	${ m ttBar}$	Table 1: <b>n</b> Zltau	nu_trig Zlljet	Wlnu	LH_Ztautau	RH_Ztautau
$SR_{-}OS$	ша	Zitau	Ziijet	willu	LII_Ztautau	1t11_Ztautau
$\sigma_{-}up$	0.5921	0.3420	0.4366	1.5224	3.3972	2.8829
$\sigma_{ extsf{-}}down$	0.5921	0.3420	0.4366	1.5224	3.3972	2.8828
Low,High	0.982,1.018	0.982,1.018	0.982,1.018	0.982,1.018	0.982,1.018	0.982, 1.018
SR_SS		•		·	·	· · · · · · · · · · · · · · · · · · ·
$\sigma_{ ext{-}}up$	0.2441	-	0.4385	0.8909	0.3521	0.3037
$\sigma_{-}down$	0.2441	-	0.4385	0.8909	0.3521	0.3037
Low,High	0.982, 1.018	-	0.982, 1.018	0.982, 1.018	0.982, 1.018	0.982, 1.018
WCR_OS						
$\sigma_{ ext{-}}up$	0.8520	0.0970	0.7009	4.6120	0.3649	0.2518
$\sigma_{-}down$	0.8520	0.0970	0.7009	4.6121	0.3649	0.2518
Low,High	0.982, 1.018	0.983, 1.017	0.982, 1.018	0.982, 1.018	0.982, 1.018	0.982, 1.018
WCR_SS						
$\sigma_{ ext{-}}up$	0.3090	-	0.7107	2.6968	0.1556	0.0728
$\sigma_{-}down$	0.3090	-	0.7107	2.6968	0.1556	0.0728
Low,High	0.982, 1.018	-	0.982, 1.018	0.982, 1.018	0.983, 1.017	0.984, 1.016
QCD_OS						
$\sigma_{ ext{-}}up$	0.2800	0.0868	0.1306	0.4268	0.9391	0.7901
$\sigma_{-}down$	0.2800	0.0868	0.1306	0.4268	0.9391	0.7901
Low,High	0.982, 1.018	0.982, 1.018	0.983, 1.017	0.982, 1.018	0.982, 1.018	0.982, 1.018
QCD_SS						
$\sigma$ _ $up$	0.1821	-	0.1042	0.2555	0.0967	0.0793
$\sigma_{-}down$	0.1822	-	0.1042	0.2555	0.0967	0.0793
Low,High	0.982, 1.018	-	0.983, 1.017	0.983, 1.017	0.983, 1.017	0.982, 1.018

	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_{-}Ztautau$
$SR_{-}OS$						
$\sigma_{ ext{-}}up$	0.4951	0.0000	0.0000	0.0003	4.7914	4.0750
$\sigma_{-}down$	0.4951	0.0000	0.0000	0.0003	4.7914	4.0750
Low,High	0.985, 1.015	1.000, 1.000	1.000, 1.000	1.000, 1.000	0.975, 1.025	0.975, 1.025
SR_SS						
$\sigma_{ ext{-}}up$	0.0072	-	0.0001	0.0004	0.1854	0.1682
$\sigma_{-}down$	0.0072	-	0.0001	0.0004	0.1854	0.1682
Low,High	0.999, 1.001	-	1.000, 1.000	1.000, 1.000	0.991, 1.009	0.990, 1.010
WCR_OS						
$\sigma_{ ext{-}}up$	0.7732	0.0000	0.0000	0.0004	0.4399	0.3060
$\sigma\_down$	0.7732	0.0000	0.0000	0.0004	0.4399	0.3060
Low,High	0.984, 1.016	1.000, 1.000	1.000, 1.000	1.000, 1.000	0.979, 1.021	0.979, 1.021
WCR_SS						
$\sigma_{ ext{-}}up$	0.0128	-	0.0000	0.0005	0.0014	0.0012
$\sigma$ _down	0.0128	-	0.0000	0.0005	0.0014	0.0012
Low, High	0.999, 1.001	-	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000

	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_{-}Ztautau$
$SR_{-}OS$						
$\sigma$ _ $up$	0.2768	0.0000	0.0000	0.0002	2.7559	2.3545
$\sigma\_down$	0.2769	0.0000	0.0000	0.0002	2.7560	2.3545
Low,High	0.992, 1.008	1.000, 1.000	1.000, 1.000	1.000, 1.000	0.985, 1.015	0.985, 1.015
SR_SS						
$\sigma_{ ext{-}}up$	0.0039	-	0.0001	0.0002	0.1126	0.1036
$\sigma$ _ $down$	0.0039	-	0.0001	0.0002	0.1126	0.1036
Low,High	1.000, 1.000	-	1.000, 1.000	1.000, 1.000	0.994, 1.006	0.994, 1.006
WCR_OS						
$\sigma$ _ $up$	0.4309	0.0000	0.0000	0.0002	0.2513	0.1770
$\sigma$ _down	0.4309	0.0000	0.0000	0.0002	0.2513	0.1770
Low,High	0.991, 1.009	1.000, 1.000	1.000, 1.000	1.000, 1.000	0.988, 1.012	0.988, 1.012
WCR_SS						
$\sigma$ _ $up$	0.0076	-	0.0000	0.0003	0.0007	0.0008
$\sigma\_down$	0.0076	-	0.0000	0.0003	0.0007	0.0008
Low,High	1.000, 1.000	-	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000

Table 4: tau_el								
	ttBar	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_{-}Ztautau$		
$SR_{-}OS$								
$\sigma$ _ $up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
$\sigma$ _ $down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Low,High	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000		
SR_SS								
$\sigma_{ ext{-}}up$	0.0000	-	0.0000	0.0000	0.0000	0.0000		
$\sigma\_down$	0.0000	_	0.0000	0.0000	0.0000	0.0000		
Low,High	1.000, 1.000	-	1.000, 1.000	1.000, 1.000	1.000,1.000	1.000,1.000		
WCR_OS	·		•	•		· · · · · · · · · · · · · · · · · · ·		
$\sigma_{ extsf{-}}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
$\sigma\_down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Low, High	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000		
WCR_SS	,	,	,	,	,	,		
$\sigma$ _ $up$	0.0000	_	0.0000	0.0000	0.0000	0.0000		
$\sigma_{-}down$	0.0000	_	0.0000	0.0000	0.0000	0.0000		
Low,High	1.000,1.000	_	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000		
, 8	,		,	,	,	,		
		Table 5: ta	au falsa					
	${ m ttBar}$	Zltau	au_iake Zlljet	Wlnu	LH_Ztautau	RH_Ztautau		
$SR_{-}OS$	oobar	21000	211100	Willa	211-21000000	1011_2000000		
$\sigma_{-}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
$\sigma_{-}down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
Low,High	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000		
SR_SS	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000		
$\sigma_{-}up$	0.0000		0.0000	0.0000	0.0000	0.0000		
$\sigma_{\_}down$	0.0000	-	0.0000	0.0000	0.0000	0.0000		
		-						
Low, High	1.000,1.000	-	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000		
WCR_OS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		
$\sigma_{-}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		

0.0000

0.0000

0.0000

1.000, 1.000

1.000, 1.000

0.0000

0.0000

0.0000

1.000, 1.000

1.000, 1.000

0.0000

0.0000

0.0000

1.000, 1.000

1.000, 1.000

0.0000

0.0000

0.0000

1.000, 1.000

1.000, 1.000

0.0000

1.000, 1.000

 $\sigma_{-}up$ 

 $\sigma \_down$ 

 $_{\rm Low, High}$ 

 $\sigma \_down$  $_{\rm Low, High}$ 

WCR\_SS

0.0000

0.0000

0.0000

1.000, 1.000

1.000, 1.000

	u.D	Table 6:		<b>XX</b> 71	T TT 774 4	DII 74
DO GD	ttBar	Zltau	Zlljet	Wlnu	LH_Ztautau	RH_Ztautau
$SR_{-}OS$						
$\sigma_{ ext{-}}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
$\sigma$ _ $down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Low,High	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000
SR_SS						
$\sigma_{-}up$	0.0000	-	0.0000	0.0000	0.0000	0.0000
$\sigma_{-}down$	0.0000	-	0.0000	0.0000	0.0000	0.0000
Low, High	1.000,1.000	_	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000
WCR_OS	,		,	,	,	,
$\sigma_{-}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
$\sigma_{-}down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Low, High	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.00
WCR_SS	,	·	,	·	·	,
$\sigma_{-}up$	0.0000	-	0.0000	0.0000	0.0000	0.000
$\sigma_{-}down$	0.0000	_	0.0000	0.0000	0.0000	0.000
Low,High	1.000,1.000	_	1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.00
2011,121,612	1.000,1.000		1.000,1.000	1.000,1.000	1.000,1.000	1.000,1.00
		Table 7:	el iso			
	${ m ttBar}$	Zltau	Zlljet	Wlnu	LH_Ztautau	RH_Ztauta

	${ m ttBar}$	Zltau	Zlljet	7 X 7 1	T TT 7/4 4	DII 7
		21000	Ziijet	Wlnu	$LH_Ztautau$	RH_Ztautau
$SR_{-}OS$						
$\sigma$ _ $up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
$\sigma$ _ $down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Low,High	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000
SR_SS						
$\sigma_{ ext{-}}up$	0.0000	_	0.0000	0.0000	0.0000	0.0000
$\sigma_{-}down$	0.0000	_	0.0000	0.0000	0.0000	0.0000
Low,High	1.000, 1.000	-	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000
WCR_OS						
$\sigma_{ extsf{-}}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
$\sigma_{-}down$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Low,High	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000	1.000, 1.000
WCR_SS						
$\sigma_{ ext{-}}up$	0.0000	_	0.0000	0.0000	0.0000	0.0000
$\sigma$ _down	0.0000	_	0.0000	0.0000	0.0000	0.0000
Low,High	1.000,1.000	_	1.000,1.000	1.000,1.000	1.000, 1.000	1.000,1.000

	Table 8: <b>mu_id</b>								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$			
$SR_{-}OS$									
$\sigma_{ extsf{-}}up$	0.0969	0.0553	0.0731	0.2503	0.5338	0.4522			
$\sigma_{-}down$	0.0969	0.0553	0.0731	0.2503	0.5338	0.4522			
Low,High	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003			
SR_SS									
$\sigma_{ ext{-}}up$	0.0404	-	0.0742	0.1489	0.0573	0.0483			
$\sigma_{-}down$	0.0404	-	0.0742	0.1489	0.0573	0.0483			
Low,High	0.997, 1.003	-	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003			
WCR_OS									
$\sigma_{ ext{-}}up$	0.1421	0.0170	0.1224	0.7585	0.0618	0.0421			
$\sigma$ _down	0.1421	0.0170	0.1224	0.7586	0.0618	0.0421			
Low,High	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003			
WCR_SS									
$\sigma_{ extsf{-}}up$	0.0520	-	0.1233	0.4501	0.0266	0.0135			
$\sigma_{-}down$	0.0520	-	0.1233	0.4501	0.0266	0.0135			
Low,High	0.997, 1.003	-	0.997, 1.003	0.997, 1.003	0.997, 1.003	0.997, 1.003			

Table 9: <b>mu_iso</b>								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$		
$SR_{-}OS$								
$\sigma_{ ext{-}}up$	0.3845	0.2056	0.2723	0.9560	2.0454	1.7402		
$\sigma\_down$	0.3845	0.2056	0.2723	0.9560	2.0454	1.7402		
Low,High	0.988, 1.012	0.989, 1.011	0.989, 1.011	0.989, 1.011	0.989, 1.011	0.989, 1.011		
SR_SS								
$\sigma_{ extsf{-}}up$	0.1621	-	0.2765	0.5686	0.2157	0.1851		
$\sigma$ _down	0.1621	-	0.2765	0.5686	0.2157	0.1851		
Low,High	0.988, 1.012	-	0.989, 1.011	0.989, 1.011	0.989, 1.011	0.989, 1.011		
WCR_OS								
$\sigma$ _ $up$	0.5684	0.0692	0.4420	2.8752	0.2372	0.1603		
$\sigma\_down$	0.5684	0.0692	0.4420	2.8752	0.2372	0.1603		
Low,High	0.988, 1.012	0.988, 1.012	0.989, 1.011	0.989, 1.011	0.989, 1.011	0.989, 1.011		
WCR_SS								
$\sigma_{ ext{-}}up$	0.2090	-	0.4414	1.6795	0.1025	0.0507		
$\sigma\_down$	0.2090	-	0.4414	1.6795	0.1025	0.0507		
Low,High	0.988, 1.012	-	0.989, 1.011	0.989, 1.011	0.989, 1.011	0.989, 1.011		

	Table 10: ElES_LowPt								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Ztautau$			
$SR_{-}OS$									
$\sigma_{ extsf{-}}up$	0.0174	0.0162	0.0662	0.1516	0.4252	0.0298			
$\sigma_{-}down$	0.0197	0.0162	0.1224	0.1883	0.4651	0.0447			
Low,High	1.001, 1.001	0.999, 0.999	1.003, 1.005	1.002, 1.002	1.002, 1.002	1.000, 1.000			
SR_SS									
$\sigma_{ extsf{-}}up$	0.0225	-	0.0297	0.1082	0.0235	0.1101			
$\sigma$ _down	0.0236	-	0.0465	0.1082	0.0235	0.1101			
Low,High	1.002, 1.002	-	1.001, 1.002	0.998, 0.998	0.999, 0.999	1.006, 1.006			
WCR_OS									
$\sigma_{ ext{-}}up$	0.0731	0.0873	0.0477	0.2466	0.0997	0.0000			
$\sigma$ _down	0.1007	0.0873	0.0477	0.3222	0.0997	0.0000			
Low,High	1.002, 1.002	1.016, 1.016	1.001, 1.001	1.001, 1.001	1.005, 1.005	1.000, 1.000			
WCR_SS									
$\sigma_{ extsf{-}}up$	0.0040	-	0.0200	0.2269	0.1329	0.0000			
$\sigma_{-}down$	0.0511	-	0.0131	0.1571	0.1329	0.0000			
Low,High	1.000, 1.003	-	0.999, 1.000	0.999, 0.999	0.985, 0.985	1.000, 1.000			

Table 11: ElES_PS								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$		
$\mathrm{SR}_{ ext{-}}\mathrm{OS}$								
$\sigma$ _ $up$	0.0174	0.0162	0.0662	0.1628	0.4324	0.0298		
$\sigma$ _down	0.0197	0.0162	0.0976	0.1628	0.4573	0.0447		
Low,High	1.001, 1.001	0.999, 0.999	1.003, 1.004	1.002, 1.002	1.002, 1.002	1.000, 1.000		
SR_SS								
$\sigma_{ ext{-}}up$	0.0225	-	0.0465	0.1082	0.0235	0.1101		
$\sigma$ _down	0.0236	-	0.0465	0.1082	0.0829	0.1101		
Low,High	1.002, 1.002	-	1.002, 1.002	0.998, 0.998	0.996, 0.999	1.006, 1.006		
WCR_OS								
$\sigma_{ ext{-}}up$	0.0839	0.0873	0.0477	0.2697	0.0997	0.0000		
$\sigma_{-}down$	0.0927	0.0873	0.0477	0.2874	0.0997	0.0000		
Low,High	1.002, 1.002	1.016, 1.016	1.001, 1.001	1.001, 1.001	1.005, 1.005	1.000, 1.000		
WCR_SS								
$\sigma_{ ext{-}}up$	0.0040	-	0.0086	0.1909	0.1329	0.0000		
$\sigma$ _down	0.0218	-	0.0131	0.1770	0.1329	0.0000		
Low,High	1.000, 1.001	-	1.000, 1.000	0.999, 0.999	0.985, 0.985	1.000, 1.000		

Table 12: $ElES_R12$								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Ztautau$		
$SR_{-}OS$								
$\sigma_{ extsf{-}}up$	0.0219	0.0162	0.1224	0.1883	0.4573	0.0447		
$\sigma_{-}down$	0.0174	0.0162	0.0662	0.1516	0.4317	0.0298		
Low,High	1.001, 1.001	0.999, 0.999	1.003, 1.005	1.002, 1.002	1.002, 1.002	1.000, 1.000		
SR_SS								
$\sigma_{ extsf{-}}up$	0.0236	-	0.0465	0.1082	0.0829	0.1101		
$\sigma_{-}down$	0.0225	-	0.0297	0.1082	0.0235	0.1101		
Low,High	1.002, 1.002	-	1.001, 1.002	0.998, 0.998	0.996, 0.999	1.006, 1.006		
WCR_OS								
$\sigma_{ ext{-}}up$	0.1049	0.0873	0.0477	0.3000	0.0997	0.0000		
$\sigma$ _down	0.0731	0.0873	0.0477	0.2551	0.0997	0.0000		
Low,High	1.002, 1.002	1.016, 1.016	1.001, 1.001	1.001, 1.001	1.005, 1.005	1.000, 1.000		
WCR_SS								
$\sigma_{ extsf{-}}up$	0.0511	-	0.0131	0.1571	0.1329	0.0000		
$\sigma_{-}down$	0.0040	-	0.0200	0.2583	0.1329	0.0000		
Low,High	1.000, 1.003	-	0.999, 1.000	0.998, 0.999	0.985, 0.985	1.000, 1.000		

Table 13: ElES_Zee								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$		
$\mathrm{SR}_{ ext{-}}\mathrm{OS}$								
$\sigma_{ extsf{-}}up$	0.0174	0.0162	0.0662	0.1516	0.4314	0.0189		
$\sigma\_down$	0.0219	0.0162	0.1224	0.1520	0.4573	0.0353		
Low,High	1.001, 1.001	0.999, 0.999	1.003, 1.005	1.002, 1.002	1.002, 1.002	1.000, 1.000		
SR_SS								
$\sigma$ _ $up$	0.0225	-	0.0465	0.1082	0.0235	0.1101		
$\sigma$ _down	0.0392	-	0.0465	0.1082	0.0829	0.1101		
Low,High	1.002, 1.003	-	1.002, 1.002	0.998, 0.998	0.996, 0.999	1.006, 1.006		
WCR_OS								
$\sigma$ _ $up$	0.0754	0.0873	0.0477	0.2545	0.0873	0.0000		
$\sigma\_down$	0.0992	0.0873	0.0477	0.3092	0.0997	0.0000		
Low,High	1.002, 1.002	1.016, 1.016	1.001, 1.001	1.001, 1.001	1.004, 1.005	1.000, 1.000		
WCR_SS								
$\sigma$ _ $up$	0.0161	-	0.0200	0.2260	0.1329	0.0000		
$\sigma$ _ $down$	0.0511	-	0.0131	0.1571	0.1329	0.0000		
Low,High	0.999, 1.003	-	0.999, 1.000	0.999, 0.999	0.985, 0.985	1.000, 1.000		

Table 14: ElEnResSys									
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	RH_Ztautau			
$SR\_OS$									
$\sigma_{ ext{-}}up$	0.0068	0.0162	0.0910	0.1191	0.4401	0.0376			
$\sigma_{-}down$	0.0257	0.0162	0.0910	0.1778	0.4324	0.0339			
Low,High	1.000, 1.001	0.999, 0.999	1.004, 1.004	1.001, 1.002	1.002, 1.002	1.000, 1.000			
SR_SS									
$\sigma_{ extsf{-}}up$	0.0236	-	0.0436	0.1498	0.0829	0.1101			
$\sigma_{-}down$	0.0236	-	0.0536	0.1082	0.0829	0.1101			
Low,High	1.002, 1.002	-	1.002, 1.002	0.997, 0.998	0.996, 0.996	1.006, 1.006			
WCR_OS									
$\sigma_{ extsf{-}}up$	0.0876	0.0873	0.0462	0.2857	0.0873	0.1204			
$\sigma_{-}down$	0.0895	0.0873	0.0282	0.2737	0.0997	0.0000			
Low,High	1.002, 1.002	1.016, 1.016	1.001, 1.001	1.001, 1.001	1.004, 1.005	0.992, 1.000			
WCR_SS									
$\sigma_{ extsf{-}}up$	0.0076	-	0.0086	0.1969	0.1329	0.0000			
$\sigma_{-}down$	0.0040	-	0.0131	0.1706	0.1329	0.0000			
Low,High	1.000, 1.000	-	1.000, 1.000	0.999, 0.999	0.985, 0.985	1.000, 1.000			

	Table 15: MuSys									
$\mathrm{SR}_{-}\mathrm{OS}$	ttBar	Zltau	Zlljet	Wlnu	LH_Ztautau	RH_Ztautau				
$\sigma_{-}up$	0.0596	0.5143	0.2274	0.0967	0.6307	0.0348				
$\sigma_{-}down$	0.0260	0.0162	0.1027	0.0890	0.4367	0.0655				
Low,High	1.001,1.002	0.999, 1.027	1.004,1.009	1.001,1.001	1.002,1.003	1.000,1.000				
SR_SS	,	,	,	·	,	,				
$\sigma_{ ext{-}}up$	0.0015	-	0.1338	0.1496	0.0998	0.0526				
$\sigma\_down$	0.0635	-	0.0815	0.1096	0.0817	0.1101				
Low,High	1.000, 1.005	-	0.995, 1.003	0.997, 0.998	0.995, 0.996	1.003, 1.006				
WCR_OS										
$\sigma$ _ $up$	0.0765	0.0000	0.0907	0.2352	0.2822	0.2252				
$\sigma\_down$	0.0633	0.0000	0.0377	0.3175	0.0537	0.0000				
$_{ m Low, High}$	1.001, 1.002	1.000, 1.000	0.998, 1.001	1.001, 1.001	1.003, 1.014	1.000, 1.016				
WCR_SS										
$\sigma$ _ $up$	0.0264	-	0.1028	0.1269	0.0123	0.0000				
$\sigma$ _ $down$	0.0481	-	0.0384	0.2111	0.1330	0.0000				
Low,High	0.998, 1.003	-	0.999, 1.003	0.999, 0.999	0.985, 0.999	1.000, 1.000				

	Table 16: <b>JER</b>								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Ztautau$			
$SR_{-}OS$									
$\sigma_{ extsf{-}}up$	0.0198	0.1438	0.2436	1.2157	0.9531	0.2240			
$\sigma_{-}down$	0.0198	0.1438	0.2436	1.2157	0.9531	0.2240			
Low,High	0.999, 0.999	1.007, 1.007	1.010, 1.010	1.014, 1.014	0.995, 0.995	0.999, 0.999			
SR_SS									
$\sigma_{ ext{-}}up$	0.0003	-	0.3930	0.5494	0.1473	0.2733			
$\sigma_{-}down$	0.0003	-	0.3930	0.5494	0.1473	0.2733			
Low,High	1.000, 1.000	-	1.016, 1.016	1.011, 1.011	0.993, 0.993	0.984, 0.984			
WCR_OS									
$\sigma_{ ext{-}}up$	0.2646	0.2255	0.2641	0.8102	1.0751	1.2699			
$\sigma$ _down	0.2646	0.2255	0.2641	0.8102	1.0751	1.2699			
Low,High	1.006, 1.006	1.040, 1.040	1.007, 1.007	1.003, 1.003	1.052, 1.052	1.088, 1.088			
WCR_SS									
$\sigma_{ ext{-}}up$	0.2040	-	0.3996	0.4115	0.0549	0.4051			
$\sigma_{-}down$	0.2040	-	0.3996	0.4115	0.0549	0.4051			
Low,High	0.988, 0.988	-	1.010, 1.010	0.997, 0.997	0.994, 0.994	0.912, 0.912			

Table 17: <b>JES_BJet</b>							
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$	
$SR_{-}OS$							
$\sigma$ _ $up$	0.3177	0.0162	0.1493	0.1538	0.4405	0.0632	
$\sigma$ _down	0.0831	0.0162	0.1493	0.1121	0.4447	0.0728	
Low,High	0.997, 1.010	0.999, 0.999	1.006, 1.006	1.001, 1.002	1.002, 1.002	1.000, 1.000	
SR_SS							
$\sigma_{ ext{-}}up$	0.1916	-	0.0715	0.0778	0.0829	0.1101	
$\sigma_{-}down$	0.0211	-	0.0465	0.1082	0.0829	0.1101	
Low,High	1.002, 1.014	-	1.002, 1.003	0.998, 0.998	0.996, 0.996	1.006, 1.006	
WCR_OS							
$\sigma_{ ext{-}}up$	0.2164	0.0000	0.0477	0.2810	0.0997	0.0000	
$\sigma_{-}down$	0.4731	0.0000	0.0477	0.2968	0.0997	0.0000	
Low,High	0.995, 1.010	1.000, 1.000	1.001, 1.001	1.001, 1.001	1.005, 1.005	1.000, 1.000	
WCR_SS							
$\sigma_{ extsf{-}}up$	0.1644	-	0.0086	0.1992	0.1329	0.0000	
$\sigma$ _down	0.0158	-	0.0086	0.1922	0.1329	0.0000	
Low,High	0.991, 1.001	-	1.000, 1.000	0.999, 0.999	0.985, 0.985	1.000, 1.000	

Table 18: <b>JES_Detector1</b>								
${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Z$ tautau			
0.2308	0.3220	0.1105	0.4862	0.3894	0.0562			
0.0387	0.0735	0.1016	0.2228	0.4344	0.0085			
0.999, 1.007	0.996, 1.017	0.996, 1.004	0.997, 1.006	1.002, 1.002	1.000, 1.000			
0.1267	-	0.2170	0.6955	0.0829	0.1101			
0.0321	-	0.0122	0.4777	0.1243	0.0528			
0.998, 1.009	-	1.000, 1.009	0.991, 1.014	0.994, 0.996	1.003, 1.006			
0.1888	0.0011	0.1435	0.0816	0.0516	0.0000			
0.3774	0.0000	0.0495	0.6263	0.2780	0.2554			
0.996, 1.008	1.000, 1.000	0.996, 1.001	1.000, 1.002	1.002, 1.013	1.000, 1.018			
0.1580	-	0.0088	0.3601	0.1329	0.0000			
0.1324	-	0.0430	0.0107	0.0332	0.0000			
0.991,1.008	_	1.000,1.001	0.998, 1.000	0.985,1.004	1.000,1.000			
	0.2308 0.0387 0.999,1.007 0.1267 0.0321 0.998,1.009 0.1888 0.3774 0.996,1.008	ttBar       Zltau         0.2308       0.3220         0.0387       0.0735         0.999,1.007       0.996,1.017         0.1267       -         0.0321       -         0.998,1.009       -         0.1888       0.0011         0.3774       0.0000         0.996,1.008       1.000,1.000         0.1580       -         0.1324       -	ttBar       Zltau       Zlljet         0.2308       0.3220       0.1105         0.0387       0.0735       0.1016         0.999,1.007       0.996,1.017       0.996,1.004         0.1267       -       0.2170         0.0321       -       0.0122         0.998,1.009       -       1.000,1.009         0.1888       0.0011       0.1435         0.3774       0.0000       0.0495         0.996,1.008       1.000,1.000       0.996,1.001         0.1580       -       0.0088         0.1324       -       0.0430	ttBar         Zltau         Zlljet         Wlnu           0.2308         0.3220         0.1105         0.4862           0.0387         0.0735         0.1016         0.2228           0.999,1.007         0.996,1.017         0.996,1.004         0.997,1.006           0.1267         -         0.2170         0.6955           0.0321         -         0.0122         0.4777           0.998,1.009         -         1.000,1.009         0.991,1.014           0.1888         0.0011         0.1435         0.0816           0.3774         0.0000         0.0495         0.6263           0.996,1.008         1.000,1.000         0.996,1.001         1.000,1.002           0.1580         -         0.0088         0.3601           0.1324         -         0.0430         0.0107	ttBar         Zltau         Zlljet         Wlnu         LH.Ztautau           0.2308         0.3220         0.1105         0.4862         0.3894           0.0387         0.0735         0.1016         0.2228         0.4344           0.999,1.007         0.996,1.017         0.996,1.004         0.997,1.006         1.002,1.002           0.1267         -         0.2170         0.6955         0.0829           0.0321         -         0.0122         0.4777         0.1243           0.998,1.009         -         1.000,1.009         0.991,1.014         0.994,0.996           0.3774         0.0000         0.0495         0.6263         0.2780           0.996,1.008         1.000,1.000         0.996,1.001         1.000,1.002         1.002,1.013           0.1580         -         0.0088         0.3601         0.1329           0.1324         -         0.0430         0.0107         0.0332			

Table 19: <b>JES_EtaMethod</b>							
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$	
$SR_{-}OS$							
$\sigma$ _ $up$	0.1443	0.0308	0.1209	0.3535	0.4018	0.0188	
$\sigma$ _ $down$	0.0232	0.0735	0.0738	0.1464	0.4667	0.0458	
Low,High	0.999, 1.004	0.996, 1.002	0.997, 1.005	0.998, 1.004	1.002, 1.002	1.000, 1.000	
SR_SS							
$\sigma_{ extsf{-}}up$	0.1347	-	0.1201	0.1069	0.0833	0.1101	
$\sigma$ _down	0.0467	-	0.0781	0.3955	0.0982	0.0528	
Low,High	0.997, 1.010	-	0.997, 1.005	0.992, 1.002	0.995, 0.996	1.003, 1.006	
WCR_OS							
$\sigma_{ ext{-}}up$	0.0793	0.0011	0.1308	0.0935	0.0997	0.0000	
$\sigma_{-}down$	0.1887	0.0000	0.0577	0.4825	0.1757	0.1293	
Low,High	0.998, 1.004	1.000, 1.000	0.997, 1.001	1.000, 1.002	1.005, 1.008	1.000, 1.009	
WCR_SS							
$\sigma_{ extsf{-}}up$	0.0180	-	0.0241	0.2801	0.1329	0.0000	
$\sigma$ _down	0.0368	-	0.0346	0.0938	0.1329	0.0000	
Low,High	1.001, 1.002	-	0.999, 1.001	0.998, 0.999	0.985, 0.985	1.000, 1.000	

Table 20: <b>JES_EtaModelling</b>								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Ztautau$		
$SR_{-}OS$								
$\sigma_{ ext{-}}up$	0.1989	0.0789	0.3409	1.1002	0.2166	0.2129		
$\sigma_{-}down$	0.0242	0.0746	0.3569	1.5470	0.4096	0.0705		
Low,High	0.999, 1.006	0.996, 1.004	0.986, 1.014	0.982, 1.013	1.001, 1.002	0.999, 1.000		
SR_SS								
$\sigma_{ ext{-}}up$	0.1463	-	0.2329	0.7909	0.0667	0.2272		
$\sigma$ _down	0.1530	-	0.0750	1.0883	0.1458	0.2364		
Low,High	0.989, 1.011	-	0.997, 1.009	0.978, 1.016	0.993, 0.997	0.986, 1.013		
WCR_OS								
$\sigma_{ ext{-}}up$	0.4798	0.0000	0.3669	0.6781	0.1680	0.3726		
$\sigma_{-}down$	0.7250	0.2133	0.1673	1.3898	0.2876	0.2881		
Low,High	0.990, 1.015	1.000, 1.038	0.991, 1.004	0.997, 1.005	1.008, 1.014	1.020, 1.026		
WCR_SS								
$\sigma_{ extsf{-}}up$	0.1057	-	0.0979	0.6441	0.1494	0.0797		
$\sigma_{-}down$	0.1787	-	0.2575	0.3420	0.0208	0.0000		
Low,High	0.994, 1.010	-	0.998, 1.007	0.996, 1.002	0.984, 0.998	1.000, 1.017		

	Table 21: <b>JES_FlavComp</b>							
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$		
$SR_{-}OS$								
$\sigma$ _ $up$	0.1603	0.6012	0.3673	1.7146	0.2945	0.1087		
$\sigma$ _down	0.0003	0.1308	0.1669	1.6712	0.2086	0.0483		
Low,High	1.000, 1.005	0.993, 1.031	0.993, 1.015	0.980, 1.020	1.001, 1.002	0.999, 1.000		
SR_SS								
$\sigma_{ extsf{-}}up$	0.1714	-	0.3249	1.3666	0.0413	0.3286		
$\sigma\_down$	0.0337	-	0.2064	1.5480	0.2198	0.1439		
Low,High	1.002, 1.013	-	0.992, 1.013	0.969, 1.027	0.989, 0.998	0.992, 1.019		
WCR_OS								
$\sigma$ _ $up$	0.2390	0.0011	0.4079	1.0154	0.2965	0.0106		
$\sigma\_down$	0.4714	0.2133	0.2236	1.7807	0.4101	0.4085		
Low,High	0.995, 1.010	1.000, 1.038	0.990, 1.006	0.996, 1.007	0.986, 1.020	1.001, 1.028		
WCR_SS								
$\sigma$ _ $up$	0.2328	-	0.1019	0.8743	0.2627	0.0000		
$\sigma$ _down	0.2320	-	0.3309	0.4662	0.1795	0.0000		
Low,High	0.987, 1.013	-	0.997, 1.008	0.994, 1.003	0.971, 1.020	1.000, 1.000		

Table 22: <b>JES_FlavResp</b>								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Ztautau$		
$SR\_OS$								
$\sigma_{ extsf{-}}up$	0.0873	0.3993	0.0766	1.0989	0.4129	0.1089		
$\sigma_{-}down$	0.0020	0.0643	0.1310	0.9519	0.3611	0.0310		
Low,High	1.000, 1.003	0.997, 1.021	0.995, 1.003	0.989, 1.013	1.002, 1.002	0.999, 1.000		
SRSS								
$\sigma_{ extsf{-}}up$	0.1251	-	0.2574	0.9830	0.0523	0.3286		
$\sigma$ _down	0.0691	-	0.1015	0.9248	0.1613	0.0573		
Low,High	1.005, 1.009	-	0.996, 1.010	0.982, 1.019	0.992, 0.997	0.997, 1.019		
WCR_OS								
$\sigma_{ extsf{-}}up$	0.1685	0.0011	0.2796	0.4378	0.1303	0.0590		
$\sigma$ _down	0.3218	0.1006	0.1180	1.1054	0.4955	0.4082		
Low,High	0.996, 1.007	1.000, 1.018	0.993, 1.003	0.998, 1.004	1.006, 1.024	1.004, 1.028		
WCR_SS								
$\sigma_{ extsf{-}}up$	0.1423	-	0.0314	0.6046	0.1329	0.0000		
$\sigma$ _down	0.1551	-	0.1905	0.2292	0.1795	0.0000		
Low,High	0.992, 1.009	-	0.999, 1.005	0.996, 1.002	0.985, 1.020	1.000, 1.000		

	Table 23: <b>JES_Modelling1</b>							
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$		
$SR_{-}OS$								
$\sigma$ _ $up$	0.5408	0.5673	0.2468	1.5296	0.2867	0.0937		
$\sigma$ _down	0.2256	0.0643	0.1608	1.3963	0.2301	0.0165		
Low,High	0.993, 1.016	0.997, 1.030	0.994, 1.010	0.984, 1.018	1.001, 1.002	0.999, 1.000		
SR_SS								
$\sigma$ _ $up$	0.2480	-	0.2847	1.2691	0.0867	0.3286		
$\sigma\_down$	0.1314	-	0.1865	1.3050	0.2328	0.1439		
Low,High	0.990, 1.018	-	0.993, 1.011	0.974, 1.025	0.988, 1.004	0.992, 1.019		
WCR_OS								
$\sigma$ _ $up$	0.5501	0.0011	0.3856	0.8549	0.0867	0.1316		
$\sigma$ _ $down$	0.8267	0.2133	0.1747	1.5147	0.4189	0.4085		
Low,High	0.988, 1.017	1.000, 1.038	0.990, 1.004	0.997, 1.006	0.996, 1.020	1.009, 1.028		
WCR_SS								
$\sigma$ _ $up$	0.2611	-	0.1116	0.7268	0.1329	0.0000		
$\sigma$ _ $down$	0.2126	-	0.2771	0.4257	0.1795	0.0000		
Low,High	0.985, 1.012	-	0.997, 1.007	0.995, 1.003	0.985, 1.020	1.000, 1.000		

Table 24: <b>JES_PUMu</b>							
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_Ztautau$	
$SR_{-}OS$							
$\sigma_{ extsf{-}}up$	0.0263	0.0162	0.0601	0.2400	0.3884	0.0116	
$\sigma_{-}down$	0.0685	0.0395	0.1500	0.0273	0.4768	0.1035	
Low,High	0.999, 1.002	0.998, 0.999	1.002, 1.006	1.000, 1.003	1.002, 1.003	1.000, 1.001	
SR_SS							
$\sigma_{ extsf{-}}up$	0.1434	-	0.0175	0.1043	0.0596	0.1101	
$\sigma$ _down	0.0625	-	0.0765	0.2334	0.0734	0.0583	
Low,High	0.995, 1.011	-	1.001, 1.003	0.995, 0.998	0.996, 0.997	1.003, 1.006	
WCR_OS							
$\sigma_{ ext{-}}up$	0.0059	0.0010	0.0072	0.2240	0.2204	0.1293	
$\sigma$ _down	0.1259	0.0000	0.0125	0.2882	0.0978	0.0244	
Low,High	1.000, 1.003	1.000, 1.000	1.000, 1.000	1.001, 1.001	1.005, 1.011	0.998, 1.009	
WCR_SS							
$\sigma_{ extsf{-}}up$	0.0224	-	0.0240	0.3050	0.1329	0.0000	
$\sigma_{-}down$	0.1034	-	0.0562	0.1659	0.1329	0.0000	
Low,High	0.999, 1.006	-	0.999, 1.001	0.998, 0.999	0.985, 0.985	1.000, 1.000	

Table 25: <b>JES_PUNPV</b>								
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$		
$SR_{-}OS$								
$\sigma$ _ $up$	0.0724	0.0314	0.0667	0.5472	0.2973	0.0706		
$\sigma$ _ $down$	0.0109	0.0593	0.0958	0.6700	0.4149	0.0935		
Low,High	1.000, 1.002	0.997, 1.002	0.996, 1.003	0.992, 1.006	1.002, 1.002	1.000, 1.001		
SRSS								
$\sigma_{ extsf{-}}up$	0.1649	-	0.0587	0.7644	0.0492	0.0073		
$\sigma_{-}down$	0.1213	-	0.0209	0.6022	0.0948	0.1156		
Low,High	0.991, 1.012	-	0.999, 1.002	0.988, 1.015	0.995, 1.002	1.000, 1.007		
WCR_OS								
$\sigma_{ extsf{-}}up$	0.0735	0.0000	0.0561	0.0090	0.2362	0.0302		
$\sigma_{-}down$	0.2740	0.1006	0.0141	0.6781	0.0792	0.1781		
Low,High	0.998, 1.006	1.000, 1.018	0.999, 1.000	1.000, 1.003	1.004, 1.011	1.002, 1.012		
WCR_SS								
$\sigma_{ ext{-}}up$	0.0034	-	0.0096	0.2400	0.1329	0.0000		
$\sigma$ _down	0.0604	-	0.0387	0.0717	0.1083	0.0000		
Low,High	1.000, 1.003	-	1.000, 1.001	0.998, 1.000	0.985, 0.988	1.000, 1.000		

Table 26: <b>JES_PURho</b>						
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_{-}Ztautau$
$SR_{-}OS$						
$\sigma_{ extsf{-}}up$	0.2084	0.3523	0.1293	0.7614	0.3235	0.1096
$\sigma_{-}down$	0.0641	0.0501	0.0665	0.9594	0.4036	0.0911
Low,High	0.998, 1.006	0.997, 1.018	0.997, 1.005	0.989, 1.009	1.002, 1.002	0.999, 1.001
SR_SS						
$\sigma_{ extsf{-}}up$	0.1406	-	0.1658	0.8351	0.0000	0.2214
$\sigma_{-}down$	0.1268	-	0.0935	0.6722	0.1609	0.0000
Low,High	0.991, 1.010	-	0.996, 1.007	0.987, 1.017	0.992, 1.000	1.000, 1.013
WCR_OS						
$\sigma_{ ext{-}}up$	0.1860	0.0011	0.2054	0.2617	0.1024	0.0314
$\sigma$ _ $down$	0.3643	0.1006	0.0750	0.7718	0.1908	0.1576
Low,High	0.996, 1.008	1.000, 1.018	0.995, 1.002	0.999, 1.003	1.005, 1.009	0.998, 1.011
WCR_SS						
$\sigma_{ extsf{-}}up$	0.0587	-	0.0154	0.4266	0.1329	0.0000
$\sigma_{-}down$	0.0575	-	0.1254	0.0481	0.1083	0.0000
Low,High	0.997, 1.003	-	1.000, 1.003	0.997, 1.000	0.985, 0.988	1.000, 1.000

	Ta	able 27: $\mathbf{JES}_{-}$				
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_Ztautau$
$SR_{-}OS$						
$\sigma_{ ext{-}}up$	0.1233	0.3220	0.0934	0.2779	0.3932	0.0036
$\sigma$ _down	0.0525	0.0593	0.0313	0.0449	0.4790	0.0072
Low,High	0.998, 1.004	0.997, 1.017	0.999, 1.004	0.999, 1.003	1.002, 1.003	1.000, 1.000
SR_SS						
$\sigma_{ ext{-}}up$	0.1487	-	0.1201	0.0284	0.0582	0.1101
$\sigma$ _down	0.0176	-	0.0781	0.3662	0.0982	0.1101
Low,High	0.999, 1.011	-	0.997, 1.005	0.993, 0.999	0.995, 0.997	1.006, 1.006
WCR_OS						
$\sigma_{ ext{-}}up$	0.0565	0.0000	0.0862	0.0835	0.0997	0.0000
$\sigma$ _ $down$	0.1598	0.0000	0.0318	0.4565	0.1757	0.1040
Low,High	0.999, 1.003	1.000, 1.000	0.998, 1.001	1.000, 1.002	1.005, 1.008	0.993, 1.000
WCR_SS						
$\sigma_{ ext{-}}up$	0.0470	-	0.0241	0.2616	0.1329	0.0000
$\sigma$ _down	0.0102	-	0.0367	0.1599	0.1329	0.0000
Low,High	1.001, 1.003	-	0.999, 1.001	0.998, 0.999	0.985, 0.985	1.000, 1.000

Table 28: JVF						
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$\mathrm{RH}_{ ext{-}}\mathrm{Ztautau}$
$SR_{-}OS$						
$\sigma_{ extsf{-}}up$	0.0040	0.0162	0.1493	0.1488	0.4447	0.0633
$\sigma_{-}down$	0.0040	0.0162	0.1493	0.1488	0.4447	0.0633
Low,High	1.000, 1.000	0.999, 0.999	1.006, 1.006	1.002, 1.002	1.002, 1.002	1.000, 1.000
SR_SS						
$\sigma_{ ext{-}}up$	0.0392	-	0.0465	0.1082	0.0829	0.1101
$\sigma$ _down	0.0392	-	0.0465	0.1082	0.0829	0.1101
Low,High	1.003, 1.003	-	1.002, 1.002	0.998, 0.998	0.996, 0.996	1.006, 1.006
WCR_OS						
$\sigma_{ extsf{-}}up$	0.0753	0.0000	0.0477	0.2815	0.0997	0.0000
$\sigma_{-}down$	0.0753	0.0000	0.0477	0.2815	0.0997	0.0000
Low,High	1.002, 1.002	1.000, 1.000	1.001, 1.001	1.001, 1.001	1.005, 1.005	1.000, 1.000
WCR_SS						
$\sigma_{ extsf{-}}up$	0.0210	-	0.0086	0.1992	0.1329	0.0000
$\sigma_{-}down$	0.0210	-	0.0086	0.1992	0.1329	0.0000
Low,High	1.001, 1.001	-	1.000, 1.000	0.999, 0.999	0.985, 0.985	1.000, 1.000

Table 29: METResSys						
	$\operatorname{ttBar}$	Zltau	Zlljet	Wlnu	$LH_Ztautau$	$RH_{-}Ztautau$
$SR_{-}OS$						
$\sigma$ _ $up$	0.1948	0.3237	0.0367	0.1379	0.4739	0.1223
$\sigma\_down$	0.0588	0.3516	0.1944	0.0535	0.3108	0.3421
Low,High	0.998, 1.006	0.983, 1.018	0.999, 1.008	0.999, 1.002	1.002, 1.002	0.998, 1.001
SR_SS						
$\sigma$ _ $up$	0.0563	-	0.0400	0.2123	0.0618	0.0592
$\sigma$ _ $down$	0.1283	-	0.0515	0.4201	0.2377	0.0610
Low,High	1.004, 1.010	-	1.002, 1.002	0.992, 0.996	0.988, 0.997	0.997, 1.004
WCR_OS						
$\sigma$ _ $up$	0.1331	0.0346	0.0501	0.2933	0.3236	0.0468
$\sigma$ _down	0.1354	0.1352	0.0663	0.2798	0.1103	0.1453
Low,High	1.003, 1.003	0.976, 0.994	0.998, 1.001	1.001, 1.001	1.005, 1.016	0.997, 1.010
WCR_SS						
$\sigma_{ extsf{-}}up$	0.0129	-	0.1712	0.0380	0.1671	0.2241
$\sigma\_down$	0.0429	-	0.0679	0.1144	0.1073	0.0000
Low,High	0.998, 1.001	-	1.002, 1.004	0.999, 1.000	0.982, 1.012	0.951, 1.000

Table 30: METScaleSys						
	${ m ttBar}$	Zltau	Zlljet	Wlnu	$LH_{-}Ztautau$	$RH_{-}Ztautau$
$SR_{-}OS$						
$\sigma$ _ $up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
$\sigma\_down$	0.1219	0.1768	0.1296	0.3227	0.8787	0.2146
Low,High	1.000, 1.004	1.000, 1.009	1.000, 1.005	1.000, 1.004	1.000, 1.005	1.000, 1.001
SR_SS						
$\sigma_{ extsf{-}}up$	0.0000	-	0.0000	0.0000	0.0000	0.0000
$\sigma$ _down	0.0883	-	0.0732	0.1074	0.0545	0.0528
Low,High	1.000, 1.007	-	0.997, 1.000	0.998, 1.000	0.997, 1.000	1.000, 1.003
WCR_OS						
$\sigma_{ extsf{-}}up$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
$\sigma$ _ $down$	0.1425	0.0000	0.0601	0.3615	0.3573	0.3959
Low,High	1.000, 1.003	1.000, 1.000	1.000, 1.002	1.000, 1.001	1.000, 1.017	1.000, 1.028
WCR_SS						
$\sigma_{ ext{-}}up$	0.0000	-	0.0000	0.0000	0.0000	0.0000
$\sigma$ _down	0.0211	-	0.0146	0.3391	0.1083	0.0000
Low,High	1.000, 1.001	-	1.000, 1.000	0.998, 1.000	0.988, 1.000	1.000, 1.000