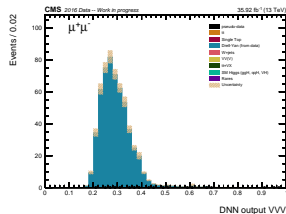
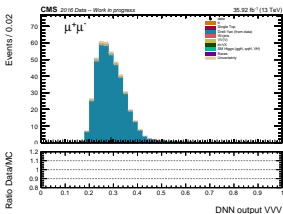
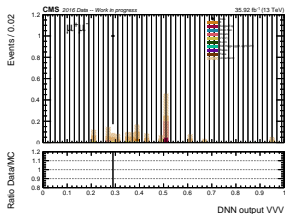
Resolved 2 btag : DNN output node VVV

**DY MC**

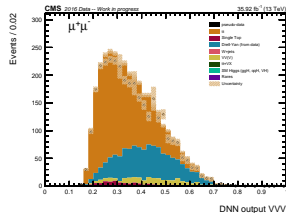
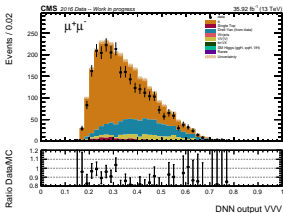
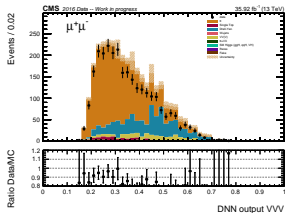
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



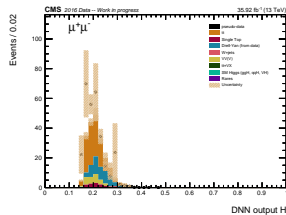
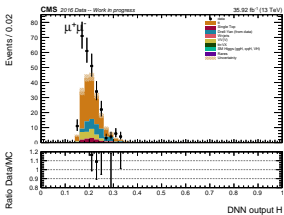
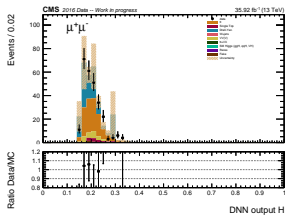
Resolved 1 btag : DNN output node H

**DY MC**

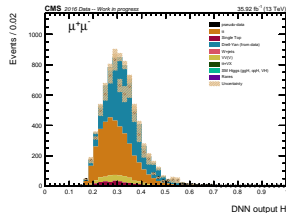
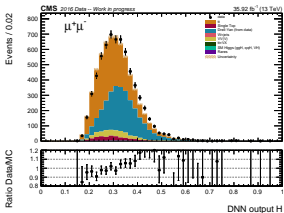
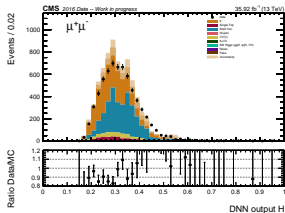
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



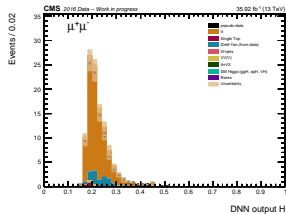
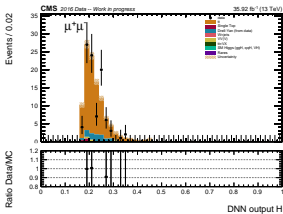
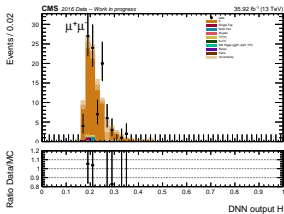
# Resolved 2 btag : DNN output node H

DY MC

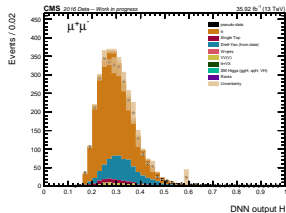
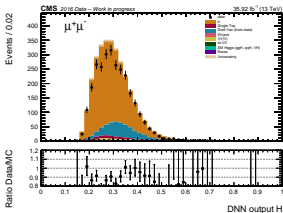
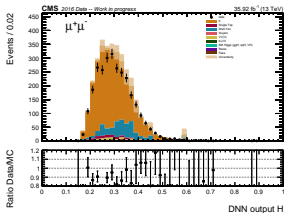
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)





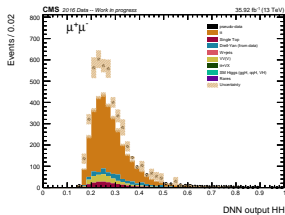
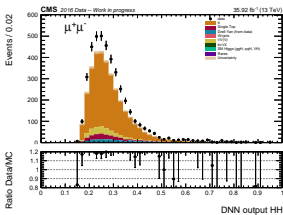
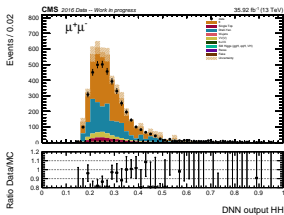
Resolved 1 btag : DNN output node HH

**DY MC**

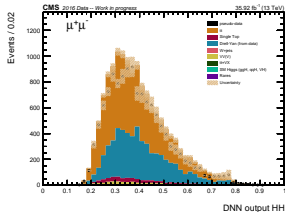
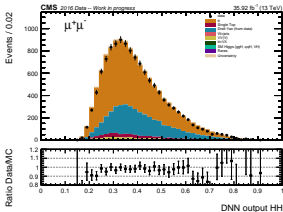
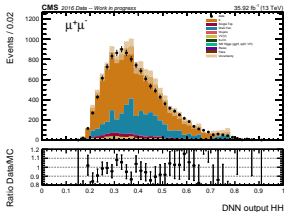
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



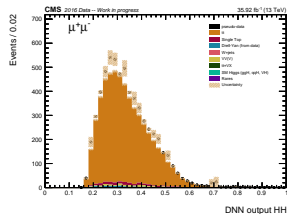
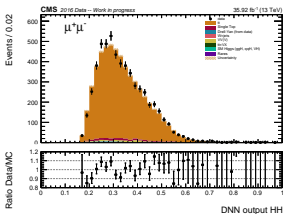
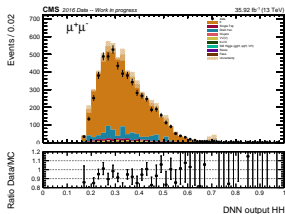
Resolved 2 btag : DNN output node HH

**DY MC**

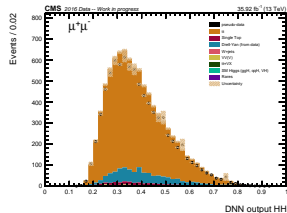
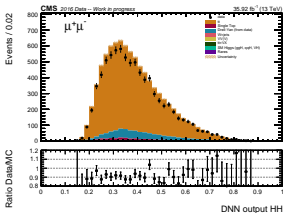
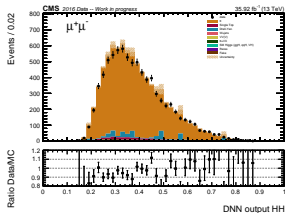
## Data-driven DY

## Pseudo-data DY

### DNN 01 (with btag score)



### DNN 02 (without btag score)



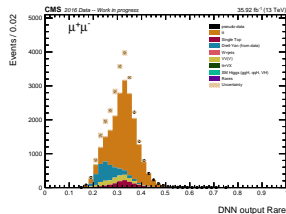
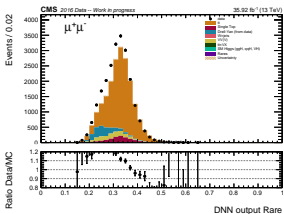
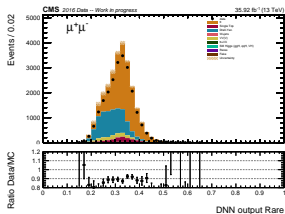
# Resolved 1 btag : DNN output node Rare

DY MC

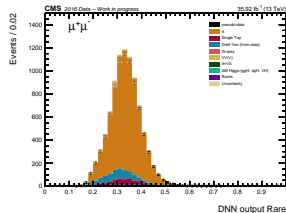
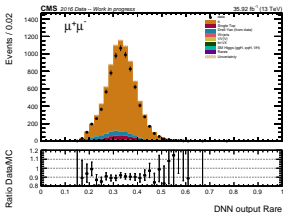
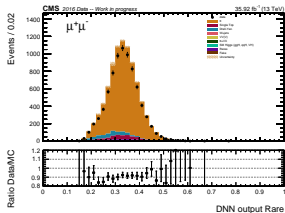
Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)



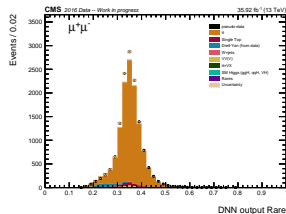
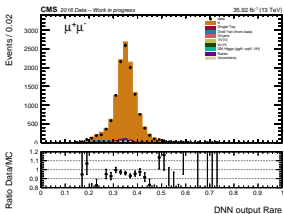
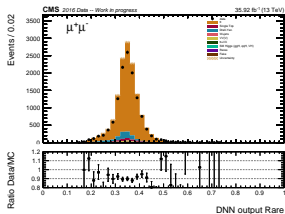
# Resolved 2 btag : DNN output node Rare

DY MC

Data-driven DY

Pseudo-data DY

DNN 01 (with btag score)



DNN 02 (without btag score)

