	$t_l au_{ m had}$ -1j $t_l au_{ m had}$ -2		had-2j	$t_h \tau_{\mathrm{lep}} \tau$	_{had} -3j	$t_h \tau_{\rm lep} \tau_{\rm had}\text{-}2\mathrm{j}$	$t_l \tau_{ m had} \tau_{ m had}$
Double Fake				_	_		73 ± 24
ar t t V	9.3 ± 1.2	22.6 ± 2.8		23.5 =	± 3.0	13.7 ± 1.7	2.57 ± 0.35
SM Higgs	5.8 ± 0.8	13.7 ± 1.7		32.8	$\pm \ 3.5$	13.5 ± 2.5	16.7 ± 1.9
Diboson	32.6 ± 3.4	19.9 ± 2.1		36 =	± 4	46 ± 5	13.2 ± 1.4
Other MC	35.6 ± 3.1	15.9 ± 1.7		226 =	± 21	620 ± 40	6.7 ± 0.6
Z o au au	0 ± 6	9.1 ± 2.2		500 =	± 60	880 ± 90	2.1 ± 0.7
Lep Fake	212 ± 30	80 ± 10		292 =	± 26	490 ± 70	0.9 ± 0.4
QCD Fake	670 ± 200	310 ± 90		180 =	± 70	330 ± 110	
b Fake	960 ± 140	1250 ± 230		$710 \pm$	140	710 ± 130	82 ± 13
W-jet Fake	970 ± 200	1090 ± 240		3300 =	± 500	3800 ± 600	5.5 ± 1.8
Other Fake	3020 ± 260	2470 ± 160		1420 =	± 220	1320 ± 320	129 ± 14
$\bar{t}t$	281 ± 14	195 ± 24		7100 =	± 400	11800 ± 500	7.7 ± 2.7
Total background	6200 ± 170	5480 ± 100		13820	± 140	20000 ± 170	339 ± 27
tcH	30 ± 5	27 ± 4		51 :	± 8	34 ± 6	36 ± 5
tuH	36 ± 8	32 ± 5		63 ±	= 10	45 ± 7	48 ± 7
D-+-	40.50	5410					
Data	6353	5	410	138	304	20000	351
— Data	6353	5					351
Data		5	$t_h au_{ m had}$	$\tau_{ m had}$ -2j	$t_h au_{ m had}$	$_{ m l} au_{ m had}$ -3j	351
Data	$t ar{t} V$	5	$t_h au_{ m had}$	$\tau_{\rm had}$ -2j ± 0.4	$t_h au_{ m had}$ 5.5	$ \frac{1\tau_{\text{had}}-3j}{\pm 1.0} $	351
Data	$t\bar{t}V$ Diboson	5	$t_h au_{ m had}$ $0.7 = 8.4 = $	$ au_{ m had}$ -2j $ au$	$t_h \tau_{ m had}$ 5.5 10.8	$ \frac{17_{\text{had}} - 3j}{\pm 1.0} $ $ \pm 1.5 $	351
Data	$t ar{t} V$ Diboson Rare		$t_h \tau_{\rm had}$ 0.7 = 8.4 = 17.9	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1	$t_h \tau_{\rm had}$ 5.5 10.8 10.2	$ \frac{1\tau_{\text{had}}-3j}{\pm 1.0} $ $ \pm 1.5 $ $ \pm 2.6 $	351
Data	$t ar{t} V$ Diboson Rare SM Higgs	8	$t_h \tau_{\rm had}$ 0.7 = 8.4 = 17.9 17.4	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1 ± 2.5	$t_h \tau_{\rm had}$ 5.5 10.8 10.2 25.9	$ \frac{17_{\text{had}} - 3j}{\pm 1.0} $ $ \pm 1.5 $ $ \pm 2.6 $ $ \pm 3.1 $	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only $ au_{sub}$ re	8	$t_h \tau_{\rm had}$ 0.7 = 8.4 = 17.9 17.4 56 =	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1 ± 2.5 ± 30	$t_h au_{ m had}$ 5.5 10.8 10.2 25.9	$\begin{array}{c} & & \\ \hline & 1\tau_{\text{had}} - 3j \\ & \pm 1.0 \\ & \pm 1.5 \\ & \pm 2.6 \\ & \pm 3.1 \\ & \pm 50 \end{array}$	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only $ au_{sub}$ re $t\bar{t}$	8	$t_h \tau_{\rm had}$ 0.7 = 8.4 = 17.9 17.4 56 = 221	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1 ± 2.5 ± 30 ± 28	$t_h au_{ m had}$ 5.5 10.8 10.2 25.9 80 220	$\begin{array}{c} & & \\ & 1\tau_{\text{had}} - 3j \\ & \pm 1.0 \\ & \pm 1.5 \\ & \pm 2.6 \\ & \pm 3.1 \\ & \pm 50 \\ & \pm 40 \end{array}$	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only τ_{sub} re $t\bar{t}$ Fake τ	8	$t_h \tau_{\rm had}$ 0.7 = 8.4 = 17.9 17.4 56 = 221 220	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1 ± 2.5 ± 30 ± 28 ± 70	$t_h \tau_{\rm had}$ 5.5 10.8 10.2 25.9 80 220 270	$\begin{array}{c} & & \\ & 1\tau_{\text{had}} - 3j \\ & \pm 1.0 \\ & \pm 1.5 \\ & \pm 2.6 \\ & \pm 3.1 \\ & \pm 50 \\ & \pm 40 \\ & \pm 70 \end{array}$	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only $ au_{sub}$ re $t\bar{t}$	8	$t_h \tau_{\rm had}$ 0.7 = 8.4 = 17.9 17.4 56 = 221 220	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1 ± 2.5 ± 30 ± 28	$t_h \tau_{\rm had}$ 5.5 10.8 10.2 25.9 80 220 270	$\begin{array}{c} & & \\ & 1\tau_{\text{had}} - 3j \\ & \pm 1.0 \\ & \pm 1.5 \\ & \pm 2.6 \\ & \pm 3.1 \\ & \pm 50 \\ & \pm 40 \end{array}$	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only τ_{sub} re $t\bar{t}$ Fake τ	s eal	$t_h au_{ m had}$ $0.7 = 8.4 = 17.9$ 17.4 $56 = 221$ 220 490	$ au_{ m had}$ -2j ± 0.4 ± 1.6 ± 3.1 ± 2.5 ± 30 ± 28 ± 70	$t_h \tau_{\rm had}$ 5.5 10.8 10.2 25.9 80 220 270 420	$\begin{array}{c} & & \\ & 1\tau_{\text{had}} - 3j \\ & \pm 1.0 \\ & \pm 1.5 \\ & \pm 2.6 \\ & \pm 3.1 \\ & \pm 50 \\ & \pm 40 \\ & \pm 70 \end{array}$	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only τ_{sub} re $t\bar{t}$ Fake τ $Z \to \tau \tau$	s eal	$t_h \tau_{\text{had}}$ 0.7 = 8.4 = 17.9 17.4 56 = 221 220 490	$ au_{ m had}$ -2j \pm 0.4 \pm 1.6 \pm 3.1 \pm 2.5 \pm 30 \pm 28 \pm 70 \pm 50	$t_h \tau_{\text{hac}}$ 5.5 10.8 10.2 25.9 80 220 270 420	$ \begin{array}{r} $	351
Data	$t\bar{t}V$ Diboson Rare SM Higgs only τ_{sub} re $t\bar{t}$ Fake τ $Z \to \tau\tau$ Total background	s eal	$t_h \tau_{\text{had}}$ 0.7 = 8.4 = 17.9 17.4 56 = 221 220 490 1040	$ au_{ m had}$ -2j \pm 0.4 \pm 1.6 \pm 3.1 \pm 2.5 \pm 30 \pm 28 \pm 70 \pm 50 \pm 35	$t_h \tau_{\text{hac}}$ 5.5 10.8 10.2 25.9 80 220 270 420 1040	$\begin{array}{c} \pm 1.0 \\ \pm 1.5 \\ \pm 2.6 \\ \pm 3.1 \\ \pm 50 \\ \pm 40 \\ \pm 50 \\ \pm 40 \\ \pm 10 $	351