1 By process

1.1 $HH \to HH$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.453	0.453	0	0.2358	0.2358	0
sm	0	0	0	0.2176	0.2176	0

1.2 $HH \to HHH$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$-3.401 \cdot 10^{-6}$	$-3.401 \cdot 10^{-6}$	0	$4.311 \cdot 10^{-6}$	$4.311 \cdot 10^{-6}$	0
sm	0	0	0	$6.706 \cdot 10^{-7}$	$6.706 \cdot 10^{-7}$	0

1.3 $HH \to Ht\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$-3.386 \cdot 10^{-5}$	$-3.386 \cdot 10^{-5}$	0	$1.442 \cdot 10^{-5}$	$1.442 \cdot 10^{-5}$	0
sm	0	0	0	$2.04 \cdot 10^{-5}$	$2.04 \cdot 10^{-5}$	0

1.4 $HH \to Hzz$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$-3.281 \cdot 10^{-6}$	$-3.281 \cdot 10^{-6}$	0	$2.036 \cdot 10^{-6}$	$2.036 \cdot 10^{-6}$	0

| sm | 0 | 0 | 0 | $6.086 \cdot 10^{-6}$ | $6.086 \cdot 10^{-6}$ | 0 |

1.5 $HH \to W^+W^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	-0.05857	-0.05857	0	4.015	4.015	0
sm	0	0	0	0.08983	0.08983	0

1.6 $HH \to W^+W^-\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	-0.000307	-0.000307	0	0.0001582	0.0001582	0
sm	0	0	0	0.0001726	0.0001726	0

1.7 $HH \to W^+\bar{t}b$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$-8.628 \cdot 10^{-6}$	$-8.628 \cdot 10^{-6}$	0	$4.214 \cdot 10^{-5}$	$4.214 \cdot 10^{-5}$	0
cdp	$-7.757 \cdot 10^{-6}$	$-7.757 \cdot 10^{-6}$	0	$2.07 \cdot 10^{-5}$	$2.07 \cdot 10^{-5}$	0
ctW	$-1.068 \cdot 10^{-5}$	$-1.068 \cdot 10^{-5}$	0	$1.831 \cdot 10^{-5}$	$1.831 \cdot 10^{-5}$	0
sm	0	0	0	$1.087 \cdot 10^{-5}$	$1.087 \cdot 10^{-5}$	0

1.8 $HH \to W^+e^-\bar{\nu}_e$

interference	square

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$1.42 \cdot 10^{-9}$	$1.42 \cdot 10^{-9}$	0	$2.133 \cdot 10^{-8}$	$2.133 \cdot 10^{-8}$	0
sm	0	0	0	$1.445 \cdot 10^{-7}$	$1.445 \cdot 10^{-7}$	0

1.9 $HH \to W^- u\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$5.795 \cdot 10^{-8}$	$5.795 \cdot 10^{-8}$	0	$7.165 \cdot 10^{-8}$	$7.165 \cdot 10^{-8}$	0
sm	0	0	0	$2.866 \cdot 10^{-7}$	$2.866 \cdot 10^{-7}$	0

1.10 $HH \to z\bar{b}b$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$1.418 \cdot 10^{-6}$	$1.418 \cdot 10^{-6}$	0	$2.275 \cdot 10^{-7}$	$2.275 \cdot 10^{-7}$	0
cdp	$-4.294 \cdot 10^{-6}$	$-4.294 \cdot 10^{-6}$	0	$7.909 \cdot 10^{-6}$	$7.909 \cdot 10^{-6}$	0
sm	0	0	0	$2.285 \cdot 10^{-6}$	$2.285 \cdot 10^{-6}$	0

1.11 $HH \to z\nu_e\bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	-0.02912	-0.02912	0	0.0144	0.0144	0
sm	0	0	0	0.01538	0.01538	0

1.12 $HH \to zc\bar{c}$

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	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$7.587 \cdot 10^{-9}$	$7.587 \cdot 10^{-9}$	0	$2.665 \cdot 10^{-8}$	$2.665 \cdot 10^{-8}$	0
sm	0	0	0	$6.035 \cdot 10^{-8}$	$6.035 \cdot 10^{-8}$	0

1.13 $HH \to zd\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$1.194 \cdot 10^{-7}$	$1.194 \cdot 10^{-7}$	0	$9.483 \cdot 10^{-9}$	$9.483 \cdot 10^{-9}$	0
sm	0	0	0	$7.249 \cdot 10^{-7}$	$7.249 \cdot 10^{-7}$	0

1.14 $HH \to ze^+e^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$5.719 \cdot 10^{-9}$	$5.719 \cdot 10^{-9}$	0	$1.026 \cdot 10^{-8}$	$1.026 \cdot 10^{-8}$	0
sm	0	0	0	$9.441 \cdot 10^{-8}$	$9.441 \cdot 10^{-8}$	0

1.15 $HH \to zt\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$-9.046 \cdot 10^{-5}$	$-9.046 \cdot 10^{-5}$	0	$5.723 \cdot 10^{-5}$	$5.723 \cdot 10^{-5}$	0
cdp	$7.449 \cdot 10^{-5}$	$7.449 \cdot 10^{-5}$	0	$3.011 \cdot 10^{-5}$	$3.011 \cdot 10^{-5}$	0
ctW	$4.308 \cdot 10^{-6}$	$4.308 \cdot 10^{-6}$	0	$2.588 \cdot 10^{-5}$	$2.588 \cdot 10^{-5}$	0
sm	0	0	0	0.0001392	0.0001392	0

1.16 $HH \to zz$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	-0.122	-0.122	0	1.981	1.981	0
sm	0	0	0	0.07796	0.07796	0

1.17 $HW^+ \to \gamma t\bar{b}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$-3.199 \cdot 10^{-6}$	$-3.199 \cdot 10^{-6}$	0	$1.256 \cdot 10^{-6}$	$1.256 \cdot 10^{-6}$	0
cdp	$7.338 \cdot 10^{-7}$	$7.338 \cdot 10^{-7}$	0	$2.224 \cdot 10^{-8}$	$2.224 \cdot 10^{-8}$	0
ctW	$1.309 \cdot 10^{-6}$	$1.309 \cdot 10^{-6}$	0	$8.538 \cdot 10^{-6}$	$8.538 \cdot 10^{-6}$	0
sm	0	0	0	$6.052 \cdot 10^{-6}$	$6.052 \cdot 10^{-6}$	0

1.18 $HW^+ \to \gamma u\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$2.271 \cdot 10^{-9}$	$2.271 \cdot 10^{-9}$	0	$6.885 \cdot 10^{-11}$	$6.885 \cdot 10^{-11}$	0
sm	0	0	0	$1.873 \cdot 10^{-8}$	$1.873 \cdot 10^{-8}$	0

1.19 $HW^+ \to u\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.002726	0.002726	0	$8.262 \cdot 10^{-5}$	$8.262 \cdot 10^{-5}$	0
sm	0	0	0	0.02248	0.02248	0

1.20 $HW^- \to \bar{t}b$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	-1.275	-1.275	0	1.925	1.925	0
cdp	0.04747	0.04747	0	0.001439	0.001439	0
ctW	-0.2682	-0.2682	0	2.274	2.274	0
sm	0	0	0	0.3915	0.3915	0

1.21 $HW^- \to \gamma e^- \bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	$3.209 \cdot 10^{-9}$	$3.209 \cdot 10^{-9}$	0	$9.728 \cdot 10^{-11}$	$9.728 \cdot 10^{-11}$	0
sm	0	0	0	$2.647 \cdot 10^{-8}$	$2.647 \cdot 10^{-8}$	0

1.22 $HW^- \to \mu^- \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.00079	0.00079	0	$2.395 \cdot 10^{-5}$	$2.395 \cdot 10^{-5}$	0
sm	0	0	0	0.006515	0.006515	0

1.23 $H\gamma \to t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.06094	0.06094	0	0.001847	0.001847	0

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
ctW	-0.1749	-0.1749	0	0.7105	0.7105	0
sm	0	0	0	0.5026	0.5026	0

1.24 $Hz \to \mu^+\mu^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.0003878	0.0003878	0	$1.175 \cdot 10^{-5}$	$1.175 \cdot 10^{-5}$	0
sm	0	0	0	0.003198	0.003198	0

1.25 $Hz \to \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.0007285	0.0007285	0	$2.208 \cdot 10^{-5}$	$2.208 \cdot 10^{-5}$	0
sm	0	0	0	0.006008	0.006008	0

1.26 $Hz \to b\bar{b}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	0.04519	0.04519	0	0.1994	0.1994	0
cdp	0.0003211	0.0003211	0	$9.734 \cdot 10^{-6}$	$9.734 \cdot 10^{-6}$	0
sm	0	0	0	0.002648	0.002648	0

1.27 $Hz \to s\bar{s}$

interference   square

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.001547	0.001547	0		$4.689 \cdot 10^{-5}$	$4.689 \cdot 10^{-5}$	0
sm	0	0	0		0.01276	0.01276	0

1.28 $Hz \to t\bar{t}$

	interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	-2.071	-2.071	0		1.451	1.451	0
cdp	0.2199	0.2199	0		0.006665	0.006665	0
ctW	-0.03366	-0.03366	0		2.847	2.847	0
sm	0	0	0		1.813	1.813	0

1.29 $Hz \to u\bar{u}$

	interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.00017	0.00017	0		$5.154 \cdot 10^{-6}$	$5.154 \cdot 10^{-6}$	0
sm	0	0	0		0.001402	0.001402	0

1.30 $W^+W^- \to Hb\bar{b}$

	interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$-4.334 \cdot 10^{-6}$	$-4.334 \cdot 10^{-6}$	0		$3.123 \cdot 10^{-6}$	$3.123 \cdot 10^{-6}$	0
cdp	$5.899 \cdot 10^{-7}$	$5.899 \cdot 10^{-7}$	0		$1.788 \cdot 10^{-8}$	$1.788 \cdot 10^{-8}$	0
ctW	$3.259 \cdot 10^{-6}$	$3.259 \cdot 10^{-6}$	0		$8.764 \cdot 10^{-6}$	$8.764 \cdot 10^{-6}$	0
sm	0	0	0		$4.866 \cdot 10^{-6}$	$4.866 \cdot 10^{-6}$	0

1.31 $W^+W^- \to Hc\bar{c}$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
cdp	$2.714 \cdot 10^{-6}$	$2.714 \cdot 10^{-6}$	0	$8.226 \cdot 10^{-8}$	$8.226 \cdot 10^{-8}$	0
sm	0	0	0	$2.238 \cdot 10^{-5}$	$2.238 \cdot 10^{-5}$	0

1.32 $W^+W^- \to Hd\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
cdp	$4.353 \cdot 10^{-5}$	$4.353 \cdot 10^{-5}$	0	$1.319 \cdot 10^{-6}$	$1.319 \cdot 10^{-6}$	0
sm	0	0	0	0.000359	0.000359	0

1.33 $W^+W^- \to Ht\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
c3pQ3	$5.428 \cdot 10^{-5}$	$5.428 \cdot 10^{-5}$	0	$2.369 \cdot 10^{-5}$	$2.369 \cdot 10^{-5}$	0
cdp	$1.03 \cdot 10^{-5}$	$1.03 \cdot 10^{-5}$	0	$1.07 \cdot 10^{-5}$	$1.07 \cdot 10^{-5}$	0
ctW	$-3.606 \cdot 10^{-6}$	$-3.606 \cdot 10^{-6}$	0	$5.456 \cdot 10^{-5}$	$5.456 \cdot 10^{-5}$	0
sm	0	0	0	$9.632 \cdot 10^{-5}$	$9.632 \cdot 10^{-5}$	0

1.34 $W^+W^- \to W^+W^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
cdp	-0.04625	-0.04625	0	0.01613	0.01613	0
sm	0	0	0	4.768	4.768	0

1.35 $W^+W^- \to \gamma\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
sm	0	0	0	0.2091	0.2091	0

1.36 $W^+W^- \to \gamma\gamma\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
sm	0	0	0	$1.583 \cdot 10^{-6}$	$1.583 \cdot 10^{-6}$	0

1.37 $\bar{b}t \to \bar{d}u$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
c3pQ3	$6.766 \cdot 10^{-5}$	$6.766 \cdot 10^{-5}$	0	$2.051 \cdot 10^{-6}$	$2.051 \cdot 10^{-6}$	0
ctW	0.001639	0.001639	0	0.004626	0.004626	0
sm	0	0	0	0.000558	0.000558	0

1.38 $\gamma W^+ \to zW^+$

	interference			square		
	mod1	mod2	$1 - \text{mod2/mod1}$	mod1	mod2	$1 - \text{mod2/mod1}$
sm	0	0	0	0.1702	0.1702	0

1.39 $\mu^+\mu^- \to \tau^+\tau^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.00684	0.00684	0

1.40 $\nu_\tau \bar{\nu}_\tau \to \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$3.181 \cdot 10^{-6}$	$3.181 \cdot 10^{-6}$	0

1.41 $\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.007679	0.007679	0

1.42 $b\bar{b} \to \gamma\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.0001017	0.0001017	0

1.43 $b\bar{b} \to \mu^+\mu^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	0.0001386	0.0001386	0	$3.633 \cdot 10^{-6}$	$3.633 \cdot 10^{-6}$	0
sm	0	0	0	0.001732	0.001732	0

1.44 $b\bar{b} \to \nu_e\bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$5.127 \cdot 10^{-5}$	$5.127 \cdot 10^{-5}$	0	$1.841 \cdot 10^{-6}$	$1.841 \cdot 10^{-6}$	0
sm	0	0	0	0.0004371	0.0004371	0

1.45 $b\bar{b} \to b\bar{b}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$3.995 \cdot 10^{-5}$	$3.995 \cdot 10^{-5}$	0	$6.986 \cdot 10^{-6}$	$6.986 \cdot 10^{-6}$	0
cQd1	0.001497	0.001497	0	3.874	3.874	0
sm	0	0	0	1.957	1.957	0

1.46 $b\bar{b} \to d\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	0.0003411	0.0003411	0	$1.134 \cdot 10^{-5}$	$1.134 \cdot 10^{-5}$	0
cQd1	-0.004158	-0.004158	0	0.2858	0.2858	0
cQq81	0.2852	0.2852	0	0.1925	0.1925	0
sm	0	0	0	0.4928	0.4928	0

1.47 $b\bar{b} \to t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
c3pQ3	0.07318	0.07318	0	0.01053	0.01053	0
cQd1	-0.002867	-0.002867	0	0.08411	0.08411	0
cQt8	-0.08282	-0.08282	0	0.01869	0.01869	0
ctW	-0.1343	-0.1343	0	0.2216	0.2216	0
ctd1	-0.02917	-0.02917	0	0.5037	0.5037	0
ctd8	0.3511	0.3511	0	0.1119	0.1119	0
sm	0	0	0	0.5188	0.5188	0

1.48 $b\bar{b} \to u\bar{u}$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
c3pQ3	0.0005932	0.0005932	0	$1.716 \cdot 10^{-5}$	$1.716 \cdot 10^{-5}$	0
cQq81	0.6547	0.6547	0	0.4419	0.4419	0
cQu1	0.002531	0.002531	0	0.08699	0.08699	0
sm	0	0	0	0.5755	0.5755	0

1.49 $b\bar{t} \to e^{-}\bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
c3pQ3	0.0001125	0.0001125	0	$3.409 \cdot 10^{-6}$	$3.409 \cdot 10^{-6}$	0
ctW	0.001314	0.001314	0	0.003153	0.003153	0
sm	0	0	0	0.0009276	0.0009276	0

1.50 $c\bar{c} \to \mu^{+}\mu^{-}$

interference	square

	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$		mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
sm	0	0	0		0.002079	0.002079	0

1.51 $c\bar{s} \rightarrow \tau^+ \nu_\tau$

	interference				square		
	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$		mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
sm	0	0	0		0.0002101	0.0002101	0

1.52 $d\bar{d} \rightarrow c\bar{c}$

	interference				square		
	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$		mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
sm	0	0	0		0.9083	0.9083	0

1.53 $d\bar{d} \rightarrow e^+ e^-$

	interference				square		
	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$		mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
sm	0	0	0		0.0002884	0.0002884	0

1.54 $e^+ \nu_\mu \rightarrow e^+ \nu_\mu$

	interference				square		
	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$		mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
sm	0	0	0		0.01434	0.01434	0

1.55 $e^+\nu_e \to \mu^+\nu_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.01543	0.01543	0

1.56 $e^+\nu_e \to e^+\nu_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.1081	0.1081	0

1.57 $e^+\tau^- \to e^+\tau^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.05483	0.05483	0

1.58 $e^+e^- \to \mu^+\mu^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.007337	0.007337	0

1.59 $e^+e^- \to e^+e^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$

sm	0	0	0	7.944	7.944	0

1.60 $gg \rightarrow gg$

	interference			square		
	mod1	mod2	$1 - $ mod2/mod1	mod1	mod2	$1 - $ mod2/mod1
sm	0	0	0	43.62	43.62	0

1.61 $gg \rightarrow ggg$

	interference			square		
	mod1	mod2	$1 - $ mod2/mod1	mod1	mod2	$1 - $ mod2/mod1
sm	0	0	0	0.4772	0.4772	0

1.62 $gg \rightarrow t\bar{t}$

	interference			square		
	mod1	mod2	$1 - $ mod2/mod1	mod1	mod2	$1 - $ mod2/mod1
sm	0	0	0	0.9189	0.9189	0

1.63 $gg \rightarrow u\bar{u}$

	interference			square		
	mod1	mod2	$1 - $ mod2/mod1	mod1	mod2	$1 - $ mod2/mod1
sm	0	0	0	0.3671	0.3671	0

1.64 $s\bar{s} \rightarrow \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$
sm	0	0	0	0.004105	0.004105	0

1.65 $s\bar{s} \to s\bar{s}$

	interference			square		
	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$
sm	0	0	0	17.34	17.34	0

1.66 $t\bar{t} \to \nu_\mu \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$
c3pQ3	$4.23 \cdot 10^{-5}$	$4.23 \cdot 10^{-5}$	0	$2.177 \cdot 10^{-6}$	$2.177 \cdot 10^{-6}$	0
ctW	$-5.799 \cdot 10^{-5}$	$-5.799 \cdot 10^{-5}$	0	0.002164	0.002164	0
sm	0	0	0	0.000525	0.000525	0

1.67 $t\bar{t} \to \tau^+ \tau^-$

	interference			square		
	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$	mod1	mod2	$1-\texttt{mod2}/\texttt{mod1}$
c3pQ3	$-2.884 \cdot 10^{-5}$	$-2.884 \cdot 10^{-5}$	0	$3.843 \cdot 10^{-6}$	$3.843 \cdot 10^{-6}$	0
ctW	0.001502	0.001502	0	0.001626	0.001626	0
sm	0	0	0	0.0009141	0.0009141	0

1.68 $t\bar{t} \to c\bar{c}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	0.0001031	0.0001031	0	$7.046 \cdot 10^{-6}$	$7.046 \cdot 10^{-6}$	0
cQq81	0.1877	0.1877	0	0.1004	0.1004	0
cQu1	0.01685	0.01685	0	0.481	0.481	0
ctW	0.003619	0.003619	0	0.006772	0.006772	0
ctq1	0.01993	0.01993	0	0.481	0.481	0
sm	0	0	0	0.6392	0.6392	0

1.69 $\quad t\bar{t} \to d\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$7.795 \cdot 10^{-6}$	$7.795 \cdot 10^{-6}$	0	$2.388 \cdot 10^{-6}$	$2.388 \cdot 10^{-6}$	0
cQd1	-0.01264	-0.01264	0	0.7826	0.7826	0
cQq81	0.06663	0.06663	0	0.01868	0.01868	0
ctW	0.0001512	0.0001512	0	0.00408	0.00408	0
ctd1	-0.001614	-0.001614	0	0.02101	0.02101	0
ctd8	0.03332	0.03332	0	0.00467	0.00467	0
ctq1	0.01672	0.01672	0	0.7826	0.7826	0
sm	0	0	0	0.842	0.842	0

1.70 $\quad t\bar{t} \to s\bar{s}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
c3pQ3	$6.032 \cdot 10^{-5}$	$6.032 \cdot 10^{-5}$	0	$3.852 \cdot 10^{-6}$	$3.852 \cdot 10^{-6}$	0
cQd1	-0.01052	-0.01052	0	0.6308	0.6308	0
cQq81	0.1119	0.1119	0	0.04924	0.04924	0

	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
ctW	0.0009766	0.0009766	0	0.005597	0.005597	0
ctd1	−0.003577	−0.003577	0	0.05539	0.05539	0
ctd8	0.05596	0.05596	0	0.01231	0.01231	0
ctq1	0.01231	0.01231	0	0.6308	0.6308	0
sm	0	0	0	0.7279	0.7279	0

1.71 $t\bar{t} \to t\bar{t}$

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
c3pQ3	−0.2346	−0.2346	0	0.009782	0.009782	0
cQt8	−7.582	−7.582	0	1.679	1.679	0
cdp	−0.1826	−0.1826	0	0.009072	0.009072	0
ctW	−0.5141	−0.5141	0	0.3187	0.3187	0
sm	0	0	0	17.47	17.47	0

1.72 $u\bar{d} \to \mu^+ \nu_\mu$

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
sm	0	0	0	0.01448	0.01448	0

1.73 $u\bar{d} \to c\bar{s}$

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
sm	0	0	0	0.006627	0.006627	0

1.74 $u\bar{d} \to u\bar{d}$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
sm	0	0	0	223.4	223.4	0

1.75 $u\bar{u} \to \nu_e\bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
sm	0	0	0	0.002695	0.002695	0

1.76 $u\bar{u} \to u\bar{u}$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
sm	0	0	0	2.017	2.017	0

1.77 $zz \to W^+W^-$

	interference			square		
	mod1	mod2	$1 - $mod2/mod1	mod1	mod2	$1 - $mod2/mod1
cdp	7.132	7.132	0	0.4473	0.4473	0
sm	0	0	0	107.2	107.2	0

1.78 $zz \to zz$

interference	square

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cdp	0.01965	0.01965	0		0.001192	0.001192	0
sm	0	0	0		0.08105	0.08105	0

2 By parameter point

2.1 c3pQ3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \to W^+\bar{t}b$	$-8.628 \cdot 10^{-6}$	$-8.628 \cdot 10^{-6}$	0	$4.214 \cdot 10^{-5}$	$4.214 \cdot 10^{-5}$	0
$HH \to z\bar{b}b$	$1.418 \cdot 10^{-6}$	$1.418 \cdot 10^{-6}$	0	$2.275 \cdot 10^{-7}$	$2.275 \cdot 10^{-7}$	0
$HH \to zt\bar{t}$	$-9.046 \cdot 10^{-5}$	$-9.046 \cdot 10^{-5}$	0	$5.723 \cdot 10^{-5}$	$5.723 \cdot 10^{-5}$	0
$HW^+ \to \gamma t\bar{b}$	$-3.199 \cdot 10^{-6}$	$-3.199 \cdot 10^{-6}$	0	$1.256 \cdot 10^{-6}$	$1.256 \cdot 10^{-6}$	0
$HW^- \to \bar{t}b$	-1.275	-1.275	0	1.925	1.925	0
$Hz \to b\bar{b}$	0.04519	0.04519	0	0.1994	0.1994	0
$Hz \to t\bar{t}$	-2.071	-2.071	0	1.451	1.451	0
$W^+W^- \to Hb\bar{b}$	$-4.334 \cdot 10^{-6}$	$-4.334 \cdot 10^{-6}$	0	$3.123 \cdot 10^{-6}$	$3.123 \cdot 10^{-6}$	0
$W^+W^- \to Ht\bar{t}$	$5.428 \cdot 10^{-5}$	$5.428 \cdot 10^{-5}$	0	$2.369 \cdot 10^{-5}$	$2.369 \cdot 10^{-5}$	0
$\bar{b}t \to \bar{d}u$	$6.766 \cdot 10^{-5}$	$6.766 \cdot 10^{-5}$	0	$2.051 \cdot 10^{-6}$	$2.051 \cdot 10^{-6}$	0
$b\bar{b} \to \mu^+\mu^-$	0.0001386	0.0001386	0	$3.633 \cdot 10^{-6}$	$3.633 \cdot 10^{-6}$	0
$b\bar{b} \to \nu_e\bar{\nu}_e$	$5.127 \cdot 10^{-5}$	$5.127 \cdot 10^{-5}$	0	$1.841 \cdot 10^{-6}$	$1.841 \cdot 10^{-6}$	0
$b\bar{b} \to b\bar{b}$	$3.995 \cdot 10^{-5}$	$3.995 \cdot 10^{-5}$	0	$6.986 \cdot 10^{-6}$	$6.986 \cdot 10^{-6}$	0
$b\bar{b} \to d\bar{d}$	0.0003411	0.0003411	0	$1.134 \cdot 10^{-5}$	$1.134 \cdot 10^{-5}$	0
$b\bar{b} \to t\bar{t}$	0.07318	0.07318	0	0.01053	0.01053	0
$b\bar{b} \to u\bar{u}$	0.0005932	0.0005932	0	$1.716 \cdot 10^{-5}$	$1.716 \cdot 10^{-5}$	0
$b\bar{t} \to e^-\bar{\nu}_e$	0.0001125	0.0001125	0	$3.409 \cdot 10^{-6}$	$3.409 \cdot 10^{-6}$	0
$t\bar{t} \to \nu_\mu\bar{\nu}_\mu$	$4.23 \cdot 10^{-5}$	$4.23 \cdot 10^{-5}$	0	$2.177 \cdot 10^{-6}$	$2.177 \cdot 10^{-6}$	0
$t\bar{t} \to \tau^+\tau^-$	$-2.884 \cdot 10^{-5}$	$-2.884 \cdot 10^{-5}$	0	$3.843 \cdot 10^{-6}$	$3.843 \cdot 10^{-6}$	0

	interference			square		
$t\bar{t} \to c\bar{c}$	0.0001031	0.0001031	0	$7.046 \cdot 10^{-6}$	$7.046 \cdot 10^{-6}$	0
$t\bar{t} \to d\bar{d}$	$7.795 \cdot 10^{-6}$	$7.795 \cdot 10^{-6}$	0	$2.388 \cdot 10^{-6}$	$2.388 \cdot 10^{-6}$	0
$t\bar{t} \to s\bar{s}$	$6.032 \cdot 10^{-5}$	$6.032 \cdot 10^{-5}$	0	$3.852 \cdot 10^{-6}$	$3.852 \cdot 10^{-6}$	0
$t\bar{t} \to t\bar{t}$	-0.2346	-0.2346	0	0.009782	0.009782	0

2.2 cQd1

	interference			square		
	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
$b\bar{b} \to b\bar{b}$	0.001497	0.001497	0	3.874	3.874	0
$b\bar{b} \to d\bar{d}$	-0.004158	-0.004158	0	0.2858	0.2858	0
$b\bar{b} \to t\bar{t}$	-0.002867	-0.002867	0	0.08411	0.08411	0
$t\bar{t} \to d\bar{d}$	-0.01264	-0.01264	0	0.7826	0.7826	0
$t\bar{t} \to s\bar{s}$	-0.01052	-0.01052	0	0.6308	0.6308	0

2.3 cQq81

	interference			square		
	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$	mod1	mod2	$1 - \texttt{mod2}/\texttt{mod1}$
$b\bar{b} \to d\bar{d}$	0.2852	0.2852	0	0.1925	0.1925	0
$b\bar{b} \to u\bar{u}$	0.6547	0.6547	0	0.4419	0.4419	0
$t\bar{t} \to c\bar{c}$	0.1877	0.1877	0	0.1004	0.1004	0
$t\bar{t} \to d\bar{d}$	0.06663	0.06663	0	0.01868	0.01868	0
$t\bar{t} \to s\bar{s}$	0.1119	0.1119	0	0.04924	0.04924	0

2.4 cQt8

interference	square

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \to t\bar{t}$	-0.08282	-0.08282	0	0.01869	0.01869	0
$t\bar{t} \to t\bar{t}$	-7.582	-7.582	0	1.679	1.679	0

2.5 cQu1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \to u\bar{u}$	0.002531	0.002531	0	0.08699	0.08699	0
$t\bar{t} \to c\bar{c}$	0.01685	0.01685	0	0.481	0.481	0

2.6 cdp

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \to HH$	0.453	0.453	0	0.2358	0.2358	0
$HH \to HHH$	$-3.401 \cdot 10^{-6}$	$-3.401 \cdot 10^{-6}$	0	$4.311 \cdot 10^{-6}$	$4.311 \cdot 10^{-6}$	0
$HH \to Ht\bar{t}$	$-3.386 \cdot 10^{-5}$	$-3.386 \cdot 10^{-5}$	0	$1.442 \cdot 10^{-5}$	$1.442 \cdot 10^{-5}$	0
$HH \to Hzz$	$-3.281 \cdot 10^{-6}$	$-3.281 \cdot 10^{-6}$	0	$2.036 \cdot 10^{-6}$	$2.036 \cdot 10^{-6}$	0
$HH \to W^+W^-$	-0.05857	-0.05857	0	4.015	4.015	0
$HH \to W^+W^-\gamma$	-0.000307	-0.000307	0	0.0001582	0.0001582	0
$HH \to W^+\bar{t}b$	$-7.757 \cdot 10^{-6}$	$-7.757 \cdot 10^{-6}$	0	$2.07 \cdot 10^{-5}$	$2.07 \cdot 10^{-5}$	0
$HH \to W^+e^-\bar{\nu}_e$	$1.42 \cdot 10^{-9}$	$1.42 \cdot 10^{-9}$	0	$2.133 \cdot 10^{-8}$	$2.133 \cdot 10^{-8}$	0
$HH \to W^-u\bar{d}$	$5.795 \cdot 10^{-8}$	$5.795 \cdot 10^{-8}$	0	$7.165 \cdot 10^{-8}$	$7.165 \cdot 10^{-8}$	0
$HH \to z\bar{b}b$	$-4.294 \cdot 10^{-6}$	$-4.294 \cdot 10^{-6}$	0	$7.909 \cdot 10^{-6}$	$7.909 \cdot 10^{-6}$	0
$HH \to z\nu_e\bar{\nu}_e$	-0.02912	-0.02912	0	0.0144	0.0144	0
$HH \to zc\bar{c}$	$7.587 \cdot 10^{-9}$	$7.587 \cdot 10^{-9}$	0	$2.665 \cdot 10^{-8}$	$2.665 \cdot 10^{-8}$	0
$HH \to zd\bar{d}$	$1.194 \cdot 10^{-7}$	$1.194 \cdot 10^{-7}$	0	$9.483 \cdot 10^{-9}$	$9.483 \cdot 10^{-9}$	0
$HH \to ze^+e^-$	$5.719 \cdot 10^{-9}$	$5.719 \cdot 10^{-9}$	0	$1.026 \cdot 10^{-8}$	$1.026 \cdot 10^{-8}$	0

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \to zt\bar{t}$	$7.449 \cdot 10^{-5}$	$7.449 \cdot 10^{-5}$	0	$3.011 \cdot 10^{-5}$	$3.011 \cdot 10^{-5}$	0
$HH \to zz$	-0.122	-0.122	0	1.981	1.981	0
$HW^+ \to \gamma t\bar{b}$	$7.338 \cdot 10^{-7}$	$7.338 \cdot 10^{-7}$	0	$2.224 \cdot 10^{-8}$	$2.224 \cdot 10^{-8}$	0
$HW^+ \to \gamma u\bar{d}$	$2.271 \cdot 10^{-9}$	$2.271 \cdot 10^{-9}$	0	$6.885 \cdot 10^{-11}$	$6.885 \cdot 10^{-11}$	0
$HW^+ \to u\bar{d}$	0.002726	0.002726	0	$8.262 \cdot 10^{-5}$	$8.262 \cdot 10^{-5}$	0
$HW^- \to \bar{t}b$	0.04747	0.04747	0	0.001439	0.001439	0
$HW^- \to \gamma e^- \bar{\nu}_e$	$3.209 \cdot 10^{-9}$	$3.209 \cdot 10^{-9}$	0	$9.728 \cdot 10^{-11}$	$9.728 \cdot 10^{-11}$	0
$HW^- \to \mu^- \bar{\nu}_\mu$	0.00079	0.00079	0	$2.395 \cdot 10^{-5}$	$2.395 \cdot 10^{-5}$	0
$H\gamma \to t\bar{t}$	0.06094	0.06094	0	0.001847	0.001847	0
$Hz \to \mu^+ \mu^-$	0.0003878	0.0003878	0	$1.175 \cdot 10^{-5}$	$1.175 \cdot 10^{-5}$	0
$Hz \to \nu_\tau \bar{\nu}_\tau$	0.0007285	0.0007285	0	$2.208 \cdot 10^{-5}$	$2.208 \cdot 10^{-5}$	0
$Hz \to b\bar{b}$	0.0003211	0.0003211	0	$9.734 \cdot 10^{-6}$	$9.734 \cdot 10^{-6}$	0
$Hz \to s\bar{s}$	0.001547	0.001547	0	$4.689 \cdot 10^{-5}$	$4.689 \cdot 10^{-5}$	0
$Hz \to t\bar{t}$	0.2199	0.2199	0	0.006665	0.006665	0
$Hz \to u\bar{u}$	0.00017	0.00017	0	$5.154 \cdot 10^{-6}$	$5.154 \cdot 10^{-6}$	0
$W^+ W^- \to H b\bar{b}$	$5.899 \cdot 10^{-7}$	$5.899 \cdot 10^{-7}$	0	$1.788 \cdot 10^{-8}$	$1.788 \cdot 10^{-8}$	0
$W^+ W^- \to H c\bar{c}$	$2.714 \cdot 10^{-6}$	$2.714 \cdot 10^{-6}$	0	$8.226 \cdot 10^{-8}$	$8.226 \cdot 10^{-8}$	0
$W^+ W^- \to H d\bar{d}$	$4.353 \cdot 10^{-5}$	$4.353 \cdot 10^{-5}$	0	$1.319 \cdot 10^{-6}$	$1.319 \cdot 10^{-6}$	0
$W^+ W^- \to H t\bar{t}$	$1.03 \cdot 10^{-5}$	$1.03 \cdot 10^{-5}$	0	$1.07 \cdot 10^{-5}$	$1.07 \cdot 10^{-5}$	0
$W^+ W^- \to W^+ W^-$	-0.04625	-0.04625	0	0.01613	0.01613	0
$t\bar{t} \to t\bar{t}$	-0.1826	-0.1826	0	0.009072	0.009072	0
$zz \to W^+ W^-$	7.132	7.132	0	0.4473	0.4473	0
$zz \to zz$	0.01965	0.01965	0	0.001192	0.001192	0

2.7 ctW

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \to W^+ \bar{t} b$	$-1.068 \cdot 10^{-5}$	$-1.068 \cdot 10^{-5}$	0	$1.831 \cdot 10^{-5}$	$1.831 \cdot 10^{-5}$	0
$HH \to zt\bar{t}$	$4.308 \cdot 10^{-6}$	$4.308 \cdot 10^{-6}$	0	$2.588 \cdot 10^{-5}$	$2.588 \cdot 10^{-5}$	0

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HW^+ \to \gamma t\bar{b}$	$1.309 \cdot 10^{-6}$	$1.309 \cdot 10^{-6}$	0	$8.538 \cdot 10^{-6}$	$8.538 \cdot 10^{-6}$	0
$HW^- \to \bar{t}b$	-0.2682	-0.2682	0	2.274	2.274	0
$H\gamma \to t\bar{t}$	-0.1749	-0.1749	0	0.7105	0.7105	0
$Hz \to t\bar{t}$	-0.03366	-0.03366	0	2.847	2.847	0
$W^+W^- \to Hb\bar{b}$	$3.259 \cdot 10^{-6}$	$3.259 \cdot 10^{-6}$	0	$8.764 \cdot 10^{-6}$	$8.764 \cdot 10^{-6}$	0
$W^+W^- \to Ht\bar{t}$	$-3.606 \cdot 10^{-6}$	$-3.606 \cdot 10^{-6}$	0	$5.456 \cdot 10^{-5}$	$5.456 \cdot 10^{-5}$	0
$\bar{b}t \to \bar{d}u$	0.001639	0.001639	0	0.004626	0.004626	0
$b\bar{b} \to t\bar{t}$	-0.1343	-0.1343	0	0.2216	0.2216	0
$b\bar{t} \to e^-\bar{\nu}_e$	0.001314	0.001314	0	0.003153	0.003153	0
$t\bar{t} \to \nu_\mu\bar{\nu}_\mu$	$-5.799 \cdot 10^{-5}$	$-5.799 \cdot 10^{-5}$	0	0.002164	0.002164	0
$t\bar{t} \to \tau^+\tau^-$	0.001502	0.001502	0	0.001626	0.001626	0
$t\bar{t} \to c\bar{c}$	0.003619	0.003619	0	0.006772	0.006772	0
$t\bar{t} \to d\bar{d}$	0.0001512	0.0001512	0	0.00408	0.00408	0
$t\bar{t} \to s\bar{s}$	0.0009766	0.0009766	0	0.005597	0.005597	0
$t\bar{t} \to t\bar{t}$	-0.5141	-0.5141	0	0.3187	0.3187	0

2.8 ctd1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \to t\bar{t}$	-0.02917	-0.02917	0	0.5037	0.5037	0
$t\bar{t} \to d\bar{d}$	-0.001614	-0.001614	0	0.02101	0.02101	0
$t\bar{t} \to s\bar{s}$	-0.003577	-0.003577	0	0.05539	0.05539	0

2.9 ctd8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \to t\bar{t}$	0.3511	0.3511	0	0.1119	0.1119	0

	interference			square		
	mod1	mod2	$1-\text{mod2}/\text{mod1}$	mod1	mod2	$1-\text{mod2}/\text{mod1}$
$t\bar{t} \to d\bar{d}$	0.03332	0.03332	0	0.00467	0.00467	0
$t\bar{t} \to s\bar{s}$	0.05596	0.05596	0	0.01231	0.01231	0

2.10 ctq1

	interference			square		
	mod1	mod2	$1-\text{mod2}/\text{mod1}$	mod1	mod2	$1-\text{mod2}/\text{mod1}$
$t\bar{t} \to c\bar{c}$	0.01993	0.01993	0	0.481	0.481	0
$t\bar{t} \to d\bar{d}$	0.01672	0.01672	0	0.7826	0.7826	0
$t\bar{t} \to s\bar{s}$	0.01231	0.01231	0	0.6308	0.6308	0

2.11 sm

	interference			square		
	mod1	mod2	$1-\text{mod2}/\text{mod1}$	mod1	mod2	$1-\text{mod2}/\text{mod1}$
$HH \to HH$	0	0	0	0.2176	0.2176	0
$HH \to HHH$	0	0	0	$6.706 \cdot 10^{-7}$	$6.706 \cdot 10^{-7}$	0
$HH \to Ht\bar{t}$	0	0	0	$2.04 \cdot 10^{-5}$	$2.04 \cdot 10^{-5}$	0
$HH \to Hzz$	0	0	0	$6.086 \cdot 10^{-6}$	$6.086 \cdot 10^{-6}$	0
$HH \to W^+W^-$	0	0	0	0.08983	0.08983	0
$HH \to W^+W^-\gamma$	0	0	0	0.0001726	0.0001726	0
$HH \to W^+\bar{t}b$	0	0	0	$1.087 \cdot 10^{-5}$	$1.087 \cdot 10^{-5}$	0
$HH \to W^+e^-\bar{\nu}_e$	0	0	0	$1.445 \cdot 10^{-7}$	$1.445 \cdot 10^{-7}$	0
$HH \to W^-u\bar{d}$	0	0	0	$2.866 \cdot 10^{-7}$	$2.866 \cdot 10^{-7}$	0
$HH \to z\bar{b}b$	0	0	0	$2.285 \cdot 10^{-6}$	$2.285 \cdot 10^{-6}$	0
$HH \to z\nu_e\bar{\nu}_e$	0	0	0	0.01538	0.01538	0
$HH \to zc\bar{c}$	0	0	0	$6.035 \cdot 10^{-8}$	$6.035 \cdot 10^{-8}$	0
$HH \to zd\bar{d}$	0	0	0	$7.249 \cdot 10^{-7}$	$7.249 \cdot 10^{-7}$	0
$HH \to ze^+e^-$	0	0	0	$9.441 \cdot 10^{-8}$	$9.441 \cdot 10^{-8}$	0

Process						
$HH \to zt\bar{t}$	0	0	0	0.0001392	0.0001392	0
$HH \to zz$	0	0	0	0.07796	0.07796	0
$HW^+ \to \gamma t\bar{b}$	0	0	0	$6.052 \cdot 10^{-6}$	$6.052 \cdot 10^{-6}$	0
$HW^+ \to \gamma u\bar{d}$	0	0	0	$1.873 \cdot 10^{-8}$	$1.873 \cdot 10^{-8}$	0
$HW^+ \to u\bar{d}$	0	0	0	0.02248	0.02248	0
$HW^- \to \bar{t}b$	0	0	0	0.3915	0.3915	0
$HW^- \to \gamma e^- \bar{\nu}_e$	0	0	0	$2.647 \cdot 10^{-8}$	$2.647 \cdot 10^{-8}$	0
$HW^- \to \mu^- \bar{\nu}_\mu$	0	0	0	0.006515	0.006515	0
$H\gamma \to t\bar{t}$	0	0	0	0.5026	0.5026	0
$Hz \to \mu^+ \mu^-$	0	0	0	0.003198	0.003198	0
$Hz \to \nu_\tau \bar{\nu}_\tau$	0	0	0	0.006008	0.006008	0
$Hz \to b\bar{b}$	0	0	0	0.002648	0.002648	0
$Hz \to s\bar{s}$	0	0	0	0.01276	0.01276	0
$Hz \to t\bar{t}$	0	0	0	1.813	1.813	0
$Hz \to u\bar{u}$	0	0	0	0.001402	0.001402	0
$W^+ W^- \to Hb\bar{b}$	0	0	0	$4.866 \cdot 10^{-6}$	$4.866 \cdot 10^{-6}$	0
$W^+ W^- \to Hc\bar{c}$	0	0	0	$2.238 \cdot 10^{-5}$	$2.238 \cdot 10^{-5}$	0
$W^+ W^- \to Hd\bar{d}$	0	0	0	0.000359	0.000359	0
$W^+ W^- \to Ht\bar{t}$	0	0	0	$9.632 \cdot 10^{-5}$	$9.632 \cdot 10^{-5}$	0
$W^+ W^- \to W^+ W^-$	0	0	0	4.768	4.768	0
$W^+ W^- \to \gamma\gamma$	0	0	0	0.2091	0.2091	0
$W^+ W^- \to \gamma\gamma\gamma$	0	0	0	$1.583 \cdot 10^{-6}$	$1.583 \cdot 10^{-6}$	0
$\bar{b}t \to \bar{d}u$	0	0	0	0.000558	0.000558	0
$\gamma W^+ \to zW^+$	0	0	0	0.1702	0.1702	0
$\mu^+ \mu^- \to \tau^+ \tau^-$	0	0	0	0.00684	0.00684	0
$\nu_\tau \bar{\nu}_\tau \to \nu_\tau \bar{\nu}_\tau$	0	0	0	$3.181 \cdot 10^{-6}$	$3.181 \cdot 10^{-6}$	0
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	0	0	0	0.007679	0.007679	0
$b\bar{b} \to \gamma\gamma$	0	0	0	0.0001017	0.0001017	0
$b\bar{b} \to \mu^+ \mu^-$	0	0	0	0.001732	0.001732	0

$b\bar{b} \to \nu_e \bar{\nu}_e$	0	0	0	0.0004371	0.0004371	0
$b\bar{b} \to b\bar{b}$	0	0	0	1.957	1.957	0
$b\bar{b} \to d\bar{d}$	0	0	0	0.4928	0.4928	0
$b\bar{b} \to t\bar{t}$	0	0	0	0.5188	0.5188	0
$b\bar{b} \to u\bar{u}$	0	0	0	0.5755	0.5755	0
$b\bar{t} \to e^- \bar{\nu}_e$	0	0	0	0.0009276	0.0009276	0
$c\bar{c} \to \mu^+ \mu^-$	0	0	0	0.002079	0.002079	0
$c\bar{s} \to \tau^+ \nu_\tau$	0	0	0	0.0002101	0.0002101	0
$d\bar{d} \to c\bar{c}$	0	0	0	0.9083	0.9083	0
$d\bar{d} \to e^+ e^-$	0	0	0	0.0002884	0.0002884	0
$e^+ \nu_\mu \to e^+ \nu_\mu$	0	0	0	0.01434	0.01434	0
$e^+ \nu_e \to \mu^+ \nu_\mu$	0	0	0	0.01543	0.01543	0
$e^+ \nu_e \to e^+ \nu_e$	0	0	0	0.1081	0.1081	0
$e^+ \tau^- \to e^+ \tau^-$	0	0	0	0.05483	0.05483	0
$e^+ e^- \to \mu^+ \mu^-$	0	0	0	0.007337	0.007337	0
$e^+ e^- \to e^+ e^-$	0	0	0	7.944	7.944	0
$gg \to gg$	0	0	0	43.62	43.62	0
$gg \to ggg$	0	0	0	0.4772	0.4772	0
$gg \to t\bar{t}$	0	0	0	0.9189	0.9189	0
$gg \to u\bar{u}$	0	0	0	0.3671	0.3671	0
$s\bar{s} \to \nu_\tau \bar{\nu}_\tau$	0	0	0	0.004105	0.004105	0
$s\bar{s} \to s\bar{s}$	0	0	0	17.34	17.34	0
$t\bar{t} \to \nu_\mu \bar{\nu}_\mu$	0	0	0	0.000525	0.000525	0
$t\bar{t} \to \tau^+ \tau^-$	0	0	0	0.0009141	0.0009141	0
$t\bar{t} \to c\bar{c}$	0	0	0	0.6392	0.6392	0
$t\bar{t} \to d\bar{d}$	0	0	0	0.842	0.842	0
$t\bar{t} \to s\bar{s}$	0	0	0	0.7279	0.7279	0
$t\bar{t} \to t\bar{t}$	0	0	0	17.47	17.47	0
$u\bar{d} \to \mu^+ \nu_\mu$	0	0	0	0.01448	0.01448	0

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$u\bar{d} \to c\bar{s}$	0	0	0	0.006627	0.006627	0
$u\bar{d} \to u\bar{d}$	0	0	0	223.4	223.4	0
$u\bar{u} \to \nu_e\bar{\nu}_e$	0	0	0	0.002695	0.002695	0
$u\bar{u} \to u\bar{u}$	0	0	0	2.017	2.017	0
$zz \to W^+W^-$	0	0	0	107.2	107.2	0
$zz \to zz$	0	0	0	0.08105	0.08105	0