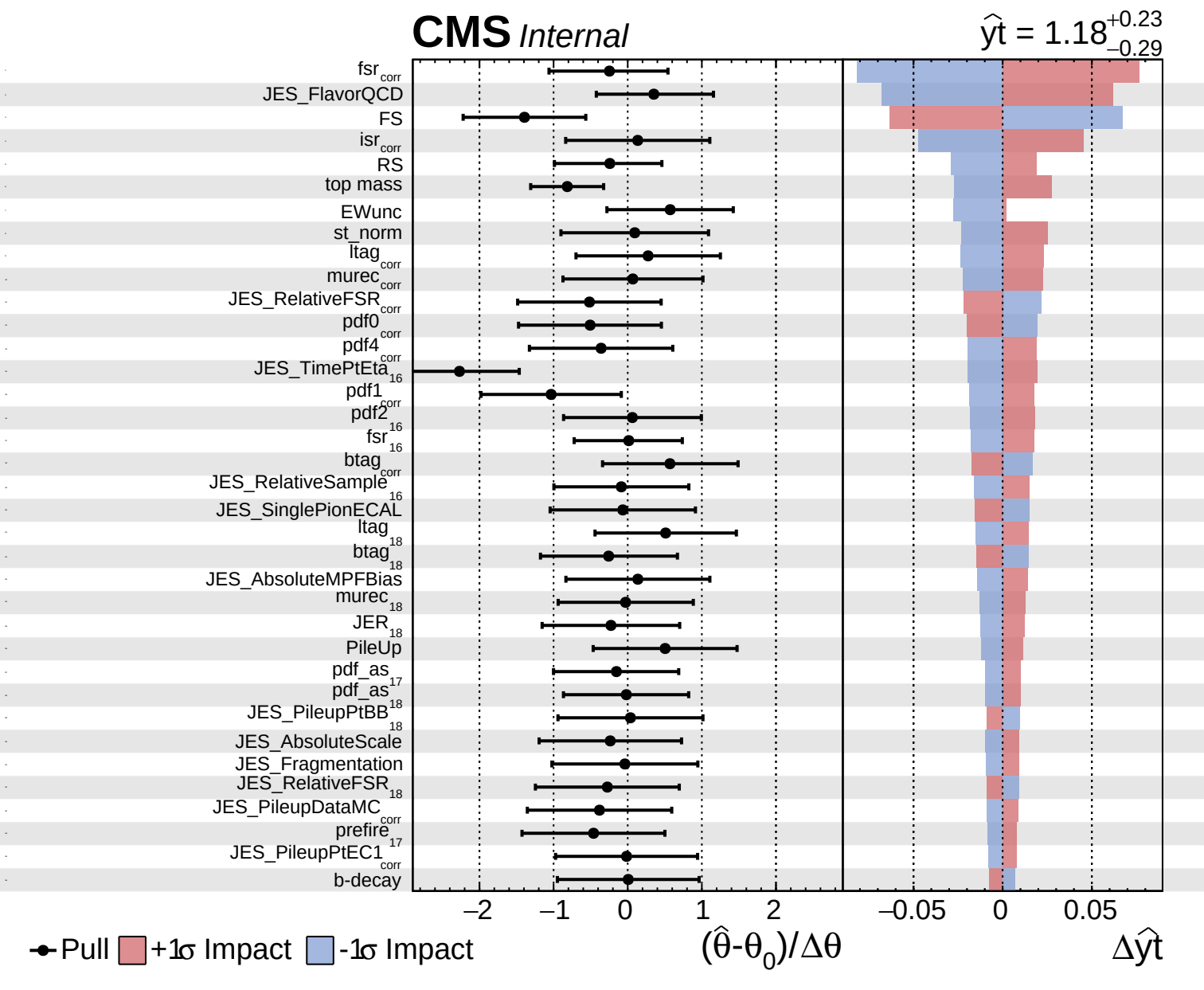
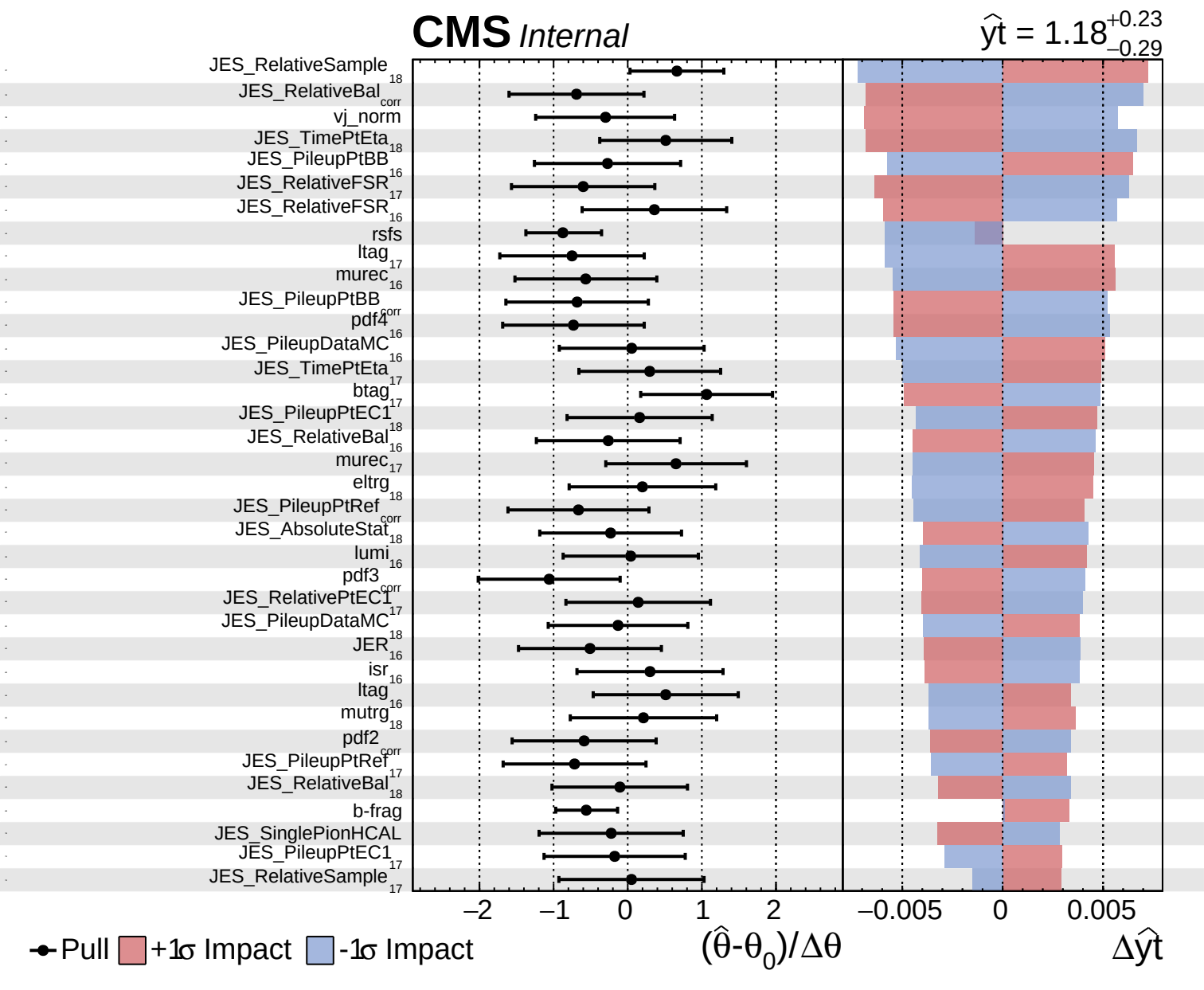
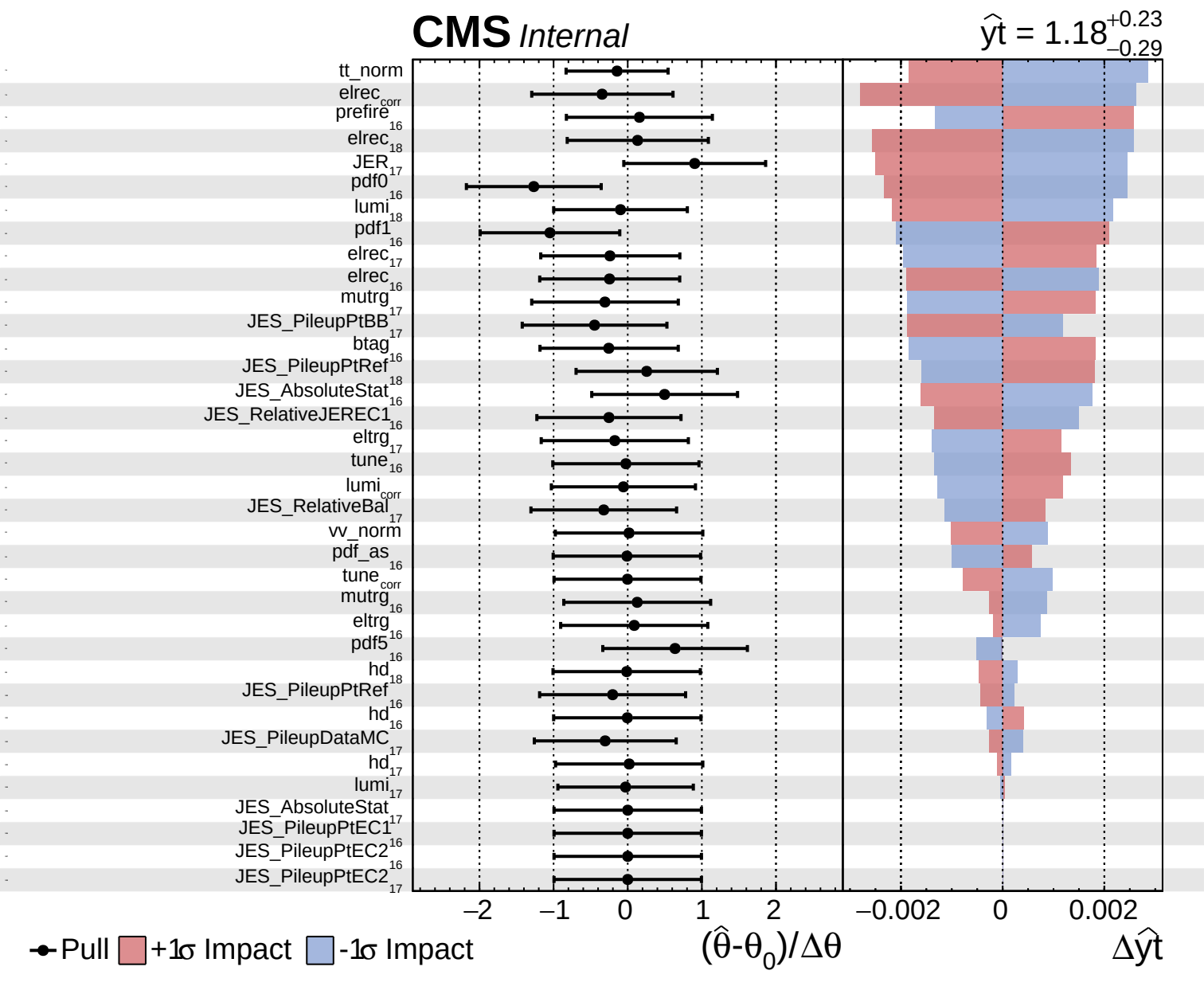
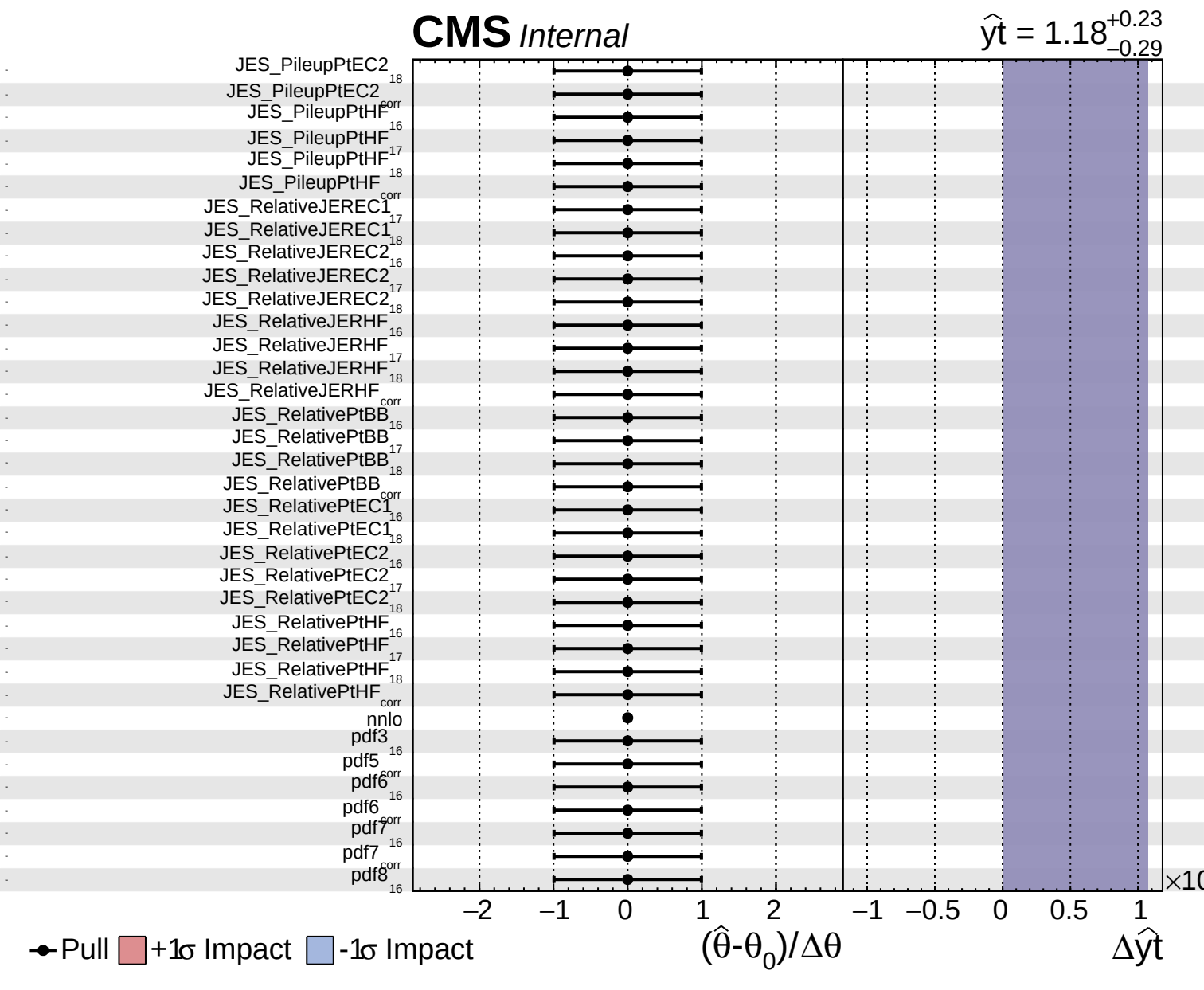
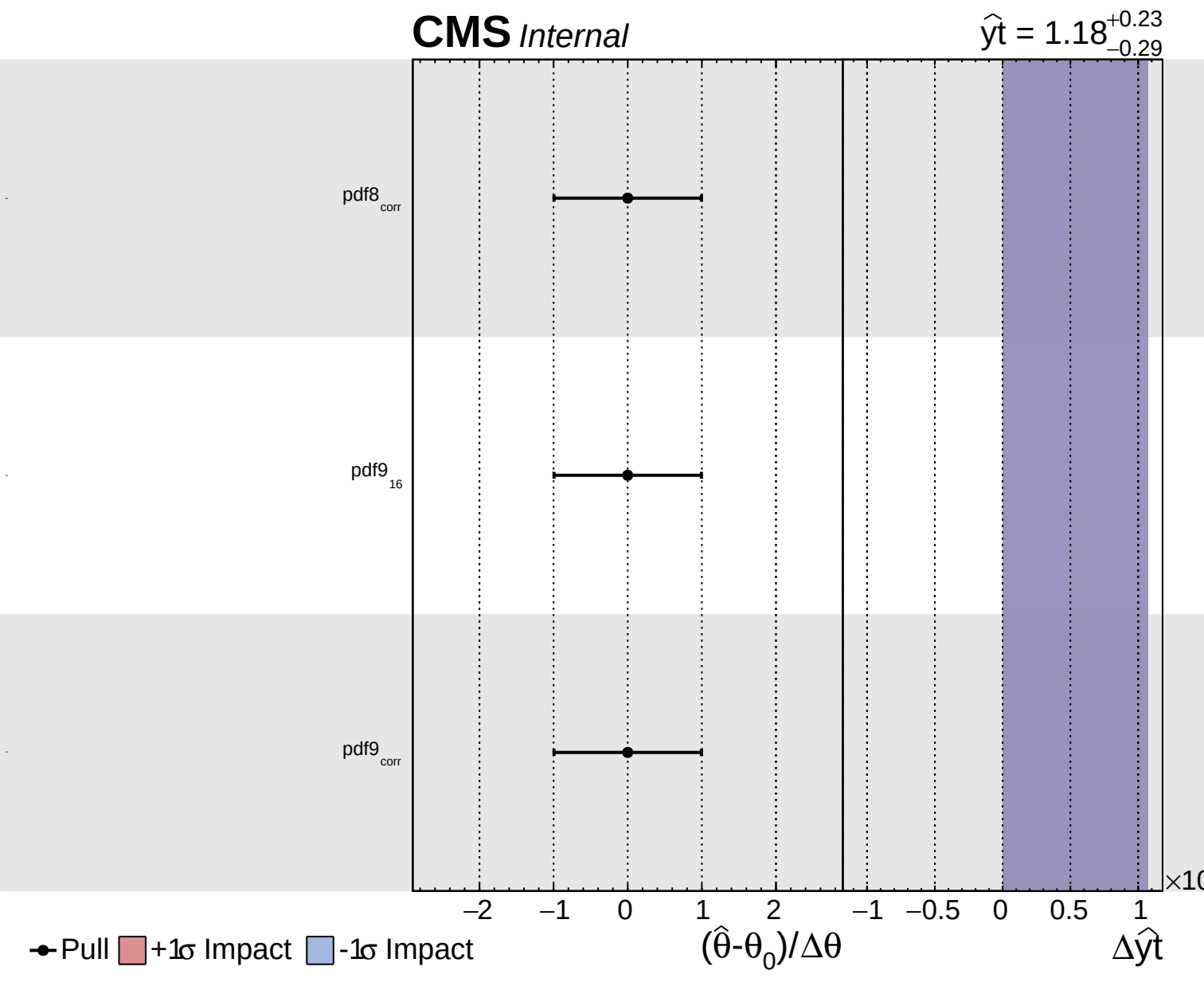

CMS Internal
$\hat{y}t = 1.18^{+0.23}_{-0.29}$
fsr corr
JES_FlavorQCD
FS
isr corr
RS
top mass
EWunc
st_norm
ltag corr
murec corr
JES_RelativeFSR corr
pdf0 corr
pdf4 corr
JES_TimePtEta 16
pdf1 corr
pdf2 16
fsr 16
btag corr
JES_RelativeSample 16
JES_SinglePionECAL
ltag 18
btag 18
JES_AbsoluteMPFBias
murec 18
JER 18
PileUp
pdf_as
pdf_as 17
JES_PileupPtBB 18
JES_AbsoluteScale
JES_Fragmentation
JES_RelativeFSR 18
JES_PileupDataMC
prefire corr
JES_PileupPtEC1 17
b-decay
−2
−1
0
1
2
−0.05
0
0.05
Pull
+1σ Impact
-1σ Impact
$(\hat{\theta}-\theta_0)/\Delta\theta$
$\Delta\hat{y}t$


CMS Internal
$\hat{y}t = 1.18^{+0.23}_{-0.29}$
JES_RelativeSample 18
JES_RelativeBal corr
vj_norm
JES_TimePtEta 18
JES_PileupPtBB
JES_RelativeFSR 16
JES_RelativeFSR 17
JES_RelativeFSR 16
rsfs
ltag 17
murec 16
JES_PileupPtBB corr
pdf4 16
JES_PileupDataMC 16
JES_TimePtEta 17
btag 17
JES_PileupPtEC1 18
JES_RelativeBal 16
murec 17
eltrg
JES_PileupPtRef 18
JES_AbsoluteStat corr
lumi 18
pdf3 16
JES_RelativePtEC1 corr
JES_PileupDataMC 17
JER 18
isr 16
ltag 16
mutrg 16
pdf2 18
JES_PileupPtRef corr
JES_RelativeBal 17
b-frag 18
JES_SinglePionHCAL
JES_PileupPtEC1 17
JES_RelativeSample 17
−2
−1
0
1
2
−0.005
0
0.005
Pull
+1σ Impact
-1σ Impact
$(\hat{\theta}-\theta_0)/\Delta\theta$
$\Delta\hat{y}t$


CMS Internal
$\hat{y}t = 1.18^{+0.23}_{-0.29}$
tt_norm
elrec$_{corr}$
prefire$_{16}$
elrec$_{18}$
JER$_{17}$
pdf0$_{16}$
lumi$_{18}$
pdf1$_{16}$
elrec$_{17}$
elrec$_{16}$
mutrg$_{17}$
JES_PileupPtBB$_{17}$
btag$_{16}$
JES_PileupPtRef$_{18}$
JES_AbsoluteStat$_{16}$
JES_RelativeJEREC1$_{16}$
eltrg$_{17}$
tune$_{16}$
lumi$_{corr}$
JES_RelativeBal$_{17}$
vv_norm
pdf_as$_{16}$
tune$_{corr}$
mutrg$_{16}$
eltrg$_{16}$
pdf5$_{16}$
hd$_{18}$
JES_PileupPtRef$_{16}$
hd$_{16}$
JES_PileupDataMC$_{17}$
hd$_{17}$
lumi$_{17}$
JES_AbsoluteStat
JES_PileupPtEC1$_{17}$
JES_PileupPtEC2$_{16}$
JES_PileupPtEC2$_{17}$
−2
−1
0
1
2
−0.002
0
0.002
Pull
+1σ Impact
-1σ Impact
$(\hat{\theta}-\theta_0)/\Delta\theta$
$\Delta\hat{y}t$


CMS Internal
$\hat{y}t = 1.18^{+0.23}_{-0.29}$
JES_PileupPtEC2 18
JES_PileupPtEC2 corr
JES_PileupPtHF 16
JES_PileupPtHF 17
JES_PileupPtHF 18
JES_PileupPtHF corr
JES_RelativeJEREC1 17
JES_RelativeJEREC1 18
JES_RelativeJEREC2 16
JES_RelativeJEREC2 17
JES_RelativeJEREC2 18
JES_RelativeJERHF 16
JES_RelativeJERHF 17
JES_RelativeJERHF 18
JES_RelativeJERHF corr
JES_RelativePtBB 16
JES_RelativePtBB 17
JES_RelativePtBB 18
JES_RelativePtBB corr
JES_RelativePtEC1 16
JES_RelativePtEC1 18
JES_RelativePtEC2 16
JES_RelativePtEC2 17
JES_RelativePtEC2 18
JES_RelativePtHF 16
JES_RelativePtHF 17
JES_RelativePtHF 18
JES_RelativePtHF corr
nnlo
pdf3 16
pdf5 corr
pdf6 16
pdf6 corr
pdf7 16
pdf7 corr
pdf8 16
−2 −1 0 1 2
−1 −0.5 0 0.5 1
×10
Pull
+1σ Impact
-1σ Impact
$(\hat{\theta}-\theta_0)/\Delta\theta$
$\Delta\hat{y}t$


CMS Internal
$\hat{y}t = 1.18^{+0.23}_{-0.29}$
pdf8 corr
pdf9 16
pdf9 corr
−2
−1
0
1
2
−1
−0.5
0
0.5
1
×10
Pull
+1σ Impact
-1σ Impact
$(\hat{\theta}-\theta_0)/\Delta\theta$
$\Delta\hat{y}t$