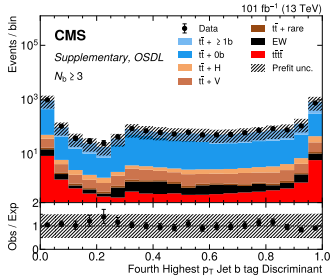
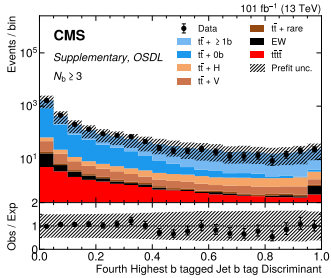
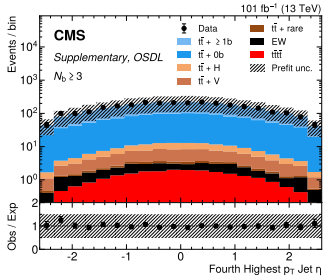
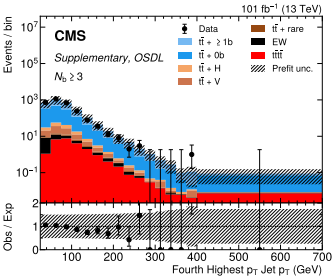
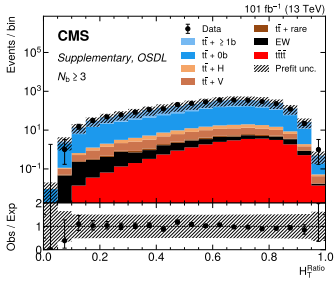
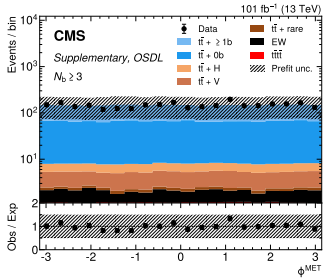

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Fourth Highest p_T Jet b tag Discriminant

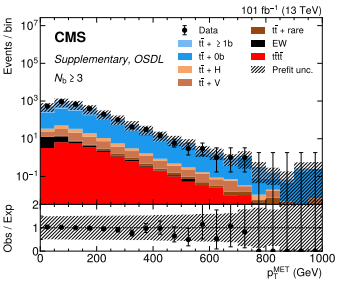

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Fourth Highest b tagged Jet b tag Discriminant

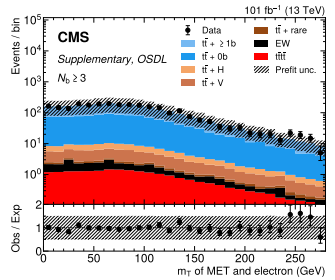

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Fourth Highest p_T Jet η

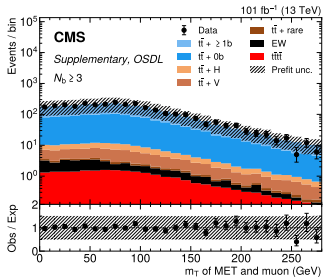

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Fourth Highest p_T Jet p_T (GeV)

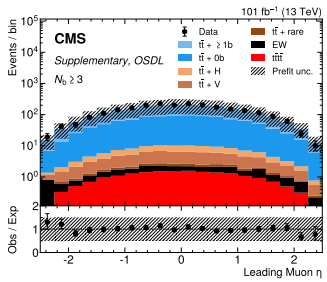

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
H_T^{Ratio}

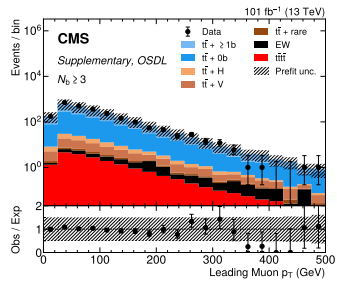

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
ϕ^{MET}

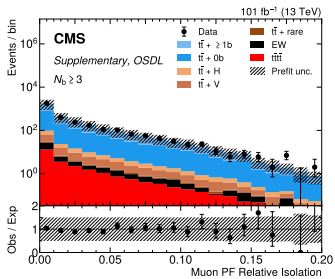

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
p_T^{MET} (GeV)

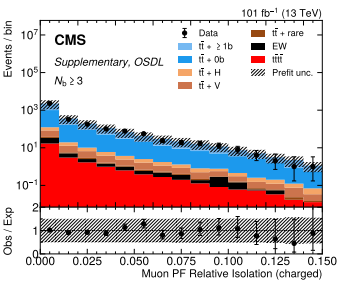

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
m_T of MET and electron (GeV)

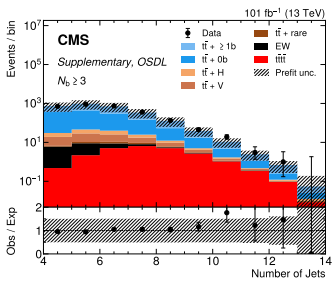

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
m_T of MET and muon (GeV)

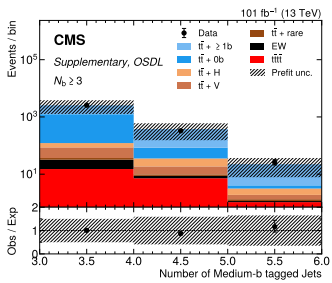

101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Leading Muon η


101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Leading Muon p_T (GeV)


101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Muon PF Relative Isolation


101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Muon PF Relative Isolation (charged)


101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Number of Jets


101 fb^{-1} (13 TeV)
CMS
Supplementary, OSDL
$N_b \geq 3$
Data
$t\bar{t}$ + $\geq$ 1b
$t\bar{t}$ + 0b
$t\bar{t}$ + H
$t\bar{t}$ + V
$t\bar{t}$ + rare
EW
$t\bar{t}t\bar{t}$
Prefit unc.
Events / bin
Obs / Exp
Number of Medium-b tagged Jets