Process	Condition	b	c	Taggable	quark	g	Jets	e or μ	MET	γ	QCD	W+jets	Z+jets	DY	WW	WZ	tt-bar
$\rho_T^+ \rightarrow \pi_T^+\pi_T^0$	$2M(\pi_T) < M(\rho_T)$	XXX	X	XXXX							1		2				
$\rho_T^+ \rightarrow \pi_T^+\pi_T^0$	$2M(\pi_T) < M(\rho_T)$	X	X	XX		XX	XX				1						
$\rho_T^+ \rightarrow W^+ Z$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$	XX		XX	XX		XX				1		2			3	
$\rho_T^+ \rightarrow W^+ Z$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$							XXX	X							1	
$\rho_T^+ \rightarrow W^+ Z$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$				XX		XX	XX			2		1			3	
$\rho_T^+ \rightarrow W^+ Z$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$				XX		XX	X	X		2	1			3		
$\rho_T^+ \rightarrow W^+ Z$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$				XXXX		XXXX				1	2	3				
$\rho_T^+ \rightarrow W^+ Z$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$				XX		XX		X		1	2	3				
$\rho_T^+ \rightarrow W^+\pi_T^0$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	XX		XX				X	X			1					2
$\rho_T^+ \rightarrow W^+\pi_T^0$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	XX		XX	XX		XX				1		2				
$\rho_T^+ \rightarrow W^+\pi_T^0$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$					XX	XX	X	X		2	1					
$\rho_T^+ \rightarrow W^+\pi_T^0$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$				XX	XX	XXXX				1						
$\rho_T^+ \rightarrow Z\pi_T^+$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	XXX	X	XXXX							1		2				
$\rho_T^+ \rightarrow Z\pi_T^+$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	X	X	XX				XX			2		1				
$\rho_T^+ \rightarrow Z\pi_T^+$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	X	X	XX	XX		XX				1	2	3				
$\rho_T^0 \rightarrow b\bar{b}$	$M(\rho_T) < 2M(\pi_T)$	XX		XX							1						
$\rho_T^0 \rightarrow l^+l^-$	$M(\rho_T) < 2M(\pi_T)$							XX			2			1			
$\rho_T^0 \rightarrow \pi_T^+\pi_T^-$	$2M(\pi_T) < M(\rho_T)$	XX	XX	XXXX							1		2				
$\rho_T^0 \rightarrow W^+ W^-$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$							XX	X			3		2	1		
$\rho_T^0 \rightarrow W^+ W^-$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$				XX		XX	X	X		2	1			3		
$\rho_T^0 \rightarrow W^+ W^-$	$M(W)+M(Z) < M(\rho_T) < M(W)+M(\pi_T)$				XXXX		XXXX				1						
$\rho_T^0 \rightarrow W^-\pi_T^+$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	X	X	XX				X	X			1					2
$\rho_T^0 \rightarrow W^-\pi_T^+$	$M(W)+M(Z) < M(\rho_T) < 2M(\pi_T)$	X	X	XX	XX		XX				1	2	3				
$\omega_T \rightarrow b\bar{b}$	$M(\omega_T) < 3M(\pi_T)$	XX		XX							1						
$\omega_T \rightarrow \pi\gamma_T^0$	$M(\omega_T) < 3M(\pi_T)$	XX		XX						X	1						
$\omega_T \rightarrow \pi\gamma_T^0$	$M(\omega_T) < 3M(\pi_T)$					XX	XX			X	1						
$\omega_T \rightarrow l^+l^-$	$M(\omega_T) < 3M(\pi_T)$							XX			2			1			
$\omega_T \rightarrow \pi_T^0\pi_T^+\pi_T^-$	$3M(\pi_T) < M(\omega_T)$	XXXX	XX	XXXXXX							1						
$\omega_T \rightarrow Z\pi_T^0$	$M(\pi_T)+M(Z) < M(\omega_T) < 3M(\pi_T)$	XXXX		XXXX							1		2				
$\omega_T \rightarrow Z\pi_T^0$	$M(\pi_T)+M(Z) < M(\omega_T) < 3M(\pi_T)$	XX		XX				XX			2		1				
$\omega_T \rightarrow Z\pi_T^0$	$M(\pi_T)+M(Z) < M(\omega_T) < 3M(\pi_T)$	XX		XX	XX		XX				1		2				
$\omega_T \rightarrow Z\pi_T^0$	$M(\pi_T)+M(Z) < M(\omega_T) < 3M(\pi_T)$	XX		XX					X			2	3				1
$\omega_T \rightarrow Z\pi_T^0$	$M(\pi_T)+M(Z) < M(\omega_T) < 3M(\pi_T)$					XX	XX	XX			2		1				
$\omega_T \rightarrow Z\pi_T^0$	$M(\pi_T)+M(Z) < M(\omega_T) < 3M(\pi_T)$					XX	XX		X		1	2	3				

Theoretical Reference	Experimental	References
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	CDF chargino-neutralino search	D0 chargino-neutralino search
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	CDF WZ(lljj) search	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	D0 WW/WZ(evjj) search	CDF WW/WZ(lvjj) search
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	D0 stop search	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PRL **80** (1998) 5489	R.Harris, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PRL **80** (1998) 5489	D0 Z' search	CDF Z' search
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	CDF WW(llvv) search	D0 WW(llvv) search
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	D0 WW/WZ(evjj) search	CDF WW/WZ(lvjj) search
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B405** (1997) 305	K.Maeshima, T.Handa, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PRL **80** (1998) 5489	R.Harris, Aspen 98	
E.Eichten, K.Lane, J.Womersley, PL **B**405 (1997) 305	CDF bb-bar+gamma analysis	
E.Eichten, K.Lane, J.Womersley, PL **B**405 (1997) 305	None	
E.Eichten, K.Lane, J.Womersley, PRL **80** (1998) 5489	D0 Z' search	CDF Z' search
None	None	
None	None	
None	None	
None	None	
None	D0 LQ3 search	
None	CDF Z+n jets study	
None	D0 stop search	

Run I Mass Limits (TeV) @ 95% C.L.	Run II Mass Reach (TeV)
cs limit ~ 0.1nb (not sensitive to the theory)	
cs limit ~ 0.1nb (not sensitive to the theory)	
0.17 < M < 0.20 (for $M_\pi \approx M_\rho/2$, see Ref.)	$M(\rho_T)$ = 0.21, $M(\pi_T)$ = 0.115 (discovery)
cs limit ~ 0.1nb (not sensitive to the theory)	
cs limit ~ 0.1nb (not sensitive to the theory)	
cs limit ~ 0.1nb (not sensitive to the theory)	
cs limit ~ 0.1nb (not sensitive to the theory)	
0.17 < M < 0.20 (for $M_\pi \approx M_\rho/2$ see Ref)	
cs limit ~ 0.1nb (not sensitive to the theory)	
0.175 < M < 0.275 (for $0.04<M(\pi_T)<0.1$, see Ref.)	$M(\omega_T)$=0.21, $M(\pi_T)$=0.11 (discovery)

Process	Condition	b	c	Taggable	quark	g	Jets	t	τ	MET	QCD	W+jets	Z+jets	tt-bar
$\rho_{T8}^{0} \rightarrow qq$	$M(\rho_{T8}) < 2M(\pi_{T8})$				XX		XX				1			
$\rho_{T8}^{0} \rightarrow gg$	$M(\rho_{T8}) < 2M(\pi_{T8})$					XX	XX				1			
$\rho_{T8}^{0} \rightarrow bb$	$M(\rho_{T8}) < 2M(\pi_{T8})$	XX		XX							1			
$\rho_{T8}^{0} \rightarrow \pi_{T8}^{0}\pi_{T8}^{0}$	$2M(\pi_{T8}) < M(\rho_{T8})$	XX		XX		XX	XX				1		2	
$\rho_{T8}^{0} \rightarrow \pi_{T8}^{0}\pi_{T8}^{0}$	$2M(\pi_{T8}) < M(\rho_{T8})$	XXXX		XXXX							1		2	
$\rho_{T8}^{0} \rightarrow \pi_{T8}^{0}\pi_{T8}^{0}$	$2M(\pi_{T8}) < M(\rho_{T8})$					XXXX	XXXX				1			
$\rho_{T8}^{0} \rightarrow \pi_{T8}^{+}\pi_{T8}^{-}$	$2M(\pi_{T8}) < M(\rho_{T8})$	XX	XX	XXXX							1		2	
$\rho_{T8}^{0} \rightarrow \pi_{LQ}\pi_{LQ}$	$2M(\pi_{LQ}) < M(\rho_{T8})$							XX	XX					1
$\rho_{T8}^{0} \rightarrow \pi_{LQ}\pi_{LQ}$	$2M(\pi_{LQ}) < M(\rho_{T8})$							XX		X				1
$\rho_{T8}^{0} \rightarrow \pi_{LQ}\pi_{LQ}$	$2M(\pi_{LQ}) < M(\rho_{T8})$	XX		XX						X		2	3	1
$\rho_{T8}^{0} \rightarrow \pi_{LQ}\pi_{LQ}$	$2M(\pi_{LQ}) < M(\rho_{T8})$		XX	XX						X		2	3	1
$\rho_{T8}^{0} \rightarrow \pi_{LQ}\pi_{LQ}$	$2M(\pi_{LQ}) < M(\rho_{T8})$	XX		XX					XX		1		2	3
$\rho_{T8}^{0} \rightarrow \pi_{LQ}\pi_{LQ}$	$2M(\pi_{LQ}) < M(\rho_{T8})$		XX	XX					XX		1		2	3

Theoretical Reference	Experimental Reference	
E.Eichten, K.Lane, M.V.Ramana	CDF Dijet Mass Spectrum Analysis	D0 Dijet Mass Spectrum Analysis
E.Eichten, K.Lane, M.V.Ramana	CDF Dijet Mass Spectrum Analysis	D0 Dijet Mass Spectrum Analysis
E.Eichten, K.Lane, M.V.Ramana	R.Harris, Aspen 98	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	D0 LQ3 search	
E.Eichten, K.Lane, M.V.Ramana	None	
E.Eichten, K.Lane, M.V.Ramana	CDF LQ3 search	
E.Eichten, K.Lane, M.V.Ramana	None	

Run I Mass Limits (TeV) @ 95% C.L.	Run II Mass Reach (TeV)
0.26 < M < 0.48 (excluded)	0.77 @ 95% C.L.
0.26 < M < 0.48 (excluded)	0.77 @ 95% C.L.
0.35 < M < 0.44 (excluded)	
0.20 < M(ρ_T) < 0.45 (excluded, see Ref)	

Process	Condition	b	t	QCD	tt-bar	Theoretical Reference	Experimental Reference
$Z' \rightarrow tt$	M(Z') ~ 3 TeV		XX		1	Bonini, Chivikula, Cohen, Lane, Simmons, Su, Popovic	None
$Z' \rightarrow bb$	M(Z') ~ 3 TeV	XX		1		Bonini, Chivikula, Cohen, Lane, Simmons, Su, Popovic	R.Harris, Aspen 98
V_8^0 corr. to t	15% increase in c.s.		X				None
$V_8^0 \rightarrow tt$			XX		1	C.T.Hill, K.Lane, S.J.Parke	None
$V_8^0 \rightarrow bb$		XX		1		C.T.Hill, K.Lane, S.J.Parke	R.Harris, Aspen 98
$tb\pi_t^{\pm} \rightarrow ttbb$	$M(\pi_t) > M(t)$	XX			1		None
$bbh_b^0 \rightarrow bbbb$	$M(\pi_t) > M(t)$	XXXX		1		C.Balazs, J.Diaz-Cruz, H.-J.He, T.Tait, C.-P.Yuan	None

Run I Mass Limits (TeV) @ 95% C.L.	Run II Mass Reach (TeV)
	0.92 (for narrow Z'), 5σ
	0.97-1.11 (same Γ/M), 5σ
0.54-0.63 (for Γ/M=0.7-0.3)	0.77-0.95 (same Γ/M), 5σ