

1 By process

1.1 $HH \rightarrow HH$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.003749	0.003749	0

1.2 $HH \rightarrow HHH$

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$3.146 \cdot 10^{-7}$	$3.146 \cdot 10^{-7}$	0

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

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$3.141 \cdot 10^{-10}$	$3.141 \cdot 10^{-10}$	0

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

			interference			square
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$		mod1	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	$1.161 \cdot 10^{-9}$	$1.161 \cdot 10^{-9}$	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	$-4.41 \cdot 10^{-8}$	$-4.41 \cdot 10^{-8}$	0	$1.527 \cdot 10^{-5}$	$1.527 \cdot 10^{-5}$	0
ctpI	$-7.619 \cdot 10^{-7}$	$-7.619 \cdot 10^{-7}$	0	$5.19 \cdot 10^{-5}$	$5.19 \cdot 10^{-5}$	0
sm	0	0	0	$4.504 \cdot 10^{-5}$	$4.504 \cdot 10^{-5}$	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	$2.815 \cdot 10^{-5}$	$2.815 \cdot 10^{-5}$	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	1.406	1.406	$7.111 \cdot 10^{-8}$

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	$1.099 \cdot 10^{-7}$	$1.099 \cdot 10^{-7}$	$-9.098 \cdot 10^{-8}$

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	$-4.015 \cdot 10^{-7}$	$-4.015 \cdot 10^{-7}$	0	$1.925 \cdot 10^{-5}$	$1.925 \cdot 10^{-5}$	0
cbWI	$-1.646 \cdot 10^{-7}$	$-1.646 \cdot 10^{-7}$	0	$7.652 \cdot 10^{-6}$	$7.652 \cdot 10^{-6}$	$1.307 \cdot 10^{-8}$
cpQ3	$6.929 \cdot 10^{-6}$	$6.929 \cdot 10^{-6}$	$-1.443 \cdot 10^{-8}$	$9.839 \cdot 10^{-6}$	$9.839 \cdot 10^{-6}$	0
cptb	$-2.777 \cdot 10^{-6}$	$-2.777 \cdot 10^{-6}$	0	$2.172 \cdot 10^{-5}$	$2.172 \cdot 10^{-5}$	$4.604 \cdot 10^{-8}$
cptbI	$1.175 \cdot 10^{-7}$	$1.175 \cdot 10^{-7}$	0	$2.465 \cdot 10^{-6}$	$2.465 \cdot 10^{-6}$	0
ctW	$1.573 \cdot 10^{-6}$	$1.573 \cdot 10^{-6}$	0	$7.658 \cdot 10^{-6}$	$7.658 \cdot 10^{-6}$	0
ctWI	$-4.187 \cdot 10^{-6}$	$-4.187 \cdot 10^{-6}$	0	$1.929 \cdot 10^{-5}$	$1.929 \cdot 10^{-5}$	0
ctp	$1.23 \cdot 10^{-7}$	$1.23 \cdot 10^{-7}$	$1.626 \cdot 10^{-7}$	$6.345 \cdot 10^{-7}$	$6.345 \cdot 10^{-7}$	0
ctpI	$1.964 \cdot 10^{-7}$	$1.964 \cdot 10^{-7}$	$-5.091 \cdot 10^{-8}$	$2.844 \cdot 10^{-6}$	$2.844 \cdot 10^{-6}$	0
sm	0	0	0	$4.686 \cdot 10^{-5}$	$4.686 \cdot 10^{-5}$	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	$1.398 \cdot 10^{-6}$	$1.398 \cdot 10^{-6}$	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	$4.972 \cdot 10^{-7}$	$4.972 \cdot 10^{-7}$	$2.011 \cdot 10^{-8}$

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	0.001094	0.001094	0	0.0002901	0.0002901	0

cbWI	$1.895 \cdot 10^{-8}$	$1.895 \cdot 10^{-8}$	0	$2.224 \cdot 10^{-6}$	$2.224 \cdot 10^{-6}$	0
cpQ3	0.01151	0.01151	0	0.0006452	0.0006452	0
cpQM	0.005757	0.005757	0	0.0001613	0.0001613	0
cpb	$-3.037 \cdot 10^{-7}$	$-3.037 \cdot 10^{-7}$	$-3.292 \cdot 10^{-8}$	$2.386 \cdot 10^{-7}$	$2.386 \cdot 10^{-7}$	0
sm	0	0	0	$4.051 \cdot 10^{-6}$	$4.051 \cdot 10^{-6}$	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	$3.914 \cdot 10^{-6}$	$3.914 \cdot 10^{-6}$	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	$2.478 \cdot 10^{-6}$	$2.478 \cdot 10^{-6}$	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	$3.613 \cdot 10^{-7}$	$3.613 \cdot 10^{-7}$	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	$1.211 \cdot 10^{-7}$	$1.211 \cdot 10^{-7}$	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	$5.546 \cdot 10^{-5}$	$5.546 \cdot 10^{-5}$	0	$4.962 \cdot 10^{-5}$	$4.962 \cdot 10^{-5}$	0
cpt	$-5.963 \cdot 10^{-5}$	$-5.963 \cdot 10^{-5}$	0	$4.961 \cdot 10^{-5}$	$4.961 \cdot 10^{-5}$	0
ctW	$-7.426 \cdot 10^{-13}$	0	1	$4.223 \cdot 10^{-17}$	0	1
ctWI	$5.7 \cdot 10^{-13}$	0	1	$1.207 \cdot 10^{-17}$	0	1
ctZ	$-1.374 \cdot 10^{-6}$	$-1.374 \cdot 10^{-6}$	$5.822 \cdot 10^{-7}$	$3.994 \cdot 10^{-5}$	$3.994 \cdot 10^{-5}$	$1.102 \cdot 10^{-6}$
ctZI	$-8.521 \cdot 10^{-7}$	$-8.521 \cdot 10^{-7}$	$5.633 \cdot 10^{-7}$	$2.696 \cdot 10^{-5}$	$2.696 \cdot 10^{-5}$	$1.076 \cdot 10^{-6}$
ctp	$1.457 \cdot 10^{-5}$	$1.457 \cdot 10^{-5}$	0	$1.706 \cdot 10^{-5}$	$1.706 \cdot 10^{-5}$	0
ctpI	$1.719 \cdot 10^{-6}$	$1.719 \cdot 10^{-6}$	0	$1.688 \cdot 10^{-5}$	$1.688 \cdot 10^{-5}$	0
sm	0	0	0	0.0001485	0.0001485	0

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	16.1	16.1	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	$1.532 \cdot 10^{-8}$	$1.532 \cdot 10^{-8}$	0	$4.002 \cdot 10^{-7}$	$4.002 \cdot 10^{-7}$	$-2.499 \cdot 10^{-8}$
cbWI	$1.125 \cdot 10^{-8}$	$1.125 \cdot 10^{-8}$	$-8.892 \cdot 10^{-8}$	$2.508 \cdot 10^{-6}$	$2.508 \cdot 10^{-6}$	0

cpQ3	$4.071 \cdot 10^{-7}$	$4.071 \cdot 10^{-7}$	$-2.457 \cdot 10^{-8}$	$2.177 \cdot 10^{-7}$	$2.177 \cdot 10^{-7}$	$-4.594 \cdot 10^{-8}$
cptb	$-1.117 \cdot 10^{-7}$	$-1.117 \cdot 10^{-7}$	$-8.949 \cdot 10^{-8}$	$3.498 \cdot 10^{-7}$	$3.498 \cdot 10^{-7}$	$-2.859 \cdot 10^{-8}$
cptbI	$-3.857 \cdot 10^{-9}$	$-3.857 \cdot 10^{-9}$	0	$5.448 \cdot 10^{-8}$	$5.448 \cdot 10^{-8}$	$-1.836 \cdot 10^{-8}$
ctW	$2.075 \cdot 10^{-5}$	$2.075 \cdot 10^{-5}$	$6.266 \cdot 10^{-7}$	$1.27 \cdot 10^{-5}$	$1.27 \cdot 10^{-5}$	$1.024 \cdot 10^{-6}$
ctWI	$-3.437 \cdot 10^{-6}$	$-3.437 \cdot 10^{-6}$	$7.564 \cdot 10^{-7}$	$3.549 \cdot 10^{-5}$	$3.549 \cdot 10^{-5}$	$1.212 \cdot 10^{-6}$
ctZ	$-5.619 \cdot 10^{-6}$	$-5.619 \cdot 10^{-6}$	$5.517 \cdot 10^{-7}$	$2.846 \cdot 10^{-5}$	$2.846 \cdot 10^{-5}$	$1.125 \cdot 10^{-6}$
ctZI	$3.791 \cdot 10^{-6}$	$3.791 \cdot 10^{-6}$	$5.54 \cdot 10^{-7}$	$2.846 \cdot 10^{-5}$	$2.846 \cdot 10^{-5}$	$1.125 \cdot 10^{-6}$
ctp	$-4.639 \cdot 10^{-7}$	$-4.639 \cdot 10^{-7}$	$-2.156 \cdot 10^{-8}$	$1.383 \cdot 10^{-8}$	$1.383 \cdot 10^{-8}$	0
ctpI	$3.726 \cdot 10^{-8}$	$3.726 \cdot 10^{-8}$	$-2.684 \cdot 10^{-8}$	$1.109 \cdot 10^{-8}$	$1.109 \cdot 10^{-8}$	0
sm	0	0	0	$2.238 \cdot 10^{-5}$	$2.238 \cdot 10^{-5}$	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	$3.508 \cdot 10^{-9}$	$3.508 \cdot 10^{-9}$	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	0.01434	0.01434	$6.975 \cdot 10^{-8}$

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	0.007426	0.007426	0	2.219	2.219	0
cbWI	$3.304 \cdot 10^{-7}$	$3.304 \cdot 10^{-7}$	0	2.276	2.276	0

cpQ3	-1.083	-1.083	0	1.826	1.826	0
cptb	-0.05351	-0.05351	0	0.4832	0.4832	0
cptbI	$-8.778 \cdot 10^{-6}$	$-8.778 \cdot 10^{-6}$	0	0.4566	0.4566	0
ctW	-0.2671	-0.2671	0	2.276	2.276	0
ctWI	0.0001286	0.0001286	0	2.219	2.219	0
ctp	0.09301	0.09301	0	0.05181	0.05181	0
ctpI	-0.001039	-0.001039	0	0.05832	0.05832	0
sm	0	0	0	0.4067	0.4067	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	$8.49 \cdot 10^{-8}$	$8.49 \cdot 10^{-8}$	$-1.178 \cdot 10^{-8}$

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	0.00454	0.00454	$2.203 \cdot 10^{-8}$

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	$-1.696 \cdot 10^{-6}$	$-1.696 \cdot 10^{-6}$	$-5.895 \cdot 10^{-8}$	0.5722	0.5722	$-1.748 \cdot 10^{-8}$
cbWI	$5.294 \cdot 10^{-23}$	$7.147 \cdot 10^{-22}$	-12.5	0.2338	0.2338	0
sm	0	0	0	0.0002864	0.0002864	0

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	-0.6078	-0.6078	$5.923 \cdot 10^{-7}$	15.51	15.51	$1.225 \cdot 10^{-6}$
ctWI	$-2.084 \cdot 10^{-17}$	$-9.37 \cdot 10^{-17}$	-3.495	14.39	14.39	$1.181 \cdot 10^{-6}$
ctZ	0.5809	0.5809	$5.508 \cdot 10^{-7}$	11.03	11.03	$1.179 \cdot 10^{-6}$
ctZI	$2.431 \cdot 10^{-17}$	$4.86 \cdot 10^{-17}$	-0.9989	11.03	11.03	$1.179 \cdot 10^{-6}$
ctp	-0.05442	-0.05442	0	0.00167	0.00167	0
ctpI	$-2.873 \cdot 10^{-18}$	$-2.331 \cdot 10^{-18}$	0.1887	0.002104	0.002104	$-4.754 \cdot 10^{-8}$
sm	0	0	0	0.4047	0.4047	$-2.471 \cdot 10^{-8}$

1.27 $HZ \rightarrow \mu^+\mu^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.0032	0.0032	0

1.28 $HZ \rightarrow \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.005752	0.005752	0

1.29 $HZ \rightarrow b\bar{b}$

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

cbW	0.001426	0.001426	0	0.9557	0.9557	0
cbWI	$-1.835 \cdot 10^{-6}$	$-1.835 \cdot 10^{-6}$	0	1.496	1.496	0
cpQ3	0.2997	0.2997	0	2.614	2.614	0
cpQM	0.1498	0.1498	0	0.6536	0.6536	0
cpb	-0.04095	-0.04095	$-2.442 \cdot 10^{-8}$	0.9947	0.9947	0
sm	0	0	0	0.0137	0.0137	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	0.0133	0.0133	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	2.016	2.016	0	0.7995	0.7995	0
cpt	-2.083	-2.083	0	0.7995	0.7995	0
ctW	$4.407 \cdot 10^{-8}$	0	1	$1.264 \cdot 10^{-12}$	0	1
ctWI	$3.867 \cdot 10^{-10}$	0	1	$1.022 \cdot 10^{-12}$	0	1
ctZ	-0.09219	-0.09219	$5.857 \cdot 10^{-7}$	2.33	2.33	$1.116 \cdot 10^{-6}$
ctZI	-0.0005781	-0.0005781	$5.536 \cdot 10^{-7}$	2.283	2.283	$1.095 \cdot 10^{-6}$
ctp	-0.02856	-0.02856	$3.502 \cdot 10^{-8}$	0.06457	0.06457	0
ctpI	-0.0004678	-0.0004678	$4.275 \cdot 10^{-8}$	0.06432	0.06432	0
sm	0	0	0	2.714	2.714	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	0.01129	0.01129	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cbW	$4.599 \cdot 10^{-5}$	$4.599 \cdot 10^{-5}$	$4.349 \cdot 10^{-8}$	$3.132 \cdot 10^{-5}$	$3.132 \cdot 10^{-5}$	0
cbWI	$1.159 \cdot 10^{-7}$	$1.159 \cdot 10^{-7}$	0	$6.482 \cdot 10^{-6}$	$6.482 \cdot 10^{-6}$	0
cpQ3	0.0003593	0.0003593	$2.783 \cdot 10^{-8}$	$3.602 \cdot 10^{-5}$	$3.602 \cdot 10^{-5}$	0
cpQM	0.0001718	0.0001718	$5.82 \cdot 10^{-8}$	$6.602 \cdot 10^{-6}$	$6.602 \cdot 10^{-6}$	$1.515 \cdot 10^{-8}$
cpb	$-3.66 \cdot 10^{-8}$	$-3.66 \cdot 10^{-8}$	0	$1.124 \cdot 10^{-7}$	$1.124 \cdot 10^{-7}$	0
cptb	$-3.074 \cdot 10^{-7}$	$-3.074 \cdot 10^{-7}$	0	$1.533 \cdot 10^{-6}$	$1.533 \cdot 10^{-6}$	0
cptbI	$8.419 \cdot 10^{-6}$	$8.419 \cdot 10^{-6}$	$1.188 \cdot 10^{-8}$	$3.54 \cdot 10^{-6}$	$3.54 \cdot 10^{-6}$	0
ctW	$9.928 \cdot 10^{-7}$	$9.928 \cdot 10^{-7}$	$2.014 \cdot 10^{-8}$	$6.432 \cdot 10^{-6}$	$6.432 \cdot 10^{-6}$	0
ctWI	$4.796 \cdot 10^{-5}$	$4.796 \cdot 10^{-5}$	$2.085 \cdot 10^{-8}$	$1.546 \cdot 10^{-5}$	$1.546 \cdot 10^{-5}$	0
ctp	$1.248 \cdot 10^{-6}$	$1.248 \cdot 10^{-6}$	0	$3.202 \cdot 10^{-8}$	$3.202 \cdot 10^{-8}$	0
ctpI	$7.803 \cdot 10^{-6}$	$7.803 \cdot 10^{-6}$	0	$3.218 \cdot 10^{-8}$	$3.218 \cdot 10^{-8}$	0
sm	0	0	0	$2.395 \cdot 10^{-5}$	$2.395 \cdot 10^{-5}$	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	$1.138 \cdot 10^{-6}$	$1.138 \cdot 10^{-6}$	$8.784 \cdot 10^{-8}$

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	$4.53 \cdot 10^{-7}$	$4.53 \cdot 10^{-7}$	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cbW	$1.966 \cdot 10^{-7}$	$1.966 \cdot 10^{-7}$	0	$1.635 \cdot 10^{-8}$	$1.635 \cdot 10^{-8}$	0
cbWI	$-1.231 \cdot 10^{-10}$	$-1.231 \cdot 10^{-10}$	$2.437 \cdot 10^{-7}$	$2.571 \cdot 10^{-8}$	$2.571 \cdot 10^{-8}$	0
cpQ3	$4.214 \cdot 10^{-5}$	$4.214 \cdot 10^{-5}$	$2.373 \cdot 10^{-8}$	$1.026 \cdot 10^{-5}$	$1.026 \cdot 10^{-5}$	0
cpQM	$-1.868 \cdot 10^{-5}$	$-1.868 \cdot 10^{-5}$	0	$1.068 \cdot 10^{-6}$	$1.068 \cdot 10^{-6}$	$9.366 \cdot 10^{-8}$
cpt	$1.917 \cdot 10^{-5}$	$1.917 \cdot 10^{-5}$	0	$1.067 \cdot 10^{-6}$	$1.067 \cdot 10^{-6}$	0
cptb	$-5.073 \cdot 10^{-8}$	$-5.073 \cdot 10^{-8}$	$1.971 \cdot 10^{-8}$	$3.101 \cdot 10^{-9}$	$3.101 \cdot 10^{-9}$	0
cptbI	$7.137 \cdot 10^{-8}$	$7.137 \cdot 10^{-8}$	0	$2.517 \cdot 10^{-9}$	$2.517 \cdot 10^{-9}$	0
ctW	$-6.235 \cdot 10^{-7}$	$-6.235 \cdot 10^{-7}$	$4.651 \cdot 10^{-7}$	$7.318 \cdot 10^{-5}$	$7.318 \cdot 10^{-5}$	$-2.733 \cdot 10^{-8}$
ctWI	$6.586 \cdot 10^{-6}$	$6.586 \cdot 10^{-6}$	$-3.037 \cdot 10^{-8}$	$2.772 \cdot 10^{-5}$	$2.772 \cdot 10^{-5}$	0
ctZ	$-1.17 \cdot 10^{-7}$	$-1.17 \cdot 10^{-7}$	$5.13 \cdot 10^{-7}$	$1.13 \cdot 10^{-7}$	$1.13 \cdot 10^{-7}$	$1.062 \cdot 10^{-6}$
ctZI	$4.924 \cdot 10^{-7}$	$4.924 \cdot 10^{-7}$	$5.484 \cdot 10^{-7}$	$4.509 \cdot 10^{-8}$	$4.509 \cdot 10^{-8}$	$1.087 \cdot 10^{-6}$
ctp	$-4.581 \cdot 10^{-7}$	$-4.581 \cdot 10^{-7}$	$2.183 \cdot 10^{-8}$	$2.396 \cdot 10^{-8}$	$2.396 \cdot 10^{-8}$	0
ctpI	$-3.16 \cdot 10^{-7}$	$-3.16 \cdot 10^{-7}$	0	$2.399 \cdot 10^{-7}$	$2.399 \cdot 10^{-7}$	0
sm	0	0	0	$2.078 \cdot 10^{-5}$	$2.078 \cdot 10^{-5}$	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	18.12	18.12	0

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	0.1713	0.1713	0

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	$3.835 \cdot 10^{-7}$	$3.835 \cdot 10^{-7}$	$-5.215 \cdot 10^{-8}$

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	$3.04 \cdot 10^{-6}$
cQbqu1I	0	0	0	0.25	0.25	$3.04 \cdot 10^{-6}$
cQbqu8	0	0	0	0.05556	0.05556	$3.06 \cdot 10^{-6}$
cQbqu8I	0	0	0	0.05556	0.05556	$3.06 \cdot 10^{-6}$
cQq13	0.07326	0.07326	$1.365 \cdot 10^{-8}$	0.3463	0.3463	0
cQq83	$1.01 \cdot 10^{-18}$	$9.619 \cdot 10^{-19}$	0.04779	0.07695	0.07695	0
cQtqd1	0	0	0	0.25	0.25	$3.04 \cdot 10^{-6}$
cQtqd1I	0	0	0	0.25	0.25	$3.04 \cdot 10^{-6}$
cQtqd8	0	0	0	0.05556	0.05556	$3.06 \cdot 10^{-6}$
cQtqd8I	0	0	0	0.05556	0.05556	$3.06 \cdot 10^{-6}$
cbQqd1	0	0	0	0.25	0.25	$3.08 \cdot 10^{-6}$
cbQqd1I	0	0	0	0.25	0.25	$3.08 \cdot 10^{-6}$
cbQqd8	0	0	0	0.05556	0.05556	$2.934 \cdot 10^{-6}$

cbQqd8I	0	0	0	0.05556	0.05556	$2.934 \cdot 10^{-6}$
cbW	0.000298	0.000298	$3.355 \cdot 10^{-8}$	0.01195	0.01195	0
cbWI	$2.388 \cdot 10^{-19}$	$5.882 \cdot 10^{-19}$	-1.464	0.01128	0.01128	0
cbtud1	0	0	0	0.4282	0.4282	$6.072 \cdot 10^{-6}$
cbtud1I	0	0	0	0.08657	0.08657	$6.088 \cdot 10^{-6}$
cbtud8	0	0	0	0.1356	0.1356	$5.901 \cdot 10^{-6}$
cbtud8I	0	0	0	0.09516	0.09516	$5.906 \cdot 10^{-6}$
cpQ3	0.002324	0.002324	0	$7.044 \cdot 10^{-5}$	$7.044 \cdot 10^{-5}$	$1.42 \cdot 10^{-8}$
cptb	$-2.193 \cdot 10^{-6}$	$-2.193 \cdot 10^{-6}$	0	$2.134 \cdot 10^{-5}$	$2.134 \cdot 10^{-5}$	$4.686 \cdot 10^{-8}$
cptbI	$3.912 \cdot 10^{-21}$	$-2.283 \cdot 10^{-21}$	1.584	$5.338 \cdot 10^{-6}$	$5.338 \cdot 10^{-6}$	$1.873 \cdot 10^{-8}$
ctQqu1	0	0	0	0.25	0.25	$3.08 \cdot 10^{-6}$
ctQqu1I	0	0	0	0.25	0.25	$3.08 \cdot 10^{-6}$
ctQqu8	0	0	0	0.05556	0.05556	$2.934 \cdot 10^{-6}$
ctQqu8I	0	0	0	0.05556	0.05556	$2.934 \cdot 10^{-6}$
ctW	0.004693	0.004693	$2.131 \cdot 10^{-8}$	0.01062	0.01062	0
ctWI	$1.383 \cdot 10^{-17}$	$1.009 \cdot 10^{-17}$	0.2704	0.0124	0.0124	0
sm	0	0	0	0.003874	0.003874	$2.581 \cdot 10^{-8}$

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.6885	0.6885	0

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.006623	0.006623	$-4.53 \cdot 10^{-8}$

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

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.001516	0.001516	0

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

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.01384	0.01384	0

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

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$2.206 \cdot 10^{-5}$	$2.206 \cdot 10^{-5}$	$-4.533 \cdot 10^{-8}$	0.0006187	0.0006187	$-4.848 \cdot 10^{-8}$
cbWI	$1.401 \cdot 10^{-21}$	$9.33 \cdot 10^{-22}$	0.3339	0.0006184	0.0006184	$-3.234 \cdot 10^{-8}$
sm	0	0	0	0.0025	0.0025	0

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

interference				square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$1.571 \cdot 10^{-5}$	$1.571 \cdot 10^{-5}$	$-6.367 \cdot 10^{-8}$	$8.614 \cdot 10^{-5}$	$8.614 \cdot 10^{-5}$	0
cbWI	$4.554 \cdot 10^{-16}$	$4.554 \cdot 10^{-16}$	$2.854 \cdot 10^{-7}$	0.001249	0.001249	$8.006 \cdot 10^{-8}$
cpQ3	0.0001118	0.0001118	0	$2.007 \cdot 10^{-5}$	$2.007 \cdot 10^{-5}$	$-4.983 \cdot 10^{-8}$
cpQM	$5.59 \cdot 10^{-5}$	$5.59 \cdot 10^{-5}$	$-3.578 \cdot 10^{-8}$	$5.017 \cdot 10^{-6}$	$5.017 \cdot 10^{-6}$	$-3.986 \cdot 10^{-8}$

cpb	$3.939 \cdot 10^{-5}$	$3.939 \cdot 10^{-5}$	0	$4.663 \cdot 10^{-6}$	$4.663 \cdot 10^{-6}$	$2.145 \cdot 10^{-8}$
sm	0	0	0	0.0003231	0.0003231	$-3.095 \cdot 10^{-8}$

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cbW	$1.407 \cdot 10^{-5}$	$1.407 \cdot 10^{-5}$	0	0.001809	0.001809	0
cbWI	$-1.433 \cdot 10^{-20}$	$-2.81 \cdot 10^{-20}$	-0.9604	0.0006872	0.0006872	0
cpQ3	0.0001163	0.0001163	0	$8.349 \cdot 10^{-6}$	$8.349 \cdot 10^{-6}$	0
cpQM	$5.813 \cdot 10^{-5}$	$5.813 \cdot 10^{-5}$	0	$2.087 \cdot 10^{-6}$	$2.087 \cdot 10^{-6}$	0
cpb	$-9.006 \cdot 10^{-7}$	$-9.006 \cdot 10^{-7}$	$-2.221 \cdot 10^{-8}$	$1.78 \cdot 10^{-7}$	$1.78 \cdot 10^{-7}$	0
sm	0	0	0	0.003788	0.003788	0

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	-0.1073	-0.1073	0	0.3307	0.3307	0
cQQ8	-0.5291	-0.5291	0	0.1377	0.1377	0
cQb1	0.08055	0.08055	$-1.241 \cdot 10^{-8}$	2.203	2.203	0
cQb8	-1.48	-1.48	0	0.631	0.631	0
cbW	-0.004393	-0.004393	0	0.1385	0.1385	0
cbWI	$2.146 \cdot 10^{-18}$	$1.934 \cdot 10^{-18}$	0.09889	0.05084	0.05084	$1.967 \cdot 10^{-8}$
cpQ3	-0.08306	-0.08306	0	0.003179	0.003179	0
cpQM	-0.04153	-0.04153	0	0.0007946	0.0007946	$1.258 \cdot 10^{-8}$
cpb	0.000859	0.000859	$-2.328 \cdot 10^{-8}$	0.0002733	0.0002733	$3.658 \cdot 10^{-8}$
sm	0	0	0	3.208	3.208	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQd1	-0.003708	-0.003708	$-2.697 \cdot 10^{-8}$	0.2549	0.2549	0
cQd8	0.3181	0.3181	0	0.1074	0.1074	0
cQq11	0.02037	0.02037	0	0.09301	0.09301	0
cQq13	0.05368	0.05368	$1.863 \cdot 10^{-8}$	0.2451	0.2451	0
cQq81	0.1614	0.1614	0	0.05447	0.05447	0
cQq83	0.1614	0.1614	0	0.05447	0.05447	0
cbQqd1	-0.01371	0	1	0.5	0.5	$3.1 \cdot 10^{-6}$
cbQqd1I	$2.891 \cdot 10^{-19}$	0	1	0.5	0.5	$3.1 \cdot 10^{-6}$
cbQqd8	$6.094 \cdot 10^{-10}$	0	1	0.1111	0.1111	$2.97 \cdot 10^{-6}$
cbQqd8I	$2.187 \cdot 10^{-20}$	0	1	0.1111	0.1111	$2.88 \cdot 10^{-6}$
cbW	$6.056 \cdot 10^{-5}$	$6.056 \cdot 10^{-5}$	0	0.00548	0.00548	0
cbWI	$8.58 \cdot 10^{-18}$	$8.58 \cdot 10^{-18}$	$7.156 \cdot 10^{-6}$	0.006462	0.006462	$1.548 \cdot 10^{-8}$
cpQ3	0.0003067	0.0003067	0	$2.194 \cdot 10^{-5}$	$2.194 \cdot 10^{-5}$	0
cpQM	0.0001533	0.0001533	0	$5.485 \cdot 10^{-6}$	$5.485 \cdot 10^{-6}$	0
cpb	$-3.536 \cdot 10^{-5}$	$-3.536 \cdot 10^{-5}$	$-2.828 \cdot 10^{-8}$	$1.319 \cdot 10^{-5}$	$1.319 \cdot 10^{-5}$	0
sm	0	0	0	0.4909	0.4909	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQQ1	-2.551	-2.551	0	0.8506	0.8506	0
cQQ8	0.02053	0.02053	0	0.009495	0.009495	0
cQb1	-0.01071	-0.01071	0	0.6289	0.6289	0
cQb8	0.02337	0.02337	0	0.001334	0.001334	0

cQt1	-0.259	-0.259	0	0.6289	0.6289	0
cQt8	-0.1268	-0.1268	0	0.001334	0.001334	0
cQtQb1	-0.004921	-0.004921	0	0.7858	0.7858	0
cQtQb1I	$-2.223 \cdot 10^{-18}$	$-4.502 \cdot 10^{-18}$	-1.025	0.4891	0.4891	0
cQtQb8	0.01058	0.01058	0	0.1016	0.1016	0
cQtQb8I	$-3.416 \cdot 10^{-19}$	$7.749 \cdot 10^{-20}$	1.227	0.1016	0.1016	0
cbW	0.003542	0.003542	0	0.0249	0.0249	$4.016 \cdot 10^{-8}$
cbWI	$3.838 \cdot 10^{-18}$	$3.08 \cdot 10^{-18}$	0.1974	1.475	1.475	0
cpQ3	-0.006456	-0.006456	0	0.003798	0.003798	0
cpQM	-0.0006996	-0.0006996	$-2.859 \cdot 10^{-8}$	$5.641 \cdot 10^{-6}$	$5.641 \cdot 10^{-6}$	$-5.318 \cdot 10^{-8}$
cpb	-0.000131	-0.000131	0	$5.768 \cdot 10^{-6}$	$5.768 \cdot 10^{-6}$	$-3.468 \cdot 10^{-8}$
cpt	-0.001815	-0.001815	0	$3.224 \cdot 10^{-5}$	$3.224 \cdot 10^{-5}$	$3.102 \cdot 10^{-8}$
cptb	0.00258	0.00258	0	0.03072	0.03072	0
cptbI	$-5.009 \cdot 10^{-20}$	$1.774 \cdot 10^{-20}$	1.354	0.0006119	0.0006119	0
ctG	0.1194	0.1194	0	0.0309	0.0309	0
ctGI	$-4.011 \cdot 10^{-17}$	$-6.116 \cdot 10^{-18}$	0.8475	0.02145	0.02145	0
ctW	-1.529	-1.529	$6.541 \cdot 10^{-8}$	1.35	1.35	0
ctWI	$-5.599 \cdot 10^{-17}$	$-3.18 \cdot 10^{-18}$	0.9432	0.0222	0.0222	$1.352 \cdot 10^{-7}$
ctZ	0.005242	0.005242	$5.532 \cdot 10^{-7}$	0.003617	0.003617	$1.106 \cdot 10^{-6}$
ctZI	$3.117 \cdot 10^{-18}$	$8.656 \cdot 10^{-20}$	0.9722	0.002511	0.002511	$1.075 \cdot 10^{-6}$
ctb1	-0.00286	-0.00286	$-3.497 \cdot 10^{-8}$	0.04273	0.04273	0
ctb8	0.5796	0.5796	0	0.189	0.189	0
ctp	$-1.314 \cdot 10^{-5}$	$-1.314 \cdot 10^{-5}$	0	$6.089 \cdot 10^{-7}$	$6.089 \cdot 10^{-7}$	0
ctpI	$-1.912 \cdot 10^{-22}$	$8.228 \cdot 10^{-23}$	1.43	$6.906 \cdot 10^{-7}$	$6.906 \cdot 10^{-7}$	0
sm	0	0	0	11.59	11.59	0

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

interference

square

	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQbqu1	-0.01371	0	1	0.5	0.5	$3.06 \cdot 10^{-6}$
cQbqu1I	$-2.353 \cdot 10^{-23}$	0	1	0.5	0.5	$3.04 \cdot 10^{-6}$
cQbqu8	$-9.637 \cdot 10^{-20}$	0	1	0.1111	0.1111	$3.06 \cdot 10^{-6}$
cQbqu8I	0	0	0	0.1111	0.1111	$3.06 \cdot 10^{-6}$
cQq11	-0.05074	-0.05074	$1.971 \cdot 10^{-8}$	0.2482	0.2482	0
cQq13	0.04124	0.04124	0	0.2017	0.2017	0
cQq81	0.1328	0.1328	0	0.04483	0.04483	0
cQq83	-0.1328	-0.1328	0	0.04483	0.04483	0
cQu1	0.008829	0.008829	$-1.133 \cdot 10^{-8}$	0.3035	0.3035	0
cQu8	0.1998	0.1998	0	0.06744	0.06744	0
cbW	0.0001162	0.0001162	0	0.006447	0.006447	0
cbWI	$-2.927 \cdot 10^{-19}$	$-3.929 \cdot 10^{-19}$	-0.3422	0.006379	0.006379	$1.568 \cdot 10^{-8}$
cpQ3	0.000624	0.000624	0	$3.995 \cdot 10^{-5}$	$3.995 \cdot 10^{-5}$	0
cpQM	0.000312	0.000312	$3.205 \cdot 10^{-8}$	$9.988 \cdot 10^{-6}$	$9.988 \cdot 10^{-6}$	0
cpb	$-5.541 \cdot 10^{-6}$	$-5.541 \cdot 10^{-6}$	$-1.805 \cdot 10^{-7}$	$1.149 \cdot 10^{-5}$	$1.149 \cdot 10^{-5}$	0
sm	0	0	0	0.4953	0.4953	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cbW	$3.98 \cdot 10^{-5}$	$3.98 \cdot 10^{-5}$	$2.512 \cdot 10^{-8}$	0.003448	0.003448	0
cbWI	$-3.212 \cdot 10^{-20}$	$1.098 \cdot 10^{-19}$	4.418	0.003956	0.003956	0
cpQ3	0.0001156	0.0001156	$8.65 \cdot 10^{-8}$	$3.504 \cdot 10^{-6}$	$3.504 \cdot 10^{-6}$	$2.854 \cdot 10^{-8}$
cptb	$-7.312 \cdot 10^{-7}$	$-7.312 \cdot 10^{-7}$	$1.368 \cdot 10^{-8}$	$1.733 \cdot 10^{-6}$	$1.733 \cdot 10^{-6}$	0
cptbI	$-3.574 \cdot 10^{-22}$	$-1.85 \cdot 10^{-23}$	0.9482	$7.954 \cdot 10^{-6}$	$7.954 \cdot 10^{-6}$	$1.257 \cdot 10^{-8}$
ctW	0.003605	0.003605	0	0.004113	0.004113	0
ctWI	$-1.279 \cdot 10^{-18}$	$-9.831 \cdot 10^{-19}$	0.2313	0.003185	0.003185	0

sm	0	0	0	0.00648	0.00648	$1.543 \cdot 10^{-8}$
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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	0.003908	0.003908	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	$7.044 \cdot 10^{-5}$	$7.044 \cdot 10^{-5}$	$1.42 \cdot 10^{-8}$

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	0.5544	0.5544	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	0.0006706	0.0006706	0

1.57 $e^+\nu_\mu \rightarrow e^+\nu_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.004689	0.004689	$-4.266 \cdot 10^{-8}$

1.58 $e^+\nu_e \rightarrow \mu^+\nu_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.008295	0.008295	$1.206 \cdot 10^{-8}$

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.1871	0.1871	0

1.60 $e^+\tau^- \rightarrow e^+\tau^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.01227	0.01227	0

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.01719	0.01719	0

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	5.967	5.967	$-3.352 \cdot 10^{-8}$

1.63 $gg \rightarrow gg$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	43.1	43.1	0

1.64 $gg \rightarrow ggg$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.06519	0.06519	0

1.65 $gg \rightarrow t\bar{t}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
ctG	0.3889	0.3889	0	0.1082	0.1082	0
ctGI	$-1.451 \cdot 10^{-17}$	$-1.554 \cdot 10^{-17}$	-0.07096	0.09343	0.09343	0
sm	0	0	0	0.3902	0.3902	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	7.332	7.332	0

1.67 $s\bar{s} \rightarrow \nu_\tau \bar{\nu}_\tau$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	0.002076	0.002076	0

1.68 $s\bar{s} \rightarrow s\bar{s}$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
sm	0	0	0	29.03	29.03	0

1.69 $t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cpQM	-0.0002376	-0.0002376	0	$1.078 \cdot 10^{-5}$	$1.078 \cdot 10^{-5}$	0
cpt	$1.402 \cdot 10^{-5}$	$1.402 \cdot 10^{-5}$	$-7.133 \cdot 10^{-8}$	$2.896 \cdot 10^{-6}$	$2.896 \cdot 10^{-6}$	0
ctW	$-5.678 \cdot 10^{-10}$	0	1	$1.486 \cdot 10^{-15}$	0	1
ctWI	$2.283 \cdot 10^{-24}$	0	1	$1.053 \cdot 10^{-15}$	0	1
ctZ	0.001474	0.001474	$6.107 \cdot 10^{-7}$	0.003021	0.003021	$1.093 \cdot 10^{-6}$
ctZI	$-3.412 \cdot 10^{-18}$	$-2.599 \cdot 10^{-18}$	0.2382	0.002354	0.002354	$1.105 \cdot 10^{-6}$
sm	0	0	0	0.0009136	0.0009136	$1.095 \cdot 10^{-8}$

1.70 $t\bar{t} \rightarrow \tau^+ \tau^-$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cpQM	$5.013 \cdot 10^{-5}$	$5.013 \cdot 10^{-5}$	$-3.99 \cdot 10^{-8}$	$4.747 \cdot 10^{-6}$	$4.747 \cdot 10^{-6}$	$-4.213 \cdot 10^{-8}$
cpt	-0.0001222	-0.0001222	0	$6.136 \cdot 10^{-6}$	$6.136 \cdot 10^{-6}$	$3.26 \cdot 10^{-8}$
ctW	0.004213	0.004213	$4.984 \cdot 10^{-7}$	0.009158	0.009158	$1.158 \cdot 10^{-6}$
ctWI	$-9.8 \cdot 10^{-19}$	$-2.749 \cdot 10^{-19}$	0.7195	0.002765	0.002765	$1.157 \cdot 10^{-6}$
ctZ	-0.003014	-0.003014	$5.308 \cdot 10^{-7}$	0.005543	0.005543	$1.101 \cdot 10^{-6}$
ctZI	$6.278 \cdot 10^{-19}$	$3.946 \cdot 10^{-19}$	0.3714	0.002258	0.002258	$1.107 \cdot 10^{-6}$
ctp	$-1.026 \cdot 10^{-6}$	$-1.026 \cdot 10^{-6}$	0	$3.101 \cdot 10^{-8}$	$3.101 \cdot 10^{-8}$	0
ctpI	$-9.482 \cdot 10^{-23}$	$-6.768 \cdot 10^{-23}$	0.2862	$3.49 \cdot 10^{-8}$	$3.49 \cdot 10^{-8}$	0
sm	0	0	0	0.0008695	0.0008695	$-3.45 \cdot 10^{-8}$

1.71 $t\bar{t} \rightarrow c\bar{c}$

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQq11	0.1731	0.1731	0	0.7885	0.7885	0
cQq13	0.08795	0.08795	0	0.3989	0.3989	0
cQq81	0.2821	0.2821	0	0.08864	0.08864	0
cQq83	0.2821	0.2821	0	0.08864	0.08864	0
cQu1	0.007814	0.007814	$-2.56 \cdot 10^{-8}$	0.1584	0.1584	0
cQu8	0.1238	0.1238	0	0.03521	0.03521	0
cpQM	-0.0009886	-0.0009886	$1.012 \cdot 10^{-8}$	$2.641 \cdot 10^{-5}$	$2.641 \cdot 10^{-5}$	$3.787 \cdot 10^{-8}$
cpt	0.0001969	0.0001969	$-5.079 \cdot 10^{-8}$	$6.051 \cdot 10^{-6}$	$6.051 \cdot 10^{-6}$	$-3.305 \cdot 10^{-8}$
ctG	0.1977	0.1977	0	0.0248	0.0248	0
ctGI	$-7.353 \cdot 10^{-25}$	$-2.206 \cdot 10^{-24}$	-2	0.01535	0.01535	0
ctQqu1	-0.4725	0	1	0.5004	0.5004	$3.097 \cdot 10^{-6}$

ctQqu1I	$-1.164 \cdot 10^{-17}$	0	1	0.5004	0.5004	$3.097 \cdot 10^{-6}$
ctQqu8	$2.1 \cdot 10^{-8}$	0	1	0.1112	0.1112	$2.967 \cdot 10^{-6}$
ctQqu8I	$1.915 \cdot 10^{-18}$	0	1	0.1112	0.1112	$2.967 \cdot 10^{-6}$
ctW	0.01203	0.01203	$4.156 \cdot 10^{-7}$	0.02546	0.02546	$9.819 \cdot 10^{-7}$
ctWI	$1.156 \cdot 10^{-10}$	$1.156 \cdot 10^{-10}$	$6.922 \cdot 10^{-7}$	0.008714	0.008714	$9.64 \cdot 10^{-7}$
ctZ	-0.00912	-0.00912	$5.373 \cdot 10^{-7}$	0.009775	0.009775	$1.105 \cdot 10^{-6}$
ctZI	$-1.012 \cdot 10^{-10}$	$-1.012 \cdot 10^{-10}$	$5.931 \cdot 10^{-7}$	0.006051	0.006051	$1.091 \cdot 10^{-6}$
ctq1	0.0109	0.0109	0	0.1584	0.1584	0
ctq8	0.1467	0.1467	0	0.04295	0.04295	0
ctu1	0.09087	0.09087	$-1.1 \cdot 10^{-8}$	0.7885	0.7885	0
ctu8	0.2821	0.2821	0	0.08864	0.08864	0
sm	0	0	0	0.6077	0.6077	0

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQd1	-0.003572	-0.003572	$-2.799 \cdot 10^{-8}$	0.1345	0.1345	0
cQd8	0.04722	0.04722	0	0.00936	0.00936	0
cQq11	-0.1381	-0.1381	0	0.6796	0.6796	0
cQq13	0.08895	0.08895	$1.124 \cdot 10^{-8}$	0.4393	0.4393	0
cQq81	0.3088	0.3088	0	0.09763	0.09763	0
cQq83	-0.3088	-0.3088	0	0.09763	0.09763	0
cQtqd1	-0.4725	0	1	0.5004	0.5004	$3.037 \cdot 10^{-6}$
cQtqd1I	$-1.156 \cdot 10^{-17}$	0	1	0.5004	0.5004	$3.057 \cdot 10^{-6}$
cQtqd8	0	0	0	0.1112	0.1112	$3.057 \cdot 10^{-6}$
cQtqd8I	$-3.989 \cdot 10^{-18}$	0	1	0.1112	0.1112	$3.057 \cdot 10^{-6}$
cpQM	-0.0009743	-0.0009743	$1.026 \cdot 10^{-8}$	$3.412 \cdot 10^{-5}$	$3.412 \cdot 10^{-5}$	0
cpt	$1.709 \cdot 10^{-5}$	$1.709 \cdot 10^{-5}$	$-1.755 \cdot 10^{-7}$	$3.27 \cdot 10^{-6}$	$3.27 \cdot 10^{-6}$	$-3.058 \cdot 10^{-8}$

ctG	0.1977	0.1977	0	0.03174	0.03174	0
ctGI	$-2.573 \cdot 10^{-24}$	$-8.799 \cdot 10^{-32}$	1	0.02229	0.02229	0
ctW	0.004344	0.004344	$-9.208 \cdot 10^{-8}$	0.006178	0.006178	$3.723 \cdot 10^{-7}$
ctWI	$1.612 \cdot 10^{-15}$	$1.605 \cdot 10^{-15}$	0.004306	0.003163	0.003163	$3.794 \cdot 10^{-7}$
ctZ	0.0009748	0.0009748	$6.053 \cdot 10^{-7}$	0.003716	0.003716	$1.103 \cdot 10^{-6}$
ctZI	$-1.412 \cdot 10^{-15}$	$-1.414 \cdot 10^{-15}$	-0.001546	0.00261	0.00261	$1.073 \cdot 10^{-6}$
ctd1	-0.0255	-0.0255	0	0.4393	0.4393	0
ctd8	0.3088	0.3088	0	0.09763	0.09763	0
ctq1	-0.002134	-0.002134	$4.687 \cdot 10^{-8}$	0.1345	0.1345	0
ctq8	0.183	0.183	0	0.05518	0.05518	0
sm	0	0	0	0.6225	0.6225	0

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

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
cQd1	-0.002036	-0.002036	$-4.913 \cdot 10^{-8}$	0.02475	0.02475	0
cQd8	0.1883	0.1883	0	0.05697	0.05697	0
cQq11	-0.05511	-0.05511	$1.814 \cdot 10^{-8}$	0.2738	0.2738	0
cQq13	0.1547	0.1547	0	0.7609	0.7609	0
cQq81	0.5205	0.5205	0	0.1691	0.1691	0
cQq83	-0.5205	-0.5205	0	0.1691	0.1691	0
cQtqd1	-0.4725	0	1	0.5004	0.5004	$3.057 \cdot 10^{-6}$
cQtqd1I	$2.294 \cdot 10^{-17}$	0	1	0.5004	0.5004	$3.057 \cdot 10^{-6}$
cQtqd8	$3.368 \cdot 10^{-18}$	0	1	0.1112	0.1112	$3.057 \cdot 10^{-6}$
cQtqd8I	$-2.948 \cdot 10^{-18}$	0	1	0.1112	0.1112	$3.057 \cdot 10^{-6}$
cpQM	-0.0003832	-0.0003832	$2.609 \cdot 10^{-8}$	$1.416 \cdot 10^{-5}$	$1.416 \cdot 10^{-5}$	0
cpt	$3.096 \cdot 10^{-5}$	$3.096 \cdot 10^{-5}$	$-6.461 \cdot 10^{-8}$	$1.331 \cdot 10^{-5}$	$1.331 \cdot 10^{-5}$	0
ctG	0.1977	0.1977	0	0.04703	0.04703	0

ctGI	$-5.882 \cdot 10^{-24}$	$5.882 \cdot 10^{-24}$	2	0.03758	0.03758	0
ctW	0.005844	0.005844	$-1.198 \cdot 10^{-7}$	0.003779	0.003779	$3.705 \cdot 10^{-7}$
ctWI	$5.664 \cdot 10^{-13}$	$5.664 \cdot 10^{-13}$	$-3.866 \cdot 10^{-6}$	0.005332	0.005332	$3.751 \cdot 10^{-7}$
ctZ	0.0002975	0.0002975	$7.058 \cdot 10^{-7}$	0.005506	0.005506	$1.09 \cdot 10^{-6}$
ctZI	$-4.958 \cdot 10^{-13}$	$-4.958 \cdot 10^{-13}$	$3.529 \cdot 10^{-6}$	0.0044	0.0044	$1.114 \cdot 10^{-6}$
ctd1	-0.04386	-0.04386	$-2.28 \cdot 10^{-8}$	0.7609	0.7609	0
ctd8	0.5205	0.5205	0	0.1691	0.1691	0
ctq1	-0.005328	-0.005328	$1.877 \cdot 10^{-8}$	0.02475	0.02475	0
ctq8	0.5988	0.5988	0	0.1955	0.1955	0
sm	0	0	0	0.8326	0.8326	0

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
cQQ1	-1.357	-1.357	0	3.075	3.075	0
cQQ8	-4.646	-4.646	0	0.7718	0.7718	0
cQt1	-2.327	-2.327	0	7.376	7.376	0
cQt8	-4.14	-4.14	0	1.875	1.875	0
cpQM	0.5108	0.5108	0	0.01432	0.01432	0
cpt	-0.4959	-0.4959	0	0.01416	0.01416	0
ctG	0.7747	0.7747	0	3.432	3.432	0
ctGI	$3.385 \cdot 10^{-17}$	$5.846 \cdot 10^{-17}$	-0.727	3.367	3.367	0
ctW	-0.543	-0.543	$4.604 \cdot 10^{-7}$	0.719	0.719	$9.736 \cdot 10^{-7}$
ctWI	$1.642 \cdot 10^{-17}$	$3.056 \cdot 10^{-17}$	-0.8614	2.293	2.293	$1.003 \cdot 10^{-6}$
ctZ	2.411	2.411	$5.393 \cdot 10^{-7}$	1.594	1.594	$1.067 \cdot 10^{-6}$
ctZI	$-1.383 \cdot 10^{-16}$	$1.934 \cdot 10^{-17}$	1.14	1.578	1.578	$1.077 \cdot 10^{-6}$
ctp	0.4057	0.4057	0	0.01057	0.01057	0
ctpI	$2.23 \cdot 10^{-18}$	$-7.486 \cdot 10^{-19}$	1.336	0.005147	0.005147	0

ctt1	-2.485	-2.485	0	12.3	12.3	0
sm	0	0	0	4.934	4.934	0

1.75 $u\bar{d} \rightarrow \mu^+\nu_\mu$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.0005352	0.0005352	$1.868 \cdot 10^{-8}$

1.76 $u\bar{d} \rightarrow c\bar{s}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.00338	0.00338	0

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

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	28.5	28.5	0

1.78 $u\bar{u} \rightarrow \nu_e\bar{\nu}_e$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.002413	0.002413	0

1.79 $u\bar{u} \rightarrow u\bar{u}$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	6536	6536	0

1.80 $zz \rightarrow W^+W^-$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	30.63	30.63	$3.265 \cdot 10^{-8}$

1.81 $zz \rightarrow zz$

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
sm	0	0	0	0.07959	0.07959	0

2 By parameter point

2.1 cQQ1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	-0.1073	-0.1073	0	0.3307	0.3307	0
$b\bar{b} \rightarrow t\bar{t}$	-2.551	-2.551	0	0.8506	0.8506	0
$t\bar{t} \rightarrow t\bar{t}$	-1.357	-1.357	0	3.075	3.075	0

2.2 cQQ8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	-0.5291	-0.5291	0	0.1377	0.1377	0
$b\bar{b} \rightarrow t\bar{t}$	0.02053	0.02053	0	0.009495	0.009495	0
$t\bar{t} \rightarrow t\bar{t}$	-4.646	-4.646	0	0.7718	0.7718	0

2.3 cQb1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	0.08055	0.08055	$-1.241 \cdot 10^{-8}$	2.203	2.203	0
$b\bar{b} \rightarrow t\bar{t}$	-0.01071	-0.01071	0	0.6289	0.6289	0

2.4 cQb8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow b\bar{b}$	-1.48	-1.48	0	0.631	0.631	0
$b\bar{b} \rightarrow t\bar{t}$	0.02337	0.02337	0	0.001334	0.001334	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	$3.04 \cdot 10^{-6}$
$b\bar{b} \rightarrow u\bar{u}$	-0.01371	0	1	0.5	0.5	$3.06 \cdot 10^{-6}$

2.6 cQbqu1I

	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	$3.04 \cdot 10^{-6}$
$b\bar{b} \rightarrow u\bar{u}$	$-2.353 \cdot 10^{-23}$	0	1	0.5	0.5	$3.04 \cdot 10^{-6}$

2.7 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	$3.06 \cdot 10^{-6}$
$b\bar{b} \rightarrow u\bar{u}$	$-9.637 \cdot 10^{-20}$	0	1	0.1111	0.1111	$3.06 \cdot 10^{-6}$

2.8 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	$3.06 \cdot 10^{-6}$
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.1111	0.1111	$3.06 \cdot 10^{-6}$

2.9 cQd1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow d\bar{d}$	-0.003708	-0.003708	$-2.697 \cdot 10^{-8}$	0.2549	0.2549	0
$t\bar{t} \rightarrow d\bar{d}$	-0.003572	-0.003572	$-2.799 \cdot 10^{-8}$	0.1345	0.1345	0
$t\bar{t} \rightarrow s\bar{s}$	-0.002036	-0.002036	$-4.913 \cdot 10^{-8}$	0.02475	0.02475	0

2.10 cQd8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow d\bar{d}$	0.3181	0.3181	0	0.1074	0.1074	0
$t\bar{t} \rightarrow d\bar{d}$	0.04722	0.04722	0	0.00936	0.00936	0
$t\bar{t} \rightarrow s\bar{s}$	0.1883	0.1883	0	0.05697	0.05697	0

2.11 cQq11

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow d\bar{d}$	0.02037	0.02037	0	0.09301	0.09301	0
$b\bar{b} \rightarrow u\bar{u}$	-0.05074	-0.05074	$1.971 \cdot 10^{-8}$	0.2482	0.2482	0
$t\bar{t} \rightarrow c\bar{c}$	0.1731	0.1731	0	0.7885	0.7885	0
$t\bar{t} \rightarrow d\bar{d}$	-0.1381	-0.1381	0	0.6796	0.6796	0
$t\bar{t} \rightarrow s\bar{s}$	-0.05511	-0.05511	$1.814 \cdot 10^{-8}$	0.2738	0.2738	0

2.12 cQq13

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$\bar{b}t \rightarrow \bar{d}u$	0.07326	0.07326	$1.365 \cdot 10^{-8}$	0.3463	0.3463	0
$b\bar{b} \rightarrow d\bar{d}$	0.05368	0.05368	$1.863 \cdot 10^{-8}$	0.2451	0.2451	0
$b\bar{b} \rightarrow u\bar{u}$	0.04124	0.04124	0	0.2017	0.2017	0
$t\bar{t} \rightarrow c\bar{c}$	0.08795	0.08795	0	0.3989	0.3989	0
$t\bar{t} \rightarrow d\bar{d}$	0.08895	0.08895	$1.124 \cdot 10^{-8}$	0.4393	0.4393	0
$t\bar{t} \rightarrow s\bar{s}$	0.1547	0.1547	0	0.7609	0.7609	0

2.13 cQq81

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$b\bar{b} \rightarrow d\bar{d}$	0.1614	0.1614	0	0.05447	0.05447	0
$b\bar{b} \rightarrow u\bar{u}$	0.1328	0.1328	0	0.04483	0.04483	0
$t\bar{t} \rightarrow c\bar{c}$	0.2821	0.2821	0	0.08864	0.08864	0
$t\bar{t} \rightarrow d\bar{d}$	0.3088	0.3088	0	0.09763	0.09763	0
$t\bar{t} \rightarrow s\bar{s}$	0.5205	0.5205	0	0.1691	0.1691	0

2.14 cQq83

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$\bar{b}t \rightarrow \bar{d}u$	$1.01 \cdot 10^{-18}$	$9.619 \cdot 10^{-19}$	0.04779	0.07695	0.07695	0
$b\bar{b} \rightarrow d\bar{d}$	0.1614	0.1614	0	0.05447	0.05447	0
$b\bar{b} \rightarrow u\bar{u}$	−0.1328	−0.1328	0	0.04483	0.04483	0
$t\bar{t} \rightarrow c\bar{c}$	0.2821	0.2821	0	0.08864	0.08864	0
$t\bar{t} \rightarrow d\bar{d}$	−0.3088	−0.3088	0	0.09763	0.09763	0
$t\bar{t} \rightarrow s\bar{s}$	−0.5205	−0.5205	0	0.1691	0.1691	0

2.15 cQt1

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	−0.259	−0.259	0	0.6289	0.6289	0
$t\bar{t} \rightarrow t\bar{t}$	−2.327	−2.327	0	7.376	7.376	0

2.16 cQt8

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	-0.1268	-0.1268	0	0.001334	0.001334	0
$t\bar{t} \rightarrow t\bar{t}$	-4.14	-4.14	0	1.875	1.875	0

2.17 cQtQb1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	-0.004921	-0.004921	0	0.7858	0.7858	0

2.18 cQtQb1I

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	$-2.223 \cdot 10^{-18}$	$-4.502 \cdot 10^{-18}$	-1.025	0.4891	0.4891	0

2.19 cQtQb8

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	0.01058	0.01058	0	0.1016	0.1016	0

2.20 cQtQb8I

interference square

	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	$-3.416 \cdot 10^{-19}$	$7.749 \cdot 10^{-20}$	1.227	0.1016	0.1016	0

2.21 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	$3.04 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	-0.4725	0	1	0.5004	0.5004	$3.037 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	-0.4725	0	1	0.5004	0.5004	$3.057 \cdot 10^{-6}$

2.22 cQtqd1I

	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	$3.04 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	$-1.156 \cdot 10^{-17}$	0	1	0.5004	0.5004	$3.057 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	$2.294 \cdot 10^{-17}$	0	1	0.5004	0.5004	$3.057 \cdot 10^{-6}$

2.23 cQtqd8

	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	$3.06 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.1112	0.1112	$3.057 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	$3.368 \cdot 10^{-18}$	0	1	0.1112	0.1112	$3.057 \cdot 10^{-6}$

2.24 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	$3.06 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	$-3.989 \cdot 10^{-18}$	0	1	0.1112	0.1112	$3.057 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	$-2.948 \cdot 10^{-18}$	0	1	0.1112	0.1112	$3.057 \cdot 10^{-6}$

2.25 cQu1

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow u\bar{u}$	0.008829	0.008829	$-1.133 \cdot 10^{-8}$	0.3035	0.3035	0
$t\bar{t} \rightarrow c\bar{c}$	0.007814	0.007814	$-2.56 \cdot 10^{-8}$	0.1584	0.1584	0

2.26 cQu8

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow u\bar{u}$	0.1998	0.1998	0	0.06744	0.06744	0
$t\bar{t} \rightarrow c\bar{c}$	0.1238	0.1238	0	0.03521	0.03521	0

2.27 cbQqd1

	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	$3.08 \cdot 10^{-6}$
$b\bar{b} \rightarrow d\bar{d}$	-0.01371	0	1	0.5	0.5	$3.1 \cdot 10^{-6}$

2.28 cbQqd1I

	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	$3.08 \cdot 10^{-6}$
$b\bar{b} \rightarrow d\bar{d}$	$2.891 \cdot 10^{-19}$	0	1	0.5	0.5	$3.1 \cdot 10^{-6}$

2.29 cbQqd8

	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	$2.934 \cdot 10^{-6}$
$b\bar{b} \rightarrow d\bar{d}$	$6.094 \cdot 10^{-10}$	0	1	0.1111	0.1111	$2.97 \cdot 10^{-6}$

2.30 cbQqd8I

	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	$2.934 \cdot 10^{-6}$
$b\bar{b} \rightarrow d\bar{d}$	$2.187 \cdot 10^{-20}$	0	1	0.1111	0.1111	$2.88 \cdot 10^{-6}$

2.31 cbW

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$-4.015 \cdot 10^{-7}$	$-4.015 \cdot 10^{-7}$	0	$1.925 \cdot 10^{-5}$	$1.925 \cdot 10^{-5}$	0
$HH \rightarrow z \bar{b}b$	0.001094	0.001094	0	0.0002901	0.0002901	0
$HW^+ \rightarrow \gamma \bar{t}b$	$1.532 \cdot 10^{-8}$	$1.532 \cdot 10^{-8}$	0	$4.002 \cdot 10^{-7}$	$4.002 \cdot 10^{-7}$	$-2.499 \cdot 10^{-8}$

$HW^- \rightarrow \bar{t}b$	0.007426	0.007426	0	2.219	2.219	0
$H\gamma \rightarrow b\bar{b}$	$-1.696 \cdot 10^{-6}$	$-1.696 \cdot 10^{-6}$	$-5.895 \cdot 10^{-8}$	0.5722	0.5722	$-1.748 \cdot 10^{-8}$
$HZ \rightarrow b\bar{b}$	0.001426	0.001426	0	0.9557	0.9557	0
$W^+W^- \rightarrow Hb\bar{b}$	$4.599 \cdot 10^{-5}$	$4.599 \cdot 10^{-5}$	$4.349 \cdot 10^{-8}$	$3.132 \cdot 10^{-5}$	$3.132 \cdot 10^{-5}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$1.966 \cdot 10^{-7}$	$1.966 \cdot 10^{-7}$	0	$1.635 \cdot 10^{-8}$	$1.635 \cdot 10^{-8}$	0
$\bar{b}t \rightarrow \bar{d}u$	0.000298	0.000298	$3.355 \cdot 10^{-8}$	0.01195	0.01195	0
$b\bar{b} \rightarrow \gamma\gamma$	$2.206 \cdot 10^{-5}$	$2.206 \cdot 10^{-5}$	$-4.533 \cdot 10^{-8}$	0.0006187	0.0006187	$-4.848 \cdot 10^{-8}$
$b\bar{b} \rightarrow \mu^+\mu^-$	$1.571 \cdot 10^{-5}$	$1.571 \cdot 10^{-5}$	$-6.367 \cdot 10^{-8}$	$8.614 \cdot 10^{-5}$	$8.614 \cdot 10^{-5}$	0
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	$1.407 \cdot 10^{-5}$	$1.407 \cdot 10^{-5}$	0	0.001809	0.001809	0
$b\bar{b} \rightarrow b\bar{b}$	-0.004393	-0.004393	0	0.1385	0.1385	0
$b\bar{b} \rightarrow d\bar{d}$	$6.056 \cdot 10^{-5}$	$6.056 \cdot 10^{-5}$	0	0.00548	0.00548	0
$b\bar{b} \rightarrow t\bar{t}$	0.003542	0.003542	0	0.0249	0.0249	$4.016 \cdot 10^{-8}$
$b\bar{b} \rightarrow u\bar{u}$	0.0001162	0.0001162	0	0.006447	0.006447	0
$b\bar{t} \rightarrow e^-\bar{\nu}_e$	$3.98 \cdot 10^{-5}$	$3.98 \cdot 10^{-5}$	$2.512 \cdot 10^{-8}$	0.003448	0.003448	0

2.32 cbWI

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow W^+\bar{t}b$	$-1.646 \cdot 10^{-7}$	$-1.646 \cdot 10^{-7}$	0	$7.652 \cdot 10^{-6}$	$7.652 \cdot 10^{-6}$	$1.307 \cdot 10^{-8}$
$HH \rightarrow z\bar{b}b$	$1.895 \cdot 10^{-8}$	$1.895 \cdot 10^{-8}$	0	$2.224 \cdot 10^{-6}$	$2.224 \cdot 10^{-6}$	0
$HW^+ \rightarrow \gamma t\bar{b}$	$1.125 \cdot 10^{-8}$	$1.125 \cdot 10^{-8}$	$-8.892 \cdot 10^{-8}$	$2.508 \cdot 10^{-6}$	$2.508 \cdot 10^{-6}$	0
$HW^- \rightarrow \bar{t}b$	$3.304 \cdot 10^{-7}$	$3.304 \cdot 10^{-7}$	0	2.276	2.276	0
$H\gamma \rightarrow b\bar{b}$	$5.294 \cdot 10^{-23}$	$7.147 \cdot 10^{-22}$	-12.5	0.2338	0.2338	0
$HZ \rightarrow b\bar{b}$	$-1.835 \cdot 10^{-6}$	$-1.835 \cdot 10^{-6}$	0	1.496	1.496	0
$W^+W^- \rightarrow Hb\bar{b}$	$1.159 \cdot 10^{-7}$	$1.159 \cdot 10^{-7}$	0	$6.482 \cdot 10^{-6}$	$6.482 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-1.231 \cdot 10^{-10}$	$-1.231 \cdot 10^{-10}$	$2.437 \cdot 10^{-7}$	$2.571 \cdot 10^{-8}$	$2.571 \cdot 10^{-8}$	0
$\bar{b}t \rightarrow \bar{d}u$	$2.388 \cdot 10^{-19}$	$5.882 \cdot 10^{-19}$	-1.464	0.01128	0.01128	0
$b\bar{b} \rightarrow \gamma\gamma$	$1.401 \cdot 10^{-21}$	$9.33 \cdot 10^{-22}$	0.3339	0.0006184	0.0006184	$-3.234 \cdot 10^{-8}$

$b\bar{b} \rightarrow \mu^+ \mu^-$	$4.554 \cdot 10^{-16}$	$4.554 \cdot 10^{-16}$	$2.854 \cdot 10^{-7}$	0.001249	0.001249	$8.006 \cdot 10^{-8}$
$b\bar{b} \rightarrow \nu_e \bar{\nu}_e$	$-1.433 \cdot 10^{-20}$	$-2.81 \cdot 10^{-20}$	-0.9604	0.0006872	0.0006872	0
$b\bar{b} \rightarrow b\bar{b}$	$2.146 \cdot 10^{-18}$	$1.934 \cdot 10^{-18}$	0.09889	0.05084	0.05084	$1.967 \cdot 10^{-8}$
$b\bar{b} \rightarrow d\bar{d}$	$8.58 \cdot 10^{-18}$	$8.58 \cdot 10^{-18}$	$7.156 \cdot 10^{-6}$	0.006462	0.006462	$1.548 \cdot 10^{-8}$
$b\bar{b} \rightarrow t\bar{t}$	$3.838 \cdot 10^{-18}$	$3.08 \cdot 10^{-18}$	0.1974	1.475	1.475	0
$b\bar{b} \rightarrow u\bar{u}$	$-2.927 \cdot 10^{-19}$	$-3.929 \cdot 10^{-19}$	-0.3422	0.006379	0.006379	$1.568 \cdot 10^{-8}$
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	$-3.212 \cdot 10^{-20}$	$1.098 \cdot 10^{-19}$	4.418	0.003956	0.003956	0

2.33 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	0.4282	0.4282	$6.072 \cdot 10^{-6}$

2.34 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	0.08657	0.08657	$6.088 \cdot 10^{-6}$

2.35 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	0.1356	0.1356	$5.901 \cdot 10^{-6}$

2.36 cbtud8I

	interference			square		
$\bar{b}t \rightarrow \bar{d}u$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
	0	0	0	0.09516	0.09516	$5.906 \cdot 10^{-6}$

2.37 cpQ3

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow W^+ \bar{t}b$	$6.929 \cdot 10^{-6}$	$6.929 \cdot 10^{-6}$	$-1.443 \cdot 10^{-8}$	$9.839 \cdot 10^{-6}$	$9.839 \cdot 10^{-6}$	0
$HH \rightarrow z \bar{b}b$	0.01151	0.01151	0	0.0006452	0.0006452	0
$HW^+ \rightarrow \gamma t \bar{b}$	$4.071 \cdot 10^{-7}$	$4.071 \cdot 10^{-7}$	$-2.457 \cdot 10^{-8}$	$2.177 \cdot 10^{-7}$	$2.177 \cdot 10^{-7}$	$-4.594 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	-1.083	-1.083	0	1.826	1.826	0
$H z \rightarrow \bar{b}b$	0.2997	0.2997	0	2.614	2.614	0
$W^+ W^- \rightarrow H b \bar{b}$	0.0003593	0.0003593	$2.783 \cdot 10^{-8}$	$3.602 \cdot 10^{-5}$	$3.602 \cdot 10^{-5}$	0
$W^+ W^- \rightarrow H t \bar{t}$	$4.214 \cdot 10^{-5}$	$4.214 \cdot 10^{-5}$	$2.373 \cdot 10^{-8}$	$1.026 \cdot 10^{-5}$	$1.026 \cdot 10^{-5}$	0
$\bar{b}t \rightarrow \bar{d}u$	0.002324	0.002324	0	$7.044 \cdot 10^{-5}$	$7.044 \cdot 10^{-5}$	$1.42 \cdot 10^{-8}$
$\bar{b}b \rightarrow \mu^+ \mu^-$	0.0001118	0.0001118	0	$2.007 \cdot 10^{-5}$	$2.007 \cdot 10^{-5}$	$-4.983 \cdot 10^{-8}$
$\bar{b}b \rightarrow \nu_e \bar{\nu}_e$	0.0001163	0.0001163	0	$8.349 \cdot 10^{-6}$	$8.349 \cdot 10^{-6}$	0
$\bar{b}b \rightarrow \bar{b}b$	-0.08306	-0.08306	0	0.003179	0.003179	0
$\bar{b}b \rightarrow d \bar{d}$	0.0003067	0.0003067	0	$2.194 \cdot 10^{-5}$	$2.194 \cdot 10^{-5}$	0
$\bar{b}b \rightarrow t \bar{t}$	-0.006456	-0.006456	0	0.003798	0.003798	0
$\bar{b}b \rightarrow u \bar{u}$	0.000624	0.000624	0	$3.995 \cdot 10^{-5}$	$3.995 \cdot 10^{-5}$	0
$b \bar{t} \rightarrow e^- \bar{\nu}_e$	0.0001156	0.0001156	$8.65 \cdot 10^{-8}$	$3.504 \cdot 10^{-6}$	$3.504 \cdot 10^{-6}$	$2.854 \cdot 10^{-8}$

2.38 cpQM

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow z \bar{b}b$	0.005757	0.005757	0	0.0001613	0.0001613	0

$HH \rightarrow zt\bar{t}$	$5.546 \cdot 10^{-5}$	$5.546 \cdot 10^{-5}$	0	$4.962 \cdot 10^{-5}$	$4.962 \cdot 10^{-5}$	0
$H\bar{z} \rightarrow b\bar{b}$	0.1498	0.1498	0	0.6536	0.6536	0
$H\bar{z} \rightarrow t\bar{t}$	2.016	2.016	0	0.7995	0.7995	0
$W^+W^- \rightarrow Hb\bar{b}$	0.0001718	0.0001718	$5.82 \cdot 10^{-8}$	$6.602 \cdot 10^{-6}$	$6.602 \cdot 10^{-6}$	$1.515 \cdot 10^{-8}$
$W^+W^- \rightarrow Ht\bar{t}$	$-1.868 \cdot 10^{-5}$	$-1.868 \cdot 10^{-5}$	0	$1.068 \cdot 10^{-6}$	$1.068 \cdot 10^{-6}$	$9.366 \cdot 10^{-8}$
$b\bar{b} \rightarrow \mu^+\mu^-$	$5.59 \cdot 10^{-5}$	$5.59 \cdot 10^{-5}$	$-3.578 \cdot 10^{-8}$	$5.017 \cdot 10^{-6}$	$5.017 \cdot 10^{-6}$	$-3.986 \cdot 10^{-8}$
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	$5.813 \cdot 10^{-5}$	$5.813 \cdot 10^{-5}$	0	$2.087 \cdot 10^{-6}$	$2.087 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow b\bar{b}$	-0.04153	-0.04153	0	0.0007946	0.0007946	$1.258 \cdot 10^{-8}$
$b\bar{b} \rightarrow d\bar{d}$	0.0001533	0.0001533	0	$5.485 \cdot 10^{-6}$	$5.485 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow t\bar{t}$	-0.0006996	-0.0006996	$-2.859 \cdot 10^{-8}$	$5.641 \cdot 10^{-6}$	$5.641 \cdot 10^{-6}$	$-5.318 \cdot 10^{-8}$
$b\bar{b} \rightarrow u\bar{u}$	0.000312	0.000312	$3.205 \cdot 10^{-8}$	$9.988 \cdot 10^{-6}$	$9.988 \cdot 10^{-6}$	0
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	-0.0002376	-0.0002376	0	$1.078 \cdot 10^{-5}$	$1.078 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	$5.013 \cdot 10^{-5}$	$5.013 \cdot 10^{-5}$	$-3.99 \cdot 10^{-8}$	$4.747 \cdot 10^{-6}$	$4.747 \cdot 10^{-6}$	$-4.213 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	-0.0009886	-0.0009886	$1.012 \cdot 10^{-8}$	$2.641 \cdot 10^{-5}$	$2.641 \cdot 10^{-5}$	$3.787 \cdot 10^{-8}$
$t\bar{t} \rightarrow d\bar{d}$	-0.0009743	-0.0009743	$1.026 \cdot 10^{-8}$	$3.412 \cdot 10^{-5}$	$3.412 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow s\bar{s}$	-0.0003832	-0.0003832	$2.609 \cdot 10^{-8}$	$1.416 \cdot 10^{-5}$	$1.416 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow t\bar{t}$	0.5108	0.5108	0	0.01432	0.01432	0

2.39 cpb

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow z\bar{b}b$	$-3.037 \cdot 10^{-7}$	$-3.037 \cdot 10^{-7}$	$-3.292 \cdot 10^{-8}$	$2.386 \cdot 10^{-7}$	$2.386 \cdot 10^{-7}$	0
$H\bar{z} \rightarrow b\bar{b}$	-0.04095	-0.04095	$-2.442 \cdot 10^{-8}$	0.9947	0.9947	0
$W^+W^- \rightarrow Hb\bar{b}$	$-3.66 \cdot 10^{-8}$	$-3.66 \cdot 10^{-8}$	0	$1.124 \cdot 10^{-7}$	$1.124 \cdot 10^{-7}$	0
$b\bar{b} \rightarrow \mu^+\mu^-$	$3.939 \cdot 10^{-5}$	$3.939 \cdot 10^{-5}$	0	$4.663 \cdot 10^{-6}$	$4.663 \cdot 10^{-6}$	$2.145 \cdot 10^{-8}$
$b\bar{b} \rightarrow \nu_e\bar{\nu}_e$	$-9.006 \cdot 10^{-7}$	$-9.006 \cdot 10^{-7}$	$-2.221 \cdot 10^{-8}$	$1.78 \cdot 10^{-7}$	$1.78 \cdot 10^{-7}$	0
$b\bar{b} \rightarrow b\bar{b}$	0.000859	0.000859	$-2.328 \cdot 10^{-8}$	0.0002733	0.0002733	$3.658 \cdot 10^{-8}$
$b\bar{b} \rightarrow d\bar{d}$	$-3.536 \cdot 10^{-5}$	$-3.536 \cdot 10^{-5}$	$-2.828 \cdot 10^{-8}$	$1.319 \cdot 10^{-5}$	$1.319 \cdot 10^{-5}$	0

$b\bar{b} \rightarrow t\bar{t}$	-0.000131	-0.000131	0	$5.768 \cdot 10^{-6}$	$5.768 \cdot 10^{-6}$	$-3.468 \cdot 10^{-8}$
$b\bar{b} \rightarrow u\bar{u}$	$-5.541 \cdot 10^{-6}$	$-5.541 \cdot 10^{-6}$	$-1.805 \cdot 10^{-7}$	$1.149 \cdot 10^{-5}$	$1.149 \cdot 10^{-5}$	0

2.40 cpt

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow zt\bar{t}$	$-5.963 \cdot 10^{-5}$	$-5.963 \cdot 10^{-5}$	0	$4.961 \cdot 10^{-5}$	$4.961 \cdot 10^{-5}$	0
$H\bar{z} \rightarrow t\bar{t}$	-2.083	-2.083	0	0.7995	0.7995	0
$W^+W^- \rightarrow Ht\bar{t}$	$1.917 \cdot 10^{-5}$	$1.917 \cdot 10^{-5}$	0	$1.067 \cdot 10^{-6}$	$1.067 \cdot 10^{-6}$	0
$b\bar{b} \rightarrow t\bar{t}$	-0.001815	-0.001815	0	$3.224 \cdot 10^{-5}$	$3.224 \cdot 10^{-5}$	$3.102 \cdot 10^{-8}$
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$1.402 \cdot 10^{-5}$	$1.402 \cdot 10^{-5}$	$-7.133 \cdot 10^{-8}$	$2.896 \cdot 10^{-6}$	$2.896 \cdot 10^{-6}$	0
$t\bar{t} \rightarrow \tau^+ \tau^-$	-0.0001222	-0.0001222	0	$6.136 \cdot 10^{-6}$	$6.136 \cdot 10^{-6}$	$3.26 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	0.0001969	0.0001969	$-5.079 \cdot 10^{-8}$	$6.051 \cdot 10^{-6}$	$6.051 \cdot 10^{-6}$	$-3.305 \cdot 10^{-8}$
$t\bar{t} \rightarrow d\bar{d}$	$1.709 \cdot 10^{-5}$	$1.709 \cdot 10^{-5}$	$-1.755 \cdot 10^{-7}$	$3.27 \cdot 10^{-6}$	$3.27 \cdot 10^{-6}$	$-3.058 \cdot 10^{-8}$
$t\bar{t} \rightarrow s\bar{s}$	$3.096 \cdot 10^{-5}$	$3.096 \cdot 10^{-5}$	$-6.461 \cdot 10^{-8}$	$1.331 \cdot 10^{-5}$	$1.331 \cdot 10^{-5}$	0
$t\bar{t} \rightarrow t\bar{t}$	-0.4959	-0.4959	0	0.01416	0.01416	0

2.41 cptb

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$-2.777 \cdot 10^{-6}$	$-2.777 \cdot 10^{-6}$	0	$2.172 \cdot 10^{-5}$	$2.172 \cdot 10^{-5}$	$4.604 \cdot 10^{-8}$
$HW^+ \rightarrow \gamma t\bar{b}$	$-1.117 \cdot 10^{-7}$	$-1.117 \cdot 10^{-7}$	$-8.949 \cdot 10^{-8}$	$3.498 \cdot 10^{-7}$	$3.498 \cdot 10^{-7}$	$-2.859 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	-0.05351	-0.05351	0	0.4832	0.4832	0
$W^+W^- \rightarrow Hb\bar{b}$	$-3.074 \cdot 10^{-7}$	$-3.074 \cdot 10^{-7}$	0	$1.533 \cdot 10^{-6}$	$1.533 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-5.073 \cdot 10^{-8}$	$-5.073 \cdot 10^{-8}$	$1.971 \cdot 10^{-8}$	$3.101 \cdot 10^{-9}$	$3.101 \cdot 10^{-9}$	0
$\bar{b}t \rightarrow \bar{d}u$	$-2.193 \cdot 10^{-6}$	$-2.193 \cdot 10^{-6}$	0	$2.134 \cdot 10^{-5}$	$2.134 \cdot 10^{-5}$	$4.686 \cdot 10^{-8}$
$b\bar{b} \rightarrow t\bar{t}$	0.00258	0.00258	0	0.03072	0.03072	0

$b\bar{t} \rightarrow e^- \bar{\nu}_e$	$-7.312 \cdot 10^{-7}$	$-7.312 \cdot 10^{-7}$	$1.368 \cdot 10^{-8}$	$1.733 \cdot 10^{-6}$	$1.733 \cdot 10^{-6}$	0
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2.42 cptbI

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow W^+ \bar{t}b$	$1.175 \cdot 10^{-7}$	$1.175 \cdot 10^{-7}$	0	$2.465 \cdot 10^{-6}$	$2.465 \cdot 10^{-6}$	0
$HW^+ \rightarrow \gamma t \bar{b}$	$-3.857 \cdot 10^{-9}$	$-3.857 \cdot 10^{-9}$	0	$5.448 \cdot 10^{-8}$	$5.448 \cdot 10^{-8}$	$-1.836 \cdot 10^{-8}$
$HW^- \rightarrow \bar{t}b$	$-8.778 \cdot 10^{-6}$	$-8.778 \cdot 10^{-6}$	0	0.4566	0.4566	0
$W^+W^- \rightarrow Hb\bar{b}$	$8.419 \cdot 10^{-6}$	$8.419 \cdot 10^{-6}$	$1.188 \cdot 10^{-8}$	$3.54 \cdot 10^{-6}$	$3.54 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$7.137 \cdot 10^{-8}$	$7.137 \cdot 10^{-8}$	0	$2.517 \cdot 10^{-9}$	$2.517 \cdot 10^{-9}$	0
$\bar{b}t \rightarrow \bar{d}u$	$3.912 \cdot 10^{-21}$	$-2.283 \cdot 10^{-21}$	1.584	$5.338 \cdot 10^{-6}$	$5.338 \cdot 10^{-6}$	$1.873 \cdot 10^{-8}$
$b\bar{b} \rightarrow t\bar{t}$	$-5.009 \cdot 10^{-20}$	$1.774 \cdot 10^{-20}$	1.354	0.0006119	0.0006119	0
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	$-3.574 \cdot 10^{-22}$	$-1.85 \cdot 10^{-23}$	0.9482	$7.954 \cdot 10^{-6}$	$7.954 \cdot 10^{-6}$	$1.257 \cdot 10^{-8}$

2.43 ctG

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	0.1194	0.1194	0	0.0309	0.0309	0
$gg \rightarrow t\bar{t}$	0.3889	0.3889	0	0.1082	0.1082	0
$t\bar{t} \rightarrow c\bar{c}$	0.1977	0.1977	0	0.0248	0.0248	0
$t\bar{t} \rightarrow d\bar{d}$	0.1977	0.1977	0	0.03174	0.03174	0
$t\bar{t} \rightarrow s\bar{s}$	0.1977	0.1977	0	0.04703	0.04703	0
$t\bar{t} \rightarrow t\bar{t}$	0.7747	0.7747	0	3.432	3.432	0

2.44 ctGI

interference	square
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	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$b\bar{b} \rightarrow t\bar{t}$	$-4.011 \cdot 10^{-17}$	$-6.116 \cdot 10^{-18}$	0.8475	0.02145	0.02145	0
$gg \rightarrow t\bar{t}$	$-1.451 \cdot 10^{-17}$	$-1.554 \cdot 10^{-17}$	-0.07096	0.09343	0.09343	0
$t\bar{t} \rightarrow c\bar{c}$	$-7.353 \cdot 10^{-25}$	$-2.206 \cdot 10^{-24}$	-2	0.01535	0.01535	0
$t\bar{t} \rightarrow d\bar{d}$	$-2.573 \cdot 10^{-24}$	$-8.799 \cdot 10^{-32}$	1	0.02229	0.02229	0
$t\bar{t} \rightarrow s\bar{s}$	$-5.882 \cdot 10^{-24}$	$5.882 \cdot 10^{-24}$	2	0.03758	0.03758	0
$t\bar{t} \rightarrow t\bar{t}$	$3.385 \cdot 10^{-17}$	$5.846 \cdot 10^{-17}$	-0.727	3.367	3.367	0

2.45 ctQqu1

	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	$3.08 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	-0.4725	0	1	0.5004	0.5004	$3.097 \cdot 10^{-6}$

2.46 ctQqu1I

	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	$3.08 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	$-1.164 \cdot 10^{-17}$	0	1	0.5004	0.5004	$3.097 \cdot 10^{-6}$

2.47 ctQqu8

	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	$2.934 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	$2.1 \cdot 10^{-8}$	0	1	0.1112	0.1112	$2.967 \cdot 10^{-6}$

2.48 ctQqu8I

	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	$2.934 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	$1.915 \cdot 10^{-18}$	0	1	0.1112	0.1112	$2.967 \cdot 10^{-6}$

2.49 ctW

	interference			square		
	mod1	mod2	1 − mod2/mod1	mod1	mod2	1 − mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$1.573 \cdot 10^{-6}$	$1.573 \cdot 10^{-6}$	0	$7.658 \cdot 10^{-6}$	$7.658 \cdot 10^{-6}$	0
$HH \rightarrow zt\bar{t}$	$-7.426 \cdot 10^{-13}$	0	1	$4.223 \cdot 10^{-17}$	0	1
$HW^+ \rightarrow \gamma t\bar{b}$	$2.075 \cdot 10^{-5}$	$2.075 \cdot 10^{-5}$	$6.266 \cdot 10^{-7}$	$1.27 \cdot 10^{-5}$	$1.27 \cdot 10^{-5}$	$1.024 \cdot 10^{-6}$
$HW^- \rightarrow t\bar{b}$	−0.2671	−0.2671	0	2.276	2.276	0
$H\gamma \rightarrow t\bar{t}$	−0.6078	−0.6078	$5.923 \cdot 10^{-7}$	15.51	15.51	$1.225 \cdot 10^{-6}$
$HZ \rightarrow t\bar{t}$	$4.407 \cdot 10^{-8}$	0	1	$1.264 \cdot 10^{-12}$	0	1
$W^+W^- \rightarrow Hb\bar{b}$	$9.928 \cdot 10^{-7}$	$9.928 \cdot 10^{-7}$	$2.014 \cdot 10^{-8}$	$6.432 \cdot 10^{-6}$	$6.432 \cdot 10^{-6}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-6.235 \cdot 10^{-7}$	$-6.235 \cdot 10^{-7}$	$4.651 \cdot 10^{-7}$	$7.318 \cdot 10^{-5}$	$7.318 \cdot 10^{-5}$	$-2.733 \cdot 10^{-8}$
$\bar{b}t \rightarrow \bar{d}u$	0.004693	0.004693	$2.131 \cdot 10^{-8}$	0.01062	0.01062	0
$b\bar{b} \rightarrow t\bar{t}$	−1.529	−1.529	$6.541 \cdot 10^{-8}$	1.35	1.35	0
$b\bar{t} \rightarrow e^- \bar{\nu}_e$	0.003605	0.003605	0	0.004113	0.004113	0
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$-5.678 \cdot 10^{-10}$	0	1	$1.486 \cdot 10^{-15}$	0	1
$t\bar{t} \rightarrow \tau^+ \tau^-$	0.004213	0.004213	$4.984 \cdot 10^{-7}$	0.009158	0.009158	$1.158 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	0.01203	0.01203	$4.156 \cdot 10^{-7}$	0.02546	0.02546	$9.819 \cdot 10^{-7}$
$t\bar{t} \rightarrow d\bar{d}$	0.004344	0.004344	$-9.208 \cdot 10^{-8}$	0.006178	0.006178	$3.723 \cdot 10^{-7}$
$t\bar{t} \rightarrow s\bar{s}$	0.005844	0.005844	$-1.198 \cdot 10^{-7}$	0.003779	0.003779	$3.705 \cdot 10^{-7}$
$t\bar{t} \rightarrow t\bar{t}$	−0.543	−0.543	$4.604 \cdot 10^{-7}$	0.719	0.719	$9.736 \cdot 10^{-7}$

2.50 ctWI

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow W^+ \bar{t}b$	$-4.187 \cdot 10^{-6}$	$-4.187 \cdot 10^{-6}$	0	$1.929 \cdot 10^{-5}$	$1.929 \cdot 10^{-5}$	0
$HH \rightarrow z t \bar{t}$	$5.7 \cdot 10^{-13}$	0	1	$1.207 \cdot 10^{-17}$	0	1
$HW^+ \rightarrow \gamma t \bar{b}$	$-3.437 \cdot 10^{-6}$	$-3.437 \cdot 10^{-6}$	$7.564 \cdot 10^{-7}$	$3.549 \cdot 10^{-5}$	$3.549 \cdot 10^{-5}$	$1.212 \cdot 10^{-6}$
$HW^- \rightarrow t \bar{b}$	0.0001286	0.0001286	0	2.219	2.219	0
$H\gamma \rightarrow t \bar{t}$	$-2.084 \cdot 10^{-17}$	$-9.37 \cdot 10^{-17}$	-3.495	14.39	14.39	$1.181 \cdot 10^{-6}$
$H z \rightarrow t \bar{t}$	$3.867 \cdot 10^{-10}$	0	1	$1.022 \cdot 10^{-12}$	0	1
$W^+ W^- \rightarrow H b \bar{b}$	$4.796 \cdot 10^{-5}$	$4.796 \cdot 10^{-5}$	$2.085 \cdot 10^{-8}$	$1.546 \cdot 10^{-5}$	$1.546 \cdot 10^{-5}$	0
$W^+ W^- \rightarrow H t \bar{t}$	$6.586 \cdot 10^{-6}$	$6.586 \cdot 10^{-6}$	$-3.037 \cdot 10^{-8}$	$2.772 \cdot 10^{-5}$	$2.772 \cdot 10^{-5}$	0
$\bar{b} t \rightarrow \bar{d} u$	$1.383 \cdot 10^{-17}$	$1.009 \cdot 10^{-17}$	0.2704	0.0124	0.0124	0
$b \bar{b} \rightarrow t \bar{t}$	$-5.599 \cdot 10^{-17}$	$-3.18 \cdot 10^{-18}$	0.9432	0.0222	0.0222	$1.352 \cdot 10^{-7}$
$b \bar{t} \rightarrow e^- \bar{\nu}_e$	$-1.279 \cdot 10^{-18}$	$-9.831 \cdot 10^{-19}$	0.2313	0.003185	0.003185	0
$t \bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$2.283 \cdot 10^{-24}$	0	1	$1.053 \cdot 10^{-15}$	0	1
$t \bar{t} \rightarrow \tau^+ \tau^-$	$-9.8 \cdot 10^{-19}$	$-2.749 \cdot 10^{-19}$	0.7195	0.002765	0.002765	$1.157 \cdot 10^{-6}$
$t \bar{t} \rightarrow c \bar{c}$	$1.156 \cdot 10^{-10}$	$1.156 \cdot 10^{-10}$	$6.922 \cdot 10^{-7}$	0.008714	0.008714	$9.64 \cdot 10^{-7}$
$t \bar{t} \rightarrow d \bar{d}$	$1.612 \cdot 10^{-15}$	$1.605 \cdot 10^{-15}$	0.004306	0.003163	0.003163	$3.794 \cdot 10^{-7}$
$t \bar{t} \rightarrow s \bar{s}$	$5.664 \cdot 10^{-13}$	$5.664 \cdot 10^{-13}$	$-3.866 \cdot 10^{-6}$	0.005332	0.005332	$3.751 \cdot 10^{-7}$
$t \bar{t} \rightarrow t \bar{t}$	$1.642 \cdot 10^{-17}$	$3.056 \cdot 10^{-17}$	-0.8614	2.293	2.293	$1.003 \cdot 10^{-6}$

2.51 ctZ

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow z t \bar{t}$	$-1.374 \cdot 10^{-6}$	$-1.374 \cdot 10^{-6}$	$5.822 \cdot 10^{-7}$	$3.994 \cdot 10^{-5}$	$3.994 \cdot 10^{-5}$	$1.102 \cdot 10^{-6}$
$HW^+ \rightarrow \gamma t \bar{b}$	$-5.619 \cdot 10^{-6}$	$-5.619 \cdot 10^{-6}$	$5.517 \cdot 10^{-7}$	$2.846 \cdot 10^{-5}$	$2.846 \cdot 10^{-5}$	$1.125 \cdot 10^{-6}$
$H\gamma \rightarrow t \bar{t}$	0.5809	0.5809	$5.508 \cdot 10^{-7}$	11.03	11.03	$1.179 \cdot 10^{-6}$

$H z \rightarrow t\bar{t}$	-0.09219	-0.09219	$5.857 \cdot 10^{-7}$	2.33	2.33	$1.116 \cdot 10^{-6}$
$W^+ W^- \rightarrow H t\bar{t}$	$-1.17 \cdot 10^{-7}$	$-1.17 \cdot 10^{-7}$	$5.13 \cdot 10^{-7}$	$1.13 \cdot 10^{-7}$	$1.13 \cdot 10^{-7}$	$1.062 \cdot 10^{-6}$
$b\bar{b} \rightarrow t\bar{t}$	0.005242	0.005242	$5.532 \cdot 10^{-7}$	0.003617	0.003617	$1.106 \cdot 10^{-6}$
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	0.001474	0.001474	$6.107 \cdot 10^{-7}$	0.003021	0.003021	$1.093 \cdot 10^{-6}$
$t\bar{t} \rightarrow \tau^+ \tau^-$	-0.003014	-0.003014	$5.308 \cdot 10^{-7}$	0.005543	0.005543	$1.101 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	-0.00912	-0.00912	$5.373 \cdot 10^{-7}$	0.009775	0.009775	$1.105 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	0.0009748	0.0009748	$6.053 \cdot 10^{-7}$	0.003716	0.003716	$1.103 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	0.0002975	0.0002975	$7.058 \cdot 10^{-7}$	0.005506	0.005506	$1.09 \cdot 10^{-6}$
$t\bar{t} \rightarrow t\bar{t}$	2.411	2.411	$5.393 \cdot 10^{-7}$	1.594	1.594	$1.067 \cdot 10^{-6}$

2.52 ctZI

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$HH \rightarrow z t\bar{t}$	$-8.521 \cdot 10^{-7}$	$-8.521 \cdot 10^{-7}$	$5.633 \cdot 10^{-7}$	$2.696 \cdot 10^{-5}$	$2.696 \cdot 10^{-5}$	$1.076 \cdot 10^{-6}$
$HW^+ \rightarrow \gamma t\bar{b}$	$3.791 \cdot 10^{-6}$	$3.791 \cdot 10^{-6}$	$5.54 \cdot 10^{-7}$	$2.846 \cdot 10^{-5}$	$2.846 \cdot 10^{-5}$	$1.125 \cdot 10^{-6}$
$H\gamma \rightarrow t\bar{t}$	$2.431 \cdot 10^{-17}$	$4.86 \cdot 10^{-17}$	-0.9989	11.03	11.03	$1.179 \cdot 10^{-6}$
$H z \rightarrow t\bar{t}$	-0.0005781	-0.0005781	$5.536 \cdot 10^{-7}$	2.283	2.283	$1.095 \cdot 10^{-6}$
$W^+ W^- \rightarrow H t\bar{t}$	$4.924 \cdot 10^{-7}$	$4.924 \cdot 10^{-7}$	$5.484 \cdot 10^{-7}$	$4.509 \cdot 10^{-8}$	$4.509 \cdot 10^{-8}$	$1.087 \cdot 10^{-6}$
$b\bar{b} \rightarrow t\bar{t}$	$3.117 \cdot 10^{-18}$	$8.656 \cdot 10^{-20}$	0.9722	0.002511	0.002511	$1.075 \cdot 10^{-6}$
$t\bar{t} \rightarrow \nu_\mu \bar{\nu}_\mu$	$-3.412 \cdot 10^{-18}$	$-2.599 \cdot 10^{-18}$	0.2382	0.002354	0.002354	$1.105 \cdot 10^{-6}$
$t\bar{t} \rightarrow \tau^+ \tau^-$	$6.278 \cdot 10^{-19}$	$3.946 \cdot 10^{-19}$	0.3714	0.002258	0.002258	$1.107 \cdot 10^{-6}$
$t\bar{t} \rightarrow c\bar{c}$	$-1.012 \cdot 10^{-10}$	$-1.012 \cdot 10^{-10}$	$5.931 \cdot 10^{-7}$	0.006051	0.006051	$1.091 \cdot 10^{-6}$
$t\bar{t} \rightarrow d\bar{d}$	$-1.412 \cdot 10^{-15}$	$-1.414 \cdot 10^{-15}$	-0.001546	0.00261	0.00261	$1.073 \cdot 10^{-6}$
$t\bar{t} \rightarrow s\bar{s}$	$-4.958 \cdot 10^{-13}$	$-4.958 \cdot 10^{-13}$	$3.529 \cdot 10^{-6}$	0.0044	0.0044	$1.114 \cdot 10^{-6}$
$t\bar{t} \rightarrow t\bar{t}$	$-1.383 \cdot 10^{-16}$	$1.934 \cdot 10^{-17}$	1.14	1.578	1.578	$1.077 \cdot 10^{-6}$

2.53 ctb1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	-0.00286	-0.00286	$-3.497 \cdot 10^{-8}$	0.04273	0.04273	0

2.54 ctb8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$b\bar{b} \rightarrow t\bar{t}$	0.5796	0.5796	0	0.189	0.189	0

2.55 ctd1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow d\bar{d}$	-0.0255	-0.0255	0	0.4393	0.4393	0
$t\bar{t} \rightarrow s\bar{s}$	-0.04386	-0.04386	$-2.28 \cdot 10^{-8}$	0.7609	0.7609	0

2.56 ctd8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow d\bar{d}$	0.3088	0.3088	0	0.09763	0.09763	0
$t\bar{t} \rightarrow s\bar{s}$	0.5205	0.5205	0	0.1691	0.1691	0

2.57 ctp

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

$HH \rightarrow Ht\bar{t}$	$-4.41 \cdot 10^{-8}$	$-4.41 \cdot 10^{-8}$	0	$1.527 \cdot 10^{-5}$	$1.527 \cdot 10^{-5}$	0
$HH \rightarrow W^+\bar{t}b$	$1.23 \cdot 10^{-7}$	$1.23 \cdot 10^{-7}$	$1.626 \cdot 10^{-7}$	$6.345 \cdot 10^{-7}$	$6.345 \cdot 10^{-7}$	0
$HH \rightarrow zt\bar{t}$	$1.457 \cdot 10^{-5}$	$1.457 \cdot 10^{-5}$	0	$1.706 \cdot 10^{-5}$	$1.706 \cdot 10^{-5}$	0
$HW^+ \rightarrow \gamma t\bar{b}$	$-4.639 \cdot 10^{-7}$	$-4.639 \cdot 10^{-7}$	$-2.156 \cdot 10^{-8}$	$1.383 \cdot 10^{-8}$	$1.383 \cdot 10^{-8}$	0
$HW^- \rightarrow \bar{t}b$	0.09301	0.09301	0	0.05181	0.05181	0
$H\gamma \rightarrow t\bar{t}$	-0.05442	-0.05442	0	0.00167	0.00167	0
$H z \rightarrow t\bar{t}$	-0.02856	-0.02856	$3.502 \cdot 10^{-8}$	0.06457	0.06457	0
$W^+W^- \rightarrow Hb\bar{b}$	$1.248 \cdot 10^{-6}$	$1.248 \cdot 10^{-6}$	0	$3.202 \cdot 10^{-8}$	$3.202 \cdot 10^{-8}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-4.581 \cdot 10^{-7}$	$-4.581 \cdot 10^{-7}$	$2.183 \cdot 10^{-8}$	$2.396 \cdot 10^{-8}$	$2.396 \cdot 10^{-8}$	0
$b\bar{b} \rightarrow t\bar{t}$	$-1.314 \cdot 10^{-5}$	$-1.314 \cdot 10^{-5}$	0	$6.089 \cdot 10^{-7}$	$6.089 \cdot 10^{-7}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	$-1.026 \cdot 10^{-6}$	$-1.026 \cdot 10^{-6}$	0	$3.101 \cdot 10^{-8}$	$3.101 \cdot 10^{-8}$	0
$t\bar{t} \rightarrow t\bar{t}$	0.4057	0.4057	0	0.01057	0.01057	0

2.58 ctpI

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow Ht\bar{t}$	$-7.619 \cdot 10^{-7}$	$-7.619 \cdot 10^{-7}$	0	$5.19 \cdot 10^{-5}$	$5.19 \cdot 10^{-5}$	0
$HH \rightarrow W^+\bar{t}b$	$1.964 \cdot 10^{-7}$	$1.964 \cdot 10^{-7}$	$-5.091 \cdot 10^{-8}$	$2.844 \cdot 10^{-6}$	$2.844 \cdot 10^{-6}$	0
$HH \rightarrow zt\bar{t}$	$1.719 \cdot 10^{-6}$	$1.719 \cdot 10^{-6}$	0	$1.688 \cdot 10^{-5}$	$1.688 \cdot 10^{-5}$	0
$HW^+ \rightarrow \gamma t\bar{b}$	$3.726 \cdot 10^{-8}$	$3.726 \cdot 10^{-8}$	$-2.684 \cdot 10^{-8}$	$1.109 \cdot 10^{-8}$	$1.109 \cdot 10^{-8}$	0
$HW^- \rightarrow \bar{t}b$	-0.001039	-0.001039	0	0.05832	0.05832	0
$H\gamma \rightarrow t\bar{t}$	$-2.873 \cdot 10^{-18}$	$-2.331 \cdot 10^{-18}$	0.1887	0.002104	0.002104	$-4.754 \cdot 10^{-8}$
$H z \rightarrow t\bar{t}$	-0.0004678	-0.0004678	$4.275 \cdot 10^{-8}$	0.06432	0.06432	0
$W^+W^- \rightarrow Hb\bar{b}$	$7.803 \cdot 10^{-6}$	$7.803 \cdot 10^{-6}$	0	$3.218 \cdot 10^{-8}$	$3.218 \cdot 10^{-8}$	0
$W^+W^- \rightarrow Ht\bar{t}$	$-3.16 \cdot 10^{-7}$	$-3.16 \cdot 10^{-7}$	0	$2.399 \cdot 10^{-7}$	$2.399 \cdot 10^{-7}$	0
$b\bar{b} \rightarrow t\bar{t}$	$-1.912 \cdot 10^{-22}$	$8.228 \cdot 10^{-23}$	1.43	$6.906 \cdot 10^{-7}$	$6.906 \cdot 10^{-7}$	0
$t\bar{t} \rightarrow \tau^+\tau^-$	$-9.482 \cdot 10^{-23}$	$-6.768 \cdot 10^{-23}$	0.2862	$3.49 \cdot 10^{-8}$	$3.49 \cdot 10^{-8}$	0
$t\bar{t} \rightarrow t\bar{t}$	$2.23 \cdot 10^{-18}$	$-7.486 \cdot 10^{-19}$	1.336	0.005147	0.005147	0

2.59 ctq1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow c\bar{c}$	0.0109	0.0109	0	0.1584	0.1584	0
$t\bar{t} \rightarrow d\bar{d}$	-0.002134	-0.002134	$4.687 \cdot 10^{-8}$	0.1345	0.1345	0
$t\bar{t} \rightarrow s\bar{s}$	-0.005328	-0.005328	$1.877 \cdot 10^{-8}$	0.02475	0.02475	0

2.60 ctq8

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow c\bar{c}$	0.1467	0.1467	0	0.04295	0.04295	0
$t\bar{t} \rightarrow d\bar{d}$	0.183	0.183	0	0.05518	0.05518	0
$t\bar{t} \rightarrow s\bar{s}$	0.5988	0.5988	0	0.1955	0.1955	0

2.61 ctt1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow t\bar{t}$	-2.485	-2.485	0	12.3	12.3	0

2.62 ctu1

	interference			square		
	mod1	mod2	$1 - \text{mod2}/\text{mod1}$	mod1	mod2	$1 - \text{mod2}/\text{mod1}$
$t\bar{t} \rightarrow c\bar{c}$	0.09087	0.09087	$-1.1 \cdot 10^{-8}$	0.7885	0.7885	0

2.63 ctu8

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$t\bar{t} \rightarrow c\bar{c}$	0.2821	0.2821	0	0.08864	0.08864	0

2.64 sm

	interference			square		
	mod1	mod2	1 - mod2/mod1	mod1	mod2	1 - mod2/mod1
$HH \rightarrow HH$	0	0	0	0.003749	0.003749	0
$HH \rightarrow HHH$	0	0	0	$3.146 \cdot 10^{-7}$	$3.146 \cdot 10^{-7}$	0
$HH \rightarrow H\tau^+\tau^-$	0	0	0	$3.141 \cdot 10^{-10}$	$3.141 \cdot 10^{-10}$	0
$HH \rightarrow Hb\bar{b}$	0	0	0	$1.161 \cdot 10^{-9}$	$1.161 \cdot 10^{-9}$	0
$HH \rightarrow Ht\bar{t}$	0	0	0	$4.504 \cdot 10^{-5}$	$4.504 \cdot 10^{-5}$	0
$HH \rightarrow Hzz$	0	0	0	$2.815 \cdot 10^{-5}$	$2.815 \cdot 10^{-5}$	0
$HH \rightarrow W^+W^-$	0	0	0	1.406	1.406	$7.111 \cdot 10^{-8}$
$HH \rightarrow W^+W^-\gamma$	0	0	0	$1.099 \cdot 10^{-7}$	$1.099 \cdot 10^{-7}$	$-9.098 \cdot 10^{-8}$
$HH \rightarrow W^+\bar{t}b$	0	0	0	$4.686 \cdot 10^{-5}$	$4.686 \cdot 10^{-5}$	0
$HH \rightarrow W^+e^-\bar{\nu}_e$	0	0	0	$1.398 \cdot 10^{-6}$	$1.398 \cdot 10^{-6}$	0
$HH \rightarrow W^-u\bar{d}$	0	0	0	$4.972 \cdot 10^{-7}$	$4.972 \cdot 10^{-7}$	$2.011 \cdot 10^{-8}$
$HH \rightarrow z\bar{b}b$	0	0	0	$4.051 \cdot 10^{-6}$	$4.051 \cdot 10^{-6}$	0
$HH \rightarrow z\nu_e\bar{\nu}_e$	0	0	0	$3.914 \cdot 10^{-6}$	$3.914 \cdot 10^{-6}$	0
$HH \rightarrow zc\bar{c}$	0	0	0	$2.478 \cdot 10^{-6}$	$2.478 \cdot 10^{-6}$	0
$HH \rightarrow zd\bar{d}$	0	0	0	$3.613 \cdot 10^{-7}$	$3.613 \cdot 10^{-7}$	0
$HH \rightarrow ze^+e^-$	0	0	0	$1.211 \cdot 10^{-7}$	$1.211 \cdot 10^{-7}$	0
$HH \rightarrow zt\bar{t}$	0	0	0	0.0001485	0.0001485	0
$HH \rightarrow zz$	0	0	0	16.1	16.1	0
$HW^+ \rightarrow \gamma t\bar{b}$	0	0	0	$2.238 \cdot 10^{-5}$	$2.238 \cdot 10^{-5}$	0

$HW^+ \rightarrow \gamma u \bar{d}$	0	0	0	$3.508 \cdot 10^{-9}$	$3.508 \cdot 10^{-9}$	0
$HW^+ \rightarrow u \bar{d}$	0	0	0	0.01434	0.01434	$6.975 \cdot 10^{-8}$
$HW^- \rightarrow t \bar{b}$	0	0	0	0.4067	0.4067	0
$HW^- \rightarrow \gamma e^- \bar{\nu}_e$	0	0	0	$8.49 \cdot 10^{-8}$	$8.49 \cdot 10^{-8}$	$-1.178 \cdot 10^{-8}$
$HW^- \rightarrow \mu^- \bar{\nu}_\mu$	0	0	0	0.00454	0.00454	$2.203 \cdot 10^{-8}$
$H\gamma \rightarrow b \bar{b}$	0	0	0	0.0002864	0.0002864	0
$H\gamma \rightarrow t \bar{t}$	0	0	0	0.4047	0.4047	$-2.471 \cdot 10^{-8}$
$H z \rightarrow \mu^+ \mu^-$	0	0	0	0.0032	0.0032	0
$H z \rightarrow \nu_\tau \bar{\nu}_\tau$	0	0	0	0.005752	0.005752	0
$H z \rightarrow b \bar{b}$	0	0	0	0.0137	0.0137	0
$H z \rightarrow s \bar{s}$	0	0	0	0.0133	0.0133	0
$H z \rightarrow t \bar{t}$	0	0	0	2.714	2.714	0
$H z \rightarrow u \bar{u}$	0	0	0	0.01129	0.01129	0
$W^+ W^- \rightarrow H b \bar{b}$	0	0	0	$2.395 \cdot 10^{-5}$	$2.395 \cdot 10^{-5}$	0
$W^+ W^- \rightarrow H c \bar{c}$	0	0	0	$1.138 \cdot 10^{-6}$	$1.138 \cdot 10^{-6}$	$8.784 \cdot 10^{-8}$
$W^+ W^- \rightarrow H d \bar{d}$	0	0	0	$4.53 \cdot 10^{-7}$	$4.53 \cdot 10^{-7}$	0
$W^+ W^- \rightarrow H t \bar{t}$	0	0	0	$2.078 \cdot 10^{-5}$	$2.078 \cdot 10^{-5}$	0
$W^+ W^- \rightarrow W^+ W^-$	0	0	0	18.12	18.12	0
$W^+ W^- \rightarrow \gamma \gamma$	0	0	0	0.1713	0.1713	0
$W^+ W^- \rightarrow \gamma \gamma \gamma$	0	0	0	$3.835 \cdot 10^{-7}$	$3.835 \cdot 10^{-7}$	$-5.215 \cdot 10^{-8}$
$\bar{b} t \rightarrow \bar{d} u$	0	0	0	0.003874	0.003874	$2.581 \cdot 10^{-8}$
$\gamma W^+ \rightarrow z W^+$	0	0	0	0.6885	0.6885	0
$\mu^+ \mu^- \rightarrow \tau^+ \tau^-$	0	0	0	0.006623	0.006623	$-4.53 \cdot 10^{-8}$
$\nu_\tau \bar{\nu}_\tau \rightarrow \nu_\tau \bar{\nu}_\tau$	0	0	0	0.001516	0.001516	0
$\nu_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	0	0	0	0.01384	0.01384	0
$b \bar{b} \rightarrow \gamma \gamma$	0	0	0	0.0025	0.0025	0
$b \bar{b} \rightarrow \mu^+ \mu^-$	0	0	0	0.0003231	0.0003231	$-3.095 \cdot 10^{-8}$
$b \bar{b} \rightarrow \nu_e \bar{\nu}_e$	0	0	0	0.003788	0.003788	0
$b \bar{b} \rightarrow b \bar{b}$	0	0	0	3.208	3.208	0

$b\bar{b} \rightarrow d\bar{d}$	0	0	0	0.4909	0.4909	0
$b\bar{b} \rightarrow t\bar{t}$	0	0	0	11.59	11.59	0
$b\bar{b} \rightarrow u\bar{u}$	0	0	0	0.4953	0.4953	0
$b\bar{t} \rightarrow e^-\bar{\nu}_e$	0	0	0	0.00648	0.00648	$1.543 \cdot 10^{-8}$
$c\bar{c} \rightarrow \mu^+\mu^-$	0	0	0	0.003908	0.003908	0
$c\bar{s} \rightarrow \tau^+\nu_\tau$	0	0	0	$7.044 \cdot 10^{-5}$	$7.044 \cdot 10^{-5}$	$1.42 \cdot 10^{-8}$
$d\bar{d} \rightarrow c\bar{c}$	0	0	0	0.5544	0.5544	0
$d\bar{d} \rightarrow e^+e^-$	0	0	0	0.0006706	0.0006706	0
$e^+\nu_\mu \rightarrow e^+\nu_\mu$	0	0	0	0.004689	0.004689	$-4.266 \cdot 10^{-8}$
$e^+\nu_e \rightarrow \mu^+\nu_\mu$	0	0	0	0.008295	0.008295	$1.206 \cdot 10^{-8}$
$e^+\nu_e \rightarrow e^+\nu_e$	0	0	0	0.1871	0.1871	0
$e^+\tau^- \rightarrow e^+\tau^-$	0	0	0	0.01227	0.01227	0
$e^+e^- \rightarrow \mu^+\mu^-$	0	0	0	0.01719	0.01719	0
$e^+e^- \rightarrow e^+e^-$	0	0	0	5.967	5.967	$-3.352 \cdot 10^{-8}$
$gg \rightarrow gg$	0	0	0	43.1	43.1	0
$gg \rightarrow ggg$	0	0	0	0.06519	0.06519	0
$gg \rightarrow t\bar{t}$	0	0	0	0.3902	0.3902	0
$gg \rightarrow u\bar{u}$	0	0	0	7.332	7.332	0
$s\bar{s} \rightarrow \nu_\tau\bar{\nu}_\tau$	0	0	0	0.002076	0.002076	0
$s\bar{s} \rightarrow s\bar{s}$	0	0	0	29.03	29.03	0
$t\bar{t} \rightarrow \nu_\mu\bar{\nu}_\mu$	0	0	0	0.0009136	0.0009136	$1.095 \cdot 10^{-8}$
$t\bar{t} \rightarrow \tau^+\tau^-$	0	0	0	0.0008695	0.0008695	$-3.45 \cdot 10^{-8}$
$t\bar{t} \rightarrow c\bar{c}$	0	0	0	0.6077	0.6077	0
$t\bar{t} \rightarrow d\bar{d}$	0	0	0	0.6225	0.6225	0
$t\bar{t} \rightarrow s\bar{s}$	0	0	0	0.8326	0.8326	0
$t\bar{t} \rightarrow t\bar{t}$	0	0	0	4.934	4.934	0
$u\bar{d} \rightarrow \mu^+\nu_\mu$	0	0	0	0.0005352	0.0005352	$1.868 \cdot 10^{-8}$
$u\bar{d} \rightarrow c\bar{s}$	0	0	0	0.00338	0.00338	0
$u\bar{d} \rightarrow u\bar{d}$	0	0	0	28.5	28.5	0

$u\bar{u} \rightarrow \nu_e \bar{\nu}_e$	0	0	0	0.002413	0.002413	0
$u\bar{u} \rightarrow u\bar{u}$	0	0	0	6536	6536	0
$zz \rightarrow W^+W^-$	0	0	0	30.63	30.63	$3.265 \cdot 10^{-8}$
$zz \rightarrow zz$	0	0	0	0.07959	0.07959	0