

1 By process

1.1 $HH \rightarrow HH$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.07188	0.07188	0

1.2 $HH \rightarrow HHH$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$3.271 \cdot 10^{-6}$	$3.271 \cdot 10^{-6}$	0

1.3 $HH \rightarrow H\tau^+\tau^-$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$2.028 \cdot 10^{-7}$	$2.028 \cdot 10^{-7}$	0

1.4 $HH \rightarrow Hb\bar{b}$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$2.326 \cdot 10^{-10}$	$2.326 \cdot 10^{-10}$	0

1.5 $HH \rightarrow Ht\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
ctp	$9.729 \cdot 10^{-6}$	$9.729 \cdot 10^{-6}$	0	$9.708 \cdot 10^{-6}$	$9.708 \cdot 10^{-6}$	0
ctpI	$6.618 \cdot 10^{-5}$	$6.618 \cdot 10^{-5}$	0	$1.434 \cdot 10^{-5}$	$1.434 \cdot 10^{-5}$	0
sm	0	0	0	$1.376 \cdot 10^{-5}$	$1.376 \cdot 10^{-5}$	0

1.6 $HH \rightarrow Hzz$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$1.116 \cdot 10^{-5}$	$1.116 \cdot 10^{-5}$	0

1.7 $HH \rightarrow W^+W^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.111	0.111	0

1.8 $HH \rightarrow W^+W^-\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$3.283 \cdot 10^{-7}$	$3.283 \cdot 10^{-7}$	$-9.138 \cdot 10^{-8}$

1.9 $HH \rightarrow W^+\bar{t}b$

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

cbW	$3.324 \cdot 10^{-8}$	$3.324 \cdot 10^{-8}$	0	$2.144 \cdot 10^{-5}$	$2.144 \cdot 10^{-5}$	0
cbWI	$-1.753 \cdot 10^{-7}$	$-1.753 \cdot 10^{-7}$	0	$1.198 \cdot 10^{-5}$	$1.198 \cdot 10^{-5}$	0
cpQ3	$8.575 \cdot 10^{-6}$	$8.575 \cdot 10^{-6}$	0	$6.628 \cdot 10^{-6}$	$6.628 \cdot 10^{-6}$	0
cptb	$-2.558 \cdot 10^{-6}$	$-2.558 \cdot 10^{-6}$	0	$8.453 \cdot 10^{-6}$	$8.453 \cdot 10^{-6}$	$1.183 \cdot 10^{-8}$
cptbI	$-1.029 \cdot 10^{-7}$	$-1.029 \cdot 10^{-7}$	0	$6.474 \cdot 10^{-6}$	$6.474 \cdot 10^{-6}$	0
ctW	$2.416 \cdot 10^{-5}$	$2.416 \cdot 10^{-5}$	0	$1.481 \cdot 10^{-5}$	$1.481 \cdot 10^{-5}$	0
ctWI	$5.272 \cdot 10^{-6}$	$5.272 \cdot 10^{-6}$	0	$1.48 \cdot 10^{-5}$	$1.48 \cdot 10^{-5}$	0
ctp	$1.374 \cdot 10^{-6}$	$1.374 \cdot 10^{-6}$	0	$1.005 \cdot 10^{-6}$	$1.005 \cdot 10^{-6}$	0
ctpI	$-3.562 \cdot 10^{-7}$	$-3.562 \cdot 10^{-7}$	$-2.807 \cdot 10^{-8}$	$4.231 \cdot 10^{-6}$	$4.231 \cdot 10^{-6}$	0
sm	0	0	0	0.1906	0.1906	0

1.10 $HH \rightarrow W^+ e^- \bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$2.005 \cdot 10^{-7}$	$2.005 \cdot 10^{-7}$	0

1.11 $HH \rightarrow W^- u \bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$2.921 \cdot 10^{-6}$	$2.921 \cdot 10^{-6}$	$3.424 \cdot 10^{-8}$

1.12 $HH \rightarrow z \bar{b} b$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$8.401 \cdot 10^{-8}$	$8.401 \cdot 10^{-8}$	$1.19 \cdot 10^{-8}$	$6.91 \cdot 10^{-7}$	$6.91 \cdot 10^{-7}$	0

cbWI	$1.425 \cdot 10^{-8}$	$1.425 \cdot 10^{-8}$	$7.017 \cdot 10^{-8}$	$1.551 \cdot 10^{-6}$	$1.551 \cdot 10^{-6}$	$6.448 \cdot 10^{-8}$
cpQ3	$1.522 \cdot 10^{-6}$	$1.522 \cdot 10^{-6}$	0	$1.018 \cdot 10^{-6}$	$1.018 \cdot 10^{-6}$	0
cpQM	$7.904 \cdot 10^{-6}$	$7.904 \cdot 10^{-6}$	$1.265 \cdot 10^{-8}$	$2.173 \cdot 10^{-5}$	$2.173 \cdot 10^{-5}$	0
cpb	$-9.775 \cdot 10^{-7}$	$-9.775 \cdot 10^{-7}$	$-2.046 \cdot 10^{-8}$	$4.534 \cdot 10^{-6}$	$4.534 \cdot 10^{-6}$	0
sm	0	0	0	$7.741 \cdot 10^{-7}$	$7.741 \cdot 10^{-7}$	0

1.13 $HH \rightarrow z\nu_e\bar{\nu}_e$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$1.037 \cdot 10^{-7}$	$1.037 \cdot 10^{-7}$	0

1.14 $HH \rightarrow zc\bar{c}$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$3.711 \cdot 10^{-7}$	$3.711 \cdot 10^{-7}$	0

1.15 $HH \rightarrow zd\bar{d}$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$1.659 \cdot 10^{-6}$	$1.659 \cdot 10^{-6}$	0

1.16 $HH \rightarrow ze^+e^-$

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

sm	0	0	0	$1.085 \cdot 10^{-7}$	$1.085 \cdot 10^{-7}$	0
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1.17 $HH \rightarrow zt\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cpQM	$9.632 \cdot 10^{-5}$	$9.632 \cdot 10^{-5}$	0	0.0001012	0.0001012	0
cpt	$-1.814 \cdot 10^{-5}$	$-1.814 \cdot 10^{-5}$	0	$2.131 \cdot 10^{-5}$	$2.131 \cdot 10^{-5}$	0
ctW	$3.71 \cdot 10^{-13}$	0	1	$1.67 \cdot 10^{-17}$	0	1
ctWI	$2.025 \cdot 10^{-12}$	0	1	$3.27 \cdot 10^{-17}$	0	1
ctZ	$-1.437 \cdot 10^{-6}$	$-1.437 \cdot 10^{-6}$	$6.262 \cdot 10^{-7}$	$7.409 \cdot 10^{-5}$	$7.409 \cdot 10^{-5}$	$1.093 \cdot 10^{-6}$
ctZI	$-1.231 \cdot 10^{-8}$	$-1.23 \cdot 10^{-8}$	$9.752 \cdot 10^{-7}$	$8.222 \cdot 10^{-6}$	$8.222 \cdot 10^{-6}$	$1.095 \cdot 10^{-6}$
ctp	$1.715 \cdot 10^{-6}$	$1.715 \cdot 10^{-6}$	0	$1.387 \cdot 10^{-6}$	$1.387 \cdot 10^{-6}$	0
ctpI	$-3.056 \cdot 10^{-6}$	$-3.056 \cdot 10^{-6}$	0	$6.996 \cdot 10^{-6}$	$6.996 \cdot 10^{-6}$	$1.429 \cdot 10^{-8}$
sm	0	0	0	$8.862 \cdot 10^{-6}$	$8.862 \cdot 10^{-6}$	$1.128 \cdot 10^{-8}$

1.18 $HH \rightarrow zz$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.485	0.485	0

1.19 $HW^+ \rightarrow \gamma t\bar{b}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$2.878 \cdot 10^{-9}$	$2.878 \cdot 10^{-9}$	0	$4.017 \cdot 10^{-6}$	$4.017 \cdot 10^{-6}$	$-2.49 \cdot 10^{-8}$
cbWI	$-9.51 \cdot 10^{-9}$	$-9.51 \cdot 10^{-9}$	$3.155 \cdot 10^{-8}$	$1.769 \cdot 10^{-6}$	$1.769 \cdot 10^{-6}$	0

cpQ3	$-4.117 \cdot 10^{-8}$	$-4.117 \cdot 10^{-8}$	0	$2.222 \cdot 10^{-8}$	$2.222 \cdot 10^{-8}$	0
cptb	$-6.607 \cdot 10^{-9}$	$-6.607 \cdot 10^{-9}$	$-1.514 \cdot 10^{-8}$	$2.143 \cdot 10^{-8}$	$2.143 \cdot 10^{-8}$	$-4.666 \cdot 10^{-8}$
cptbI	$5.157 \cdot 10^{-10}$	$5.157 \cdot 10^{-10}$	$-1.939 \cdot 10^{-8}$	$4.946 \cdot 10^{-9}$	$4.946 \cdot 10^{-9}$	0
ctW	$-7.207 \cdot 10^{-6}$	$-7.207 \cdot 10^{-6}$	$8.88 \cdot 10^{-7}$	$1.986 \cdot 10^{-5}$	$1.986 \cdot 10^{-5}$	$1.359 \cdot 10^{-6}$
ctWI	$1.992 \cdot 10^{-6}$	$1.992 \cdot 10^{-6}$	$7.531 \cdot 10^{-7}$	$5.796 \cdot 10^{-5}$	$5.796 \cdot 10^{-5}$	$1.208 \cdot 10^{-6}$
ctZ	$-7.103 \cdot 10^{-8}$	$-7.103 \cdot 10^{-8}$	$5.069 \cdot 10^{-7}$	$4.559 \cdot 10^{-5}$	$4.559 \cdot 10^{-5}$	$1.141 \cdot 10^{-6}$
ctZI	$5.044 \cdot 10^{-7}$	$5.044 \cdot 10^{-7}$	$5.551 \cdot 10^{-7}$	$5.659 \cdot 10^{-6}$	$5.659 \cdot 10^{-6}$	$1.113 \cdot 10^{-6}$
ctp	$2.71 \cdot 10^{-7}$	$2.71 \cdot 10^{-7}$	0	$9.379 \cdot 10^{-8}$	$9.379 \cdot 10^{-8}$	$-2.132 \cdot 10^{-8}$
ctpI	$-1.591 \cdot 10^{-8}$	$-1.591 \cdot 10^{-8}$	0	$1.226 \cdot 10^{-9}$	$1.226 \cdot 10^{-9}$	$-8.155 \cdot 10^{-8}$
sm	0	0	0	$1.127 \cdot 10^{-6}$	$1.127 \cdot 10^{-6}$	0

1.20 $HW^+ \rightarrow \gamma u \bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$6.821 \cdot 10^{-7}$	$6.821 \cdot 10^{-7}$	0

1.21 $HW^+ \rightarrow u \bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.02155	0.02155	$4.641 \cdot 10^{-8}$

1.22 $HW^- \rightarrow \bar{t} b$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	-0.05332	-0.05332	0	0.1119	0.1119	$8.937 \cdot 10^{-8}$
cbWI	$1.407 \cdot 10^{-6}$	$1.407 \cdot 10^{-6}$	0	2.074	2.074	0

cpQ3	-0.9216	-0.9216	0	1.686	1.686	0
cptb	-0.02233	-0.02233	0	0.03872	0.03872	0
cptbI	$-8.83 \cdot 10^{-6}$	$-8.83 \cdot 10^{-6}$	0	0.182	0.182	0
ctW	-0.247	-0.247	0	2.176	2.176	0
ctWI	0.000395	0.000395	0	1.284	1.284	0
ctp	-0.03405	-0.03405	$2.937 \cdot 10^{-8}$	0.04842	0.04842	0
ctpI	-0.0009859	-0.0009859	0	0.05844	0.05844	0
sm	0	0	0	0.5515	0.5515	0

1.23 $HW^- \rightarrow \gamma e^- \bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$8.098 \cdot 10^{-8}$	$8.098 \cdot 10^{-8}$	0

1.24 $HW^- \rightarrow \mu^- \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.007625	0.007625	$1.311 \cdot 10^{-8}$

1.25 $H\gamma \rightarrow b\bar{b}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$-1.46 \cdot 10^{-6}$	$-1.46 \cdot 10^{-6}$	0	0.6603	0.6603	$-1.514 \cdot 10^{-8}$
cbWI	$5.584 \cdot 10^{-20}$	$5.488 \cdot 10^{-20}$	0.01718	0.2375	0.2375	0
sm	0	0	0	$9.662 \cdot 10^{-5}$	$9.662 \cdot 10^{-5}$	$-1.035 \cdot 10^{-8}$

1.26 $H\gamma \rightarrow t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
ctW	-0.6816	-0.6816	$5.868 \cdot 10^{-7}$	14.07	14.07	$1.208 \cdot 10^{-6}$
ctWI	$9.816 \cdot 10^{-17}$	$3.567 \cdot 10^{-17}$	0.6366	15.35	15.35	$1.238 \cdot 10^{-6}$
ctZ	0.5385	0.5385	$5.386 \cdot 10^{-7}$	11.76	11.76	$1.105 \cdot 10^{-6}$
ctZI	$-2.116 \cdot 10^{-16}$	$-4.597 \cdot 10^{-16}$	-1.172	2.596	2.596	$1.117 \cdot 10^{-6}$
ctp	-0.2466	-0.2466	0	0.007566	0.007566	$-2.643 \cdot 10^{-8}$
ctpI	$-8.983 \cdot 10^{-19}$	$4.366 \cdot 10^{-19}$	1.486	0.002155	0.002155	0
sm	0	0	0	0.4052	0.4052	0

1.27 $H\gamma \rightarrow \mu^+\mu^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.002089	0.002089	0

1.28 $H\gamma \rightarrow \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.001123	0.001123	0

1.29 $H\gamma \rightarrow b\bar{b}$

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

cbW	0.001412	0.001412	$7.08 \cdot 10^{-8}$	0.229	0.229	0
cbWI	$2.529 \cdot 10^{-6}$	$2.529 \cdot 10^{-6}$	0	1.417	1.417	0
cpQ3	0.2696	0.2696	0	2.355	2.355	0
cpQM	0.04346	0.04346	0	0.1954	0.1954	0
cpb	-0.01636	-0.01636	0	0.4194	0.4194	0
sm	0	0	0	0.01444	0.01444	0

1.30 $H_z \rightarrow s\bar{s}$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.006683	0.006683	0

1.31 $H_z \rightarrow t\bar{t}$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cpQM	1.846	1.846	0	0.4705	0.4705	0
cpt	-2.207	-2.207	0	1.347	1.347	0
ctW	$3.974 \cdot 10^{-8}$	0	1	$1.338 \cdot 10^{-12}$	0	1
ctWI	$3.901 \cdot 10^{-10}$	0	1	$1.107 \cdot 10^{-12}$	0	1
ctZ	-0.08063	-0.08063	$5.829 \cdot 10^{-7}$	2.52	2.52	$1.111 \cdot 10^{-6}$
ctZI	-0.0001765	-0.0001765	$5.667 \cdot 10^{-7}$	1.543	1.543	$1.037 \cdot 10^{-6}$
ctp	0.001345	0.001345	$-2.23 \cdot 10^{-7}$	0.06874	0.06874	0
ctpI	0.0003853	0.0003853	$5.19 \cdot 10^{-8}$	0.0655	0.0655	0
sm	0	0	0	2.228	2.228	0

1.32 $H_z \rightarrow u\bar{u}$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	0.00599	0.00599	$1.669 \cdot 10^{-8}$

1.33 $W^+W^- \rightarrow Hb\bar{b}$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cbW	$-3.023 \cdot 10^{-7}$	$-3.023 \cdot 10^{-7}$	0	$8.273 \cdot 10^{-7}$	$8.273 \cdot 10^{-7}$	0
cbWI	$-2.49 \cdot 10^{-8}$	$-2.49 \cdot 10^{-8}$	0	$3.21 \cdot 10^{-6}$	$3.21 \cdot 10^{-6}$	0
cpQ3	$-4.333 \cdot 10^{-6}$	$-4.333 \cdot 10^{-6}$	0	$7.67 \cdot 10^{-7}$	$7.67 \cdot 10^{-7}$	0
cpQM	$-1.675 \cdot 10^{-6}$	$-1.675 \cdot 10^{-6}$	0	$5.296 \cdot 10^{-8}$	$5.296 \cdot 10^{-8}$	$1.888 \cdot 10^{-8}$
cpb	$-1.65 \cdot 10^{-8}$	$-1.65 \cdot 10^{-8}$	0	$1.564 \cdot 10^{-7}$	$1.564 \cdot 10^{-7}$	0
cptb	$-2.883 \cdot 10^{-7}$	$-2.883 \cdot 10^{-7}$	0	$4.847 \cdot 10^{-7}$	$4.847 \cdot 10^{-7}$	0
cptbI	$-1.177 \cdot 10^{-8}$	$-1.177 \cdot 10^{-8}$	0	$4.208 \cdot 10^{-7}$	$4.208 \cdot 10^{-7}$	0
ctW	$-2.712 \cdot 10^{-6}$	$-2.712 \cdot 10^{-6}$	0	$4.036 \cdot 10^{-6}$	$4.036 \cdot 10^{-6}$	0
ctWI	$-2.48 \cdot 10^{-6}$	$-2.48 \cdot 10^{-6}$	0	$3.267 \cdot 10^{-6}$	$3.267 \cdot 10^{-6}$	0
ctp	$4.5 \cdot 10^{-7}$	$4.5 \cdot 10^{-7}$	0	$2.915 \cdot 10^{-8}$	$2.915 \cdot 10^{-8}$	0
ctpI	$-6.703 \cdot 10^{-7}$	$-6.703 \cdot 10^{-7}$	0	$2.174 \cdot 10^{-8}$	$2.174 \cdot 10^{-8}$	0
sm	0	0	0	0.0001476	0.0001476	$6.777 \cdot 10^{-8}$

1.34 $W^+W^- \rightarrow Hc\bar{c}$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	$8.609 \cdot 10^{-7}$	$8.609 \cdot 10^{-7}$	$2.323 \cdot 10^{-8}$

1.35 $W^+W^- \rightarrow Hd\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$4.661 \cdot 10^{-7}$	$4.661 \cdot 10^{-7}$	$2.145 \cdot 10^{-8}$

1.36 $W^+W^- \rightarrow Ht\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$-5.461 \cdot 10^{-8}$	$-5.461 \cdot 10^{-8}$	$3.663 \cdot 10^{-8}$	$2.329 \cdot 10^{-8}$	$2.329 \cdot 10^{-8}$	0
cbWI	$2.531 \cdot 10^{-9}$	$2.531 \cdot 10^{-9}$	$3.951 \cdot 10^{-8}$	$1.603 \cdot 10^{-8}$	$1.603 \cdot 10^{-8}$	0
cpQ3	$3.283 \cdot 10^{-5}$	$3.283 \cdot 10^{-5}$	0	$4.168 \cdot 10^{-5}$	$4.168 \cdot 10^{-5}$	0
cpQM	$-1.916 \cdot 10^{-6}$	$-1.916 \cdot 10^{-6}$	0	$1.274 \cdot 10^{-6}$	$1.274 \cdot 10^{-6}$	0
cpt	$-1.137 \cdot 10^{-6}$	$-1.137 \cdot 10^{-6}$	0	$8.781 \cdot 10^{-7}$	$8.781 \cdot 10^{-7}$	0
cptb	$3.76 \cdot 10^{-8}$	$3.76 \cdot 10^{-8}$	0	$1.016 \cdot 10^{-9}$	$1.016 \cdot 10^{-9}$	0
cptbI	$-3.481 \cdot 10^{-8}$	$-3.481 \cdot 10^{-8}$	0	$3.398 \cdot 10^{-9}$	$3.398 \cdot 10^{-9}$	0
ctW	$1.153 \cdot 10^{-5}$	$1.153 \cdot 10^{-5}$	$8.674 \cdot 10^{-8}$	$3.041 \cdot 10^{-5}$	$3.041 \cdot 10^{-5}$	$-3.288 \cdot 10^{-8}$
ctWI	$2.902 \cdot 10^{-6}$	$2.902 \cdot 10^{-6}$	0	$7.521 \cdot 10^{-5}$	$7.521 \cdot 10^{-5}$	$-1.33 \cdot 10^{-8}$
ctZ	$3.758 \cdot 10^{-7}$	$3.758 \cdot 10^{-7}$	$5.588 \cdot 10^{-7}$	$1.548 \cdot 10^{-7}$	$1.548 \cdot 10^{-7}$	$1.098 \cdot 10^{-6}$
ctZI	$5.331 \cdot 10^{-7}$	$5.331 \cdot 10^{-7}$	$5.44 \cdot 10^{-7}$	$1.273 \cdot 10^{-7}$	$1.273 \cdot 10^{-7}$	$1.021 \cdot 10^{-6}$
ctp	$-3.054 \cdot 10^{-7}$	$-3.054 \cdot 10^{-7}$	$-3.274 \cdot 10^{-8}$	$1.047 \cdot 10^{-6}$	$1.047 \cdot 10^{-6}$	0
ctpI	$-1.077 \cdot 10^{-7}$	$-1.077 \cdot 10^{-7}$	0	$7.613 \cdot 10^{-7}$	$7.613 \cdot 10^{-7}$	0
sm	0	0	0	$3.596 \cdot 10^{-5}$	$3.596 \cdot 10^{-5}$	0

1.37 $W^+W^- \rightarrow W^+W^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	7.679	7.679	$1.302 \cdot 10^{-8}$

1.38 $W^+W^- \rightarrow \gamma\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.2107	0.2107	$-4.747 \cdot 10^{-8}$

1.39 $W^+W^- \rightarrow \gamma\gamma\gamma$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$1.221 \cdot 10^{-6}$	$1.221 \cdot 10^{-6}$	0

1.40 $\bar{b}t \rightarrow \bar{d}u$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQbqu1	0	0	0	0.25	0.25	0
cQbqu1I	0	0	0	0.25	0.25	0
cQbqu1T	0	0	0	32.27	2.848	0.9117
cQbqu1TI	0	0	0	32.27	2.848	0.9117
cQbqu8	0	0	0	0.05556	0.05556	0
cQbqu8I	0	0	0	0.05556	0.05556	0
cQbqu8T	0	0	0	7.17	0.6329	0.9117
cQbqu8TI	0	0	0	7.17	0.6329	0.9117
cQq13	0.1065	0.1065	0	0.5032	0.5032	0
cQq83	$6.809 \cdot 10^{-11}$	$6.523 \cdot 10^{-20}$	1	0.01073	0.01073	0
cQtqd1	0	0	0	0.25	0.25	0
cQtqd1I	0	0	0	0.25	0.25	0
cQtqd1T	0	0	0	32.27	2.848	0.9117

cQtqd1TI	0	0	0	32.27	2.848	0.9117
cQtqd8	0	0	0	0.05556	0.05556	0
cQtqd8I	0	0	0	0.05556	0.05556	0
cQtqd8T	0	0	0	7.17	0.6329	0.9117
cQtqd8TI	0	0	0	7.17	0.6329	0.9117
cbQqd1	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
cbQqd1I	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
cbQqd8	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
cbQqd8I	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
cbW	0.0002602	0.0002602	0	0.013	0.013	0
cbWI	$-3.327 \cdot 10^{-20}$	$-1.726 \cdot 10^{-19}$	-4.186	0.01232	0.01232	0
cbtud1	0	0	0	0.008708	0.008708	$-2.297 \cdot 10^{-8}$
cbtud1I	0	0	0	0.008708	0.008708	$-2.297 \cdot 10^{-8}$
cbtud8	0	0	0	0.001935	0.001935	$-2.067 \cdot 10^{-7}$
cbtud8I	0	0	0	0.001935	0.001935	$-2.067 \cdot 10^{-7}$
cpQ3	0.002789	0.002789	$3.586 \cdot 10^{-8}$	$8.453 \cdot 10^{-5}$	$8.453 \cdot 10^{-5}$	$1.183 \cdot 10^{-8}$
cptb	$-2.193 \cdot 10^{-6}$	$-2.193 \cdot 10^{-6}$	0	$3.362 \cdot 10^{-5}$	$3.362 \cdot 10^{-5}$	0
cptbI	$1.983 \cdot 10^{-21}$	$9.019 \cdot 10^{-22}$	0.5452	$2.762 \cdot 10^{-6}$	$2.762 \cdot 10^{-6}$	$3.621 \cdot 10^{-8}$
ctQqu1	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
ctQqu1I	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
ctQqu8	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
ctQqu8I	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
ctW	0.01446	0.01446	0	0.006829	0.006829	0
ctWI	$5.64 \cdot 10^{-19}$	$2.788 \cdot 10^{-19}$	0.5057	0.0105	0.0105	0
sm	0	0	0	0.0003897	0.0003897	$2.566 \cdot 10^{-8}$

1.41 $\gamma W^+ \rightarrow z W^+$

interference

square

	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	0.1619	0.1619	0

1.42 $\mu^+\mu^- \rightarrow \tau^+\tau^-$

	mod1	mod2	interference 1 - mod2/mod1	mod1	mod2	square 1 - mod2/mod1
sm	0	0	0	0.007062	0.007062	$-4.248 \cdot 10^{-8}$

1.43 $\nu_\tau \bar{\nu}_\tau \rightarrow \nu_\tau \bar{\nu}_\tau$

	mod1	mod2	interference 1 - mod2/mod1	mod1	mod2	square 1 - mod2/mod1
sm	0	0	0	0.3561	0.3561	0

1.44 $\nu_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$

	mod1	mod2	interference 1 - mod2/mod1	mod1	mod2	square 1 - mod2/mod1
sm	0	0	0	0.01645	0.01645	0

1.45 $b\bar{b} \rightarrow \gamma\gamma$

	mod1	mod2	interference 1 - mod2/mod1	mod1	mod2	square 1 - mod2/mod1
cbW	$6.414 \cdot 10^{-6}$	$6.414 \cdot 10^{-6}$	$-4.677 \cdot 10^{-8}$	0.0006187	0.0006187	$-3.233 \cdot 10^{-8}$
cbWI	$-1.643 \cdot 10^{-22}$	$-6.472 \cdot 10^{-22}$	-2.938	0.0006186	0.0006186	$-3.233 \cdot 10^{-8}$
sm	0	0	0	$9.337 \cdot 10^{-5}$	$9.337 \cdot 10^{-5}$	$-2.142 \cdot 10^{-8}$

1.46 $b\bar{b} \rightarrow \mu^+ \mu^-$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQe2	-0.002922	-0.002922	$-3.422 \cdot 10^{-8}$	0.06697	0.06697	0
cQ132	0.00775	0.00775	0	0.08163	0.08163	0
cQ1M2	0.06012	0.06012	0	0.3166	0.3166	0
cbW	$5.971 \cdot 10^{-5}$	$5.971 \cdot 10^{-5}$	$1.675 \cdot 10^{-8}$	0.001071	0.001071	0
cbWI	$4.554 \cdot 10^{-16}$	$4.554 \cdot 10^{-16}$	$5.674 \cdot 10^{-5}$	0.002095	0.002095	0
cbLS2	0	0	0	0.1667	0.1667	0
cbLSI2	0	0	0	0.1667	0.1667	0
cpQ3	0.00023	0.00023	0	$1.307 \cdot 10^{-5}$	$1.307 \cdot 10^{-5}$	0
cpQM	0.0002072	0.0002072	0	$4.955 \cdot 10^{-6}$	$4.955 \cdot 10^{-6}$	$2.018 \cdot 10^{-8}$
cpb	$6.38 \cdot 10^{-6}$	$6.38 \cdot 10^{-6}$	$9.404 \cdot 10^{-8}$	$3.248 \cdot 10^{-6}$	$3.248 \cdot 10^{-6}$	0
sm	0	0	0	0.001818	0.001818	0

1.47 $b\bar{b} \rightarrow \nu_e \bar{\nu}_e$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQ1M1	-0.005651	-0.005651	0	0.0242	0.0242	0
cbW	$8.063 \cdot 10^{-5}$	$8.063 \cdot 10^{-5}$	$1.24 \cdot 10^{-8}$	0.0002271	0.0002271	0
cbWI	$-3.527 \cdot 10^{-20}$	$-1.31 \cdot 10^{-20}$	0.6287	0.001787	0.001787	0
cpQ3	$9.476 \cdot 10^{-5}$	$9.476 \cdot 10^{-5}$	0	$6.805 \cdot 10^{-6}$	$6.805 \cdot 10^{-6}$	0
cpQM	0.000618	0.000618	$1.618 \cdot 10^{-8}$	$2.219 \cdot 10^{-5}$	$2.219 \cdot 10^{-5}$	0
cpb	$-9.464 \cdot 10^{-5}$	$-9.464 \cdot 10^{-5}$	$-2.113 \cdot 10^{-8}$	$1.842 \cdot 10^{-5}$	$1.842 \cdot 10^{-5}$	0
sm	0	0	0	0.0007306	0.0007306	$1.369 \cdot 10^{-8}$

1.48 $b\bar{b} \rightarrow b\bar{b}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQQ1	-0.5124	-0.5124	0	0.754	0.754	0
cQQ8	-0.0001932	-0.0001932	0	0.001648	0.001648	$6.066 \cdot 10^{-8}$
cQb1	0.09637	0.09637	$-2.075 \cdot 10^{-8}$	2.142	2.142	0
cQb8	-2.536	-2.536	0	0.5412	0.5412	0
cbW	-0.02371	-0.02371	0	0.3266	0.3266	$3.062 \cdot 10^{-8}$
cbWI	$1.336 \cdot 10^{-18}$	$1.565 \cdot 10^{-18}$	-0.1717	0.08699	0.08699	0
cpQ3	-0.1084	-0.1084	0	0.005196	0.005196	0
cpQM	-0.09504	-0.09504	0	0.006656	0.006656	0
cpb	0.0003206	0.0003206	$-3.119 \cdot 10^{-8}$	0.000236	0.000236	0
sm	0	0	0	8.108	8.108	0

1.49 $b\bar{b} \rightarrow d\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQd1	-0.008201	-0.008201	$-2.439 \cdot 10^{-8}$	0.5637	0.5637	0
cQd8	0.0243	0.0243	0	0.008195	0.008195	0
cQq11	0.1355	0.1355	0	0.6187	0.6187	0
cQq13	0.01439	0.01439	0	0.06572	0.06572	0
cQq81	0.2706	0.2706	0	0.09133	0.09133	0
cQq83	0.04091	0.04091	0	0.0138	0.0138	0
cbQqd1	0	0	0	0.5	0.5	$4 \cdot 10^{-8}$
cbQqd1I	0	0	0	0.5	0.5	$4 \cdot 10^{-8}$
cbQqd8	0	0	0	0.1111	0.1111	$-9 \cdot 10^{-8}$
cbQqd8I	0	0	0	0.1111	0.1111	$-9 \cdot 10^{-8}$

cbW	0.0001807	0.0001807	0	0.00434	0.00434	0
cbWI	$1.003 \cdot 10^{-17}$	$1.024 \cdot 10^{-17}$	-0.02146	0.004928	0.004928	0
cpQ3	0.002025	0.002025	0	0.0001311	0.0001311	0
cpQM	0.0009599	0.0009599	$1.042 \cdot 10^{-8}$	$3.108 \cdot 10^{-5}$	$3.108 \cdot 10^{-5}$	0
cpb	$-6.033 \cdot 10^{-5}$	$-6.033 \cdot 10^{-5}$	$-1.657 \cdot 10^{-8}$	$2.835 \cdot 10^{-5}$	$2.835 \cdot 10^{-5}$	0
sm	0	0	0	0.5166	0.5166	0

1.50 $b\bar{b} \rightarrow t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQQ1	-0.0127	-0.0127	0	0.007536	0.007536	0
cQQ8	0.04887	0.04887	$-2.046 \cdot 10^{-8}$	0.03346	0.03346	0
cQb1	-0.01366	-0.01366	$-7.322 \cdot 10^{-8}$	0.8373	0.8373	0
cQb8	0.03347	0.03347	0	0.004733	0.004733	0
cQt1	-0.1263	-0.1263	0	0.09471	0.09471	0
cQt8	-0.08706	-0.08706	0	0.004733	0.004733	0
cQtQb1	-0.006296	-0.006296	0	0.7308	0.7308	0
cQtQb1I	$8.375 \cdot 10^{-19}$	$8.626 \cdot 10^{-19}$	-0.02989	0.5196	0.5196	0
cQtQb8	0.0004577	0.0004577	0	0.1392	0.1392	0
cQtQb8I	$1.337 \cdot 10^{-18}$	$1.924 \cdot 10^{-18}$	-0.439	0.1317	0.1317	0
cbW	0.007927	0.007927	0	0.2245	0.2245	0
cbWI	$1.679 \cdot 10^{-18}$	$4.056 \cdot 10^{-18}$	-1.416	0.009533	0.009533	0
cpQ3	-0.01611	-0.01611	0	0.003652	0.003652	0
cpQM	-0.0008057	-0.0008057	$-1.241 \cdot 10^{-8}$	$1.827 \cdot 10^{-6}$	$1.827 \cdot 10^{-6}$	$-5.473 \cdot 10^{-8}$
cpb	$7.141 \cdot 10^{-5}$	$7.141 \cdot 10^{-5}$	$-1.4 \cdot 10^{-8}$	$3.104 \cdot 10^{-5}$	$3.104 \cdot 10^{-5}$	$3.221 \cdot 10^{-8}$
cpt	-0.001455	-0.001455	0	$1.966 \cdot 10^{-5}$	$1.966 \cdot 10^{-5}$	$5.087 \cdot 10^{-8}$
cptb	-0.0007142	-0.0007142	0	0.0005595	0.0005595	0
cptbI	$-6.312 \cdot 10^{-20}$	$3.402 \cdot 10^{-20}$	1.539	0.005151	0.005151	0

ctG	0.0928	0.0928	0	0.04449	0.04449	0
ctGI	$1.007 \cdot 10^{-18}$	$-1.372 \cdot 10^{-18}$	2.362	0.03504	0.03504	0
ctW	-0.5581	-0.5581	$3.584 \cdot 10^{-8}$	0.5922	0.5922	$1.689 \cdot 10^{-8}$
ctWI	$-1.949 \cdot 10^{-16}$	$1.189 \cdot 10^{-16}$	1.61	0.5464	0.5464	$1.83 \cdot 10^{-8}$
ctZ	0.01959	0.01959	$5.615 \cdot 10^{-7}$	0.003091	0.003091	$1.1 \cdot 10^{-6}$
ctZI	$1.033 \cdot 10^{-18}$	$1.068 \cdot 10^{-18}$	-0.03403	0.003428	0.003428	$1.079 \cdot 10^{-6}$
ctb1	-0.02774	-0.02774	$-3.605 \cdot 10^{-8}$	0.4789	0.4789	0
ctb8	0.0201	0.0201	0	0.0002119	0.0002119	0
ctp	$-1.306 \cdot 10^{-5}$	$-1.306 \cdot 10^{-5}$	0	$6.089 \cdot 10^{-7}$	$6.089 \cdot 10^{-7}$	0
ctpI	$1.496 \cdot 10^{-21}$	$-3.573 \cdot 10^{-22}$	1.239	$6.906 \cdot 10^{-7}$	$6.906 \cdot 10^{-7}$	0
sm	0	0	0	0.9633	0.9633	$1.038 \cdot 10^{-8}$

1.51 $b\bar{b} \rightarrow u\bar{u}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQbqu1	0	0	0	0.5	0.5	0
cQbqu1I	0	0	0	0.5	0.5	0
cQbqu1T	0	0	0	9.937	6.273	0.3688
cQbqu1TI	0	0	0	9.937	6.273	0.3688
cQbqu8	0	0	0	0.1111	0.1111	0
cQbqu8I	0	0	0	0.1111	0.1111	0
cQbqu8T	0	0	0	2.208	1.394	0.3688
cQbqu8TI	0	0	0	2.208	1.394	0.3688
cQq11	-0.1078	-0.1078	0	0.5271	0.5271	0
cQq13	0.1189	0.1189	0	0.5815	0.5815	0
cQq81	0.4324	0.4324	0	0.1459	0.1459	0
cQq83	-0.005915	-0.005915	0	0.001991	0.001991	0
cQu1	0.02125	0.02125	0	0.7303	0.7303	0

cQu8	0.03714	0.03714	0	0.01253	0.01253	0
cbW	0.0001624	0.0001624	0	0.005129	0.005129	0
cbWI	$3.613 \cdot 10^{-18}$	$3.677 \cdot 10^{-18}$	-0.01772	0.004668	0.004668	0
cpQ3	0.0003772	0.0003772	0	$2.883 \cdot 10^{-5}$	$2.883 \cdot 10^{-5}$	0
cpQM	0.0006277	0.0006277	$1.593 \cdot 10^{-8}$	$1.808 \cdot 10^{-5}$	$1.808 \cdot 10^{-5}$	0
cpb	$6.493 \cdot 10^{-5}$	$6.493 \cdot 10^{-5}$	$-1.54 \cdot 10^{-8}$	$2.737 \cdot 10^{-5}$	$2.737 \cdot 10^{-5}$	$3.653 \cdot 10^{-8}$
sm	0	0	0	0.8803	0.8803	0

1.52 $b\bar{t} \rightarrow e^- \bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQl31	0.02234	0.02234	0	0.1056	0.1056	0
cbW	$9.514 \cdot 10^{-5}$	$9.514 \cdot 10^{-5}$	$1.051 \cdot 10^{-8}$	0.004127	0.004127	$2.423 \cdot 10^{-8}$
cbWI	$-9.858 \cdot 10^{-20}$	$4.675 \cdot 10^{-20}$	1.474	0.004282	0.004282	0
cbLS1	0	0	0	0.08333	0.08333	0
cbLSI1	0	0	0	0.08333	0.08333	0
cpQ3	$4.132 \cdot 10^{-5}$	$4.132 \cdot 10^{-5}$	$2.42 \cdot 10^{-8}$	$1.252 \cdot 10^{-6}$	$1.252 \cdot 10^{-6}$	0
cptb	$-7.312 \cdot 10^{-7}$	$-7.312 \cdot 10^{-7}$	$1.368 \cdot 10^{-8}$	$6.275 \cdot 10^{-8}$	$6.275 \cdot 10^{-8}$	0
cptbI	$2.303 \cdot 10^{-23}$	$-1.076 \cdot 10^{-23}$	1.467	$2.658 \cdot 10^{-6}$	$2.658 \cdot 10^{-6}$	0
ctW	0.0008838	0.0008838	$1.131 \cdot 10^{-8}$	0.00233	0.00233	0
ctWI	$2.591 \cdot 10^{-18}$	$4.296 \cdot 10^{-18}$	-0.658	0.004387	0.004387	0
ctLS1	0	0	0	0.08333	0.08333	0
ctLSI1	0	0	0	0.08333	0.08333	0
ctLT1	0	0	0	0.3525	0.3525	0
ctLTI1	0	0	0	1.134	1.134	0
sm	0	0	0	$1.646 \cdot 10^{-5}$	$1.646 \cdot 10^{-5}$	0

1.53 $c\bar{c} \rightarrow \mu^+\mu^-$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.004204	0.004204	0

1.54 $c\bar{s} \rightarrow \tau^+\nu_\tau$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$9.717 \cdot 10^{-5}$	$9.717 \cdot 10^{-5}$	$2.058 \cdot 10^{-8}$

1.55 $d\bar{d} \rightarrow c\bar{c}$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.9464	0.9464	0

1.56 $d\bar{d} \rightarrow e^+e^-$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.001502	0.001502	0

1.57 $d\bar{d} \rightarrow s\bar{s}$

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

sm	0	0	0	0.64	0.64	0
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1.58 $e^+\nu_\mu \rightarrow e^+\nu_\mu$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	38.77	38.77	0

1.59 $e^+\nu_e \rightarrow \mu^+\nu_\mu$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.0003123	0.0003123	$3.202 \cdot 10^{-8}$

1.60 $e^+\nu_e \rightarrow e^+\nu_e$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	33.2	33.2	0

1.61 $e^+\tau^- \rightarrow e^+\tau^-$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	3.288	3.288	0

1.62 $e^+e^- \rightarrow \mu^+\mu^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.008108	0.008108	$-4.933 \cdot 10^{-8}$

1.63 $e^+e^- \rightarrow e^+e^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.01691	0.01691	$-5.913 \cdot 10^{-8}$

1.64 $gg \rightarrow gg$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	61.49	61.49	0

1.65 $gg \rightarrow ggg$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.03951	0.03951	0

1.66 $gg \rightarrow t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
ctG	0.1264	0.1264	0	0.08575	0.08575	0
ctGI	$-1.005 \cdot 10^{-17}$	$-9.617 \cdot 10^{-18}$	0.04299	0.08027	0.08027	0

sm	0	0	0	0.4157	0.4157	0
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1.67 $gg \rightarrow u\bar{u}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	18.27	18.27	0

1.68 $s\bar{s} \rightarrow \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.004254	0.004254	0

1.69 $s\bar{s} \rightarrow s\bar{s}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	77.32	77.32	0

1.70 $t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQ132	0.1124	0.1124	$8.893 \cdot 10^{-8}$	1.199	1.199	0
cQ1M2	0.05957	0.05957	0	0.3173	0.3173	0
cpQM	-0.0004705	-0.0004705	$2.125 \cdot 10^{-8}$	$2.103 \cdot 10^{-5}$	$2.103 \cdot 10^{-5}$	0
cpt	$8.532 \cdot 10^{-5}$	$8.532 \cdot 10^{-5}$	$-2.344 \cdot 10^{-8}$	$9.832 \cdot 10^{-6}$	$9.832 \cdot 10^{-6}$	0

ctW	$-1.731 \cdot 10^{-9}$	0	1	$5.385 \cdot 10^{-16}$	0	1
ctWI	$-1.106 \cdot 10^{-25}$	0	1	$1.989 \cdot 10^{-16}$	0	1
ctZ	-0.001026	-0.001026	$4.873 \cdot 10^{-7}$	0.001111	0.001111	$1.08 \cdot 10^{-6}$
ctZI	$-1.306 \cdot 10^{-20}$	$-1.581 \cdot 10^{-18}$	-120	0.0005451	0.0005451	$1.101 \cdot 10^{-6}$
ctl2	-0.02446	-0.02446	0	0.3056	0.3056	0
sm	0	0	0	0.0006844	0.0006844	0

1.71 $t\bar{t} \rightarrow \tau^+ \tau^-$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQe3	-0.0137	-0.0137	0	0.286	0.286	0
cQlM3	-0.03827	-0.03827	0	0.161	0.161	0
cpQM	$3.265 \cdot 10^{-5}$	$3.265 \cdot 10^{-5}$	$-6.125 \cdot 10^{-8}$	$4.014 \cdot 10^{-6}$	$4.014 \cdot 10^{-6}$	$-4.982 \cdot 10^{-8}$
cpt	0.0001181	0.0001181	$-8.47 \cdot 10^{-8}$	$3.531 \cdot 10^{-6}$	$3.531 \cdot 10^{-6}$	$-2.832 \cdot 10^{-8}$
ctW	0.008501	0.008501	$5.293 \cdot 10^{-7}$	0.01732	0.01732	$1.097 \cdot 10^{-6}$
ctWI	$-4.075 \cdot 10^{-18}$	$-2.59 \cdot 10^{-18}$	0.3644	0.01379	0.01379	$1.16 \cdot 10^{-6}$
ctZ	-0.006741	-0.006741	$5.341 \cdot 10^{-7}$	0.01455	0.01455	$1.1 \cdot 10^{-6}$
ctZI	$-5.285 \cdot 10^{-19}$	$-1.506 \cdot 10^{-18}$	-1.849	0.006421	0.006421	$1.09 \cdot 10^{-6}$
cte3	-0.028	-0.028	0	0.161	0.161	0
ctl3	-0.01169	-0.01169	0	0.1105	0.1105	0
ctlS3	0.003341	0.003341	0	0.1668	0.1668	0
ctlSI3	$2.516 \cdot 10^{-20}$	$4.879 \cdot 10^{-20}$	-0.939	0.1668	0.1668	0
ctlT3	0.01156	0.01156	0	1.964	1.964	0
ctlTI3	$5.285 \cdot 10^{-20}$	$-9.223 \cdot 10^{-20}$	2.745	1.964	1.964	0
ctp	$-1.002 \cdot 10^{-6}$	$-1.002 \cdot 10^{-6}$	0	$3.101 \cdot 10^{-8}$	$3.101 \cdot 10^{-8}$	0
ctpI	$-2.344 \cdot 10^{-23}$	$-3.676 \cdot 10^{-25}$	0.9843	$3.49 \cdot 10^{-8}$	$3.49 \cdot 10^{-8}$	0
sm	0	0	0	0.006818	0.006818	0

1.72 $t\bar{t} \rightarrow c\bar{c}$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQq11	0.2155	0.2155	0	0.9829	0.9829	0
cQq13	0.1719	0.1719	0	0.7834	0.7834	0
cQq81	0.2711	0.2711	0	0.08493	0.08493	0
cQq83	0.5944	0.5944	$1.682 \cdot 10^{-8}$	0.194	0.194	0
cQu1	0.004402	0.004402	$-2.272 \cdot 10^{-8}$	0.03655	0.03655	0
cQu8	0.03322	0.03322	0	0.004638	0.004638	0
cpQM	-0.001235	-0.001235	0	$3.276 \cdot 10^{-5}$	$3.276 \cdot 10^{-5}$	0
cpt	$-9.153 \cdot 10^{-5}$	$-9.153 \cdot 10^{-5}$	$1.093 \cdot 10^{-8}$	$1.805 \cdot 10^{-5}$	$1.805 \cdot 10^{-5}$	0
ctG	0.1977	0.1977	0	0.0434	0.0434	0
ctGI	$1.476 \cdot 10^{-24}$	$5.135 \cdot 10^{-27}$	0.9965	0.03395	0.03395	0
ctQqu1	0	0	0	0.5004	0.5004	$3.997 \cdot 10^{-8}$
ctQqu1I	0	0	0	0.5004	0.5004	$3.997 \cdot 10^{-8}$
ctQqu8	0	0	0	0.1112	0.1112	$-8.992 \cdot 10^{-8}$
ctQqu8I	0	0	0	0.1112	0.1112	$-8.992 \cdot 10^{-8}$
ctW	0.01184	0.01184	$4.223 \cdot 10^{-7}$	0.02573	0.02573	$9.717 \cdot 10^{-7}$
ctWI	$1.156 \cdot 10^{-10}$	$1.156 \cdot 10^{-10}$	$6.057 \cdot 10^{-7}$	0.0197	0.0197	$9.645 \cdot 10^{-7}$
ctZ	-0.005123	-0.005123	$5.465 \cdot 10^{-7}$	0.0174	0.0174	$1.092 \cdot 10^{-6}$
ctZI	$-1.012 \cdot 10^{-10}$	$-1.012 \cdot 10^{-10}$	$5.931 \cdot 10^{-7}$	0.0005143	0.0005143	$1.108 \cdot 10^{-6}$
ctq1	0.007485	0.007485	$1.336 \cdot 10^{-8}$	0.03655	0.03655	0
ctq8	0.02132	0.02132	0	0.0006196	0.0006196	0
ctu1	0.1131	0.1131	0	0.9829	0.9829	0
ctu8	0.5353	0.5353	0	0.1741	0.1741	0
sm	0	0	0	0.6047	0.6047	0

1.73 $t\bar{t} \rightarrow d\bar{d}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQd1	-0.001712	-0.001712	0	0.001645	0.001645	0
cQd8	0.1432	0.1432	0	0.04176	0.04176	0
cQq11	-0.1292	-0.1292	0	0.6361	0.6361	0
cQq13	0.04908	0.04908	$2.038 \cdot 10^{-8}$	0.2443	0.2443	0
cQq81	0.1499	0.1499	0	0.044	0.044	0
cQq83	-0.6636	-0.6636	0	0.2174	0.2174	0
cQtqd1	0	0	0	0.5004	0.5004	0
cQtqd1I	0	0	0	0.5004	0.5004	0
cQtqd1T	0	0	0	14	4.073	0.7091
cQtqd1TI	0	0	0	14	4.073	0.7091
cQtqd8	0	0	0	0.1112	0.1112	0
cQtqd8I	0	0	0	0.1112	0.1112	0
cQtqd8T	0	0	0	3.111	0.905	0.7091
cQtqd8TI	0	0	0	3.111	0.905	0.7091
cpQM	-0.0009112	-0.0009112	$1.097 \cdot 10^{-8}$	$3.197 \cdot 10^{-5}$	$3.197 \cdot 10^{-5}$	0
cpt	$4.51 \cdot 10^{-5}$	$4.51 \cdot 10^{-5}$	$-4.435 \cdot 10^{-8}$	$1.818 \cdot 10^{-5}$	$1.818 \cdot 10^{-5}$	0
ctG	0.1977	0.1977	0	0.01155	0.01155	0
ctGI	$4.595 \cdot 10^{-26}$	$-3.676 \cdot 10^{-25}$	9	0.002101	0.002101	0
ctW	0.002784	0.002784	$-3.592 \cdot 10^{-8}$	0.006564	0.006564	$3.809 \cdot 10^{-7}$
ctWI	$1.039 \cdot 10^{-15}$	$1.036 \cdot 10^{-15}$	0.003191	0.004859	0.004859	$3.91 \cdot 10^{-7}$
ctZ	$-4.714 \cdot 10^{-5}$	$-4.714 \cdot 10^{-5}$	$-1.697 \cdot 10^{-7}$	0.005116	0.005116	$1.095 \cdot 10^{-6}$
ctZI	$-1.199 \cdot 10^{-15}$	$-1.198 \cdot 10^{-15}$	0.0009999	0.002906	0.002906	$1.101 \cdot 10^{-6}$
ctd1	-0.01172	-0.01172	0	0.198	0.198	0
ctd8	0.1499	0.1499	0	0.044	0.044	0
ctq1	-0.00469	-0.00469	$2.132 \cdot 10^{-8}$	0.04666	0.04666	0
ctq8	0.2706	0.2706	0	0.08473	0.08473	0
sm	0	0	0	0.8023	0.8023	0

1.74 $t\bar{t} \rightarrow s\bar{s}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQd1	-0.006026	-0.006026	$-1.659 \cdot 10^{-8}$	0.3098	0.3098	0
cQd8	0.1901	0.1901	0	0.05759	0.05759	0
cQq11	-0.1097	-0.1097	0	0.5408	0.5408	0
cQq13	0.084	0.084	0	0.4151	0.4151	0
cQq81	0.3959	0.3959	0	0.127	0.127	0
cQq83	-0.1668	-0.1668	0	0.04971	0.04971	0
cQtqd1	0	0	0	0.5004	0.5004	0
cQtqd1I	0	0	0	0.5004	0.5004	0
cQtqd1T	0	0	0	71.18	7.744	0.8912
cQtqd1TI	0	0	0	71.18	7.744	0.8912
cQtqd8	0	0	0	0.1112	0.1112	0
cQtqd8I	0	0	0	0.1112	0.1112	0
cQtqd8T	0	0	0	15.82	1.721	0.8912
cQtqd8TI	0	0	0	15.82	1.721	0.8912
cpQM	-0.0007726	-0.0007726	$1.294 \cdot 10^{-8}$	$2.724 \cdot 10^{-5}$	$2.724 \cdot 10^{-5}$	0
cpt	0.0001363	0.0001363	0	$4.328 \cdot 10^{-5}$	$4.328 \cdot 10^{-5}$	$2.311 \cdot 10^{-8}$
ctG	0.1977	0.1977	0	0.0455	0.0455	0
ctGI	0	$6.617 \cdot 10^{-24}$	∞	0.03605	0.03605	0
ctW	0.005012	0.005012	$-9.976 \cdot 10^{-8}$	0.005355	0.005355	$3.735 \cdot 10^{-7}$
ctWI	$5.662 \cdot 10^{-13}$	$5.662 \cdot 10^{-13}$	$7.258 \cdot 10^{-6}$	0.002961	0.002961	$3.715 \cdot 10^{-7}$
ctZ	0.001006	0.001006	$5.962 \cdot 10^{-7}$	0.00355	0.00355	$1.099 \cdot 10^{-6}$
ctZI	$-4.955 \cdot 10^{-13}$	$-4.955 \cdot 10^{-13}$	$-2.825 \cdot 10^{-6}$	0.003492	0.003492	$1.088 \cdot 10^{-6}$
ctd1	-0.03305	-0.03305	0	0.5716	0.5716	0
ctd8	0.3959	0.3959	0	0.127	0.127	0
ctq1	-0.0004775	-0.0004775	$3.351 \cdot 10^{-7}$	0.1914	0.1914	0
ctq8	0.02383	0.02383	0	0.001468	0.001468	0

sm	0	0	0	1.018	1.018	0
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1.75 $t\bar{t} \rightarrow t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQQ1	-9.579	-9.579	0	6.345	6.345	0
cQQ8	-0.266	-0.266	0	0.2644	0.2644	$3.782 \cdot 10^{-8}$
cQt1	-0.2943	-0.2943	0	13.44	13.44	0
cQt8	-5.108	-5.108	0	1.791	1.791	0
cpQM	0.03905	0.03905	0	0.008405	0.008405	0
cpt	-0.07906	-0.07906	0	0.009077	0.009077	0
ctG	0.141	0.141	0	0.1154	0.1154	0
ctGI	$8.224 \cdot 10^{-18}$	$2.672 \cdot 10^{-18}$	0.6751	0.04616	0.04616	0
ctW	-0.7539	-0.7539	$4.775 \cdot 10^{-7}$	0.86	0.86	$9.651 \cdot 10^{-7}$
ctWI	$-5.361 \cdot 10^{-17}$	$-4.24 \cdot 10^{-18}$	0.9209	0.4736	0.4736	$9.713 \cdot 10^{-7}$
ctZ	0.2223	0.2223	$5.399 \cdot 10^{-7}$	0.3584	0.3584	$1.116 \cdot 10^{-6}$
ctZI	$-1.695 \cdot 10^{-17}$	$1.116 \cdot 10^{-16}$	7.587	0.03687	0.03687	$1.085 \cdot 10^{-6}$
ctp	0.0778	0.0778	0	0.008701	0.008701	0
ctpI	$5.01 \cdot 10^{-18}$	$-4.53 \cdot 10^{-18}$	1.904	0.004879	0.004879	0
ctt1	-17.56	-17.56	0	25.38	25.38	0
sm	0	0	0	5.609	5.609	0

1.76 $u\bar{d} \rightarrow \mu^+ \nu_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.01435	0.01435	0

1.77 $u\bar{d} \rightarrow c\bar{s}$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.000785	0.000785	$1.274 \cdot 10^{-8}$

1.78 $u\bar{d} \rightarrow u\bar{d}$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	1.999	1.999	0

1.79 $u\bar{u} \rightarrow \nu_e \bar{\nu}_e$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.0005843	0.0005843	$-3.423 \cdot 10^{-8}$

1.80 $u\bar{u} \rightarrow c\bar{c}$

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.5292	0.5292	0

1.81 $u\bar{u} \rightarrow u\bar{u}$

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

sm	0	0	0	4.855	4.855	0
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1.82 $zz \rightarrow W^+W^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	86.3	86.3	$2.317 \cdot 10^{-8}$

1.83 $zz \rightarrow zz$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.08108	0.08108	0

2 By parameter point

2.1 cQQ1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	-0.5124	-0.5124	0	0.754	0.754	0
$b\bar{b} \rightarrow t\bar{t}$	-0.0127	-0.0127	0	0.007536	0.007536	0
$t\bar{t} \rightarrow t\bar{t}$	-9.579	-9.579	0	6.345	6.345	0

2.2 cQQ8

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

$b\bar{b} \rightarrow b\bar{b}$	-0.0001932	-0.0001932	0	0.001648	0.001648	$6.066 \cdot 10^{-8}$
$b\bar{b} \rightarrow t\bar{t}$	0.04887	0.04887	$-2.046 \cdot 10^{-8}$	0.03346	0.03346	0
$t\bar{t} \rightarrow t\bar{t}$	-0.266	-0.266	0	0.2644	0.2644	$3.782 \cdot 10^{-8}$

2.3 cQb1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	0.09637	0.09637	$-2.075 \cdot 10^{-8}$	2.142	2.142	0
$b\bar{b} \rightarrow t\bar{t}$	-0.01366	-0.01366	$-7.322 \cdot 10^{-8}$	0.8373	0.8373	0

2.4 cQb8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	-2.536	-2.536	0	0.5412	0.5412	0
$b\bar{b} \rightarrow t\bar{t}$	0.03347	0.03347	0	0.004733	0.004733	0

2.5 cQbqu1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	0
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.5	0.5	0

2.6 cQbqu1I

interference	square
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	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	0
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.5	0.5	0

2.7 cQbqu1T

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	32.27	2.848	0.9117
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	9.937	6.273	0.3688

2.8 cQbqu1TI

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	32.27	2.848	0.9117
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	9.937	6.273	0.3688

2.9 cQbqu8

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	0
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.1111	0.1111	0

2.10 cQbqu8I

interference square

	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	0
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.1111	0.1111	0

2.11 cQbqu8T

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	7.17	0.6329	0.9117
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	2.208	1.394	0.3688

2.12 cQbqu8TI

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	7.17	0.6329	0.9117
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	2.208	1.394	0.3688

2.13 cQd1

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$b\bar{b} \rightarrow d\bar{d}$	−0.008201	−0.008201	$−2.439 \cdot 10^{-8}$	0.5637	0.5637	0
$t\bar{t} \rightarrow d\bar{d}$	−0.001712	−0.001712	0	0.001645	0.001645	0
$t\bar{t} \rightarrow s\bar{s}$	−0.006026	−0.006026	$−1.659 \cdot 10^{-8}$	0.3098	0.3098	0

2.14 cQd8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow d\bar{d}$	0.0243	0.0243	0	0.008195	0.008195	0
$t\bar{t} \rightarrow d\bar{d}$	0.1432	0.1432	0	0.04176	0.04176	0
$t\bar{t} \rightarrow s\bar{s}$	0.1901	0.1901	0	0.05759	0.05759	0

2.15 cQe2

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow \mu^+\mu^-$	-0.002922	-0.002922	$-3.422 \cdot 10^{-8}$	0.06697	0.06697	0

2.16 cQe3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow \tau^+\tau^-$	-0.0137	-0.0137	0	0.286	0.286	0

2.17 cQl31

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{t} \rightarrow e^-\bar{\nu}_e$	0.02234	0.02234	0	0.1056	0.1056	0

2.18 cQl32

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

$b\bar{b} \rightarrow \mu^+\mu^-$	0.00775	0.00775	0	0.08163	0.08163	0
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	0.1124	0.1124	$8.893 \cdot 10^{-8}$	1.199	1.199	0

2.19 cQIM1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	-0.005651	-0.005651	0	0.0242	0.0242	0

2.20 cQIM2

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow \mu^+\mu^-$	0.06012	0.06012	0	0.3166	0.3166	0
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	0.05957	0.05957	0	0.3173	0.3173	0

2.21 cQIM3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow \tau^+\tau^-$	-0.03827	-0.03827	0	0.161	0.161	0

2.22 cQq11

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow d\bar{d}$	0.1355	0.1355	0	0.6187	0.6187	0
$b\bar{b} \rightarrow u\bar{u}$	-0.1078	-0.1078	0	0.5271	0.5271	0

$t\bar{t} \rightarrow c\bar{c}$	0.2155	0.2155	0	0.9829	0.9829	0
$t\bar{t} \rightarrow d\bar{d}$	-0.1292	-0.1292	0	0.6361	0.6361	0
$t\bar{t} \rightarrow s\bar{s}$	-0.1097	-0.1097	0	0.5408	0.5408	0

2.23 cQq13

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0.1065	0.1065	0	0.5032	0.5032	0
$b\bar{b} \rightarrow d\bar{d}$	0.01439	0.01439	0	0.06572	0.06572	0
$b\bar{b} \rightarrow u\bar{u}$	0.1189	0.1189	0	0.5815	0.5815	0
$t\bar{t} \rightarrow c\bar{c}$	0.1719	0.1719	0	0.7834	0.7834	0
$t\bar{t} \rightarrow d\bar{d}$	0.04908	0.04908	$2.038 \cdot 10^{-8}$	0.2443	0.2443	0
$t\bar{t} \rightarrow s\bar{s}$	0.084	0.084	0	0.4151	0.4151	0

2.24 cQq81

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow d\bar{d}$	0.2706	0.2706	0	0.09133	0.09133	0
$b\bar{b} \rightarrow u\bar{u}$	0.4324	0.4324	0	0.1459	0.1459	0
$t\bar{t} \rightarrow c\bar{c}$	0.2711	0.2711	0	0.08493	0.08493	0
$t\bar{t} \rightarrow d\bar{d}$	0.1499	0.1499	0	0.044	0.044	0
$t\bar{t} \rightarrow s\bar{s}$	0.3959	0.3959	0	0.127	0.127	0

2.25 cQq83

interference square

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	$6.809 \cdot 10^{-11}$	$6.523 \cdot 10^{-20}$	1	0.01073	0.01073	0
$b\bar{b} \rightarrow d\bar{d}$	0.04091	0.04091	0	0.0138	0.0138	0
$b\bar{b} \rightarrow u\bar{u}$	-0.005915	-0.005915	0	0.001991	0.001991	0
$t\bar{t} \rightarrow c\bar{c}$	0.5944	0.5944	$1.682 \cdot 10^{-8}$	0.194	0.194	0
$t\bar{t} \rightarrow d\bar{d}$	-0.6636	-0.6636	0	0.2174	0.2174	0
$t\bar{t} \rightarrow s\bar{s}$	-0.1668	-0.1668	0	0.04971	0.04971	0

2.26 cQt1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	-0.1263	-0.1263	0	0.09471	0.09471	0
$t\bar{t} \rightarrow t\bar{t}$	-0.2943	-0.2943	0	13.44	13.44	0

2.27 cQt8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	-0.08706	-0.08706	0	0.004733	0.004733	0
$t\bar{t} \rightarrow t\bar{t}$	-5.108	-5.108	0	1.791	1.791	0

2.28 cQtQb1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	-0.006296	-0.006296	0	0.7308	0.7308	0

2.29 cQtQb1I

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	$8.375 \cdot 10^{-19}$	$8.626 \cdot 10^{-19}$	-0.02989	0.5196	0.5196	0

2.30 cQtQb8

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	0.0004577	0.0004577	0	0.1392	0.1392	0

2.31 cQtQb8I

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	$1.337 \cdot 10^{-18}$	$1.924 \cdot 10^{-18}$	-0.439	0.1317	0.1317	0

2.32 cQtqd1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	0
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.5004	0.5004	0
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	0.5004	0.5004	0

2.33 cQtqd1I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	0
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.5004	0.5004	0
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	0.5004	0.5004	0

2.34 cQtqd1T

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	32.27	2.848	0.9117
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	14	4.073	0.7091
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	71.18	7.744	0.8912

2.35 cQtqd1TI

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	32.27	2.848	0.9117
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	14	4.073	0.7091
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	71.18	7.744	0.8912

2.36 cQtqd8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	0
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.1112	0.1112	0
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	0.1112	0.1112	0

2.37 cQtqd8I

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	0
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.1112	0.1112	0
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	0.1112	0.1112	0

2.38 cQtqd8T

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	7.17	0.6329	0.9117
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	3.111	0.905	0.7091
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	15.82	1.721	0.8912

2.39 cQtqd8TI

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	7.17	0.6329	0.9117
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	3.111	0.905	0.7091
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	15.82	1.721	0.8912

2.40 cQu1

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1

$b\bar{b} \rightarrow u\bar{u}$	0.02125	0.02125	0	0.7303	0.7303	0
$t\bar{t} \rightarrow c\bar{c}$	0.004402	0.004402	$-2.272 \cdot 10^{-8}$	0.03655	0.03655	0

2.41 cQu8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow u\bar{u}$	0.03714	0.03714	0	0.01253	0.01253	0
$t\bar{t} \rightarrow c\bar{c}$	0.03322	0.03322	0	0.004638	0.004638	0

2.42 cbQqd1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
$b\bar{b} \rightarrow d\bar{d}$	0	0	0	0.5	0.5	$4 \cdot 10^{-8}$

2.43 cbQqd1I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
$b\bar{b} \rightarrow d\bar{d}$	0	0	0	0.5	0.5	$4 \cdot 10^{-8}$

2.44 cbQqd8

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

$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
$b\bar{b} \rightarrow d\bar{d}$	0	0	0	0.1111	0.1111	$-9 \cdot 10^{-8}$

2.45 cbQqd8I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
$b\bar{b} \rightarrow d\bar{d}$	0	0	0	0.1111	0.1111	$-9 \cdot 10^{-8}$

2.46 cbW

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow W^+ \bar{t}b$	$3.324 \cdot 10^{-8}$	$3.324 \cdot 10^{-8}$	0	$2.144 \cdot 10^{-5}$	$2.144 \cdot 10^{-5}$	0
$HH \rightarrow z \bar{b}b$	$8.401 \cdot 10^{-8}$	$8.401 \cdot 10^{-8}$	$1.19 \cdot 10^{-8}$	$6.91 \cdot 10^{-7}$	$6.91 \cdot 10^{-7}$	0
$HW^+ \rightarrow \gamma t \bar{b}$	$2.878 \cdot 10^{-9}$	$2.878 \cdot 10^{-9}$	0	$4.017 \cdot 10^{-6}$	$4.017 \cdot 10^{-6}$	$-2.49 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	-0.05332	-0.05332	0	0.1119	0.1119	$8.937 \cdot 10^{-8}$
$H\gamma \rightarrow b\bar{b}$	$-1.46 \cdot 10^{-6}$	$-1.46 \cdot 10^{-6}$	0	0.6603	0.6603	$-1.514 \cdot 10^{-8}$
$HZ \rightarrow b\bar{b}$	0.001412	0.001412	$7.08 \cdot 10^{-8}$	0.229	0.229	0
$W^+W^- \rightarrow Hb\bar{b}$	$-3.023 \cdot 10^{-7}$	$-3.023 \cdot 10^{-7}$	0	$8.273 \cdot 10^{-7}$	$8.273 \cdot 10^{-7}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-5.461 \cdot 10^{-8}$	$-5.461 \cdot 10^{-8}$	$3.663 \cdot 10^{-8}$	$2.329 \cdot 10^{-8}$	$2.329 \cdot 10^{-8}$	0
$\bar{b}t \rightarrow \bar{d}u$	0.0002602	0.0002602	0	0.013	0.013	0
$b\bar{b} \rightarrow \gamma\gamma$	$6.414 \cdot 10^{-6}$	$6.414 \cdot 10^{-6}$	$-4.677 \cdot 10^{-8}$	0.0006187	0.0006187	$-3.233 \cdot 10^{-8}$
$b\bar{b} \rightarrow \mu^+\mu^-$	$5.971 \cdot 10^{-5}$	$5.971 \cdot 10^{-5}$	$1.675 \cdot 10^{-8}$	0.001071	0.001071	0
$b\bar{b} \rightarrow \nu_e \bar{\nu}_e$	$8.063 \cdot 10^{-5}$	$8.063 \cdot 10^{-5}$	$1.24 \cdot 10^{-8}$	0.0002271	0.0002271	0
$b\bar{b} \rightarrow b\bar{b}$	-0.02371	-0.02371	0	0.3266	0.3266	$3.062 \cdot 10^{-8}$
$b\bar{b} \rightarrow d\bar{d}$	0.0001807	0.0001807	0	0.00434	0.00434	0
$b\bar{b} \rightarrow t\bar{t}$	0.007927	0.007927	0	0.2245	0.2245	0

$b\bar{b} \rightarrow u\bar{u}$	0.0001624	0.0001624	0	0.005129	0.005129	0
$b\bar{t} \rightarrow e^-\bar{\nu}_e$	$9.514 \cdot 10^{-5}$	$9.514 \cdot 10^{-5}$	$1.051 \cdot 10^{-8}$	0.004127	0.004127	$2.423 \cdot 10^{-8}$

2.47 cbWI

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow W^+\bar{t}b$	$-1.753 \cdot 10^{-7}$	$-1.753 \cdot 10^{-7}$	0	$1.198 \cdot 10^{-5}$	$1.198 \cdot 10^{-5}$	0
$HH \rightarrow z\bar{b}b$	$1.425 \cdot 10^{-8}$	$1.425 \cdot 10^{-8}$	$7.017 \cdot 10^{-8}$	$1.551 \cdot 10^{-6}$	$1.551 \cdot 10^{-6}$	$6.448 \cdot 10^{-8}$
$HW^+ \rightarrow \gamma t\bar{b}$	$-9.51 \cdot 10^{-9}$	$-9.51 \cdot 10^{-9}$	$3.155 \cdot 10^{-8}$	$1.769 \cdot 10^{-6}$	$1.769 \cdot 10^{-6}$	0
$HW^- \rightarrow \bar{t}b$	$1.407 \cdot 10^{-6}$	$1.407 \cdot 10^{-6}$	0	2.074	2.074	0
$H\gamma \rightarrow b\bar{b}$	$5.584 \cdot 10^{-20}$	$5.488 \cdot 10^{-20}$	0.01718	0.2375	0.2375	0
$H z \rightarrow b\bar{b}$	$2.529 \cdot 10^{-6}$	$2.529 \cdot 10^{-6}$	0	1.417	1.417	0
$W^+W^- \rightarrow Hb\bar{b}$	$-2.49 \cdot 10^{-8}$	$-2.49 \cdot 10^{-8}$	0	$3.21 \cdot 10^{-6}$	$3.21 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$2.531 \cdot 10^{-9}$	$2.531 \cdot 10^{-9}$	$3.951 \cdot 10^{-8}$	$1.603 \cdot 10^{-8}$	$1.603 \cdot 10^{-8}$	0
$\bar{b}t \rightarrow \bar{d}u$	$-3.327 \cdot 10^{-20}$	$-1.726 \cdot 10^{-19}$	-4.186	0.01232	0.01232	0
$b\bar{b} \rightarrow \gamma\gamma$	$-1.643 \cdot 10^{-22}$	$-6.472 \cdot 10^{-22}$	-2.938	0.0006186	0.0006186	$-3.233 \cdot 10^{-8}$
$b\bar{b} \rightarrow \mu^+\mu^-$	$4.554 \cdot 10^{-16}$	$4.554 \cdot 10^{-16}$	$5.674 \cdot 10^{-5}$	0.002095	0.002095	0
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	$-3.527 \cdot 10^{-20}$	$-1.31 \cdot 10^{-20}$	0.6287	0.001787	0.001787	0
$b\bar{b} \rightarrow b\bar{b}$	$1.336 \cdot 10^{-18}$	$1.565 \cdot 10^{-18}$	-0.1717	0.08699	0.08699	0
$b\bar{b} \rightarrow d\bar{d}$	$1.003 \cdot 10^{-17}$	$1.024 \cdot 10^{-17}$	-0.02146	0.004928	0.004928	0
$b\bar{b} \rightarrow t\bar{t}$	$1.679 \cdot 10^{-18}$	$4.056 \cdot 10^{-18}$	-1.416	0.009533	0.009533	0
$b\bar{b} \rightarrow u\bar{u}$	$3.613 \cdot 10^{-18}$	$3.677 \cdot 10^{-18}$	-0.01772	0.004668	0.004668	0
$b\bar{t} \rightarrow e^-\bar{\nu}_e$	$-9.858 \cdot 10^{-20}$	$4.675 \cdot 10^{-20}$	1.474	0.004282	0.004282	0

2.48 cblS1

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

$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	0.08333	0.08333	0
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2.49 cblS2

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow \mu^+ \mu^-$	0	0	0	0.1667	0.1667	0

2.50 cblSI1

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	0.08333	0.08333	0

2.51 cblSI2

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow \mu^+ \mu^-$	0	0	0	0.1667	0.1667	0

2.52 cbtud1

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.008708	0.008708	$-2.297 \cdot 10^{-8}$

2.53 cbtud1I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.008708	0.008708	$-2.297 \cdot 10^{-8}$

2.54 cbtud8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.001935	0.001935	$-2.067 \cdot 10^{-7}$

2.55 cbtud8I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.001935	0.001935	$-2.067 \cdot 10^{-7}$

2.56 cpQ3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow W^+ \bar{t}b$	$8.575 \cdot 10^{-6}$	$8.575 \cdot 10^{-6}$	0	$6.628 \cdot 10^{-6}$	$6.628 \cdot 10^{-6}$	0
$HH \rightarrow z \bar{b}b$	$1.522 \cdot 10^{-6}$	$1.522 \cdot 10^{-6}$	0	$1.018 \cdot 10^{-6}$	$1.018 \cdot 10^{-6}$	0
$HW^+ \rightarrow \gamma t \bar{b}$	$-4.117 \cdot 10^{-8}$	$-4.117 \cdot 10^{-8}$	0	$2.222 \cdot 10^{-8}$	$2.222 \cdot 10^{-8}$	0
$HW^- \rightarrow \bar{t}b$	-0.9216	-0.9216	0	1.686	1.686	0
$H z \rightarrow b \bar{b}$	0.2696	0.2696	0	2.355	2.355	0
$W^+ W^- \rightarrow H b \bar{b}$	$-4.333 \cdot 10^{-6}$	$-4.333 \cdot 10^{-6}$	0	$7.67 \cdot 10^{-7}$	$7.67 \cdot 10^{-7}$	0
$W^+ W^- \rightarrow H t \bar{t}$	$3.283 \cdot 10^{-5}$	$3.283 \cdot 10^{-5}$	0	$4.168 \cdot 10^{-5}$	$4.168 \cdot 10^{-5}$	0
$\bar{b}t \rightarrow \bar{d}u$	0.002789	0.002789	$3.586 \cdot 10^{-8}$	$8.453 \cdot 10^{-5}$	$8.453 \cdot 10^{-5}$	$1.183 \cdot 10^{-8}$

$b\bar{b} \rightarrow \mu^+\mu^-$	0.00023	0.00023	0	$1.307 \cdot 10^{-5}$	$1.307 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	$9.476 \cdot 10^{-5}$	$9.476 \cdot 10^{-5}$	0	$6.805 \cdot 10^{-6}$	$6.805 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow b\bar{b}$	-0.1084	-0.1084	0	0.005196	0.005196	0
$b\bar{b} \rightarrow d\bar{d}$	0.002025	0.002025	0	0.0001311	0.0001311	0
$b\bar{b} \rightarrow t\bar{t}$	-0.01611	-0.01611	0	0.003652	0.003652	0
$b\bar{b} \rightarrow u\bar{u}$	0.0003772	0.0003772	0	$2.883 \cdot 10^{-5}$	$2.883 \cdot 10^{-5}$	0
$b\bar{t} \rightarrow e^-\bar{\nu}_e$	$4.132 \cdot 10^{-5}$	$4.132 \cdot 10^{-5}$	$2.42 \cdot 10^{-8}$	$1.252 \cdot 10^{-6}$	$1.252 \cdot 10^{-6}$	0

2.57 cpQM

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow z\bar{b}b$	$7.904 \cdot 10^{-6}$	$7.904 \cdot 10^{-6}$	$1.265 \cdot 10^{-8}$	$2.173 \cdot 10^{-5}$	$2.173 \cdot 10^{-5}$	0
$HH \rightarrow zt\bar{t}$	$9.632 \cdot 10^{-5}$	$9.632 \cdot 10^{-5}$	0	0.0001012	0.0001012	0
$HZ \rightarrow b\bar{b}$	0.04346	0.04346	0	0.1954	0.1954	0
$HZ \rightarrow t\bar{t}$	1.846	1.846	0	0.4705	0.4705	0
$W^+W^- \rightarrow Hb\bar{b}$	$-1.675 \cdot 10^{-6}$	$-1.675 \cdot 10^{-6}$	0	$5.296 \cdot 10^{-8}$	$5.296 \cdot 10^{-8}$	$1.888 \cdot 10^{-8}$
$W^+W^- \rightarrow Ht\bar{t}$	$-1.916 \cdot 10^{-6}$	$-1.916 \cdot 10^{-6}$	0	$1.274 \cdot 10^{-6}$	$1.274 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow \mu^+\mu^-$	0.0002072	0.0002072	0	$4.955 \cdot 10^{-6}$	$4.955 \cdot 10^{-6}$	$2.018 \cdot 10^{-8}$
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	0.000618	0.000618	$1.618 \cdot 10^{-8}$	$2.219 \cdot 10^{-5}$	$2.219 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow b\bar{b}$	-0.09504	-0.09504	0	0.006656	0.006656	0
$b\bar{b} \rightarrow d\bar{d}$	0.0009599	0.0009599	$1.042 \cdot 10^{-8}$	$3.108 \cdot 10^{-5}$	$3.108 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow t\bar{t}$	-0.0008057	-0.0008057	$-1.241 \cdot 10^{-8}$	$1.827 \cdot 10^{-6}$	$1.827 \cdot 10^{-6}$	$-5.473 \cdot 10^{-8}$
$b\bar{b} \rightarrow u\bar{u}$	0.0006277	0.0006277	$1.593 \cdot 10^{-8}$	$1.808 \cdot 10^{-5}$	$1.808 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	-0.0004705	-0.0004705	$2.125 \cdot 10^{-8}$	$2.103 \cdot 10^{-5}$	$2.103 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	$3.265 \cdot 10^{-5}$	$3.265 \cdot 10^{-5}$	$-6.125 \cdot 10^{-8}$	$4.014 \cdot 10^{-6}$	$4.014 \cdot 10^{-6}$	$-4.982 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	-0.001235	-0.001235	0	$3.276 \cdot 10^{-5}$	$3.276 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow d\bar{d}$	-0.0009112	-0.0009112	$1.097 \cdot 10^{-8}$	$3.197 \cdot 10^{-5}$	$3.197 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow s\bar{s}$	-0.0007726	-0.0007726	$1.294 \cdot 10^{-8}$	$2.724 \cdot 10^{-5}$	$2.724 \cdot 10^{-5}$	0

$t\bar{t} \rightarrow t\bar{t}$	0.03905	0.03905	0	0.008405	0.008405	0
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2.58 cpb

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow z\bar{b}b$	$-9.775 \cdot 10^{-7}$	$-9.775 \cdot 10^{-7}$	$-2.046 \cdot 10^{-8}$	$4.534 \cdot 10^{-6}$	$4.534 \cdot 10^{-6}$	0
$H z \rightarrow b\bar{b}$	-0.01636	-0.01636	0	0.4194	0.4194	0
$W^+W^- \rightarrow Hb\bar{b}$	$-1.65 \cdot 10^{-8}$	$-1.65 \cdot 10^{-8}$	0	$1.564 \cdot 10^{-7}$	$1.564 \cdot 10^{-7}$	0
$b\bar{b} \rightarrow \mu^+\mu^-$	$6.38 \cdot 10^{-6}$	$6.38 \cdot 10^{-6}$	$9.404 \cdot 10^{-8}$	$3.248 \cdot 10^{-6}$	$3.248 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	$-9.464 \cdot 10^{-5}$	$-9.464 \cdot 10^{-5}$	$-2.113 \cdot 10^{-8}$	$1.842 \cdot 10^{-5}$	$1.842 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow b\bar{b}$	0.0003206	0.0003206	$-3.119 \cdot 10^{-8}$	0.000236	0.000236	0
$b\bar{b} \rightarrow d\bar{d}$	$-6.033 \cdot 10^{-5}$	$-6.033 \cdot 10^{-5}$	$-1.657 \cdot 10^{-8}$	$2.835 \cdot 10^{-5}$	$2.835 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow t\bar{t}$	$7.141 \cdot 10^{-5}$	$7.141 \cdot 10^{-5}$	$-1.4 \cdot 10^{-8}$	$3.104 \cdot 10^{-5}$	$3.104 \cdot 10^{-5}$	$3.221 \cdot 10^{-8}$
$b\bar{b} \rightarrow u\bar{u}$	$6.493 \cdot 10^{-5}$	$6.493 \cdot 10^{-5}$	$-1.54 \cdot 10^{-8}$	$2.737 \cdot 10^{-5}$	$2.737 \cdot 10^{-5}$	$3.653 \cdot 10^{-8}$

2.59 cpt

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow zt\bar{t}$	$-1.814 \cdot 10^{-5}$	$-1.814 \cdot 10^{-5}$	0	$2.131 \cdot 10^{-5}$	$2.131 \cdot 10^{-5}$	0
$H z \rightarrow t\bar{t}$	-2.207	-2.207	0	1.347	1.347	0
$W^+W^- \rightarrow Ht\bar{t}$	$-1.137 \cdot 10^{-6}$	$-1.137 \cdot 10^{-6}$	0	$8.781 \cdot 10^{-7}$	$8.781 \cdot 10^{-7}$	0
$b\bar{b} \rightarrow t\bar{t}$	-0.001455	-0.001455	0	$1.966 \cdot 10^{-5}$	$1.966 \cdot 10^{-5}$	$5.087 \cdot 10^{-8}$
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	$8.532 \cdot 10^{-5}$	$8.532 \cdot 10^{-5}$	$-2.344 \cdot 10^{-8}$	$9.832 \cdot 10^{-6}$	$9.832 \cdot 10^{-6}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	0.0001181	0.0001181	$-8.47 \cdot 10^{-8}$	$3.531 \cdot 10^{-6}$	$3.531 \cdot 10^{-6}$	$-2.832 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	$-9.153 \cdot 10^{-5}$	$-9.153 \cdot 10^{-5}$	$1.093 \cdot 10^{-8}$	$1.805 \cdot 10^{-5}$	$1.805 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow d\bar{d}$	$4.51 \cdot 10^{-5}$	$4.51 \cdot 10^{-5}$	$-4.435 \cdot 10^{-8}$	$1.818 \cdot 10^{-5}$	$1.818 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow s\bar{s}$	0.0001363	0.0001363	0	$4.328 \cdot 10^{-5}$	$4.328 \cdot 10^{-5}$	$2.311 \cdot 10^{-8}$

$t\bar{t} \rightarrow t\bar{t}$	-0.07906	-0.07906	0	0.009077	0.009077	0
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2.60 cptb

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$-2.558 \cdot 10^{-6}$	$-2.558 \cdot 10^{-6}$	0	$8.453 \cdot 10^{-6}$	$8.453 \cdot 10^{-6}$	$1.183 \cdot 10^{-8}$
$HW^+ \rightarrow \gamma t \bar{b}$	$-6.607 \cdot 10^{-9}$	$-6.607 \cdot 10^{-9}$	$-1.514 \cdot 10^{-8}$	$2.143 \cdot 10^{-8}$	$2.143 \cdot 10^{-8}$	$-4.666 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	-0.02233	-0.02233	0	0.03872	0.03872	0
$W^+W^- \rightarrow Hb\bar{b}$	$-2.883 \cdot 10^{-7}$	$-2.883 \cdot 10^{-7}$	0	$4.847 \cdot 10^{-7}$	$4.847 \cdot 10^{-7}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$3.76 \cdot 10^{-8}$	$3.76 \cdot 10^{-8}$	0	$1.016 \cdot 10^{-9}$	$1.016 \cdot 10^{-9}$	0
$\bar{b}t \rightarrow \bar{d}u$	$-2.193 \cdot 10^{-6}$	$-2.193 \cdot 10^{-6}$	0	$3.362 \cdot 10^{-5}$	$3.362 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow t\bar{t}$	-0.0007142	-0.0007142	0	0.0005595	0.0005595	0
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	$-7.312 \cdot 10^{-7}$	$-7.312 \cdot 10^{-7}$	$1.368 \cdot 10^{-8}$	$6.275 \cdot 10^{-8}$	$6.275 \cdot 10^{-8}$	0

2.61 cptbI

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$-1.029 \cdot 10^{-7}$	$-1.029 \cdot 10^{-7}$	0	$6.474 \cdot 10^{-6}$	$6.474 \cdot 10^{-6}$	0
$HW^+ \rightarrow \gamma t \bar{b}$	$5.157 \cdot 10^{-10}$	$5.157 \cdot 10^{-10}$	$-1.939 \cdot 10^{-8}$	$4.946 \cdot 10^{-9}$	$4.946 \cdot 10^{-9}$	0
$HW^- \rightarrow \bar{t}b$	$-8.83 \cdot 10^{-6}$	$-8.83 \cdot 10^{-6}$	0	0.182	0.182	0
$W^+W^- \rightarrow Hb\bar{b}$	$-1.177 \cdot 10^{-8}$	$-1.177 \cdot 10^{-8}$	0	$4.208 \cdot 10^{-7}$	$4.208 \cdot 10^{-7}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-3.481 \cdot 10^{-8}$	$-3.481 \cdot 10^{-8}$	0	$3.398 \cdot 10^{-9}$	$3.398 \cdot 10^{-9}$	0
$\bar{b}t \rightarrow \bar{d}u$	$1.983 \cdot 10^{-21}$	$9.019 \cdot 10^{-22}$	0.5452	$2.762 \cdot 10^{-6}$	$2.762 \cdot 10^{-6}$	$3.621 \cdot 10^{-8}$
$b\bar{b} \rightarrow t\bar{t}$	$-6.312 \cdot 10^{-20}$	$3.402 \cdot 10^{-20}$	1.539	0.005151	0.005151	0
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	$2.303 \cdot 10^{-23}$	$-1.076 \cdot 10^{-23}$	1.467	$2.658 \cdot 10^{-6}$	$2.658 \cdot 10^{-6}$	0

2.62 ctG

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	0.0928	0.0928	0	0.04449	0.04449	0
$gg \rightarrow t\bar{t}$	0.1264	0.1264	0	0.08575	0.08575	0
$t\bar{t} \rightarrow c\bar{c}$	0.1977	0.1977	0	0.0434	0.0434	0
$t\bar{t} \rightarrow d\bar{d}$	0.1977	0.1977	0	0.01155	0.01155	0
$t\bar{t} \rightarrow s\bar{s}$	0.1977	0.1977	0	0.0455	0.0455	0
$t\bar{t} \rightarrow t\bar{t}$	0.141	0.141	0	0.1154	0.1154	0

2.63 ctGI

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	$1.007 \cdot 10^{-18}$	$-1.372 \cdot 10^{-18}$	2.362	0.03504	0.03504	0
$gg \rightarrow t\bar{t}$	$-1.005 \cdot 10^{-17}$	$-9.617 \cdot 10^{-18}$	0.04299	0.08027	0.08027	0
$t\bar{t} \rightarrow c\bar{c}$	$1.476 \cdot 10^{-24}$	$5.135 \cdot 10^{-27}$	0.9965	0.03395	0.03395	0
$t\bar{t} \rightarrow d\bar{d}$	$4.595 \cdot 10^{-26}$	$-3.676 \cdot 10^{-25}$	9	0.002101	0.002101	0
$t\bar{t} \rightarrow s\bar{s}$	0	$6.617 \cdot 10^{-24}$	∞	0.03605	0.03605	0
$t\bar{t} \rightarrow t\bar{t}$	$8.224 \cdot 10^{-18}$	$2.672 \cdot 10^{-18}$	0.6751	0.04616	0.04616	0

2.64 ctQqu1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	0	0	0	0.5004	0.5004	$3.997 \cdot 10^{-8}$

2.65 ctQqu1I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.25	0.25	$4 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	0	0	0	0.5004	0.5004	$3.997 \cdot 10^{-8}$

2.66 ctQqu8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
$t\bar{t} \rightarrow c\bar{c}$	0	0	0	0.1112	0.1112	$-8.992 \cdot 10^{-8}$

2.67 ctQqu8I

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.05556	0.05556	$-1.26 \cdot 10^{-7}$
$t\bar{t} \rightarrow c\bar{c}$	0	0	0	0.1112	0.1112	$-8.992 \cdot 10^{-8}$

2.68 ctW

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow W^+ \bar{t}b$	$2.416 \cdot 10^{-5}$	$2.416 \cdot 10^{-5}$	0	$1.481 \cdot 10^{-5}$	$1.481 \cdot 10^{-5}$	0
$HH \rightarrow zt\bar{t}$	$3.71 \cdot 10^{-13}$	0	1	$1.67 \cdot 10^{-17}$	0	1
$HW^+ \rightarrow \gamma t\bar{b}$	$-7.207 \cdot 10^{-6}$	$-7.207 \cdot 10^{-6}$	$8.88 \cdot 10^{-7}$	$1.986 \cdot 10^{-5}$	$1.986 \cdot 10^{-5}$	$1.359 \cdot 10^{-6}$

$HW^- \rightarrow \bar{t}b$	-0.247	-0.247	0	2.176	2.176	0
$H\gamma \rightarrow t\bar{t}$	-0.6816	-0.6816	$5.868 \cdot 10^{-7}$	14.07	14.07	$1.208 \cdot 10^{-6}$
$HZ \rightarrow t\bar{t}$	$3.974 \cdot 10^{-8}$	0	1	$1.338 \cdot 10^{-12}$	0	1
$W^+W^- \rightarrow Hb\bar{b}$	$-2.712 \cdot 10^{-6}$	$-2.712 \cdot 10^{-6}$	0	$4.036 \cdot 10^{-6}$	$4.036 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$1.153 \cdot 10^{-5}$	$1.153 \cdot 10^{-5}$	$8.674 \cdot 10^{-8}$	$3.041 \cdot 10^{-5}$	$3.041 \cdot 10^{-5}$	$-3.288 \cdot 10^{-8}$
$\bar{b}t \rightarrow \bar{d}u$	0.01446	0.01446	0	0.006829	0.006829	0
$b\bar{b} \rightarrow t\bar{t}$	-0.5581	-0.5581	$3.584 \cdot 10^{-8}$	0.5922	0.5922	$1.689 \cdot 10^{-8}$
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0.0008838	0.0008838	$1.131 \cdot 10^{-8}$	0.00233	0.00233	0
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$-1.731 \cdot 10^{-9}$	0	1	$5.385 \cdot 10^{-16}$	0	1
$t\bar{t} \rightarrow \tau^+ \tau^-$	0.008501	0.008501	$5.293 \cdot 10^{-7}$	0.01732	0.01732	$1.097 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	0.01184	0.01184	$4.223 \cdot 10^{-7}$	0.02573	0.02573	$9.717 \cdot 10^{-7}$
$t\bar{t} \rightarrow d\bar{d}$	0.002784	0.002784	$-3.592 \cdot 10^{-8}$	0.006564	0.006564	$3.809 \cdot 10^{-7}$
$t\bar{t} \rightarrow s\bar{s}$	0.005012	0.005012	$-9.976 \cdot 10^{-8}$	0.005355	0.005355	$3.735 \cdot 10^{-7}$
$t\bar{t} \rightarrow t\bar{t}$	-0.7539	-0.7539	$4.775 \cdot 10^{-7}$	0.86	0.86	$9.651 \cdot 10^{-7}$

2.69 ctWI

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$5.272 \cdot 10^{-6}$	$5.272 \cdot 10^{-6}$	0	$1.48 \cdot 10^{-5}$	$1.48 \cdot 10^{-5}$	0
$HH \rightarrow z t\bar{t}$	$2.025 \cdot 10^{-12}$	0	1	$3.27 \cdot 10^{-17}$	0	1
$HW^+ \rightarrow \gamma t\bar{b}$	$1.992 \cdot 10^{-6}$	$1.992 \cdot 10^{-6}$	$7.531 \cdot 10^{-7}$	$5.796 \cdot 10^{-5}$	$5.796 \cdot 10^{-5}$	$1.208 \cdot 10^{-6}$
$HW^- \rightarrow \bar{t}b$	0.000395	0.000395	0	1.284	1.284	0
$H\gamma \rightarrow t\bar{t}$	$9.816 \cdot 10^{-17}$	$3.567 \cdot 10^{-17}$	0.6366	15.35	15.35	$1.238 \cdot 10^{-6}$
$HZ \rightarrow t\bar{t}$	$3.901 \cdot 10^{-10}$	0	1	$1.107 \cdot 10^{-12}$	0	1
$W^+W^- \rightarrow Hb\bar{b}$	$-2.48 \cdot 10^{-6}$	$-2.48 \cdot 10^{-6}$	0	$3.267 \cdot 10^{-6}$	$3.267 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$2.902 \cdot 10^{-6}$	$2.902 \cdot 10^{-6}$	0	$7.521 \cdot 10^{-5}$	$7.521 \cdot 10^{-5}$	$-1.33 \cdot 10^{-8}$
$\bar{b}t \rightarrow \bar{d}u$	$5.64 \cdot 10^{-19}$	$2.788 \cdot 10^{-19}$	0.5057	0.0105	0.0105	0
$b\bar{b} \rightarrow t\bar{t}$	$-1.949 \cdot 10^{-16}$	$1.189 \cdot 10^{-16}$	1.61	0.5464	0.5464	$1.83 \cdot 10^{-8}$

$b\bar{t} \rightarrow e^- \bar{\nu}_e$	$2.591 \cdot 10^{-18}$	$4.296 \cdot 10^{-18}$	-0.658	0.004387	0.004387	0
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$-1.106 \cdot 10^{-25}$	0	1	$1.989 \cdot 10^{-16}$	0	1
$t\bar{t} \rightarrow \tau^+ \tau^-$	$-4.075 \cdot 10^{-18}$	$-2.59 \cdot 10^{-18}$	0.3644	0.01379	0.01379	$1.16 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	$1.156 \cdot 10^{-10}$	$1.156 \cdot 10^{-10}$	$6.057 \cdot 10^{-7}$	0.0197	0.0197	$9.645 \cdot 10^{-7}$
$t\bar{t} \rightarrow d\bar{d}$	$1.039 \cdot 10^{-15}$	$1.036 \cdot 10^{-15}$	0.003191	0.004859	0.004859	$3.91 \cdot 10^{-7}$
$t\bar{t} \rightarrow s\bar{s}$	$5.662 \cdot 10^{-13}$	$5.662 \cdot 10^{-13}$	$7.258 \cdot 10^{-6}$	0.002961	0.002961	$3.715 \cdot 10^{-7}$
$t\bar{t} \rightarrow t\bar{t}$	$-5.361 \cdot 10^{-17}$	$-4.24 \cdot 10^{-18}$	0.9209	0.4736	0.4736	$9.713 \cdot 10^{-7}$

2.70 ctZ

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow zt\bar{t}$	$-1.437 \cdot 10^{-6}$	$-1.437 \cdot 10^{-6}$	$6.262 \cdot 10^{-7}$	$7.409 \cdot 10^{-5}$	$7.409 \cdot 10^{-5}$	$1.093 \cdot 10^{-6}$
$HW^+ \rightarrow \gamma t\bar{b}$	$-7.103 \cdot 10^{-8}$	$-7.103 \cdot 10^{-8}$	$5.069 \cdot 10^{-7}$	$4.559 \cdot 10^{-5}$	$4.559 \cdot 10^{-5}$	$1.141 \cdot 10^{-6}$
$H\gamma \rightarrow t\bar{t}$	0.5385	0.5385	$5.386 \cdot 10^{-7}$	11.76	11.76	$1.105 \cdot 10^{-6}$
$HZ \rightarrow t\bar{t}$	-0.08063	-0.08063	$5.829 \cdot 10^{-7}$	2.52	2.52	$1.111 \cdot 10^{-6}$
$W^+W^- \rightarrow Ht\bar{t}$	$3.758 \cdot 10^{-7}$	$3.758 \cdot 10^{-7}$	$5.588 \cdot 10^{-7}$	$1.548 \cdot 10^{-7}$	$1.548 \cdot 10^{-7}$	$1.098 \cdot 10^{-6}$
$b\bar{b} \rightarrow t\bar{t}$	0.01959	0.01959	$5.615 \cdot 10^{-7}$	0.003091	0.003091	$1.1 \cdot 10^{-6}$
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	-0.001026	-0.001026	$4.873 \cdot 10^{-7}$	0.001111	0.001111	$1.08 \cdot 10^{-6}$
$t\bar{t} \rightarrow \tau^+ \tau^-$	-0.006741	-0.006741	$5.341 \cdot 10^{-7}$	0.01455	0.01455	$1.1 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	-0.005123	-0.005123	$5.465 \cdot 10^{-7}$	0.0174	0.0174	$1.092 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	$-4.714 \cdot 10^{-5}$	$-4.714 \cdot 10^{-5}$	$-1.697 \cdot 10^{-7}$	0.005116	0.005116	$1.095 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	0.001006	0.001006	$5.962 \cdot 10^{-7}$	0.00355	0.00355	$1.099 \cdot 10^{-6}$
$t\bar{t} \rightarrow t\bar{t}$	0.2223	0.2223	$5.399 \cdot 10^{-7}$	0.3584	0.3584	$1.116 \cdot 10^{-6}$

2.71 ctZI

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

$HH \rightarrow zt\bar{t}$	$-1.231 \cdot 10^{-8}$	$-1.23 \cdot 10^{-8}$	$9.752 \cdot 10^{-7}$	$8.222 \cdot 10^{-6}$	$8.222 \cdot 10^{-6}$	$1.095 \cdot 10^{-6}$
$HW^+ \rightarrow \gamma t\bar{b}$	$5.044 \cdot 10^{-7}$	$5.044 \cdot 10^{-7}$	$5.551 \cdot 10^{-7}$	$5.659 \cdot 10^{-6}$	$5.659 \cdot 10^{-6}$	$1.113 \cdot 10^{-6}$
$H\gamma \rightarrow t\bar{t}$	$-2.116 \cdot 10^{-16}$	$-4.597 \cdot 10^{-16}$	-1.172	2.596	2.596	$1.117 \cdot 10^{-6}$
$HZ \rightarrow t\bar{t}$	-0.0001765	-0.0001765	$5.667 \cdot 10^{-7}$	1.543	1.543	$1.037 \cdot 10^{-6}$
$W^+W^- \rightarrow Ht\bar{t}$	$5.331 \cdot 10^{-7}$	$5.331 \cdot 10^{-7}$	$5.44 \cdot 10^{-7}$	$1.273 \cdot 10^{-7}$	$1.273 \cdot 10^{-7}$	$1.021 \cdot 10^{-6}$
$b\bar{b} \rightarrow t\bar{t}$	$1.033 \cdot 10^{-18}$	$1.068 \cdot 10^{-18}$	-0.03403	0.003428	0.003428	$1.079 \cdot 10^{-6}$
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$-1.306 \cdot 10^{-20}$	$-1.581 \cdot 10^{-18}$	-120	0.0005451	0.0005451	$1.101 \cdot 10^{-6}$
$t\bar{t} \rightarrow \tau^+ \tau^-$	$-5.285 \cdot 10^{-19}$	$-1.506 \cdot 10^{-18}$	-1.849	0.006421	0.006421	$1.09 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	$-1.012 \cdot 10^{-10}$	$-1.012 \cdot 10^{-10}$	$5.931 \cdot 10^{-7}$	0.0005143	0.0005143	$1.108 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	$-1.199 \cdot 10^{-15}$	$-1.198 \cdot 10^{-15}$	0.0009999	0.002906	0.002906	$1.101 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	$-4.955 \cdot 10^{-13}$	$-4.955 \cdot 10^{-13}$	$-2.825 \cdot 10^{-6}$	0.003492	0.003492	$1.088 \cdot 10^{-6}$
$t\bar{t} \rightarrow t\bar{t}$	$-1.695 \cdot 10^{-17}$	$1.116 \cdot 10^{-16}$	7.587	0.03687	0.03687	$1.085 \cdot 10^{-6}$

2.72 ctb1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	-0.02774	-0.02774	$-3.605 \cdot 10^{-8}$	0.4789	0.4789	0

2.73 ctb8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	0.0201	0.0201	0	0.0002119	0.0002119	0

2.74 ctd1

interference	square
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	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow d\bar{d}$	-0.01172	-0.01172	0	0.198	0.198	0
$t\bar{t} \rightarrow s\bar{s}$	-0.03305	-0.03305	0	0.5716	0.5716	0

2.75 ctd8

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow d\bar{d}$	0.1499	0.1499	0	0.044	0.044	0
$t\bar{t} \rightarrow s\bar{s}$	0.3959	0.3959	0	0.127	0.127	0

2.76 cte3

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow \tau^+\tau^-$	-0.028	-0.028	0	0.161	0.161	0

2.77 ctl2

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	-0.02446	-0.02446	0	0.3056	0.3056	0

2.78 ctl3

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow \tau^+\tau^-$	-0.01169	-0.01169	0	0.1105	0.1105	0

2.79 ctIS1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	0.08333	0.08333	0

2.80 ctIS3

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow \tau^+ \tau^-$	0.003341	0.003341	0	0.1668	0.1668	0

2.81 ctISI1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	0.08333	0.08333	0

2.82 ctISI3

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow \tau^+ \tau^-$	$2.516 \cdot 10^{-20}$	$4.879 \cdot 10^{-20}$	-0.939	0.1668	0.1668	0

2.83 ctIT1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1

$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	0.3525	0.3525	0
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2.84 ctIT3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow \tau^+ \tau^-$	0.01156	0.01156	0	1.964	1.964	0

2.85 ctITI1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	1.134	1.134	0

2.86 ctITI3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow \tau^+ \tau^-$	$5.285 \cdot 10^{-20}$	$-9.223 \cdot 10^{-20}$	2.745	1.964	1.964	0

2.87 ctp

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow Ht\bar{t}$	$9.729 \cdot 10^{-6}$	$9.729 \cdot 10^{-6}$	0	$9.708 \cdot 10^{-6}$	$9.708 \cdot 10^{-6}$	0
$HH \rightarrow W^+ t\bar{b}$	$1.374 \cdot 10^{-6}$	$1.374 \cdot 10^{-6}$	0	$1.005 \cdot 10^{-6}$	$1.005 \cdot 10^{-6}$	0
$HH \rightarrow zt\bar{t}$	$1.715 \cdot 10^{-6}$	$1.715 \cdot 10^{-6}$	0	$1.387 \cdot 10^{-6}$	$1.387 \cdot 10^{-6}$	0
$HW^+ \rightarrow \gamma t\bar{b}$	$2.71 \cdot 10^{-7}$	$2.71 \cdot 10^{-7}$	0	$9.379 \cdot 10^{-8}$	$9.379 \cdot 10^{-8}$	$-2.132 \cdot 10^{-8}$

$HW^- \rightarrow \bar{t}b$	-0.03405	-0.03405	$2.937 \cdot 10^{-8}$	0.04842	0.04842	0
$H\gamma \rightarrow t\bar{t}$	-0.2466	-0.2466	0	0.007566	0.007566	$-2.643 \cdot 10^{-8}$
$HZ \rightarrow t\bar{t}$	0.001345	0.001345	$-2.23 \cdot 10^{-7}$	0.06874	0.06874	0
$W^+W^- \rightarrow Hb\bar{b}$	$4.5 \cdot 10^{-7}$	$4.5 \cdot 10^{-7}$	0	$2.915 \cdot 10^{-8}$	$2.915 \cdot 10^{-8}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-3.054 \cdot 10^{-7}$	$-3.054 \cdot 10^{-7}$	$-3.274 \cdot 10^{-8}$	$1.047 \cdot 10^{-6}$	$1.047 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow t\bar{t}$	$-1.306 \cdot 10^{-5}$	$-1.306 \cdot 10^{-5}$	0	$6.089 \cdot 10^{-7}$	$6.089 \cdot 10^{-7}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	$-1.002 \cdot 10^{-6}$	$-1.002 \cdot 10^{-6}$	0	$3.101 \cdot 10^{-8}$	$3.101 \cdot 10^{-8}$	0
$t\bar{t} \rightarrow t\bar{t}$	0.0778	0.0778	0	0.008701	0.008701	0

2.88 ctpI

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow Ht\bar{t}$	$6.618 \cdot 10^{-5}$	$6.618 \cdot 10^{-5}$	0	$1.434 \cdot 10^{-5}$	$1.434 \cdot 10^{-5}$	0
$HH \rightarrow W^+\bar{t}b$	$-3.562 \cdot 10^{-7}$	$-3.562 \cdot 10^{-7}$	$-2.807 \cdot 10^{-8}$	$4.231 \cdot 10^{-6}$	$4.231 \cdot 10^{-6}$	0
$HH \rightarrow Zt\bar{t}$	$-3.056 \cdot 10^{-6}$	$-3.056 \cdot 10^{-6}$	0	$6.996 \cdot 10^{-6}$	$6.996 \cdot 10^{-6}$	$1.429 \cdot 10^{-8}$
$HW^+ \rightarrow \gamma t\bar{b}$	$-1.591 \cdot 10^{-8}$	$-1.591 \cdot 10^{-8}$	0	$1.226 \cdot 10^{-9}$	$1.226 \cdot 10^{-9}$	$-8.155 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	-0.0009859	-0.0009859	0	0.05844	0.05844	0
$H\gamma \rightarrow t\bar{t}$	$-8.983 \cdot 10^{-19}$	$4.366 \cdot 10^{-19}$	1.486	0.002155	0.002155	0
$HZ \rightarrow t\bar{t}$	0.0003853	0.0003853	$5.19 \cdot 10^{-8}$	0.0655	0.0655	0
$W^+W^- \rightarrow Hb\bar{b}$	$-6.703 \cdot 10^{-7}$	$-6.703 \cdot 10^{-7}$	0	$2.174 \cdot 10^{-8}$	$2.174 \cdot 10^{-8}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-1.077 \cdot 10^{-7}$	$-1.077 \cdot 10^{-7}$	0	$7.613 \cdot 10^{-7}$	$7.613 \cdot 10^{-7}$	0
$b\bar{b} \rightarrow t\bar{t}$	$1.496 \cdot 10^{-21}$	$-3.573 \cdot 10^{-22}$	1.239	$6.906 \cdot 10^{-7}$	$6.906 \cdot 10^{-7}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	$-2.344 \cdot 10^{-23}$	$-3.676 \cdot 10^{-25}$	0.9843	$3.49 \cdot 10^{-8}$	$3.49 \cdot 10^{-8}$	0
$t\bar{t} \rightarrow t\bar{t}$	$5.01 \cdot 10^{-18}$	$-4.53 \cdot 10^{-18}$	1.904	0.004879	0.004879	0

2.89 ctq1

interference

square

	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow c\bar{c}$	0.007485	0.007485	$1.336 \cdot 10^{-8}$	0.03655	0.03655	0
$t\bar{t} \rightarrow d\bar{d}$	-0.00469	-0.00469	$2.132 \cdot 10^{-8}$	0.04666	0.04666	0
$t\bar{t} \rightarrow s\bar{s}$	-0.0004775	-0.0004775	$3.351 \cdot 10^{-7}$	0.1914	0.1914	0

2.90 ctq8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow c\bar{c}$	0.02132	0.02132	0	0.0006196	0.0006196	0
$t\bar{t} \rightarrow d\bar{d}$	0.2706	0.2706	0	0.08473	0.08473	0
$t\bar{t} \rightarrow s\bar{s}$	0.02383	0.02383	0	0.001468	0.001468	0

2.91 ctt1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow t\bar{t}$	-17.56	-17.56	0	25.38	25.38	0

2.92 ctu1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow c\bar{c}$	0.1131	0.1131	0	0.9829	0.9829	0

2.93 ctu8

interference	square
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	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$t\bar{t} \rightarrow c\bar{c}$	0.5353	0.5353	0	0.1741	0.1741	0

2.94 sm

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$HH \rightarrow HH$	0	0	0	0.07188	0.07188	0
$HH \rightarrow HHH$	0	0	0	$3.271 \cdot 10^{-6}$	$3.271 \cdot 10^{-6}$	0
$HH \rightarrow H\tau^+\tau^-$	0	0	0	$2.028 \cdot 10^{-7}$	$2.028 \cdot 10^{-7}$	0
$HH \rightarrow Hb\bar{b}$	0	0	0	$2.326 \cdot 10^{-10}$	$2.326 \cdot 10^{-10}$	0
$HH \rightarrow Ht\bar{t}$	0	0	0	$1.376 \cdot 10^{-5}$	$1.376 \cdot 10^{-5}$	0
$HH \rightarrow Hzz$	0	0	0	$1.116 \cdot 10^{-5}$	$1.116 \cdot 10^{-5}$	0
$HH \rightarrow W^+W^-$	0	0	0	0.111	0.111	0
$HH \rightarrow W^+W^-\gamma$	0	0	0	$3.283 \cdot 10^{-7}$	$3.283 \cdot 10^{-7}$	$-9.138 \cdot 10^{-8}$
$HH \rightarrow W^+\bar{t}b$	0	0	0	0.1906	0.1906	0
$HH \rightarrow W^+e^-\bar{\nu}_e$	0	0	0	$2.005 \cdot 10^{-7}$	$2.005 \cdot 10^{-7}$	0
$HH \rightarrow W^-u\bar{d}$	0	0	0	$2.921 \cdot 10^{-6}$	$2.921 \cdot 10^{-6}$	$3.424 \cdot 10^{-8}$
$HH \rightarrow z\bar{b}b$	0	0	0	$7.741 \cdot 10^{-7}$	$7.741 \cdot 10^{-7}$	0
$HH \rightarrow z\nu_e\bar{\nu}_e$	0	0	0	$1.037 \cdot 10^{-7}$	$1.037 \cdot 10^{-7}$	0
$HH \rightarrow z\bar{c}c$	0	0	0	$3.711 \cdot 10^{-7}$	$3.711 \cdot 10^{-7}$	0
$HH \rightarrow z\bar{d}d$	0	0	0	$1.659 \cdot 10^{-6}$	$1.659 \cdot 10^{-6}$	0
$HH \rightarrow ze^+e^-$	0	0	0	$1.085 \cdot 10^{-7}$	$1.085 \cdot 10^{-7}$	0
$HH \rightarrow zt\bar{t}$	0	0	0	$8.862 \cdot 10^{-6}$	$8.862 \cdot 10^{-6}$	$1.128 \cdot 10^{-8}$
$HH \rightarrow zz$	0	0	0	0.485	0.485	0
$HW^+ \rightarrow \gamma t\bar{b}$	0	0	0	$1.127 \cdot 10^{-6}$	$1.127 \cdot 10^{-6}$	0
$HW^+ \rightarrow \gamma u\bar{d}$	0	0	0	$6.821 \cdot 10^{-7}$	$6.821 \cdot 10^{-7}$	0
$HW^+ \rightarrow u\bar{d}$	0	0	0	0.02155	0.02155	$4.641 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	0	0	0	0.5515	0.5515	0

$HW^- \rightarrow \gamma e^- \bar{\nu}_e$	0	0	0	$8.098 \cdot 10^{-8}$	$8.098 \cdot 10^{-8}$	0
$HW^- \rightarrow \mu^- \bar{\nu}_\mu$	0	0	0	0.007625	0.007625	$1.311 \cdot 10^{-8}$
$H\gamma \rightarrow b\bar{b}$	0	0	0	$9.662 \cdot 10^{-5}$	$9.662 \cdot 10^{-5}$	$-1.035 \cdot 10^{-8}$
$H\gamma \rightarrow t\bar{t}$	0	0	0	0.4052	0.4052	0
$H z \rightarrow \mu^+ \mu^-$	0	0	0	0.002089	0.002089	0
$H z \rightarrow \nu_\tau \bar{\nu}_\tau$	0	0	0	0.001123	0.001123	0
$H z \rightarrow b\bar{b}$	0	0	0	0.01444	0.01444	0
$H z \rightarrow s\bar{s}$	0	0	0	0.006683	0.006683	0
$H z \rightarrow t\bar{t}$	0	0	0	2.228	2.228	0
$H z \rightarrow u\bar{u}$	0	0	0	0.00599	0.00599	$1.669 \cdot 10^{-8}$
$W^+ W^- \rightarrow H b\bar{b}$	0	0	0	0.0001476	0.0001476	$6.777 \cdot 10^{-8}$
$W^+ W^- \rightarrow H c\bar{c}$	0	0	0	$8.609 \cdot 10^{-7}$	$8.609 \cdot 10^{-7}$	$2.323 \cdot 10^{-8}$
$W^+ W^- \rightarrow H d\bar{d}$	0	0	0	$4.661 \cdot 10^{-7}$	$4.661 \cdot 10^{-7}$	$2.145 \cdot 10^{-8}$
$W^+ W^- \rightarrow H t\bar{t}$	0	0	0	$3.596 \cdot 10^{-5}$	$3.596 \cdot 10^{-5}$	0
$W^+ W^- \rightarrow W^+ W^-$	0	0	0	7.679	7.679	$1.302 \cdot 10^{-8}$
$W^+ W^- \rightarrow \gamma\gamma$	0	0	0	0.2107	0.2107	$-4.747 \cdot 10^{-8}$
$W^+ W^- \rightarrow \gamma\gamma\gamma$	0	0	0	$1.221 \cdot 10^{-6}$	$1.221 \cdot 10^{-6}$	0
$\bar{b}t \rightarrow \bar{d}u$	0	0	0	0.0003897	0.0003897	$2.566 \cdot 10^{-8}$
$\gamma W^+ \rightarrow z W^+$	0	0	0	0.1619	0.1619	0
$\mu^+ \mu^- \rightarrow \tau^+ \tau^-$	0	0	0	0.007062	0.007062	$-4.248 \cdot 10^{-8}$
$\nu_\tau \bar{\nu}_\tau \rightarrow \nu_\tau \bar{\nu}_\tau$	0	0	0	0.3561	0.3561	0
$\nu_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	0	0	0	0.01645	0.01645	0
$b\bar{b} \rightarrow \gamma\gamma$	0	0	0	$9.337 \cdot 10^{-5}$	$9.337 \cdot 10^{-5}$	$-2.142 \cdot 10^{-8}$
$b\bar{b} \rightarrow \mu^+ \mu^-$	0	0	0	0.001818	0.001818	0
$b\bar{b} \rightarrow \nu_e \bar{\nu}_e$	0	0	0	0.0007306	0.0007306	$1.369 \cdot 10^{-8}$
$b\bar{b} \rightarrow b\bar{b}$	0	0	0	8.108	8.108	0
$b\bar{b} \rightarrow d\bar{d}$	0	0	0	0.5166	0.5166	0
$b\bar{b} \rightarrow t\bar{t}$	0	0	0	0.9633	0.9633	$1.038 \cdot 10^{-8}$
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.8803	0.8803	0

$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0	0	0	$1.646 \cdot 10^{-5}$	$1.646 \cdot 10^{-5}$	0
$c\bar{c} \rightarrow \mu^+ \mu^-$	0	0	0	0.004204	0.004204	0
$c\bar{s} \rightarrow \tau^+ \nu_\tau$	0	0	0	$9.717 \cdot 10^{-5}$	$9.717 \cdot 10^{-5}$	$2.058 \cdot 10^{-8}$
$d\bar{d} \rightarrow c\bar{c}$	0	0	0	0.9464	0.9464	0
$d\bar{d} \rightarrow e^+ e^-$	0	0	0	0.001502	0.001502	0
$d\bar{d} \rightarrow s\bar{s}$	0	0	0	0.64	0.64	0
$e^+ \nu_\mu \rightarrow e^+ \nu_\mu$	0	0	0	38.77	38.77	0
$e^+ \nu_e \rightarrow \mu^+ \nu_\mu$	0	0	0	0.0003123	0.0003123	$3.202 \cdot 10^{-8}$
$e^+ \nu_e \rightarrow e^+ \nu_e$	0	0	0	33.2	33.2	0
$e^+ \tau^- \rightarrow e^+ \tau^-$	0	0	0	3.288	3.288	0
$e^+ e^- \rightarrow \mu^+ \mu^-$	0	0	0	0.008108	0.008108	$-4.933 \cdot 10^{-8}$
$e^+ e^- \rightarrow e^+ e^-$	0	0	0	0.01691	0.01691	$-5.913 \cdot 10^{-8}$
$gg \rightarrow gg$	0	0	0	61.49	61.49	0
$gg \rightarrow ggg$	0	0	0	0.03951	0.03951	0
$gg \rightarrow t\bar{t}$	0	0	0	0.4157	0.4157	0
$gg \rightarrow u\bar{u}$	0	0	0	18.27	18.27	0
$s\bar{s} \rightarrow \nu_\tau \bar{\nu}_\tau$	0	0	0	0.004254	0.004254	0
$s\bar{s} \rightarrow s\bar{s}$	0	0	0	77.32	77.32	0
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	0	0	0	0.0006844	0.0006844	0
$t\bar{t} \rightarrow \tau^+ \tau^-$	0	0	0	0.006818	0.006818	0
$t\bar{t} \rightarrow c\bar{c}$	0	0	0	0.6047	0.6047	0
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.8023	0.8023	0
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	1.018	1.018	0
$t\bar{t} \rightarrow t\bar{t}$	0	0	0	5.609	5.609	0
$u\bar{d} \rightarrow \mu^+ \nu_\mu$	0	0	0	0.01435	0.01435	0
$u\bar{d} \rightarrow c\bar{s}$	0	0	0	0.000785	0.000785	$1.274 \cdot 10^{-8}$
$u\bar{d} \rightarrow u\bar{d}$	0	0	0	1.999	1.999	0
$u\bar{u} \rightarrow \nu_e \bar{\nu}_e$	0	0	0	0.0005843	0.0005843	$-3.423 \cdot 10^{-8}$
$u\bar{u} \rightarrow c\bar{c}$	0	0	0	0.5292	0.5292	0

$u\bar{u} \rightarrow u\bar{u}$	0	0	0	4.855	4.855	0
$zz \rightarrow W^+W^-$	0	0	0	86.3	86.3	$2.317 \cdot 10^{-8}$
$zz \rightarrow zz$	0	0	0	0.08108	0.08108	0