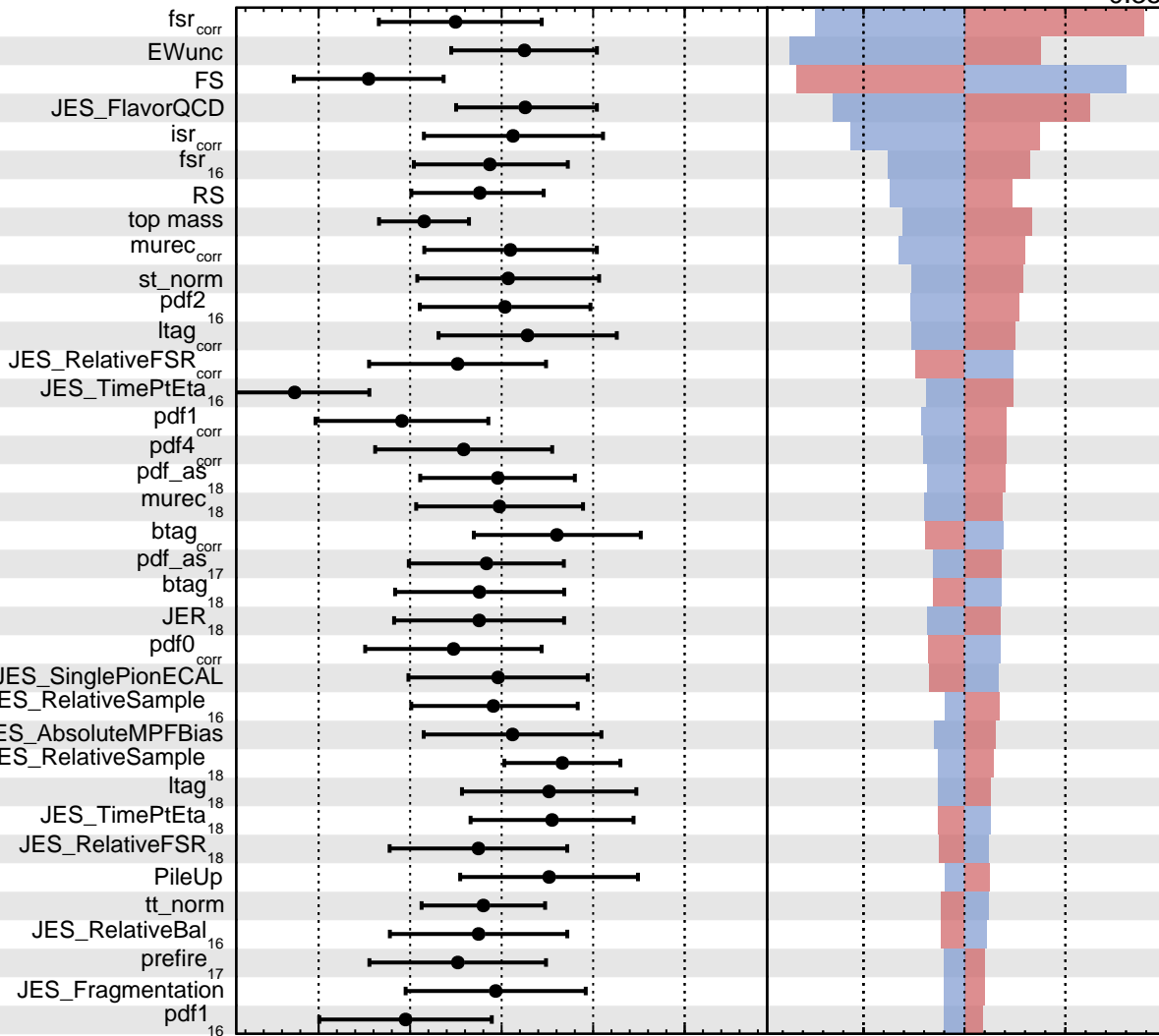


CMS *Internal*

$\hat{y}_t = 1.16^{+0.24}_{-0.35}$



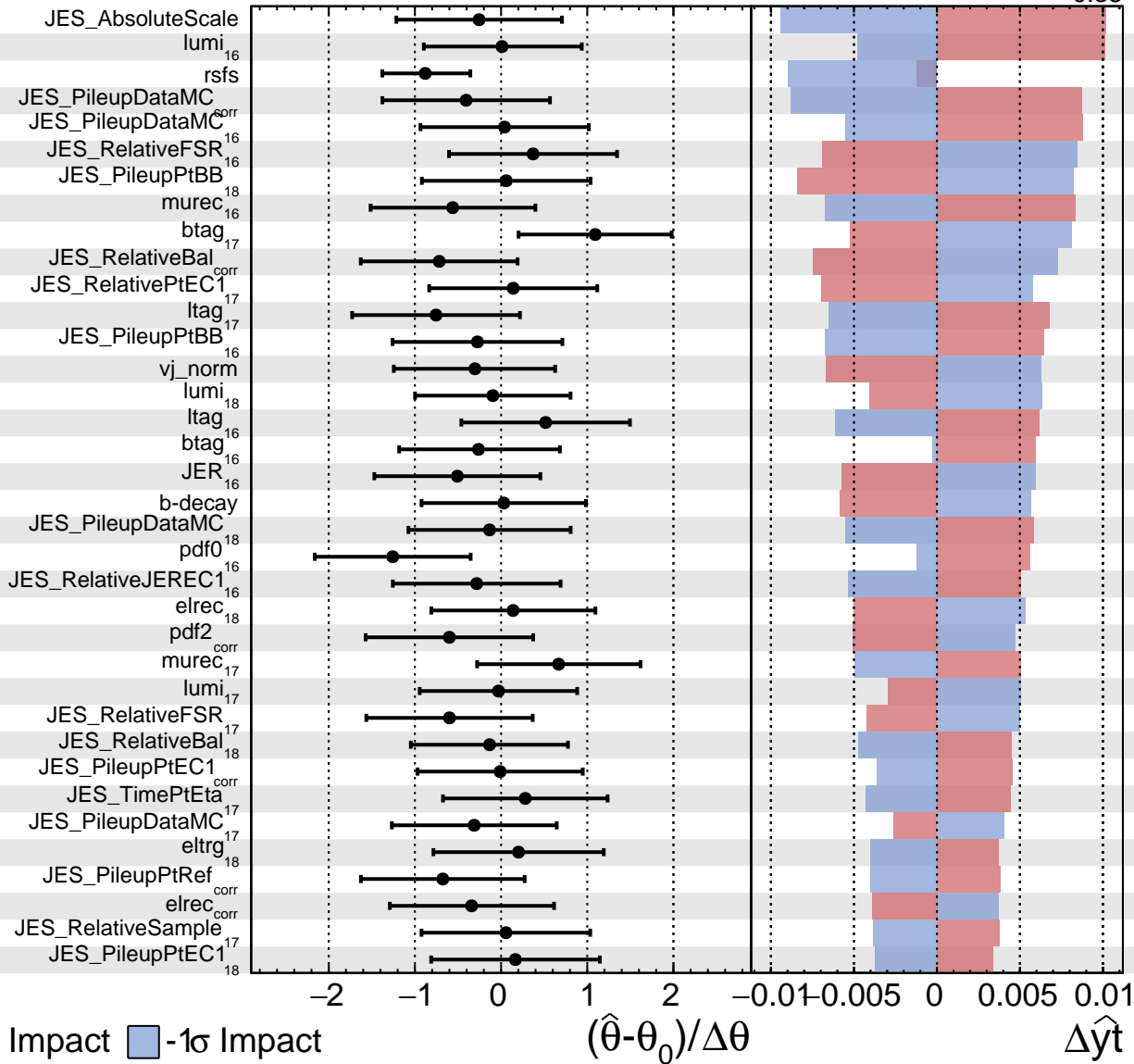
● Pull ■ +1 σ Impact ■ -1 σ Impact

$(\hat{\theta} - \theta_0) / \Delta\theta$

\hat{y}_t

CMS *Internal*

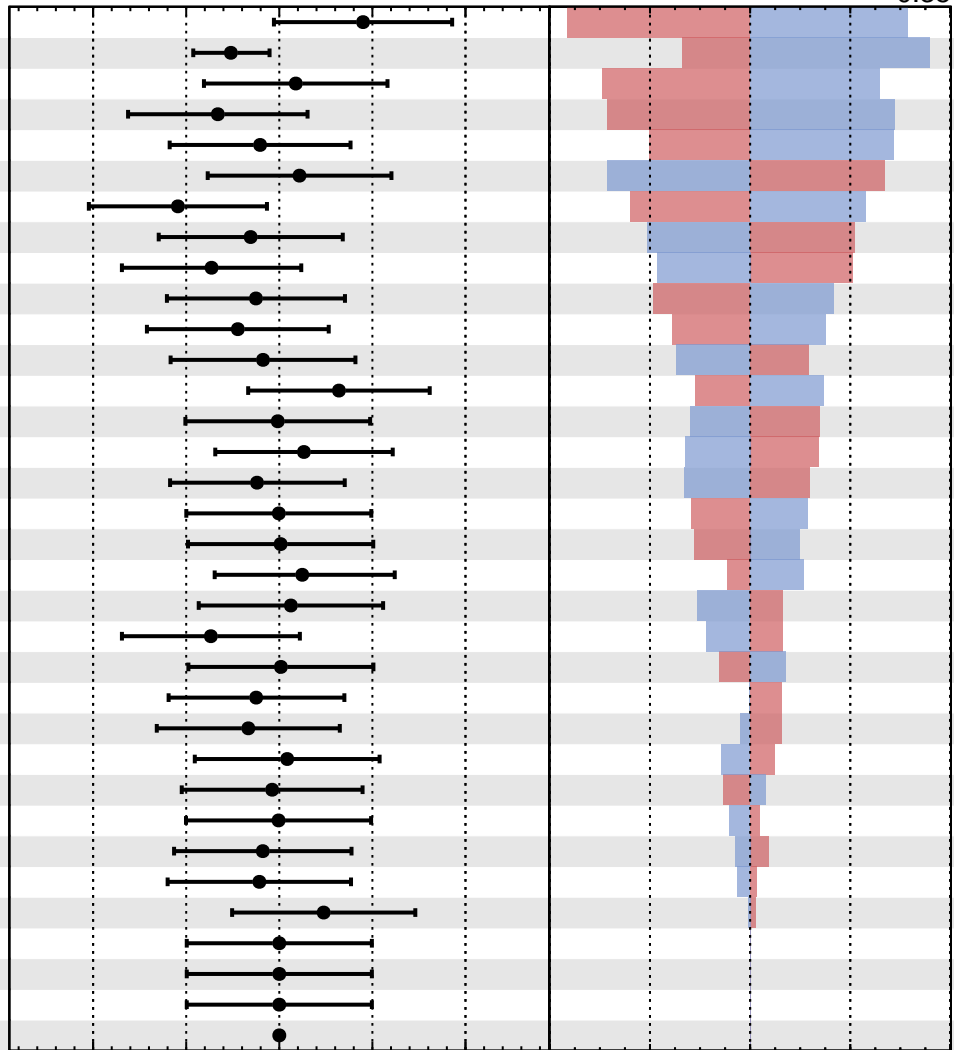
$\hat{y}_t = 1.16^{+0.24}_{-0.35}$



CMS *Internal*

$\hat{y}t = 1.16^{+0.24}_{-0.35}$

JER₁₇
b-frag
prefire
JES_PileupPtBB_{corr}
JES_SinglePionHCAL
mutrg₁₈
pdf3_{corr}
mutrg₁₇
JES_PileupPtRef₁₇
JES_AbsoluteStat₁₈
JES_PileupPtBB₁₇
eltrg₁₇
pdf5₁₆
flat₁₆
JES_PileupPtRef₁₈
elrec₁₇
flat_{corr}
vv_norm
isr₁₆
mutrg₁₆
pdf4₁₆
flat₁₇
elrec₁₆
JES_RelativeBal₁₇
eltrg₁₆
lumi_{corr}
pdf_as₁₆
JES_PileupPtEC1₁₇
JES_PileupPtRef₁₆
JES_AbsoluteStat₁₆
JES_RelativePtBB₁₆
JES_RelativePtBB_{corr}
flat₁₈
nnlo



● Pull ■ +1 σ Impact ■ -1 σ Impact

$(\hat{\theta} - \theta_0) / \Delta\theta$

$\Delta\hat{y}t$