1 By process

$\textbf{1.1} \quad HH \rightarrow HH$

		interfere	ence		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сНВ	$-1.857 \cdot 10^{-12}$	$-1.857 \cdot 10^{-12}$	0	$3.539 \cdot 10^{-14}$	$3.539 \cdot 10^{-14}$	0	
cHDD	$-5.841 \cdot 10^{-13}$	$-5.841 \cdot 10^{-13}$	0	$3.501 \cdot 10^{-15}$	$3.501 \cdot 10^{-15}$	0	
cHG	$1.214 \cdot 10^{-11}$	$1.214 \cdot 10^{-11}$	0	$3.889 \cdot 10^{-12}$	$3.889 \cdot 10^{-12}$	0	
cHW	$-3.007 \cdot 10^{-13}$	$-3.007 \cdot 10^{-13}$	0	$2.387 \cdot 10^{-15}$	$2.387 \cdot 10^{-15}$	0	
cHWB	$1.569 \cdot 10^{-12}$	$1.569 \cdot 10^{-12}$	0	$2.526 \cdot 10^{-14}$	$2.526 \cdot 10^{-14}$	0	
cHl3	$-5.518 \cdot 10^{-13}$	$-5.518 \cdot 10^{-13}$	0	$8.036 \cdot 10^{-15}$	$8.036 \cdot 10^{-15}$	0	
cHq3	$1.27 \cdot 10^{-14}$	$1.27 \cdot 10^{-14}$	0	$4.259 \cdot 10^{-18}$	$4.259 \cdot 10^{-18}$	0	
cdHRe	$-1.485 \cdot 10^{-12}$	$-1.485 \cdot 10^{-12}$	0	$2.263 \cdot 10^{-14}$	$2.263 \cdot 10^{-14}$	0	
ceHRe	$-1.599 \cdot 10^{-13}$	$-1.599 \cdot 10^{-13}$	0	$2.625 \cdot 10^{-16}$	$2.625 \cdot 10^{-16}$	0	
cll1	$2.783 \cdot 10^{-13}$	$2.783 \cdot 10^{-13}$	0	$2.045 \cdot 10^{-15}$	$2.045 \cdot 10^{-15}$	0	
cuHRe	$-7.372 \cdot 10^{-14}$	$-7.372 \cdot 10^{-14}$	0	$5.578 \cdot 10^{-17}$	$5.578 \cdot 10^{-17}$	0	
sm	0	0	0	0.04824	0.04824	0	

1.2 $HH \rightarrow H\tau^+\tau^-$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сНВ	$8.694 \cdot 10^{-24}$	$8.694 \cdot 10^{-24}$	0	$4.378 \cdot 10^{-23}$	$4.378 \cdot 10^{-23}$	0	
cHDD	$2.735 \cdot 10^{-24}$	$2.735 \cdot 10^{-24}$	0	$4.331 \cdot 10^{-24}$	$4.331 \cdot 10^{-24}$	0	
cHG	$-1.661 \cdot 10^{-20}$	$-1.661 \cdot 10^{-20}$	0	$3.567 \cdot 10^{-20}$	$3.567 \cdot 10^{-20}$	0	
cHW	$4.114 \cdot 10^{-22}$	$4.114 \cdot 10^{-22}$	0	$2.189 \cdot 10^{-23}$	$2.189 \cdot 10^{-23}$	0	
cHWB	$-7.346 \cdot 10^{-24}$	$-7.346 \cdot 10^{-24}$	0	$3.125 \cdot 10^{-23}$	$3.125 \cdot 10^{-23}$	0	
cH13	$7.548 \cdot 10^{-22}$	$7.548 \cdot 10^{-22}$	0	$7.369 \cdot 10^{-23}$	$7.369 \cdot 10^{-23}$	0	

сНq3	$-1.738 \cdot 10^{-23}$	$-1.738 \cdot 10^{-23}$	0	$3.906 \cdot 10^{-26}$	$3.906 \cdot 10^{-26}$	0
cdHRe	$6.953 \cdot 10^{-24}$	$6.953 \cdot 10^{-24}$	0	$2.8 \cdot 10^{-23}$	$2.8 \cdot 10^{-23}$	0
ceHRe	$7.488 \cdot 10^{-25}$	$7.488 \cdot 10^{-25}$	0	$3.247 \cdot 10^{-25}$	$3.247 \cdot 10^{-25}$	0
cll1	$-3.808 \cdot 10^{-22}$	$-3.808 \cdot 10^{-22}$	0	$1.875 \cdot 10^{-23}$	$1.875 \cdot 10^{-23}$	0
cuHRe	$3.452 \cdot 10^{-25}$	$3.452 \cdot 10^{-25}$	0	$6.901 \cdot 10^{-26}$	$6.901 \cdot 10^{-26}$	0
sm	0	0	0	$2.193 \cdot 10^{-10}$	$2.193 \cdot 10^{-10}$	0

1.3 $HH \rightarrow Hb\bar{b}$

		interfere	ence		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сНВ	$1.728 \cdot 10^{-14}$	$1.728 \cdot 10^{-14}$	0	$7.634 \cdot 10^{-16}$	$7.634 \cdot 10^{-16}$	0	
cHDD	$5.435 \cdot 10^{-15}$	$5.435 \cdot 10^{-15}$	0	$7.553 \cdot 10^{-17}$	$7.553 \cdot 10^{-17}$	0	
сHG	$6.02 \cdot 10^{-19}$	$6.02 \cdot 10^{-19}$	0	$7.305 \cdot 10^{-19}$	$7.305 \cdot 10^{-19}$	0	
cHW	$-1.491 \cdot 10^{-20}$	$-1.491 \cdot 10^{-20}$	0	$4.482 \cdot 10^{-22}$	$4.482 \cdot 10^{-22}$	0	
cHWB	$-1.46 \cdot 10^{-14}$	$-1.46 \cdot 10^{-14}$	0	$5.45 \cdot 10^{-16}$	$5.45 \cdot 10^{-16}$	0	
cH13	$-2.736 \cdot 10^{-20}$	$-2.736 \cdot 10^{-20}$	0	$1.509 \cdot 10^{-21}$	$1.509 \cdot 10^{-21}$	0	
cHq3	$6.3 \cdot 10^{-22}$	$6.3 \cdot 10^{-22}$	0	$8 \cdot 10^{-25}$	$8 \cdot 10^{-25}$	0	
cdHRe	$1.382 \cdot 10^{-14}$	$1.382 \cdot 10^{-14}$	0	$4.882 \cdot 10^{-16}$	$4.882 \cdot 10^{-16}$	0	
ceHRe	$1.488 \cdot 10^{-15}$	$1.488 \cdot 10^{-15}$	0	$5.663 \cdot 10^{-18}$	$5.663 \cdot 10^{-18}$	0	
cll1	$1.38 \cdot 10^{-20}$	$1.38 \cdot 10^{-20}$	0	$3.841 \cdot 10^{-22}$	$3.841 \cdot 10^{-22}$	0	
cuHRe	$6.86 \cdot 10^{-16}$	$6.86 \cdot 10^{-16}$	0	$1.203 \cdot 10^{-18}$	$1.203 \cdot 10^{-18}$	0	
sm	0	0	0	$2.235 \cdot 10^{-6}$	$2.235 \cdot 10^{-6}$	0	

1.4 $HH \rightarrow W^+W^-$

	interference			square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	1 - mod2/mod1
сНВ	$-4.104 \cdot 10^{-10}$	$-4.104 \cdot 10^{-10}$	0	$1.252 \cdot 10^{-15}$	$1.252 \cdot 10^{-15}$	0

cHDD	$-1.291 \cdot 10^{-10}$	$-1.291 \cdot 10^{-10}$	0	$1.239 \cdot 10^{-16}$	$1.239 \cdot 10^{-16}$	0
cHG	$1.745 \cdot 10^{-8}$	$1.745 \cdot 10^{-8}$	0	$1.528 \cdot 10^{-12}$	$1.528 \cdot 10^{-12}$	0
cHW	$-4.323 \cdot 10^{-10}$	$-4.323 \cdot 10^{-10}$	0	$9.379 \cdot 10^{-16}$	$9.379 \cdot 10^{-16}$	0
cHWB	$3.468 \cdot 10^{-10}$	$3.468 \cdot 10^{-10}$	0	$8.938 \cdot 10^{-16}$	$8.938 \cdot 10^{-16}$	0
cHl3	$-6.78 \cdot 10^{-6}$	$-6.78 \cdot 10^{-6}$	0	$3.357 \cdot 10^{-7}$	$3.357 \cdot 10^{-7}$	0
cHq3	$6.779 \cdot 10^{-6}$	$6.779 \cdot 10^{-6}$	0	$3.356 \cdot 10^{-7}$	$3.356 \cdot 10^{-7}$	0
cdHRe	$-3.282 \cdot 10^{-10}$	$-3.282 \cdot 10^{-10}$	0	$8.007 \cdot 10^{-16}$	$8.007 \cdot 10^{-16}$	0
ceHRe	$-3.535 \cdot 10^{-11}$	$-3.535 \cdot 10^{-11}$	0	$9.287 \cdot 10^{-18}$	$9.287 \cdot 10^{-18}$	0
cll1	$5.085 \cdot 10^{-6}$	$5.085 \cdot 10^{-6}$	0	$1.888 \cdot 10^{-7}$	$1.888 \cdot 10^{-7}$	0
cuHRe	$-1.63 \cdot 10^{-11}$	$-1.63 \cdot 10^{-11}$	0	$1.974 \cdot 10^{-18}$	$1.974 \cdot 10^{-18}$	0
sm	0	0	0	0.09208	0.09208	0

1.5 $HH \rightarrow W^+W^-\gamma$

		interfere	ence		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cHB	$-6.412 \cdot 10^{-15}$	$-6.412 \cdot 10^{-15}$	0	$6.095 \cdot 10^{-21}$	$6.095 \cdot 10^{-21}$	0	
cHDD	$-2.017 \cdot 10^{-15}$	$-2.017 \cdot 10^{-15}$	0	$6.03 \cdot 10^{-22}$	$6.03 \cdot 10^{-22}$	0	
cHG	$2.375 \cdot 10^{-13}$	$2.375 \cdot 10^{-13}$	0	$7.905 \cdot 10^{-18}$	$7.905 \cdot 10^{-18}$	0	
cHW	$-5.883 \cdot 10^{-15}$	$-5.883 \cdot 10^{-15}$	0	$4.851 \cdot 10^{-21}$	$4.851 \cdot 10^{-21}$	0	
cHWB	$5.418 \cdot 10^{-15}$	$5.418 \cdot 10^{-15}$	0	$4.351 \cdot 10^{-21}$	$4.351 \cdot 10^{-21}$	0	
cH13	$-1.103 \cdot 10^{-10}$	$-1.103 \cdot 10^{-10}$	0	$1.133 \cdot 10^{-11}$	$1.133 \cdot 10^{-11}$	0	
сНqЗ	$1.103 \cdot 10^{-10}$	$1.103 \cdot 10^{-10}$	0	$1.133 \cdot 10^{-11}$	$1.133 \cdot 10^{-11}$	0	
cdHRe	$-5.128 \cdot 10^{-15}$	$-5.128 \cdot 10^{-15}$	0	$3.898 \cdot 10^{-21}$	$3.898 \cdot 10^{-21}$	0	
ceHRe	$-5.522 \cdot 10^{-16}$	$-5.522 \cdot 10^{-16}$	0	$4.521 \cdot 10^{-23}$	$4.521 \cdot 10^{-23}$	0	
cll1	$8.271 \cdot 10^{-11}$	$8.271 \cdot 10^{-11}$	0	$6.374 \cdot 10^{-12}$	$6.374 \cdot 10^{-12}$	0	
cuHRe	$-2.546 \cdot 10^{-16}$	$-2.546 \cdot 10^{-16}$	0	$9.608 \cdot 10^{-24}$	$9.608 \cdot 10^{-24}$	0	
sm	0	0	0	$1.083 \cdot 10^{-5}$	$1.083 \cdot 10^{-5}$	0	

1.6 $HH \rightarrow W^+ e^- \bar{\nu}_e$

		interfere	ence		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сНВ	$1.669 \cdot 10^{-18}$	$1.669 \cdot 10^{-18}$	0	$9.567 \cdot 10^{-24}$	$9.567 \cdot 10^{-24}$	0	
cHDD	$5.25 \cdot 10^{-19}$	$5.25 \cdot 10^{-19}$	0	$9.466 \cdot 10^{-25}$	$9.466 \cdot 10^{-25}$	0	
cHG	$-8.986 \cdot 10^{-15}$	$-8.986 \cdot 10^{-15}$	0	$1.969 \cdot 10^{-20}$	$1.969 \cdot 10^{-20}$	0	
cHW	$2.226 \cdot 10^{-16}$	$2.226 \cdot 10^{-16}$	0	$1.208 \cdot 10^{-23}$	$1.208 \cdot 10^{-23}$	0	
cHWB	$-1.41 \cdot 10^{-18}$	$-1.41 \cdot 10^{-18}$	0	$6.83 \cdot 10^{-24}$	$6.83 \cdot 10^{-24}$	0	
cH13	$1.356 \cdot 10^{-12}$	$1.356 \cdot 10^{-12}$	0	$5.59 \cdot 10^{-15}$	$5.59 \cdot 10^{-15}$	0	
сНqЗ	$-1.356 \cdot 10^{-12}$	$-1.356 \cdot 10^{-12}$	0	$5.589 \cdot 10^{-15}$	$5.589 \cdot 10^{-15}$	0	
cdHRe	$1.335 \cdot 10^{-18}$	$1.335 \cdot 10^{-18}$	0	$6.119 \cdot 10^{-24}$	$6.119 \cdot 10^{-24}$	0	
ceHRe	$1.438 \cdot 10^{-19}$	$1.438 \cdot 10^{-19}$	0	$7.097 \cdot 10^{-26}$	$7.097 \cdot 10^{-26}$	0	
cll1	$-1.017 \cdot 10^{-12}$	$-1.017 \cdot 10^{-12}$	0	$3.144 \cdot 10^{-15}$	$3.144 \cdot 10^{-15}$	0	
cuHRe	$6.628 \cdot 10^{-20}$	$6.628 \cdot 10^{-20}$	0	$1.508 \cdot 10^{-26}$	$1.508 \cdot 10^{-26}$	0	
sm	0	0	0	$1.313 \cdot 10^{-7}$	$1.313 \cdot 10^{-7}$	0	

1.7 $HH \rightarrow W^- u \bar{d}$

	interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сНВ	$9.255 \cdot 10^{-17}$	$9.255 \cdot 10^{-17}$	0	$4.151 \cdot 10^{-24}$	$4.151 \cdot 10^{-24}$	0	
cHDD	$2.911 \cdot 10^{-17}$	$2.911 \cdot 10^{-17}$	0	$4.107 \cdot 10^{-25}$	$4.107 \cdot 10^{-25}$	0	
cHG	$-1.064 \cdot 10^{-13}$	$-1.064 \cdot 10^{-13}$	0	$1.429 \cdot 10^{-18}$	$1.429 \cdot 10^{-18}$	0	
cHW	$2.635 \cdot 10^{-15}$	$2.635 \cdot 10^{-15}$	0	$8.769 \cdot 10^{-22}$	$8.769 \cdot 10^{-22}$	0	
cHWB	$-7.819 \cdot 10^{-17}$	$-7.819 \cdot 10^{-17}$	0	$2.963 \cdot 10^{-24}$	$2.963 \cdot 10^{-24}$	0	
cH13	$4.538 \cdot 10^{-11}$	$4.538 \cdot 10^{-11}$	0	$1.553 \cdot 10^{-13}$	$1.553 \cdot 10^{-13}$	0	
cHq3	$-4.537 \cdot 10^{-11}$	$-4.537 \cdot 10^{-11}$	0	$1.552 \cdot 10^{-13}$	$1.552 \cdot 10^{-13}$	0	
cdHRe	$7.401 \cdot 10^{-17}$	$7.401 \cdot 10^{-17}$	0	$2.655 \cdot 10^{-24}$	$2.655 \cdot 10^{-24}$	0	

ceHRe	$7.971 \cdot 10^{-18}$	$7.971 \cdot 10^{-18}$	0	$3.079 \cdot 10^{-26}$	$3.079 \cdot 10^{-26}$	0
cll1	$-3.403 \cdot 10^{-11}$	$-3.403 \cdot 10^{-11}$	0	$8.733 \cdot 10^{-14}$	$8.733 \cdot 10^{-14}$	0
cuHRe	$3.675 \cdot 10^{-18}$	$3.675 \cdot 10^{-18}$	0	$6.544 \cdot 10^{-27}$	$6.544 \cdot 10^{-27}$	0
sm	0	0	0	$1.462 \cdot 10^{-6}$	$1.462 \cdot 10^{-6}$	0

1.8 $HH \rightarrow z\bar{b}b$

		interfere	nce		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
cG	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
сН	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
cHB	$1.072 \cdot 10^{-16}$	$1.072 \cdot 10^{-16}$	0	$7.737 \cdot 10^{-24}$	$7.737 \cdot 10^{-24}$	0	
cHDD	$-6.543 \cdot 10^{-14}$	$-6.543 \cdot 10^{-14}$	0	$2.963 \cdot 10^{-17}$	$2.963 \cdot 10^{-17}$	0	
cHG	$-1.219 \cdot 10^{-14}$	$-1.219 \cdot 10^{-14}$	0	$1.342 \cdot 10^{-19}$	$1.342 \cdot 10^{-19}$	0	
cHW	$3.021 \cdot 10^{-16}$	$3.021 \cdot 10^{-16}$	0	$8.235 \cdot 10^{-23}$	$8.235 \cdot 10^{-23}$	0	
cHWB	$4.202 \cdot 10^{-13}$	$4.202 \cdot 10^{-13}$	0	$1.221 \cdot 10^{-15}$	$1.221 \cdot 10^{-15}$	0	
cHd	$-1.641 \cdot 10^{-13}$	$-1.641 \cdot 10^{-13}$	0	$1.861 \cdot 10^{-16}$	$1.861 \cdot 10^{-16}$	0	
сНе	$7.118 \cdot 10^{-13}$	$7.118 \cdot 10^{-13}$	0	$1.088 \cdot 10^{-15}$	$1.088 \cdot 10^{-15}$	0	
cHl1	$-1.664 \cdot 10^{-13}$	$-1.664 \cdot 10^{-13}$	0	$1.914 \cdot 10^{-16}$	$1.914 \cdot 10^{-16}$	0	
cH13	$5.352 \cdot 10^{-12}$	$5.352 \cdot 10^{-12}$	0	$6.15 \cdot 10^{-14}$	$6.15 \cdot 10^{-14}$	0	
cHq1	$4.265 \cdot 10^{-13}$	$4.265 \cdot 10^{-13}$	0	$1.257 \cdot 10^{-15}$	$1.257 \cdot 10^{-15}$	0	
cHq3	$-6.314 \cdot 10^{-12}$	$-6.314 \cdot 10^{-12}$	0	$8.56 \cdot 10^{-14}$	$8.56 \cdot 10^{-14}$	0	
сHu	$2.219 \cdot 10^{-13}$	$2.219 \cdot 10^{-13}$	0	$3.403 \cdot 10^{-16}$	$3.403 \cdot 10^{-16}$	0	
cHudRe	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
сW	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
cdBRe	$2.464 \cdot 10^{-15}$	$2.464 \cdot 10^{-15}$	0	$1.303 \cdot 10^{-20}$	$1.303 \cdot 10^{-20}$	0	
cdGRe	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
cdHRe	$8.576 \cdot 10^{-17}$	$8.576 \cdot 10^{-17}$	0	$4.948 \cdot 10^{-2}$	$4.948 \cdot 10^{-24}$	4 0	
cdWRe	$4.601 \cdot 10^{-15}$	$4.601 \cdot 10^{-15}$	0	$4.545 \cdot 10^{-2}$	$4.545 \cdot 10^{-20}$	0	

cdd	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cdd1	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
ceBRe	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
ceHRe	$9.236 \cdot 10^{-18}$	$9.236 \cdot 10^{-18}$	0	$5.739 \cdot 10^{-26}$	$5.739 \cdot 10^{-26}$	0
ceWRe	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
ced	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cee	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
ceu	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cld	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cle	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
${ t cledqRe}$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
clequ1Re	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
clequ3Re	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cll	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cll1	$-3.917 \cdot 10^{-12}$	$-3.917 \cdot 10^{-12}$	0	$3.294 \cdot 10^{-14}$	$3.294 \cdot 10^{-14}$	0
clq1	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
clq3	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
clu	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cqd1	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$		1
cqd8	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cqe	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cqq1	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cqq11	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$		1
cqq3	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cqq31	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cqu1	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cqu8	$-3.354 \cdot 10^{-27}$		1	$7.775 \cdot 10^{-44}$	0	1
cquqd11Re	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cquqd1Re	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1

cquqd81Re	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cquqd8Re	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cuBRe	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cuGRe	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cuHRe	$4.258 \cdot 10^{-18}$	$4.258 \cdot 10^{-18}$	0	$1.22 \cdot 10^{-26}$	$1.22 \cdot 10^{-26}$	0
cuWRe	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cud1	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cud8	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
cuu	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
cuu1	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
sm	0	0	0	$3.459 \cdot 10^{-7}$	$3.459 \cdot 10^{-7}$	0

1.9 $HH \rightarrow zc\bar{c}$

	interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
сG	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1		
сН	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1		
сНВ	$-1.037 \cdot 10^{-17}$	$-1.037 \cdot 10^{-17}$	0	$1.203 \cdot 10^{-23}$	$1.203 \cdot 10^{-23}$	0		
cHDD	$-7.188 \cdot 10^{-15}$	$-7.188 \cdot 10^{-15}$	0	$1.404 \cdot 10^{-17}$	$1.404 \cdot 10^{-17}$	0		
cHG	$1.096 \cdot 10^{-15}$	$1.096 \cdot 10^{-15}$	0	$3.954 \cdot 10^{-21}$	$3.954 \cdot 10^{-21}$	0		
cHW	$-2.716 \cdot 10^{-17}$	$-2.716 \cdot 10^{-17}$	0	$2.427 \cdot 10^{-24}$	$2.427 \cdot 10^{-24}$	0		
cHWB	$4.614 \cdot 10^{-14}$	$4.614 \cdot 10^{-14}$	0	$5.785 \cdot 10^{-16}$	$5.785 \cdot 10^{-16}$	0		
cHd	$-1.801 \cdot 10^{-14}$	$-1.801 \cdot 10^{-14}$	0	$8.815 \cdot 10^{-17}$	$8.815 \cdot 10^{-17}$	0		
сНе	$-9.738 \cdot 10^{-14}$	$-9.738 \cdot 10^{-14}$	0	$4.269 \cdot 10^{-17}$	$4.269 \cdot 10^{-17}$	0		
cHl1	$-1.827 \cdot 10^{-14}$	$-1.827 \cdot 10^{-14}$	0	$9.069 \cdot 10^{-17}$	$9.069 \cdot 10^{-17}$	0		
cH13	$-7.321 \cdot 10^{-13}$	$-7.321 \cdot 10^{-13}$	0	$2.413 \cdot 10^{-15}$	$2.413 \cdot 10^{-15}$	0		
cHq1	$4.681 \cdot 10^{-14}$	$4.681 \cdot 10^{-14}$	0	$5.956 \cdot 10^{-16}$	$5.956 \cdot 10^{-16}$	0		
cHq3	$8.638 \cdot 10^{-13}$	$8.638 \cdot 10^{-13}$	0	$3.359 \cdot 10^{-15}$	$3.359 \cdot 10^{-15}$	0		

cHu	$2.435 \cdot 10^{-14}$ $2.435 \cdot 10^{-14}$	0	$1.612 \cdot 10^{-16}$ $1.612 \cdot 10^{-16}$	0
cHudRe	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cW	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
cdBRe	$-3.37 \cdot 10^{-16}$ $-3.37 \cdot 10^{-16}$	0	$5.114 \cdot 10^{-22}$ $5.114 \cdot 10^{-22}$	0
cdGRe	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
cdHRe	$-8.291 \cdot 10^{-18} -8.291 \cdot 10^{-18}$	0	$7.694 \cdot 10^{-24} 7.694 \cdot 10^{-24}$	0
cdWRe	$-6.294 \cdot 10^{-16} -6.294 \cdot 10^{-16}$	0	$1.783 \cdot 10^{-21}$ $1.783 \cdot 10^{-21}$	0
cdd	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cdd1	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
ceBRe	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
ceHRe	$-8.929 \cdot 10^{-19} -8.929 \cdot 10^{-19}$	0	$8.924 \cdot 10^{-26}$ $8.924 \cdot 10^{-26}$	0
ceWRe	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
ced	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
cee	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
ceu	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cld	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
cle	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
cledqRe	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
clequ1Re	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
clequ3Re	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cll	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cll1	$5.359 \cdot 10^{-13}$ $5.359 \cdot 10^{-13}$	0	$1.293 \cdot 10^{-15}$ $1.293 \cdot 10^{-15}$	0
clq1	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
clq3	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
clu	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cqd1	$-1.963 \cdot 10^{-27} \qquad 0$	1	$1.734 \cdot 10^{-44}$ 0	1
cqd8	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1
cqe	$-3.681 \cdot 10^{-28}$ 0	1	$3.684 \cdot 10^{-44}$ 0	1
cqq1	$-1.963 \cdot 10^{-27}$ 0	1	$1.734 \cdot 10^{-44}$ 0	1

cqq11	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cqq3	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cqq31	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cqu1	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cqu8	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cquqd11Re	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cquqd1Re	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cquqd81Re	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cquqd8Re	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cuBRe	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cuGRe	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cuHRe	$-4.116 \cdot 10^{-19}$	$-4.116 \cdot 10^{-19}$	0	$1.896 \cdot 10^{-26}$	$1.896 \cdot 10^{-26}$	0
cuWRe	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cud1	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cud8	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
cuu	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
cuu1	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
sm	0	0	0	$2.254 \cdot 10^{-7}$	$2.254 \cdot 10^{-7}$	0

1.10 $HH \rightarrow zt\bar{t}$

	interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cG	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
cН	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
cHB	$-1.453 \cdot 10^{-14}$	$-1.453 \cdot 10^{-14}$	0	$3.786 \cdot 10^{-21}$	$3.786 \cdot 10^{-21}$	0	
cHDD	$-5.457 \cdot 10^{-11}$	$-5.457 \cdot 10^{-11}$	0	$5.914 \cdot 10^{-14}$	$5.914 \cdot 10^{-14}$	0	
cHG	$-1.14 \cdot 10^{-12}$	$-1.14 \cdot 10^{-12}$	0	$1.077 \cdot 10^{-18}$	$1.077 \cdot 10^{-18}$	0	
cHW	$2.825 \cdot 10^{-14}$	$2.825 \cdot 10^{-14}$	0	$6.611 \cdot 10^{-22}$	$6.611 \cdot 10^{-22}$	0	

cHWB	$3.503 \cdot 10^{-10}$ $3.503 \cdot 10^{-10}$	0	$2.437 \cdot 10^{-12} 2.437 \cdot 10^{-12}$	0
cHd	$-1.368 \cdot 10^{-10} -1.368 \cdot 10^{-10}$	0	$3.715 \cdot 10^{-13} 3.715 \cdot 10^{-13}$	0
сНе	$2.764 \cdot 10^{-10}$ $2.764 \cdot 10^{-10}$	0	$1.192 \cdot 10^{-13}$ $1.192 \cdot 10^{-13}$	0
cHl1	$-1.387 \cdot 10^{-10} -1.387 \cdot 10^{-10}$	0	$3.821 \cdot 10^{-13} 3.821 \cdot 10^{-13}$	0
cH13	$3.541 \cdot 10^{-9}$ $3.541 \cdot 10^{-9}$	0	$1.76 \cdot 10^{-11}$ $1.76 \cdot 10^{-11}$	0
cHq1	$3.555 \cdot 10^{-10}$ $3.555 \cdot 10^{-10}$	0	$2.51 \cdot 10^{-12}$ $2.51 \cdot 10^{-12}$	0
cHq3	$-3.915 \cdot 10^{-9}$ $-3.915 \cdot 10^{-9}$	0	$2.149 \cdot 10^{-11} 2.149 \cdot 10^{-11}$	0
сНu	$1.849 \cdot 10^{-10}$ $1.849 \cdot 10^{-10}$	0	$6.794 \cdot 10^{-13} 6.794 \cdot 10^{-13}$	0
cHudRe	$1.776 \cdot 10^{-13}$ $1.776 \cdot 10^{-13}$	0	$3.95 \cdot 10^{-19}$ $3.95 \cdot 10^{-19}$	0
сW	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
cdBRe	$9.568 \cdot 10^{-13}$ $9.568 \cdot 10^{-13}$	0	$1.429 \cdot 10^{-18} 1.429 \cdot 10^{-18}$	0
cdGRe	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
cdHRe	$-1.162 \cdot 10^{-14} -1.162 \cdot 10^{-14}$	0	$2.422 \cdot 10^{-21}$ $2.422 \cdot 10^{-21}$	0
cdWRe	$-3.2 \cdot 10^{-14}$ $-3.2 \cdot 10^{-14}$	0	$3.56 \cdot 10^{-18}$ $3.56 \cdot 10^{-18}$	0
cdd	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
cdd1	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
ceBRe	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
ceHRe	$-1.251 \cdot 10^{-15}$ $-1.251 \cdot 10^{-15}$	0	$2.809 \cdot 10^{-23}$ $2.809 \cdot 10^{-23}$	0
ceWRe	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
ced	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
cee	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
ceu	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
cld	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
cle	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
cledqRe	$5.571 \cdot 10^{-24}$ 0	1	$4.843 \cdot 10^{-41}$ 0	1
clequ1Re	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
clequ3Re	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
cll	$-2.796 \cdot 10^{-24}$ 0	1	$1.552 \cdot 10^{-40}$ 0	1
cll1	$-2.253 \cdot 10^{-9}$ $-2.253 \cdot 10^{-9}$	0	$7.132 \cdot 10^{-12} 7.132 \cdot 10^{-12}$	0

clq1	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
clq3	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
clu	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cqd1	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cqd8	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cqe	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cqq1	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cqq11	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cqq3	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cqq31	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cqu1	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cqu8	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cquqd11Re	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cquqd1Re	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cquqd81Re	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cquqd8Re	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cuBRe	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cuGRe	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cuHRe		$-5.769 \cdot 10^{-16}$	0	$5.969 \cdot 10^{-24}$	$5.969 \cdot 10^{-24}$	0
cuWRe		$-7.274 \cdot 10^{-10}$	0	$6.628 \cdot 10^{-12}$	$6.628 \cdot 10^{-12}$	0
cud1	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cud8	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
cuu	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
cuu1	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
sm	0	0	0	$2.787 \cdot 10^{-6}$	$2.787 \cdot 10^{-6}$	0

$\textbf{1.11} \quad HH \rightarrow zz$

interference square

	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
сG	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
сН	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
сНВ	$-2.851 \cdot 10^{-10}$	$-2.851 \cdot 10^{-10}$	0	$6.214 \cdot 10^{-16}$	$6.214 \cdot 10^{-16}$	0
cHDD	$-2.741 \cdot 10^{-7}$	$-2.741 \cdot 10^{-7}$	0	$6.23 \cdot 10^{-10}$	$6.23 \cdot 10^{-10}$	0
cHG	$1.258 \cdot 10^{-8}$	$1.258 \cdot 10^{-8}$	0	$7.587 \cdot 10^{-13}$	$7.587 \cdot 10^{-13}$	0
cHW	$-3.116 \cdot 10^{-10}$	$-3.116 \cdot 10^{-10}$	0	$4.656 \cdot 10^{-16}$	$4.656 \cdot 10^{-16}$	0
cHWB	$1.759 \cdot 10^{-6}$	$1.759 \cdot 10^{-6}$	0	$2.567 \cdot 10^{-8}$	$2.567 \cdot 10^{-8}$	0
cHd	$-6.867 \cdot 10^{-7}$	$-6.867 \cdot 10^{-7}$	0	$3.912 \cdot 10^{-9}$	$3.912 \cdot 10^{-9}$	0
сНе	$-8.555 \cdot 10^{-7}$	$-8.555 \cdot 10^{-7}$	0	$6.546 \cdot 10^{-9}$	$6.546 \cdot 10^{-9}$	0
cHl1	$-6.965 \cdot 10^{-7}$	$-6.965 \cdot 10^{-7}$	0	$4.024 \cdot 10^{-9}$	$4.024 \cdot 10^{-9}$	0
cH13	$-6.432 \cdot 10^{-6}$	$-6.432 \cdot 10^{-6}$	0	$3.701 \cdot 10^{-7}$	$3.701 \cdot 10^{-7}$	0
cHq1	$1.785 \cdot 10^{-6}$	$1.785 \cdot 10^{-6}$	0	$2.643 \cdot 10^{-8}$	$2.643 \cdot 10^{-8}$	0
cHq3	$7.589 \cdot 10^{-6}$	$7.589 \cdot 10^{-6}$	0	$5.151 \cdot 10^{-7}$	$5.151 \cdot 10^{-7}$	0
cHu	$9.286 \cdot 10^{-7}$	$9.286 \cdot 10^{-7}$	0	$7.154 \cdot 10^{-9}$	$7.154 \cdot 10^{-9}$	0
cHudRe	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cW	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cdBRe	$-2.961 \cdot 10^{-9}$	$-2.961 \cdot 10^{-9}$	0	$7.843 \cdot 10^{-14}$	$7.843 \cdot 10^{-14}$	0
cdGRe	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cdHRe	$-2.28 \cdot 10^{-10}$	$-2.28 \cdot 10^{-10}$	0	$3.975 \cdot 10^{-1}$	$3.975 \cdot 10^{-16}$	0
cdWRe	$-5.53 \cdot 10^{-9}$	$-5.53 \cdot 10^{-9}$	0	$2.735 \cdot 10^{-1}$	$2.735 \cdot 10^{-13}$	0
cdd	$-1.404 \cdot 10^{-2}$	0	1	$1.635 \cdot 10^{-3}$	0 - 0	1
cdd1	$-1.404 \cdot 10^{-2}$	0	1	$1.635 \cdot 10^{-3}$	0 - 0	1
ceBRe	$-1.404 \cdot 10^{-2}$	0	1	$1.635 \cdot 10^{-3}$	0	1
ceHRe	$-2.455 \cdot 10^{-1}$		1 0	$4.61 \cdot 10^{-18}$	$4.61 \cdot 10^{-18}$	0
ceWRe	$-1.724 \cdot 10^{-2}$	0	1	$2.659 \cdot 10^{-3}$	0	1
ced	$-1.724 \cdot 10^{-2}$	0	1	$2.659 \cdot 10^{-3}$	0 - 0	1
cee	$-1.724 \cdot 10^{-2}$		1	$2.659 \cdot 10^{-3}$	0 - 0	1
ceu	$-1.404 \cdot 10^{-2}$	0	1	$1.635 \cdot 10^{-3}$	0	1

cld	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cle	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cledqRe	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
clequ1Re	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
clequ3Re	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cll	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cll1	$4.708 \cdot 10^{-6}$	$4.708 \cdot 10^{-6}$	0	$1.982 \cdot 10^{-7}$	$1.982 \cdot 10^{-7}$	0
clq1	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
clq3	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
clu	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cqd1	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cqd8	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cqe	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cqq1	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cqq11	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cqq3	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cqq31	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cqu1	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cqu8	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cquqd11Re	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cquqd1Re	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cquqd81Re	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cquqd8Re	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cuBRe	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cuGRe	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cuHRe	$-1.132 \cdot 10^{-11}$	$-1.132 \cdot 10^{-11}$	0	$9.797 \cdot 10^{-19}$	$9.797 \cdot 10^{-19}$	0
cuWRe	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cud1	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
cud8	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1

cuu	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
cuu1	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
sm	0	0	0	0.129	0.129	0

1.12 $HW^+ \rightarrow \gamma t \bar{b}$

	interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cH13	$-1.712 \cdot 10^{-9}$	$-1.712 \cdot 10^{-9}$	0	$2.245 \cdot 10^{-12}$	$2.245 \cdot 10^{-12}$	0	
cHq3	$1.712 \cdot 10^{-9}$	$1.712 \cdot 10^{-9}$	0	$2.245 \cdot 10^{-12}$	$2.245 \cdot 10^{-12}$	0	
cHudRe	$-1.225 \cdot 10^{-13}$	$-1.225 \cdot 10^{-13}$	0	$1.917 \cdot 10^{-19}$	$1.917 \cdot 10^{-19}$	0	
cdWRe	$2.244 \cdot 10^{-12}$	$2.244 \cdot 10^{-12}$	0	$3.125 \cdot 10^{-18}$	$3.125 \cdot 10^{-18}$	0	
cll1	$8.328 \cdot 10^{-10}$	$8.328 \cdot 10^{-10}$	0	$6.32 \cdot 10^{-13}$	$6.32 \cdot 10^{-13}$	0	
cuWRe	$5.018 \cdot 10^{-10}$	$5.018 \cdot 10^{-10}$	0	$3.217 \cdot 10^{-12}$	$3.217 \cdot 10^{-12}$	0	
\mathtt{sm}	0	0	0	$1.654 \cdot 10^{-6}$	$1.654 \cdot 10^{-6}$	0	

1.13 $HW^+ \rightarrow \gamma u \bar{d}$

	interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
cH13	$-2.274 \cdot 10^{-10}$	$-2.274 \cdot 10^{-10}$	0	$3.771 \cdot 10^{-13}$	$3.771 \cdot 10^{-13}$	0		
cHq3	$2.274 \cdot 10^{-10}$	$2.274 \cdot 10^{-10}$	0	$3.771 \cdot 10^{-13}$	$3.771 \cdot 10^{-13}$	0		
cll1	$1.705 \cdot 10^{-10}$	$1.705 \cdot 10^{-10}$	0	$2.121 \cdot 10^{-13}$	$2.121 \cdot 10^{-13}$	0		
sm	0	0	0	$4.37 \cdot 10^{-8}$	$4.37 \cdot 10^{-8}$	0		

$\textbf{1.14} \quad HW^+ \rightarrow u\bar{d}$

interference square

	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
cHl3	$2.419 \cdot 10^{-11}$	$2.419 \cdot 10^{-11}$	0	$9.778 \cdot 10^{-13}$	$9.778 \cdot 10^{-13}$	0
сНq3	$-2.419 \cdot 10^{-11}$	$-2.419 \cdot 10^{-11}$	0	$9.778 \cdot 10^{-13}$	$9.778 \cdot 10^{-13}$	0
cll1	$-1.815 \cdot 10^{-11}$	$-1.815 \cdot 10^{-11}$	0	$5.5 \cdot 10^{-13}$	$5.5\cdot10^{-13}$	0
sm	0	0	0	0.003011	0.003011	0

1.15 $HW^- \rightarrow \gamma e^- \bar{\nu}_e$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	$\verb mod1 \qquad \verb mod2 \qquad 1-\verb mod2 \\$	nod1		
cHl3	$1.477 \cdot 10^{-12}$	$1.477 \cdot 10^{-12}$	0	$1.346 \cdot 10^{-14} 1.346 \cdot 10^{-14} \qquad 0$			
сНq3	$-1.477 \cdot 10^{-12}$	$-1.477 \cdot 10^{-12}$	0	$1.346 \cdot 10^{-14} 1.346 \cdot 10^{-14} \qquad 0$			
cll1	$-1.108 \cdot 10^{-12}$	$-1.108 \cdot 10^{-12}$	0	$7.573 \cdot 10^{-15} 7.573 \cdot 10^{-15} \qquad 0$			
sm	0	0	0	$0.0006105 \qquad 0.0006105 \qquad 0$			

1.16 $HW^- \rightarrow \mu^- \bar{\nu}_{\mu}$

		interfere	ence		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
cHl3	$7.378 \cdot 10^{-12}$	$7.378 \cdot 10^{-12}$	0	$2.989 \cdot 10^{-13}$	$2.989 \cdot 10^{-13}$	0		
сНqЗ	$-7.378 \cdot 10^{-12}$	$-7.378 \cdot 10^{-12}$	0	$2.989 \cdot 10^{-13}$	$2.989 \cdot 10^{-13}$	0		
cll1	$-5.534 \cdot 10^{-12}$	$-5.534 \cdot 10^{-12}$	0	$1.682 \cdot 10^{-13}$	$1.682 \cdot 10^{-13}$	0		
sm	0	0	0	0.005535	0.005535	0		

1.17 $Hz \to \mu^+ \mu^-$

cG	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
сН	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
сНВ	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cHDD	$1.52 \cdot 10^{-12}$	$1.52 \cdot 10^{-12}$	0	$3.297 \cdot 10^{-15}$ 3.2	$297 \cdot 10^{-15}$	0
cHG	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cHW	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cHWB	$-9.757 \cdot 10^{-12}$	$-9.757 \cdot 10^{-12}$	0	$1.359 \cdot 10^{-13}$ 1.3	$359 \cdot 10^{-13}$	0
cHd	$3.809 \cdot 10^{-12}$	$3.809 \cdot 10^{-12}$	0	$2.071 \cdot 10^{-14}$ 2.0	$071 \cdot 10^{-14}$	0
сНе	$3.779 \cdot 10^{-12}$	$3.779 \cdot 10^{-12}$	0	$2.084 \cdot 10^{-14}$ 2.0	$084 \cdot 10^{-14}$	0
cHl1	$3.864 \cdot 10^{-12}$	$3.864 \cdot 10^{-12}$	0	$2.131 \cdot 10^{-14}$ 2.1	$131 \cdot 10^{-14}$	0
cH13	$2.841 \cdot 10^{-11}$	$2.841 \cdot 10^{-11}$	0	$1.178 \cdot 10^{-12}$ 1.1	$178 \cdot 10^{-12}$	0
cHq1	$-9.902 \cdot 10^{-12}$	$-9.902 \cdot 10^{-12}$	0	$1.4 \cdot 10^{-13}$ 1	$.4 \cdot 10^{-13}$	0
сНqЗ	$-3.352 \cdot 10^{-11}$	$-3.352 \cdot 10^{-11}$	0	$1.64 \cdot 10^{-12}$ 1.	$64 \cdot 10^{-12}$	0
сНи	$-5.152 \cdot 10^{-12}$	$-5.152 \cdot 10^{-12}$	0	$3.788 \cdot 10^{-14}$ 3.7	$788 \cdot 10^{-14}$	0
cHudRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cW	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cdBRe	$1.308 \cdot 10^{-14}$	$1.308 \cdot 10^{-14}$	0	$2.497 \cdot 10^{-19}$ 2.4	$497 \cdot 10^{-19}$	0
cdGRe	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cdHRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cdWRe	$2.443 \cdot 10^{-14}$	$2.443 \cdot 10^{-14}$	0	$8.708 \cdot 10^{-19}$	$8.708 \cdot 10^{-19}$	0
cdd	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cdd1	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
ceBRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
ceHRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
ceWRe	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
ced	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cee	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
ceu	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cld	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1

cle	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cledqRe	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
clequ1Re	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
clequ3Re	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cll	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cll1	$-2.079 \cdot 10^{-11}$	$-2.079 \cdot 10^{-11}$	0	$6.311 \cdot 10^{-13}$ 6.31	$11 \cdot 10^{-13}$	0
clq1	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
clq3	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
clu	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cqd1	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cqd8	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cqe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cqq1	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cqq11	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cqq3	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cqq31	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cqu1	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cqu8	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cquqd11Re	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cquqd1Re	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cquqd81Re	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cquqd8Re	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cuBRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cuGRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cuHRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cuWRe	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
cud1	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cud8	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
cuu	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1

1.18 $Hz \rightarrow \nu_{\tau}\bar{\nu}_{\tau}$

			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
cG	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
сН	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
сНВ	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cHDD	$2.693 \cdot 10^{-12}$	$2.693 \cdot 10^{-12}$	0	$5.836 \cdot 10^{-15}$	$5.836 \cdot 10^{-15}$	0
cHG	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cHW	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cHWB	$-1.729 \cdot 10^{-11}$	$-1.729 \cdot 10^{-11}$	0	$2.405 \cdot 10^{-13}$	$2.405 \cdot 10^{-13}$	0
cHd	$6.75 \cdot 10^{-12}$	$6.75 \cdot 10^{-12}$	0	$3.666 \cdot 10^{-14}$	$3.666 \cdot 10^{-14}$	0
сНе	$4.372 \cdot 10^{-12}$	$4.372 \cdot 10^{-12}$	0	$2.408 \cdot 10^{-14}$	$2.408 \cdot 10^{-14}$	0
cHl1	$6.847 \cdot 10^{-12}$	$6.847 \cdot 10^{-12}$	0	$3.772 \cdot 10^{-14}$	$3.772 \cdot 10^{-14}$	0
cH13	$3.287 \cdot 10^{-11}$	$3.287 \cdot 10^{-11}$	0	$1.361 \cdot 10^{-12}$	$1.361 \cdot 10^{-12}$	0
cHq1	$-1.755 \cdot 10^{-11}$	$-1.755 \cdot 10^{-11}$	0	$2.477 \cdot 10^{-13}$	$2.477 \cdot 10^{-13}$	0
cHq3	$-3.878 \cdot 10^{-11}$	$-3.878 \cdot 10^{-11}$	0	$1.895 \cdot 10^{-12}$	$1.895 \cdot 10^{-12}$	0
cHu	$-9.129 \cdot 10^{-12}$	$-9.129 \cdot 10^{-12}$	0	$6.705 \cdot 10^{-14}$	$6.705 \cdot 10^{-14}$	0
cHudRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cW	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cdBRe	$1.513 \cdot 10^{-14}$	$1.513 \cdot 10^{-14}$	0	$2.885 \cdot 10^{-19}$	$2.885 \cdot 10^{-19}$	0
cdGRe	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cdHRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-6}$	0 0	1
cdWRe	$2.826 \cdot 10^{-14}$	$2.826 \cdot 10^{-14}$	0	$1.006 \cdot 10^{-}$	$1.006 \cdot 10^{-18}$	0
cdd	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-6}$	0 0	1
cdd1	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-6}$	0	1

ceBRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
ceHRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
ceWRe	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
ced	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cee	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
ceu	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cld	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cle	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cledqRe	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
clequ1Re	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
clequ3Re	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cll	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cll1	$-2.405 \cdot 10^{-11}$	$-2.405 \cdot 10^{-11}$	0	$7.291 \cdot 10^{-13}$	$7.291 \cdot 10^{-13}$	0
clq1	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
clq3	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
clu	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cqd1	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cqd8	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cqe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cqq1	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cqq11	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cqq3	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cqq31	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cqu1	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cqu8	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cquqd11Re	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cquqd1Re	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cquqd81Re	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cquqd8Re	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1

cuBRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cuGRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cuHRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cuWRe	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cud1	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cud8	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
cuu	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
cuu1	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
sm	0	0	0	0.005903	0.005903	0

1.19 $Hz \rightarrow s\bar{s}$

		interfere	ence		square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$		
cG	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1		
сН	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1		
cHB	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
cHDD	$6.573 \cdot 10^{-12}$	$6.573 \cdot 10^{-12}$	0	$1.425 \cdot 10^{-14}$	$1.425 \cdot 10^{-14}$	0		
cHG	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1		
cHW	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1		
cHWB	$-4.22 \cdot 10^{-11}$	$-4.22 \cdot 10^{-11}$	0	$5.874 \cdot 10^{-13}$	$5.874 \cdot 10^{-13}$	0		
cHd	$1.647 \cdot 10^{-11}$	$1.647 \cdot 10^{-11}$	0	$8.953 \cdot 10^{-14}$	$8.953 \cdot 10^{-14}$	0		
сНе	$1.695 \cdot 10^{-11}$	$1.695 \cdot 10^{-11}$	0	$9.341 \cdot 10^{-14}$	$9.341 \cdot 10^{-14}$	0		
cHl1	$1.671 \cdot 10^{-11}$	$1.671 \cdot 10^{-11}$	0	$9.211 \cdot 10^{-14}$	$9.211 \cdot 10^{-14}$	0		
cH13	$1.274 \cdot 10^{-10}$	$1.274 \cdot 10^{-10}$	0	$5.28 \cdot 10^{-12}$	$5.28 \cdot 10^{-12}$	0		
cHq1	$-4.282 \cdot 10^{-11}$	$-4.282 \cdot 10^{-11}$	0	$6.049 \cdot 10^{-13}$	$6.049 \cdot 10^{-13}$	0		
cHq3	$-1.503 \cdot 10^{-10}$	$-1.503 \cdot 10^{-10}$	0	$7.35 \cdot 10^{-12}$	$7.35 \cdot 10^{-12}$	0		
cHu	$-2.228 \cdot 10^{-11}$	$-2.228 \cdot 10^{-11}$	0	$1.637 \cdot 10^{-13}$	$1.637 \cdot 10^{-13}$	0		
cHudRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		

cW	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
cdBRe	$5.866 \cdot 10^{-14}$	$5.866 \cdot 10^{-14}$	0	$1.119 \cdot 10^{-18} 1.119 \cdot 10^{-1}$	-18 0
cdGRe	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
cdHRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
cdWRe	$1.095 \cdot 10^{-13}$	$1.095 \cdot 10^{-13}$	0	$3.903 \cdot 10^{-18} 3.903 \cdot$	10^{-18} 0
cdd	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
cdd1	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
ceBRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
ceHRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
ceWRe	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	1
ced	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
cee	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
ceu	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
cld	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
cle	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
cledqRe	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
clequ1Re	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
clequ3Re	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
cll	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
cll1	$-9.325 \cdot 10^{-11}$	$-9.325 \cdot 10^{-11}$	0	$2.828 \cdot 10^{-12}$ $2.828 \cdot$	10^{-12} 0
clq1	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
clq3	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0	1
clu	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0	1
cqd1	$3.415 \cdot 10^{-25}$		1	01101 10) 1
cqd8	$3.415 \cdot 10^{-25}$		1	01101 10) 1
cqe	$3.368 \cdot 10^{-25}$		1	01111 10) 1
cqq1	$3.415 \cdot 10^{-25}$		1	01101 10) 1
cqq11	$3.415 \cdot 10^{-25}$		1	3.101 10) 1
cqq3	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$) 1

cqq31	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
cqu1	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cqu8	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cquqd11Re	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cquqd1Re	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cquqd81Re	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
cquqd8Re	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
cuBRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cuGRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cuHRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cuWRe	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cud1	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
cud8	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
cuu	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
cuu1	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
sm	0	0	0	0.01441	0.01441	0

1.20 $Hz \rightarrow t\bar{t}$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
сН	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
cHB	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
cHDD	$-1.71 \cdot 10^{-8}$	$-1.71 \cdot 10^{-8}$	0	$1.273 \cdot 10^{-11}$	$1.273 \cdot 10^{-11}$	0	
cHG	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
cHW	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
cHWB	$1.098 \cdot 10^{-7}$	$1.098 \cdot 10^{-7}$	0	$5.246 \cdot 10^{-10}$	$5.246 \cdot 10^{-10}$	0	
cHd	$-4.286 \cdot 10^{-8}$	$-4.286 \cdot 10^{-8}$	0	$7.995 \cdot 10^{-11}$	$7.995 \cdot 10^{-11}$	0	

сНе	$-4.064 \cdot 10^{-8}$ -	$4.064 \cdot 10^{-8}$	0	$8.225 \cdot 10^{-11}$	$8.225 \cdot 10^{-11}$	0
cHl1	$-4.347 \cdot 10^{-8}$ -	$4.347 \cdot 10^{-8}$	0	$8.225 \cdot 10^{-11}$	$8.225 \cdot 10^{-11}$	0
cH13	$-1.281 \cdot 10^{-6}$ -	$1.281 \cdot 10^{-6}$	0	$7.174 \cdot 10^{-8}$	$7.174 \cdot 10^{-8}$	0
cHq1	$1.114 \cdot 10^{-7}$ 1	$1.114 \cdot 10^{-7}$	0	$5.402 \cdot 10^{-10}$	$5.402 \cdot 10^{-10}$	0
cHq3	$1.336 \cdot 10^{-6}$ 1	$1.336 \cdot 10^{-6}$	0	$7.824 \cdot 10^{-8}$	$7.824 \cdot 10^{-8}$	0
сНu	$5.796 \cdot 10^{-8}$ 5	$6.796 \cdot 10^{-8}$	0	$1.462 \cdot 10^{-10}$	$1.462 \cdot 10^{-10}$	0
cHudRe	$3.921 \cdot 10^{-10}$ 3	$.921 \cdot 10^{-10}$	0	$6.209 \cdot 10^{-15}$	$6.209 \cdot 10^{-15}$	0
cW	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cdBRe	$-1.407 \cdot 10^{-10}$ -	$1.407 \cdot 10^{-10}$	0	$9.854 \cdot 10^{-16}$	$9.854 \cdot 10^{-16}$	0
cdGRe	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cdHRe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cdWRe	$9.502 \cdot 10^{-10}$	$9.502 \cdot 10^{-10}$	0	$3.912 \cdot 10^{-14}$	$3.912 \cdot 10^{-14}$	0
cdd	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cdd1	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
ceBRe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
ceHRe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
ceWRe	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
ced	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cee	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
ceu	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cld	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cle	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cledqRe	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
clequ1Re	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
clequ3Re	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cll	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cll1	$7.115 \cdot 10^{-7}$	$7.115 \cdot 10^{-7}$	0	$2.228 \cdot 10^{-8}$	$2.228 \cdot 10^{-8}$	0
clq1	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
clq3	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1

clu	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqd1	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqd8	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqq1	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqq11	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqq3	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqq31	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqu1	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cqu8	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cquqd11Re	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cquqd1Re	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cquqd81Re	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cquqd8Re	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cuBRe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cuGRe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cuHRe	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cuWRe	$-1.606 \cdot 10^{-6}$	$-1.606 \cdot 10^{-6}$	0	$1.042 \cdot 10^{-7}$	$1.042 \cdot 10^{-7}$	0
cud1	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cud8	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cuu	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
cuu1	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
sm	0	0	0	2.288	2.288	0

1.21 $W^+W^- \rightarrow Hb\bar{b}$

сН	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
сНВ	$4.336 \cdot 10^{-13}$ $4.336 \cdot 10^{-13}$	0	$4.176 \cdot 10^{-18} 4.176 \cdot 10^{-18}$	0
cHDD	$8.092 \cdot 10^{-9}$ $8.092 \cdot 10^{-9}$	0	$2.036 \cdot 10^{-12} 2.036 \cdot 10^{-12}$	0
cHG	$-8.146 \cdot 10^{-13} -8.146 \cdot 10^{-13}$	0	$1.471 \cdot 10^{-16} 1.471 \cdot 10^{-16}$	0
cHW	$2.018 \cdot 10^{-14}$ $2.018 \cdot 10^{-14}$	0	$9.025 \cdot 10^{-20} 9.025 \cdot 10^{-20}$	0
cHWB	$-5.195 \cdot 10^{-8}$ $-5.195 \cdot 10^{-8}$	0	$8.392 \cdot 10^{-11} 8.392 \cdot 10^{-11}$	0
cHd	$2.028 \cdot 10^{-8} \qquad 2.028 \cdot 10^{-8}$	0	$1.279 \cdot 10^{-11} 1.279 \cdot 10^{-11}$	0
сНе	$-5.031 \cdot 10^{-11} -5.031 \cdot 10^{-11}$	0	$2.491 \cdot 10^{-12} 2.491 \cdot 10^{-12}$	0
cHl1	$2.057 \cdot 10^{-8} \qquad 2.057 \cdot 10^{-8}$	0	$1.316 \cdot 10^{-11} 1.316 \cdot 10^{-11}$	0
cH13	$4.047 \cdot 10^{-9} \qquad 4.047 \cdot 10^{-9}$	0	$3.118 \cdot 10^{-10} 3.118 \cdot 10^{-10}$	0
cHq1	$-5.272 \cdot 10^{-8} -5.272 \cdot 10^{-8}$	0	$8.642 \cdot 10^{-11} 8.642 \cdot 10^{-11}$	0
сНqЗ	$-3.979 \cdot 10^{-9}$ $-3.979 \cdot 10^{-9}$	0	$3.912 \cdot 10^{-10} 3.912 \cdot 10^{-10}$	0
cHu	$-2.743 \cdot 10^{-8} -2.743 \cdot 10^{-8}$	0	$2.339 \cdot 10^{-11} 2.339 \cdot 10^{-11}$	0
cHudRe	$-1.085 \cdot 10^{-10} -1.085 \cdot 10^{-10}$	0	$1.37 \cdot 10^{-17}$ $1.37 \cdot 10^{-17}$	0
cW	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
cdBRe	$-1.741 \cdot 10^{-13} -1.741 \cdot 10^{-13}$	0	$2.984 \cdot 10^{-17} 2.984 \cdot 10^{-17}$	0
cdGRe	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
cdHRe	$3.468 \cdot 10^{-13}$ $3.468 \cdot 10^{-13}$	0	$2.671 \cdot 10^{-18} 2.671 \cdot 10^{-18}$	0
cdWRe	$-7.65 \cdot 10^{-12}$ $-7.65 \cdot 10^{-12}$	0	$9.371 \cdot 10^{-18} 9.371 \cdot 10^{-18}$	0
cdd	$4.146 \cdot 10^{-22}$ 0	1	$5.345 \cdot 10^{-39}$ 0	1
cdd1	$4.146 \cdot 10^{-22}$ 0	1	$5.345 \cdot 10^{-39}$ 0	1
ceBRe	$4.146 \cdot 10^{-22}$ 0	1	$5.345 \cdot 10^{-39}$ 0	1
ceHRe	$3.734 \cdot 10^{-14}$ $3.734 \cdot 10^{-14}$	0	$3.098 \cdot 10^{-20} 3.098 \cdot 10^{-20}$	0
ceWRe	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
ced	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
cee	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
ceu	$4.146 \cdot 10^{-22}$ 0	1	$5.345 \cdot 10^{-39}$ 0	1
cld	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1
cle	$-1.014 \cdot 10^{-24}$ 0	1	$1.012 \cdot 10^{-39}$ 0	1

cledqRe	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
clequ1Re	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
clequ3Re	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cll	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cll1	$-1.569 \cdot 10^{-9}$	$-1.569 \cdot 10^{-9}$	0	$1.283 \cdot 10^{-10}$	$1.283 \cdot 10^{-10}$	0
clq1	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
clq3	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
clu	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cqd1	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cqd8	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cqe	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cqq1	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cqq11	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cqq3	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cqq31	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cqu1	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cqu8	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cquqd11Re	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cquqd1Re	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cquqd81Re	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cquqd8Re	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cuBRe	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cuGRe	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cuHRe	$1.722 \cdot 10^{-14}$	$1.722 \cdot 10^{-14}$	$5.809 \cdot 10^{-8}$	$6.583 \cdot 10^{-21}$	$6.583 \cdot 10^{-21}$	0
cuWRe	$4.443 \cdot 10^{-7}$	$4.443 \cdot 10^{-7}$	0	$2.299 \cdot 10^{-10}$	$2.299 \cdot 10^{-10}$	0
cud1	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cud8	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
cuu	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
cuu1	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1

 ${\tt sm} \qquad \qquad 0 \qquad \qquad 0 \qquad \qquad 0.003626 \qquad 0.003626 \qquad \qquad 0$

1.22 $W^+W^- \to Hc\bar{c}$

	ir	terference	square	
	mod1 mod2	1 - mod2/mod1	mod1 mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
сG	$3.706 \cdot 10^{-26}$	1	$1.16 \cdot 10^{-41}$ 0	1
сН	$3.706 \cdot 10^{-26}$	1	$1.16 \cdot 10^{-41}$ 0	1
сНВ	$2.288 \cdot 10^{-17}$ $2.288 \cdot 1$	0^{-17} 0	$5.897 \cdot 10^{-23}$ $5.897 \cdot 10^{-23}$	0
cHDD	$-7.311 \cdot 10^{-12} -7.311 \cdot$	10^{-12} 0	$1.08 \cdot 10^{-14}$ $1.08 \cdot 10^{-14}$	0
cHG	$-3.376 \cdot 10^{-16} -3.376 \cdot$	10^{-16} 0	$3.247 \cdot 10^{-20} 3.247 \cdot 10^{-20}$	0
cHW	$8.364 \cdot 10^{-18}$ $8.364 \cdot 1$	0^{-18} 0	$1.993 \cdot 10^{-23} 1.993 \cdot 10^{-23}$	0
cHWB	$4.694 \cdot 10^{-11}$ $4.694 \cdot 1$	0^{-11} 0	$4.453 \cdot 10^{-13} 4.453 \cdot 10^{-13}$	0
cHd	$-1.833 \cdot 10^{-11} -1.833 \cdot$	10^{-11} 0	$6.786 \cdot 10^{-14} 6.786 \cdot 10^{-14}$	0
сНе	$1.839 \cdot 10^{-12}$ $1.839 \cdot 1$	0^{-12} 0	$2.856 \cdot 10^{-14} 2.856 \cdot 10^{-14}$	0
cHl1	$-1.859 \cdot 10^{-11} -1.859 \cdot$	10^{-11} 0	$6.982 \cdot 10^{-14} 6.982 \cdot 10^{-14}$	0
cH13	$1.222 \cdot 10^{-11}$ $1.222 \cdot 1$	0^{-11} 0	$1.363 \cdot 10^{-12} 1.363 \cdot 10^{-12}$	0
cHq1	$4.764 \cdot 10^{-11}$ $4.764 \cdot 1$	0^{-11} 0	$4.585 \cdot 10^{-13} 4.585 \cdot 10^{-13}$	0
cHq3	$-1.471 \cdot 10^{-11} -1.471 \cdot$	10^{-11} 0	$1.948 \cdot 10^{-12} 1.948 \cdot 10^{-12}$	0
cHu	$2.478 \cdot 10^{-11}$ $2.478 \cdot 1$	0^{-11} 0	$1.241 \cdot 10^{-13} 1.241 \cdot 10^{-13}$	0
cHudRe	$-3.746 \cdot 10^{-25} \qquad 0$	1	$2.836 \cdot 10^{-41}$ 0	1
cW	$3.706 \cdot 10^{-26}$	1	$1.16 \cdot 10^{-41}$ 0	1
cdBRe	$6.365 \cdot 10^{-15}$ $6.365 \cdot 1$	0^{-15} 0	$3.422 \cdot 10^{-19} 3.422 \cdot 10^{-19}$	0
cdGRe	$3.706 \cdot 10^{-26}$	1	$1.16 \cdot 10^{-41}$ 0	1
cdHRe	$1.83 \cdot 10^{-17}$ 1.83	$\cdot 10^{-17}$ 0	$3.772 \cdot 10^{-23} 3.772 \cdot 10^{-23}$	0
cdWRe	$1.189 \cdot 10^{-14}$ 1.189	$\cdot 10^{-14}$ 0	$1.193 \cdot 10^{-18} 1.193 \cdot 10^{-18}$	0
cdd	$-3.746 \cdot 10^{-25}$	0 1	$2.836 \cdot 10^{-41}$ 0	1
cdd1	$-3.746 \cdot 10^{-25}$	0 1	$2.836 \cdot 10^{-41}$ 0	1
ceBRe	$-3.746 \cdot 10^{-25}$	0 1	$2.836 \cdot 10^{-41}$ 0	1

ceHRe	$1.971 \cdot 10^{-18}$	$1.971 \cdot 10^{-18}$	$-2.03 \cdot 10^{-7}$	$4.375 \cdot 10^{-25}$	$4.375 \cdot 10^{-25}$	0
ceWRe	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
ced	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cee	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
ceu	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cld	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cle	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cledqRe	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
clequ1Re	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
clequ3Re	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cll	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cll1	$-8.918 \cdot 10^{-12}$	$-8.918 \cdot 10^{-12}$	0	$7.269 \cdot 10^{-13}$	$7.269 \cdot 10^{-13}$	0
clq1	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
clq3	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
clu	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cqd1	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cqd8	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cqe	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cqq1	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cqq11	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cqq3	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cqq31	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cqu1	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cqu8	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cquqd11Re	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cquqd1Re	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cquqd81Re	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cquqd8Re	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cuBRe	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1

cuGRe	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cuHRe	$9.084 \cdot 10^{-19}$	$9.084 \cdot 10^{-19}$	$-4.183 \cdot 10^{-7}$	$9.297 \cdot 10^{-26}$	$9.297 \cdot 10^{-26}$	0
cuWRe	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cud1	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cud8	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
cuu	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
cuu1	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
sm	0	0	0	$7.292 \cdot 10^{-7}$	$7.292 \cdot 10^{-7}$	0

1.23 $W^+W^- \rightarrow Hd\bar{d}$

		interfere	ence		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
сН	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
сНВ	$1.72 \cdot 10^{-22}$	$1.727 \cdot 10^{-22}$	-0.004096	$4.747 \cdot 10^{-27}$	$4.747 \cdot 10^{-27}$	0	
cHDD	$-1.375 \cdot 10^{-11}$	$-1.375 \cdot 10^{-11}$	0	$4.021 \cdot 10^{-14}$	$4.021 \cdot 10^{-14}$	0	
cHG	$3.83 \cdot 10^{-22}$	$3.832 \cdot 10^{-22}$	-0.0004141	$5.325 \cdot 10^{-25}$	$5.325 \cdot 10^{-25}$	0	
cHW	$-9.65 \cdot 10^{-24}$	$-9.491 \cdot 10^{-24}$	0.01643	$3.268 \cdot 10^{-28}$	$3.268 \cdot 10^{-28}$	0	
cHWB	$8.829 \cdot 10^{-11}$	$8.829 \cdot 10^{-11}$	0	$1.657 \cdot 10^{-12}$	$1.657 \cdot 10^{-12}$	0	
cHd	$-3.447 \cdot 10^{-11}$	$-3.447 \cdot 10^{-11}$	0	$2.526 \cdot 10^{-13}$	$2.526 \cdot 10^{-13}$	0	
сНе	$-7.869 \cdot 10^{-12}$	$-7.869 \cdot 10^{-12}$	0	$6.146 \cdot 10^{-14}$	$6.146 \cdot 10^{-14}$	0	
cHl1	$-3.496 \cdot 10^{-11}$	$-3.496 \cdot 10^{-11}$	0	$2.599 \cdot 10^{-13}$	$2.599 \cdot 10^{-13}$	0	
cH13	$-5.332 \cdot 10^{-11}$	$-5.332 \cdot 10^{-11}$	0	$3.091 \cdot 10^{-12}$	$3.091 \cdot 10^{-12}$	0	
cHq1	$8.96 \cdot 10^{-11}$	$8.96 \cdot 10^{-11}$	0	$1.707 \cdot 10^{-12}$	$1.707 \cdot 10^{-12}$	0	
cHq3	$6.397 \cdot 10^{-11}$	$6.397 \cdot 10^{-11}$	0	$4.382 \cdot 10^{-12}$	$4.382 \cdot 10^{-12}$	0	
cHu	$4.662 \cdot 10^{-11}$	$4.662 \cdot 10^{-11}$	0	$4.62 \cdot 10^{-13}$	$4.62 \cdot 10^{-13}$	0	
cHudRe	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
cW	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	

cdBRe	$-2.724 \cdot 10^{-14}$ -2	$2.724 \cdot 10^{-14}$	0	$7.363 \cdot 10^{-19} 7.363 \cdot 10^{-19}$	0
cdGRe	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cdHRe	$1.374 \cdot 10^{-22}$	$1.381 \cdot 10^{-22}$	-0.005127	$3.036 \cdot 10^{-27} 3.036 \cdot 10^{-27}$	0
cdWRe	$-5.086 \cdot 10^{-14}$	$-5.086 \cdot 10^{-14}$	0	$2.568 \cdot 10^{-18} 2.568 \cdot 10^{-18}$	0
cdd	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
cdd1	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
ceBRe	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
ceHRe	$1.417 \cdot 10^{-23}$	$1.488 \cdot 10^{-23}$	-0.04972	$3.521 \cdot 10^{-29} 3.521 \cdot 10^{-29}$	0
ceWRe	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
ced	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cee	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
ceu	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
cld	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cle	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cledqRe	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
clequ1Re	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
clequ3Re	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
cll	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
cll1	$3.892 \cdot 10^{-11}$	$3.892 \cdot 10^{-11}$	0	$1.651 \cdot 10^{-12} 1.651 \cdot 10^{-12}$	0
clq1	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
clq3	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
clu	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
cqd1	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cqd8	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cqe	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$ 0	1
cqq1	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cqq11	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cqq3	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1
cqq31	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$ 0	1

cqu1	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cqu8	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cquqd11Re	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cquqd1Re	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cquqd81Re	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
cquqd8Re	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
cuBRe	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cuGRe	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cuHRe	$6.154 \cdot 10^{-24}$	$6.859 \cdot 10^{-24}$	-0.1145	$7.484 \cdot 10^{-30}$	$7.484 \cdot 10^{-30}$	0
cuWRe	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cud1	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
cud8	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
cuu	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
cuu1	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
sm	0	0	0	$1.667 \cdot 10^{-6}$	$1.667 \cdot 10^{-6}$	0

1.24 $W^+W^- \to W^+W^-$

	interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	
сН	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	
сНВ	$-2.222 \cdot 10^{-7}$	$-2.222 \cdot 10^{-7}$	0	$2.382 \cdot 10^{-13}$	$2.382 \cdot 10^{-13}$	0	
cHDD	-0.0005741	-0.0005741	0	$1.225 \cdot 10^{-6}$	$1.225 \cdot 10^{-6}$	0	
cHG	$5.718 \cdot 10^{-6}$	$5.718 \cdot 10^{-6}$	0	$2.936 \cdot 10^{-10}$	$2.936 \cdot 10^{-10}$	0	
cHW	$-1.416 \cdot 10^{-7}$	$-1.416 \cdot 10^{-7}$	0	$1.801 \cdot 10^{-13}$	$1.801 \cdot 10^{-13}$	0	
cHWB	0.003685	0.003685	0	$5.047 \cdot 10^{-5}$	$5.047 \cdot 10^{-5}$	0	
cHd	-0.001439	-0.001439	0	$7.691 \cdot 10^{-6}$	$7.691 \cdot 10^{-6}$	0	
сНе	-0.0008255	-0.0008255	0	$4.495 \cdot 10^{-6}$	$4.495 \cdot 10^{-6}$	0	

cHl1	-0.001459	-0.001459	0	$7.913 \cdot 10^{-6}$ $7.913 \cdot 10^{-6}$	0
cH13	-0.006206	-0.006206	0	$0.0002541 \qquad 0.0002541$	0
cHq1	0.00374	0.00374	0	$5.197 \cdot 10^{-5}$ $5.197 \cdot 10^{-5}$	0
сНq3	0.007322	0.007322	0	$0.0003537 \qquad 0.0003537$	0
cHu	0.001946	0.001946	0	$1.407 \cdot 10^{-5}$ $1.407 \cdot 10^{-5}$	0
cHudRe	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
cW	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
cdBRe	$-2.857 \cdot 10^{-6}$ -	$-2.857 \cdot 10^{-6}$	0	$5.386 \cdot 10^{-11} 5.386 \cdot 10^{-11}$	0
cdGRe	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
cdHRe	$-1.777 \cdot 10^{-7}$		0	$1.524 \cdot 10^{-13}$ $1.524 \cdot 10^{-13}$	0
cdWRe	$-5.335 \cdot 10^{-6}$	$-5.335 \cdot 10^{-6}$	0	$1.878 \cdot 10^{-10}$ $1.878 \cdot 10^{-10}$	0
cdd	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
cdd1	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
ceBRe	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
ceHRe	$-1.914 \cdot 10^{-8}$	$-1.914 \cdot 10^{-8}$	0	$1.767 \cdot 10^{-15}$ $1.767 \cdot 10^{-15}$	0
ceWRe	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
ced	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
cee	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
ceu	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
cld	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
cle	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
cledqRe	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
clequ1Re	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
clequ3Re	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
cll	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
cll1	0.004542	0.004542	0	$0.0001361 \qquad 0.0001361$	0
clq1	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1
clq3	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$ 0	1
clu	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$ 0	1

cqd1	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cqd8	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cqe	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cqq1	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cqq11	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cqq3	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cqq31	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cqu1	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cqu8	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cquqd11Re	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cquqd1Re	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cquqd81Re	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cquqd8Re	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cuBRe	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cuGRe	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cuHRe	$-8.822 \cdot 10^{-9}$	$-8.822 \cdot 10^{-9}$	0	$3.756 \cdot 10^{-16}$	$3.756 \cdot 10^{-16}$	0
cuWRe	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cud1	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cud8	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
cuu	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
cuu1	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
sm	0	0	0	27.54	27.54	0

1.25 $W^+W^- \rightarrow \gamma\gamma$

	interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1 - \mathtt{mod}2/\mathtt{mod}1$	
cH13	$-2.662 \cdot 10^{-7}$	$-2.662 \cdot 10^{-7}$	0	$1.062 \cdot 10^{-8}$	$1.062 \cdot 10^{-8}$	0	
cHq3	$2.662 \cdot 10^{-7}$	$2.662 \cdot 10^{-7}$	0	$1.062 \cdot 10^{-8}$	$1.062 \cdot 10^{-8}$	0	

cll1	$1.997 \cdot 10^{-7}$	$1.997 \cdot 10^{-7}$	0	$5.972 \cdot 10^{-9}$ $5.972 \cdot 10^{-9}$	0
sm	0	0	0	0.1077 0.1077	0

1.26 $W^+W^- \rightarrow \gamma\gamma\gamma$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cHl3	$2.244 \cdot 10^{-13}$	$2.244 \cdot 10^{-13}$	0	$1.76 \cdot 10^{-13}$	$1.76 \cdot 10^{-13}$	0	
сНq3	$-2.244 \cdot 10^{-13}$	$-2.244 \cdot 10^{-13}$	0	$1.76 \cdot 10^{-13}$	$1.76 \cdot 10^{-13}$	0	
cll1	$-1.683 \cdot 10^{-13}$	$-1.683 \cdot 10^{-13}$	0	$9.899 \cdot 10^{-14}$	$9.899 \cdot 10^{-14}$	0	
sm	0	0	0	$3.045 \cdot 10^{-6}$	$3.045 \cdot 10^{-6}$	0	

1.27 $\bar{b}t \rightarrow \bar{d}u$

		interfere	ence		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
cHl3	$1.527 \cdot 10^{-12}$	$1.527 \cdot 10^{-12}$	0	$6.172 \cdot 10^{-14}$	$6.172 \cdot 10^{-14}$	0		
сНqЗ	$-1.527 \cdot 10^{-12}$	$-1.527 \cdot 10^{-12}$	0	$6.172 \cdot 10^{-14}$	$6.172 \cdot 10^{-14}$	0		
cll1	$-1.145 \cdot 10^{-12}$	$-1.145 \cdot 10^{-12}$	0	$3.472 \cdot 10^{-14}$	$3.472 \cdot 10^{-14}$	0		
sm	0	0	0	0.01514	0.01514	0		

1.28 $\nu_e \bar{\nu}_e ightarrow \nu_\mu \bar{\nu}_\mu$

	interference			square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1 - \mathtt{mod}2/\mathtt{mod}1$
сG	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
сН	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
сНВ	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1

cHDD	$8.216 \cdot 10^{-12}$	$8.216 \cdot 10^{-12}$	0	$1.78 \cdot 10^{-14}$ $1.78 \cdot 10^{-14}$	0
сHG	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cHW	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cHWB	$-5.275 \cdot 10^{-11}$	$-5.275 \cdot 10^{-11}$	0	$7.338 \cdot 10^{-13} 7.338 \cdot 10^{-13}$	0
cHd	$2.059 \cdot 10^{-11}$	$2.059 \cdot 10^{-11}$	0	$1.118 \cdot 10^{-13} 1.118 \cdot 10^{-13}$	0
сНе	$1.123 \cdot 10^{-12}$	$1.123 \cdot 10^{-12}$	0	$6.186 \cdot 10^{-15}$ $6.186 \cdot 10^{-15}$	0
cHl1	$2.089 \cdot 10^{-11}$	$2.089 \cdot 10^{-11}$	0	$1.151 \cdot 10^{-13} 1.151 \cdot 10^{-13}$	0
cH13	$8.442 \cdot 10^{-12}$	$8.442 \cdot 10^{-12}$	0	$3.496 \cdot 10^{-13} 3.496 \cdot 10^{-13}$	0
cHq1	$-5.353 \cdot 10^{-11}$	$-5.353 \cdot 10^{-11}$	0	$7.557 \cdot 10^{-13} 7.557 \cdot 10^{-13}$	0
сНq3	$-9.961 \cdot 10^{-12}$	$-9.961 \cdot 10^{-12}$	0	$4.867 \cdot 10^{-13} 4.867 \cdot 10^{-13}$	0
cHu	$-2.785 \cdot 10^{-11}$	$-2.785 \cdot 10^{-11}$	0	$2.046 \cdot 10^{-13} 2.046 \cdot 10^{-13}$	0
cHudRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
cW	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cdBRe	$3.887 \cdot 10^{-15}$	$3.887 \cdot 10^{-15}$	0	$7.411 \cdot 10^{-20} 7.411 \cdot 10^{-20}$	0
cdGRe	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cdHRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
cdWRe	$7.258 \cdot 10^{-15}$	$7.258 \cdot 10^{-15}$	0	$2.584 \cdot 10^{-19} 2.584 \cdot 10^{-19}$	0
cdd	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
cdd1	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
ceBRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
ceHRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
ceWRe	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
ced	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cee	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
ceu	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1
cld	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cle	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
cledqRe	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0	1
clequ1Re	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0	1

clequ3Re	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cll	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cll1	$-6.179 \cdot 10^{-12}$	$-6.179 \cdot 10^{-12}$	0	$1.873 \cdot 10^{-13}$	$1.873 \cdot 10^{-13}$	0
clq1	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
clq3	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
clu	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cqd1	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cqd8	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cqe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cqq1	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cqq11	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cqq3	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cqq31	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cqu1	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cqu8	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cquqd11Re	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cquqd1Re	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cquqd81Re	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cquqd8Re	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cuBRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cuGRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cuHRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cuWRe	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cud1	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cud8	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
cuu	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
cuu1	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
sm	0	0	0	0.01801	0.01801	0

$1.29 \quad b\bar{b} \rightarrow \mu^+ \mu^-$

		interfere	nce	square
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	$\verb mod1 & \verb mod2 & 1-\verb mod2/mod1 $
сG	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$ 0 1
сН	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$ 0 1
сНВ	$9.521 \cdot 10^{-25}$	$9.501 \cdot 10^{-25}$	0.002123	$3.789 \cdot 10^{-26} 3.789 \cdot 10^{-26} \qquad 0$
cHDD	$3.946 \cdot 10^{-14}$	$3.946 \cdot 10^{-14}$	0	$5.938 \cdot 10^{-16} 5.938 \cdot 10^{-16} \qquad 0$
cHG	$-2.725 \cdot 10^{-23}$	$-2.728 \cdot 10^{-23}$	-0.001148	$4.626 \cdot 10^{-23} 4.626 \cdot 10^{-23} \qquad 0$
cHW	$7.072 \cdot 10^{-25}$	$6.759 \cdot 10^{-25}$	0.04425	$2.838 \cdot 10^{-26} 2.838 \cdot 10^{-26} 0$
cHWB	$-2.533 \cdot 10^{-13}$	$-2.533 \cdot 10^{-13}$	0	$2.448 \cdot 10^{-14} 2.448 \cdot 10^{-14} 0$
cHd	$9.89 \cdot 10^{-14}$	$9.89 \cdot 10^{-14}$	0	$3.73 \cdot 10^{-15}$ $3.73 \cdot 10^{-15}$ 0
сНе	$1.553 \cdot 10^{-12}$	$1.553 \cdot 10^{-12}$	0	$4.872 \cdot 10^{-15} 4.872 \cdot 10^{-15}$
cHl1	$1.003 \cdot 10^{-13}$	$1.003 \cdot 10^{-13}$	0	$3.838 \cdot 10^{-15} 3.838 \cdot 10^{-15} \qquad 0$
cH13	$1.167 \cdot 10^{-11}$	$1.167 \cdot 10^{-11}$	0	$2.754 \cdot 10^{-13}$ $2.754 \cdot 10^{-13}$ 0
cHq1	$-2.571 \cdot 10^{-13}$	$-2.571 \cdot 10^{-13}$	0	$2.521 \cdot 10^{-14} 2.521 \cdot 10^{-14} \qquad \qquad 0$
cHq3	$-1.377 \cdot 10^{-11}$	$-1.377 \cdot 10^{-11}$	0	$3.833 \cdot 10^{-13} 3.833 \cdot 10^{-13} \qquad 0$
cHu	$-1.337 \cdot 10^{-13}$	$-1.337 \cdot 10^{-13}$	0	$6.823 \cdot 10^{-15} 6.823 \cdot 10^{-15} \qquad 0$
cHudRe	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$ 0 1
cW	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$ 0 1
cdBRe	$5.374 \cdot 10^{-15}$	$5.374 \cdot 10^{-15}$	0	$5.837 \cdot 10^{-20}$ $5.837 \cdot 10^{-20}$ 0
cdGRe	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$ 0 1
cdHRe	$7.618 \cdot 10^{-25}$	$7.598 \cdot 10^{-25}$	0.002654	$2.423 \cdot 10^{-26} 2.423 \cdot 10^{-26} 0$
cdWRe	$1.004 \cdot 10^{-14}$	$1.004 \cdot 10^{-14}$	0	$2.035 \cdot 10^{-19} 2.035 \cdot 10^{-19} 0$
cdd	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$ 0 1
cdd1	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$ 0 1
ceBRe	$2.022 \cdot 10^{-27}$		1	$1.559 \cdot 10^{-42}$ 0 1
ceHRe	$8.385 \cdot 10^{-26}$	$8.183 \cdot 10^{-26}$	0.02411	$2.811 \cdot 10^{-28} 2.811 \cdot 10^{-28} 0$
ceWRe	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$ 0 1

ced	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cee	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
ceu	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cld	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cle	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cledqRe	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
clequ1Re	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
clequ3Re	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cll	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cll1	$-8.543 \cdot 10^{-12}$	$-8.543 \cdot 10^{-12}$	0	$1.475 \cdot 10^{-13}$	$1.475 \cdot 10^{-13}$	0
clq1	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
clq3	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
clu	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cqd1	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cqd8	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cqe	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cqq1	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cqq11	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cqq3	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cqq31	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cqu1	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cqu8	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cquqd11Re	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cquqd1Re	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cquqd81Re	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cquqd8Re	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cuBRe	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cuGRe	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cuHRe	$3.974 \cdot 10^{-26}$	$3.772 \cdot 10^{-26}$	0.05087	$5.973 \cdot 10^{-29}$	$5.973 \cdot 10^{-29}$	0

cuWRe	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cud1	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cud8	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
cuu	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
cuu1	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
sm	0	0	0	0.0004734	0.0004734	0

1.30 $b\bar{b} \rightarrow \nu_e \bar{\nu}_e$

		interfere	ence		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
сН	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
сНВ	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
cHDD	$1.533 \cdot 10^{-12}$	$1.533 \cdot 10^{-12}$	0	$3.321 \cdot 10^{-15}$	$3.321 \cdot 10^{-15}$	0	
cHG	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
cHW	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
cHWB	$-9.841 \cdot 10^{-12}$	$-9.841 \cdot 10^{-12}$	0	$1.369 \cdot 10^{-13}$	$1.369 \cdot 10^{-13}$	0	
cHd	$3.842 \cdot 10^{-12}$	$3.842 \cdot 10^{-12}$	0	$2.086 \cdot 10^{-14}$	$2.086 \cdot 10^{-14}$	0	
сНе	$4.2 \cdot 10^{-12}$	$4.2 \cdot 10^{-12}$	0	$2.314 \cdot 10^{-14}$	$2.314 \cdot 10^{-14}$	0	
cHl1	$3.897 \cdot 10^{-12}$	$3.897 \cdot 10^{-12}$	0	$2.147 \cdot 10^{-14}$	$2.147 \cdot 10^{-14}$	0	
cH13	$3.158 \cdot 10^{-11}$	$3.158 \cdot 10^{-11}$	0	$1.308 \cdot 10^{-12}$	$1.308 \cdot 10^{-12}$	0	
cHq1	$-9.986 \cdot 10^{-12}$	$-9.986 \cdot 10^{-12}$	0	$1.41 \cdot 10^{-13}$	$1.41 \cdot 10^{-13}$	0	
сНq3	$-3.726 \cdot 10^{-11}$	$-3.726 \cdot 10^{-11}$	0	$1.821 \cdot 10^{-12}$	$1.821 \cdot 10^{-12}$	0	
cHu	$-5.196 \cdot 10^{-12}$	$-5.196 \cdot 10^{-12}$	0	$3.816 \cdot 10^{-14}$	$3.816 \cdot 10^{-14}$	0	
cHudRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
cM	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
cdBRe	$1.454 \cdot 10^{-14}$	$1.454 \cdot 10^{-14}$	0	$2.772 \cdot 10^{-19}$	$2.772 \cdot 10^{-19}$	0	
cdGRe	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	

adiiDa	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cdHRe cdWRe	$2.715 \cdot 10^{-14}$	$2.715 \cdot 10^{-14}$	1	$9.667 \cdot 10^{-19}$	$9.667 \cdot 10^{-19}$	1
			0			1
cdd	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cdd1	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
ceBRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
ceHRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
ceWRe	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
ced	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cee	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
ceu	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cld	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cle	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cledqRe	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
clequ1Re	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
clequ3Re	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cll	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cll1	$-2.311 \cdot 10^{-11}$	$-2.311 \cdot 10^{-11}$	0	$7.006 \cdot 10^{-13}$	$7.006 \cdot 10^{-13}$	0
clq1	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
clq3	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
clu	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cqd1	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cqd8	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cqe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$		1
cqq1	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cqq11	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cqq3	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cqq31	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$		1
cqu1	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$		1
cqu8	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$		1
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cquqd11Re	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cquqd1Re	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cquqd81Re	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cquqd8Re	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cuBRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cuGRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cuHRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cuWRe	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cud1	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cud8	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
cuu	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
cuu1	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
sm	0	0	0	0.003359	0.003359	0

$1.31 \quad b\bar{b} \to b\bar{b}$

		interfere	ence		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
cG	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1		
сН	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1		
сНВ	$2.117 \cdot 10^{-16}$	$2.117 \cdot 10^{-16}$	$-1.417 \cdot 10^{-7}$	$1.19 \cdot 10^{-21}$	$1.19 \cdot 10^{-21}$	0		
cHDD	$-5.551 \cdot 10^{-10}$	$-5.551 \cdot 10^{-10}$	0	$3.207 \cdot 10^{-13}$	$3.207 \cdot 10^{-13}$	0		
cHG	$-5.028 \cdot 10^{-15}$	$-5.028 \cdot 10^{-15}$	$1.989 \cdot 10^{-8}$	$1.073 \cdot 10^{-18}$	$1.073 \cdot 10^{-18}$	0		
cHW	$1.246 \cdot 10^{-16}$	$1.246 \cdot 10^{-16}$	$-8.028 \cdot 10^{-8}$	$6.582 \cdot 10^{-22}$	$6.582 \cdot 10^{-22}$	0		
cHWB	$3.564 \cdot 10^{-9}$	$3.564 \cdot 10^{-9}$	0	$1.322 \cdot 10^{-11}$	$1.322 \cdot 10^{-11}$	0		
cHd	$-1.391 \cdot 10^{-9}$	$-1.391 \cdot 10^{-9}$	0	$2.015 \cdot 10^{-12}$	$2.015 \cdot 10^{-12}$	0		
сНе	$-7.25 \cdot 10^{-10}$	$-7.25 \cdot 10^{-10}$	0	$8.619 \cdot 10^{-13}$	$8.619 \cdot 10^{-13}$	0		
cHl1	$-1.411 \cdot 10^{-9}$	$-1.411 \cdot 10^{-9}$	0	$2.073 \cdot 10^{-12}$	$2.073 \cdot 10^{-12}$	0		
cH13	$-5.451 \cdot 10^{-9}$	$-5.451 \cdot 10^{-9}$	0	$4.871 \cdot 10^{-11}$	$4.871 \cdot 10^{-11}$	0		

cHq1	$3.617 \cdot 10^{-9}$	$3.617 \cdot 10^{-9}$	0	$1.361 \cdot 10^{-11}$ $1.361 \cdot 10^{-11}$	0
cHq3	$6.431 \cdot 10^{-9}$	$6.431 \cdot 10^{-9}$	0	$6.782 \cdot 10^{-11}$ $6.782 \cdot 10^{-11}$	0
сHu	$1.882 \cdot 10^{-9}$	$1.882 \cdot 10^{-9}$	0	$3.685 \cdot 10^{-12} 3.685 \cdot 10^{-12}$	0
cHudRe	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
сW	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
cdBRe		$-2.509 \cdot 10^{-12}$	0	$1.033 \cdot 10^{-17} 1.033 \cdot 10^{-17}$	0
cdGRe	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
cdHRe	$1.693 \cdot 10^{-16}$	$1.693 \cdot 10^{-16}$	$-1.181 \cdot 10^{-7}$	$7.61 \cdot 10^{-22}$ $7.61 \cdot 10^{-22}$	0
cdWRe	$-4.686 \cdot 10^{-12}$	$-4.686 \cdot 10^{-12}$	0	$3.601 \cdot 10^{-17} 3.601 \cdot 10^{-17}$	0
cdd	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
cdd1	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
ceBRe	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
ceHRe	$1.823 \cdot 10^{-17}$	$1.823 \cdot 10^{-17}$	$-1.591 \cdot 10^{-6}$	$8.826 \cdot 10^{-24} 8.826 \cdot 10^{-24}$	0
ceWRe	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
ced	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
cee	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
ceu	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
cld	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
cle	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
cledqRe	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
clequ1Re	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
clequ3Re	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
cll	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
cll1	$3.99 \cdot 10^{-9}$	$3.99 \cdot 10^{-9}$	0	$2.61 \cdot 10^{-11} \qquad 2.61 \cdot 10^{-11}$	0
clq1	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
clq3	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1
clu	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$ 0	1
cqd1	$-1.461 \cdot 10^{-23}$		1	$3.501 \cdot 10^{-40}$ 0	1
cqd8	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$ 0	1

cqe	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cqq1	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cqq11	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cqq3	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cqq31	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cqu1	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cqu8	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cquqd11Re	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cquqd1Re	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cquqd81Re	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cquqd8Re	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cuBRe	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cuGRe	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cuHRe	$8.404 \cdot 10^{-18}$	$8.404 \cdot 10^{-18}$	$-3.379 \cdot 10^{-6}$	$1.876 \cdot 10^{-24}$	$1.876 \cdot 10^{-24}$	0
cuWRe	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cud1	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cud8	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
cuu	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
cuu1	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
sm	0	0	0	12.53	12.53	0

1.32 $b\bar{b} \rightarrow t\bar{t}$

		interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1 - \mathtt{mod}2/\mathtt{mod}1$		
cG	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1		
сН	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1		
сНВ	$-8.499 \cdot 10^{-16}$	$-8.499 \cdot 10^{-16}$	0	$2.676 \cdot 10^{-19}$	$2.676 \cdot 10^{-19}$	0		
cHDD	$-5.683 \cdot 10^{-12}$	$-5.683 \cdot 10^{-12}$	0	$1.137 \cdot 10^{-15}$	$1.137 \cdot 10^{-15}$	0		

cHG	$5.538 \cdot 10^{-14}$ $5.538 \cdot 10^{-14}$	0	$3.267 \cdot 10^{-16} 3.267 \cdot 10^{-16}$	0
cHW	$-1.372 \cdot 10^{-15} -1.372 \cdot 10^{-15}$	0	$2.005 \cdot 10^{-19} 2.005 \cdot 10^{-19}$	0
cHWB	$3.649 \cdot 10^{-11}$ $3.649 \cdot 10^{-11}$	0	$4.688 \cdot 10^{-14} 4.688 \cdot 10^{-14}$	0
cHd	$-1.424 \cdot 10^{-11} -1.424 \cdot 10^{-11}$	0	$7.146 \cdot 10^{-15} 7.146 \cdot 10^{-15}$	0
сНе	$1.281 \cdot 10^{-11}$ $1.281 \cdot 10^{-11}$	0	$1.49 \cdot 10^{-14}$ $1.49 \cdot 10^{-14}$	0
cHl1	$-1.445 \cdot 10^{-11} -1.445 \cdot 10^{-11}$	0	$7.351 \cdot 10^{-15}$ $7.351 \cdot 10^{-15}$	0
cH13	$-4.394 \cdot 10^{-9}$ $-4.394 \cdot 10^{-9}$	0	$3.792 \cdot 10^{-10} 3.792 \cdot 10^{-10}$	0
cHq1	$3.703 \cdot 10^{-11}$ $3.703 \cdot 10^{-11}$	0	$4.828 \cdot 10^{-14} 4.828 \cdot 10^{-14}$	0
cHq3	$4.376 \cdot 10^{-9}$ $4.376 \cdot 10^{-9}$	0	$3.791 \cdot 10^{-10} 3.791 \cdot 10^{-10}$	0
сНu	$1.926 \cdot 10^{-11}$ $1.926 \cdot 10^{-11}$	0	$1.307 \cdot 10^{-14} 1.307 \cdot 10^{-14}$	0
cHudRe	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1
сW	$2.582 \cdot 10^{-25}$	1	$6.053 \cdot 10^{-42}$	1
cdBRe	$4.435 \cdot 10^{-14}$ $4.435 \cdot 10^{-14}$	0	$1.785 \cdot 10^{-19}$ $1.785 \cdot 10^{-19}$	0
cdGRe	$2.582 \cdot 10^{-25}$	1	$6.053 \cdot 10^{-42}$	1
cdHRe	$-6.797 \cdot 10^{-16} -6.797 \cdot 10^{-16}$	0	$1.712 \cdot 10^{-19}$ $1.712 \cdot 10^{-19}$	0
cdWRe	$8.282 \cdot 10^{-14}$ $8.282 \cdot 10^{-14}$	0	$6.226 \cdot 10^{-19}$ $6.226 \cdot 10^{-19}$	0
cdd	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1
cdd1	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1
ceBRe	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1
ceHRe	$-7.32 \cdot 10^{-17}$ $-7.32 \cdot 10^{-17}$	0	$1.985 \cdot 10^{-21}$ $1.985 \cdot 10^{-21}$	0
ceWRe	$2.582 \cdot 10^{-25}$ 0	1	$6.053 \cdot 10^{-42}$ 0	1
ced	$2.582 \cdot 10^{-25}$	1	$6.053 \cdot 10^{-42}$ 0	1
cee	$2.582 \cdot 10^{-25}$ 0	1	$6.053 \cdot 10^{-42}$ 0	1
ceu	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1
cld	$2.582 \cdot 10^{-25}$ 0	1	$6.053 \cdot 10^{-42}$ 0	1
cle	$2.582 \cdot 10^{-25} \qquad \qquad 0$	1	$6.053 \cdot 10^{-42}$ 0	1
cledqRe	$2.582 \cdot 10^{-25}$ 0	1	$6.053 \cdot 10^{-42}$ 0	1
clequ1Re	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1
clequ3Re	$-2.912 \cdot 10^{-25}$ 0	1	$2.986 \cdot 10^{-42}$ 0	1

cll	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cll1	$3.297 \cdot 10^{-9}$	$3.297 \cdot 10^{-9}$	0	$2.133 \cdot 10^{-10}$	$2.133 \cdot 10^{-10}$	0
clq1	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
clq3	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
clu	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cqd1	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cqd8	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cqe	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cqq1	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cqq11	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cqq3	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cqq31	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cqu1	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cqu8	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cquqd11Re	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cquqd1Re	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cquqd81Re	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cquqd8Re	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cuBRe	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cuGRe	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cuHRe		$-3.375 \cdot 10^{-17}$	0	$4.219 \cdot 10^{-22}$	$4.219 \cdot 10^{-22}$	0
cuWRe	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cud1	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cud8	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
cuu	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
cuu1	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
sm	0	0	0	0.42	0.42	0

1.33 $b\bar{t} \rightarrow e^-\bar{\nu}_e$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cH13	$6.615 \cdot 10^{-11}$	$6.615 \cdot 10^{-11}$	0	$2.674 \cdot 10^{-12}$	$2.674 \cdot 10^{-12}$	0	
сНq3	$-6.615 \cdot 10^{-11}$	$-6.615 \cdot 10^{-11}$	0	$2.674 \cdot 10^{-12}$	$2.674 \cdot 10^{-12}$	0	
cll1	$-4.962 \cdot 10^{-11}$	$-4.962 \cdot 10^{-11}$	0	$1.504 \cdot 10^{-12}$	$1.504 \cdot 10^{-12}$	0	
sm	0	0	0	0.001972	0.001972	0	

$1.34 \quad c\bar{c} \rightarrow \mu^+ \mu^-$

		interfere		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$
сG	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
сН	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
сНВ	$7.87 \cdot 10^{-26}$	$7.772 \cdot 10^{-26}$	0.01252	$3.498 \cdot 10^{-27}$	$3.498 \cdot 10^{-27}$	0
cHDD	$1.923 \cdot 10^{-14}$	$1.923 \cdot 10^{-14}$	0	$4.54 \cdot 10^{-16}$	$4.54 \cdot 10^{-16}$	0
cHG	$-2.898 \cdot 10^{-24}$	$-2.947 \cdot 10^{-24}$	-0.01703	$4.27 \cdot 10^{-24}$	$4.27 \cdot 10^{-24}$	0
cHW	$1.224 \cdot 10^{-25}$	$7.301 \cdot 10^{-26}$	0.4034	$2.62 \cdot 10^{-27}$	$2.62 \cdot 10^{-27}$	0
cHWB	$-1.235 \cdot 10^{-13}$	$-1.235 \cdot 10^{-13}$	0	$1.871 \cdot 10^{-14}$	$1.871 \cdot 10^{-14}$	0
cHd	$4.82 \cdot 10^{-14}$	$4.82 \cdot 10^{-14}$	0	$2.852 \cdot 10^{-15}$	$2.852 \cdot 10^{-15}$	0
сНе	$2.449 \cdot 10^{-12}$	$2.449 \cdot 10^{-12}$	0	$4.107 \cdot 10^{-15}$	$4.107 \cdot 10^{-15}$	0
cHl1	$4.888 \cdot 10^{-14}$	$4.888 \cdot 10^{-14}$	0	$2.934 \cdot 10^{-15}$	$2.934 \cdot 10^{-15}$	0
cH13	$1.842 \cdot 10^{-11}$	$1.842 \cdot 10^{-11}$	0	$2.322 \cdot 10^{-13}$	$2.322 \cdot 10^{-13}$	0
cHq1	$-1.253 \cdot 10^{-13}$	$-1.253 \cdot 10^{-13}$	0	$1.927 \cdot 10^{-14}$	$1.927 \cdot 10^{-14}$	0
сНqЗ	$-2.173 \cdot 10^{-11}$	$-2.173 \cdot 10^{-11}$	0	$3.232 \cdot 10^{-13}$	$3.232 \cdot 10^{-13}$	0
cHu	$-6.518 \cdot 10^{-14}$	$-6.518 \cdot 10^{-14}$	0	$5.217 \cdot 10^{-15}$	$5.217 \cdot 10^{-15}$	0
cHudRe	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cW	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cdBRe	$8.478 \cdot 10^{-15}$	$8.478 \cdot 10^{-15}$	0	$4.921 \cdot 10^{-20}$	$4.921 \cdot 10^{-20}$	0
cdGRe	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1

cdHRe	$6.314 \cdot 10^{-26}$	$6.215 \cdot 10^{-26}$	0.0156	$2.237 \cdot 10^{-27}$	$2.237 \cdot 10^{-27}$	0
cdWRe	$1.583 \cdot 10^{-14}$	$1.583 \cdot 10^{-14}$	0	$1.716 \cdot 10^{-19}$	$1.716 \cdot 10^{-19}$	0
cdd	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cdd1	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
ceBRe	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
ceHRe	$7.679 \cdot 10^{-27}$	$6.694 \cdot 10^{-27}$	0.1283	$2.595 \cdot 10^{-29}$	$2.595 \cdot 10^{-29}$	0
ceWRe	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
ced	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cee	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
ceu	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cld	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cle	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
${ t cledqRe}$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
clequ1Re	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
clequ3Re	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cll	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cll1	$-1.348 \cdot 10^{-11}$	$-1.348 \cdot 10^{-11}$	0	$1.244 \cdot 10^{-13}$	$1.244 \cdot 10^{-13}$	0
clq1	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
clq3	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
clu	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cqd1	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$		1
cqd8	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$		1
cqe	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$		1
cqq1	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$		1
cqq11	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$		1
cqq3	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$		1
cqq31	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$		1
cqu1	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$		1
cqu8	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1

cquqd11Re	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cquqd1Re	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cquqd81Re	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cquqd8Re	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cuBRe	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cuGRe	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cuHRe	$4.071 \cdot 10^{-27}$	$3.086 \cdot 10^{-27}$	0.242	$5.514 \cdot 10^{-30}$	$5.514 \cdot 10^{-30}$	0
cuWRe	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cud1	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cud8	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
cuu	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
cuu1	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
sm	0	0	0	0.001416	0.001416	0

1.35 $c\bar{s} \to \tau^+ \nu_{\tau}$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cH13	$4.769 \cdot 10^{-13}$	$4.769 \cdot 10^{-13}$	0	$1.928 \cdot 10^{-14}$	$1.928 \cdot 10^{-14}$	0	
сНq3	$-4.769 \cdot 10^{-13}$	$-4.769 \cdot 10^{-13}$	0	$1.928 \cdot 10^{-14}$	$1.928 \cdot 10^{-14}$	0	
cll1	$-3.577 \cdot 10^{-13}$	$-3.577 \cdot 10^{-13}$	0	$1.084 \cdot 10^{-14}$	$1.084 \cdot 10^{-14}$	0	
sm	0	0	0	0.006609	0.006609	0	

1.36 $d\bar{d} \rightarrow c\bar{c}$

		interf	erence	square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
сG	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
сН	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1

сНВ	$2.282 \cdot 10^{-25}$	$9.023 \cdot 10^{-28}$	0.996	$2.05 \cdot 10^{-29}$ $2.05 \cdot 10^{-29}$	0
cHDD	$4.436 \cdot 10^{-12}$	$4.436 \cdot 10^{-12}$	0	$6.225 \cdot 10^{-15} 6.225 \cdot 10^{-15}$	0
сНG	$6.217 \cdot 10^{-26}$	$-1.896 \cdot 10^{-26}$	1.305	$2.503 \cdot 10^{-26}$ $2.503 \cdot 10^{-26}$	0
cHW	$8.159 \cdot 10^{-26}$	$4.696 \cdot 10^{-28}$	0.9942	$1.536 \cdot 10^{-29}$ $1.536 \cdot 10^{-29}$	0
cHWB	$-2.848 \cdot 10^{-11}$	$-2.848 \cdot 10^{-11}$	0	$2.566 \cdot 10^{-13} 2.566 \cdot 10^{-13}$	0
cHd	$1.112 \cdot 10^{-11}$	$1.112 \cdot 10^{-11}$	0	$3.911 \cdot 10^{-14} 3.911 \cdot 10^{-14}$	0
сНе	$4.025 \cdot 10^{-12}$	$4.025 \cdot 10^{-12}$	0	$1.644 \cdot 10^{-14}$ $1.644 \cdot 10^{-14}$	0
cHl1	$1.128 \cdot 10^{-11}$	$1.128 \cdot 10^{-11}$	0	$4.023 \cdot 10^{-14} 4.023 \cdot 10^{-14}$	0
cH13	$3.026 \cdot 10^{-11}$	$3.026 \cdot 10^{-11}$	0	$9.293 \cdot 10^{-13} 9.293 \cdot 10^{-13}$	0
cHq1	$-2.89 \cdot 10^{-11}$	$-2.89 \cdot 10^{-11}$	0	$2.642 \cdot 10^{-13} 2.642 \cdot 10^{-13}$	0
cHq3	$-3.571 \cdot 10^{-11}$	$-3.571 \cdot 10^{-11}$	0	$1.294 \cdot 10^{-12} 1.294 \cdot 10^{-12}$	0
cHu	$-1.504 \cdot 10^{-11}$	$-1.504 \cdot 10^{-11}$	0	$7.153 \cdot 10^{-14} 7.153 \cdot 10^{-14}$	0
cHudRe	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$ 0	1
cW	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$ 0	1
cdBRe	$1.393 \cdot 10^{-14}$	$1.393 \cdot 10^{-14}$	0	$1.97 \cdot 10^{-19}$ $1.97 \cdot 10^{-19}$	0
cdGRe	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$ 0	1
cdHRe	$2.28 \cdot 10^{-25}$	$7.216 \cdot 10^{-28}$	0.9968	$1.311 \cdot 10^{-29}$ $1.311 \cdot 10^{-29}$	0
cdWRe	$2.602 \cdot 10^{-14}$		0	$6.869 \cdot 10^{-19} 6.869 \cdot 10^{-19}$	0
cdd	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$ 0	1
cdd1	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$ 0	1
ceBRe	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$ 0	1
ceHRe	$2.274 \cdot 10^{-25}$	$7.771 \cdot 10^{-29}$	0.9997	$1.521 \cdot 10^{-31}$ $1.521 \cdot 10^{-31}$	0
ceWRe	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$ 0	1
ced	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$ 0	1
cee	$8.112 \cdot 10^{-26}$		1	$6.678 \cdot 10^{-42}$	1
ceu	$2.273 \cdot 10^{-25}$		1	$1.634 \cdot 10^{-41}$ 0	1
cld	$8.112 \cdot 10^{-26}$		1	$6.678 \cdot 10^{-42}$	1
cle	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$ 0	1
cledqRe	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$ 0	1

clequ1Re	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
clequ3Re	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cll	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cll1	$-2.215 \cdot 10^{-11}$	$-2.215 \cdot 10^{-11}$	0	$4.978 \cdot 10^{-13}$	$4.978 \cdot 10^{-13}$	0
clq1	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
clq3	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
clu	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cqd1	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cqd8	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cqe	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cqq1	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cqq11	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cqq3	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cqq31	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cqu1	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cqu8	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cquqd11Re	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cquqd1Re	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cquqd81Re	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cquqd8Re	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cuBRe	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cuGRe	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cuHRe	$2.273 \cdot 10^{-25}$	$3.583 \cdot 10^{-29}$	0.9998	$3.231 \cdot 10^{-32}$	$3.231 \cdot 10^{-32}$	0
cuWRe	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cud1	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cud8	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
cuu	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
cuu1	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
sm	0	0	0	0.9039	0.9039	0

1.37 $e^+\nu_{\mu} \to e^+\nu_{\mu}$

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cG	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
сН	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
cHB	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
cHDD	$9.609 \cdot 10^{-10}$	$9.609 \cdot 10^{-10}$	0	$2.082 \cdot 10^{-12}$	$2.082 \cdot 10^{-12}$	0	
cHG	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
cHW	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
cHWB	$-6.169 \cdot 10^{-9}$	$-6.169 \cdot 10^{-9}$	0	$8.582 \cdot 10^{-11}$	$8.582 \cdot 10^{-11}$	0	
cHd	$2.408 \cdot 10^{-9}$	$2.408 \cdot 10^{-9}$	0	$1.308 \cdot 10^{-11}$	$1.308 \cdot 10^{-11}$	0	
сНе	$7.003 \cdot 10^{-11}$	$7.003 \cdot 10^{-11}$	0	$3.858 \cdot 10^{-13}$	$3.858 \cdot 10^{-13}$	0	
cHl1	$2.443 \cdot 10^{-9}$	$2.443 \cdot 10^{-9}$	0	$1.346 \cdot 10^{-11}$	$1.346 \cdot 10^{-11}$	0	
cH13	$5.265 \cdot 10^{-10}$	$5.265 \cdot 10^{-10}$	0	$2.18 \cdot 10^{-11}$	$2.18 \cdot 10^{-11}$	0	
cHq1	$-6.261 \cdot 10^{-9}$	$-6.261 \cdot 10^{-9}$	0	$8.838 \cdot 10^{-11}$	$8.838 \cdot 10^{-11}$	0	
cHq3	$-6.212 \cdot 10^{-10}$	$-6.212 \cdot 10^{-10}$	0	$3.035 \cdot 10^{-11}$	$3.035 \cdot 10^{-11}$	0	
cHu	$-3.257 \cdot 10^{-9}$	$-3.257 \cdot 10^{-9}$	0	$2.392 \cdot 10^{-11}$	$2.392 \cdot 10^{-11}$	0	
cHudRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
cW	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
cdBRe	$2.424 \cdot 10^{-13}$	$2.424 \cdot 10^{-13}$	0	$4.622 \cdot 10^{-18}$	$4.622 \cdot 10^{-18}$	0	
cdGRe	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
cdHRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-3}$	0	1	
cdWRe	$4.526 \cdot 10^{-13}$	$4.526 \cdot 10^{-13}$	0	$1.612 \cdot 10^{-1}$	7 $1.612 \cdot 10^{-17}$	7 0	
cdd	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-3}$	0	1	
cdd1	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-3}$	99 0	1	
ceBRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-3}$	0	1	
ceHRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-3}$	0	1	
ceWRe	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-4}$	0	1	

ced	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cee	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
ceu	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cld	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cle	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cledqRe	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
clequ1Re	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
clequ3Re	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cll	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cll1	$-3.853 \cdot 10^{-10}$	$-3.853 \cdot 10^{-10}$	0		$8 \cdot 10^{-11}$	0
clq1	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
clq3	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
clu	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cqd1	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cqd8	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cqe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cqq1	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cqq11	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cqq3	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cqq31	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cqu1	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cqu8	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cquqd11Re	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cquqd1Re	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cquqd81Re	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cquqd8Re	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cuBRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cuGRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cuHRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1

cuWRe	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cud1	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cud8	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
cuu	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
cuu1	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
sm	0	0	0	0.1237	0.1237	0

$1.38 \quad e^+\nu_e \to \mu^+\nu_\mu$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cHl3	$1.112 \cdot 10^{-10}$	$1.112 \cdot 10^{-10}$	0	$4.495 \cdot 10^{-12}$	$4.495 \cdot 10^{-12}$	0	
сНq3	$-1.112 \cdot 10^{-10}$	$-1.112 \cdot 10^{-10}$	0	$4.495 \cdot 10^{-12}$	$4.495 \cdot 10^{-12}$	0	
cll1	$-8.341 \cdot 10^{-11}$	$-8.341 \cdot 10^{-11}$	0	$2.528 \cdot 10^{-12}$	$2.528 \cdot 10^{-12}$	0	
sm	0	0	0	0.02688	0.02688	0	

1.39 $e^+\nu_e \to e^+\nu_e$

		interfer	rence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1	
сН	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1	
сНВ	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1	
cHDD	$8.219 \cdot 10^{-10}$	$8.219 \cdot 10^{-10}$	0	$9.915 \cdot 10^{-13}$	$9.915 \cdot 10^{-13}$	0	
сHG	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1	
cHW	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1	
cHWB	$-5.277 \cdot 10^{-9}$	$-5.277 \cdot 10^{-9}$	0	$4.087 \cdot 10^{-11}$	$4.087 \cdot 10^{-11}$	0	
cHd	$2.06 \cdot 10^{-9}$	$2.06 \cdot 10^{-9}$	0	$6.229 \cdot 10^{-12}$	$6.229 \cdot 10^{-12}$	0	
сНе	$2.277 \cdot 10^{-10}$	$2.277 \cdot 10^{-10}$	0	$6.392 \cdot 10^{-13}$	$6.392 \cdot 10^{-13}$	0	

cHl1	$2.089 \cdot 10^{-9}$ $2.089 \cdot 10^{-9}$	0	$6.408 \cdot 10^{-12} 6.408 \cdot 10^{-12}$	0
cH13	$1.983 \cdot 10^{-9}$ $1.983 \cdot 10^{-9}$	0	$2.829 \cdot 10^{-11}$ $2.829 \cdot 10^{-11}$	0
cHq1	$-5.355 \cdot 10^{-9}$ $-5.355 \cdot 10^{-9}$	0	$4.209 \cdot 10^{-11} 4.209 \cdot 10^{-11}$	0
cHq3	$-2.291 \cdot 10^{-9} -2.291 \cdot 10^{-9}$	0	$4.062 \cdot 10^{-11} 4.062 \cdot 10^{-11}$	0
сHu	$-2.786 \cdot 10^{-9} -2.786 \cdot 10^{-9}$	0	$1.139 \cdot 10^{-11} 1.139 \cdot 10^{-11}$	0
cHudRe	$4.211 \cdot 10^{-23}$ 0	1	$2.603 \cdot 10^{-39}$	1
cW	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$	1
cdBRe	$7.882 \cdot 10^{-13}$ $7.882 \cdot 10^{-13}$	0	$7.658 \cdot 10^{-18} 7.658 \cdot 10^{-18}$	0
cdGRe	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
cdHRe	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
cdWRe	$1.472 \cdot 10^{-12}$ $1.472 \cdot 10^{-12}$	0	$2.67 \cdot 10^{-17}$ $2.67 \cdot 10^{-17}$	0
cdd	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
cdd1	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
ceBRe	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
ceHRe	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
ceWRe	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
ced	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
cee	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
ceu	$4.211 \cdot 10^{-23}$ 0	1	$2.603 \cdot 10^{-39}$ 0	1
cld	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
cle	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
cledqRe	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
clequ1Re	$4.211 \cdot 10^{-23}$ 0	1	$2.603 \cdot 10^{-39}$ 0	1
clequ3Re	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
cll	$4.211 \cdot 10^{-23}$	1	$2.603 \cdot 10^{-39}$ 0	1
cll1	$-1.456 \cdot 10^{-9} -1.456 \cdot 10^{-9}$	0	$1.508 \cdot 10^{-11}$ $1.508 \cdot 10^{-11}$	0
clq1	$4.211 \cdot 10^{-23}$ 0	1	$2.603 \cdot 10^{-39}$ 0	1
clq3	$4.589 \cdot 10^{-24}$ 0	1	$2.596 \cdot 10^{-40}$ 0	1
clu	$4.211 \cdot 10^{-23}$ 0	1	$2.603 \cdot 10^{-39}$ 0	1

cqd1	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cqd8	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cqe	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cqq1	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cqq11	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cqq3	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cqq31	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cqu1	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cqu8	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cquqd11Re	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cquqd1Re	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cquqd81Re	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cquqd8Re	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cuBRe	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cuGRe	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cuHRe	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cuWRe	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cud1	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cud8	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
cuu	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
cuu1	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
sm	0	0	0	0.1669	0.1669	0

1.40 $e^+\tau^- \to e^+\tau^-$

		interf	erence	square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
сG	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cН	$-1.675 \cdot 10^{-24}$	\cap	1	$6.688 \cdot 10^{-41}$	\cap	1

			20 20	
сНВ	$-7.042 \cdot 10^{-24} 8.791 \cdot 10^{-29}$	1	$3.7 \cdot 10^{-30} \qquad 3.7 \cdot 10^{-30}$	0
cHDD	$-1.374 \cdot 10^{-10} -1.374 \cdot 10^{-10}$	0	$3.009 \cdot 10^{-13} 3.009 \cdot 10^{-13}$	0
cHG	$-1.676 \cdot 10^{-24} -1.026 \cdot 10^{-27}$	0.9994	$1.561 \cdot 10^{-27}$ $1.561 \cdot 10^{-27}$	0
cHW	$-1.675 \cdot 10^{-24}$ $2.543 \cdot 10^{-29}$	1	$9.576 \cdot 10^{-31} 9.576 \cdot 10^{-31}$	0
cHWB	$8.824 \cdot 10^{-10}$ $8.824 \cdot 10^{-10}$	0	$1.24 \cdot 10^{-11}$ $1.24 \cdot 10^{-11}$	0
cHd	$-3.445 \cdot 10^{-10} -3.445 \cdot 10^{-10}$	0	$1.89 \cdot 10^{-12}$ $1.89 \cdot 10^{-12}$	0
сНе	$-8.313 \cdot 10^{-11} -8.313 \cdot 10^{-11}$	0	$1.647 \cdot 10^{-13}$ $1.647 \cdot 10^{-13}$	0
cHl1	$-3.494 \cdot 10^{-10} -3.494 \cdot 10^{-10}$	0	$1.944 \cdot 10^{-12} 1.944 \cdot 10^{-12}$	0
cH13	$-6.249 \cdot 10^{-10} -6.249 \cdot 10^{-10}$	0	$9.307 \cdot 10^{-12} 9.307 \cdot 10^{-12}$	0
cHq1	$8.955 \cdot 10^{-10}$ $8.955 \cdot 10^{-10}$	0	$1.277 \cdot 10^{-11} 1.277 \cdot 10^{-11}$	0
cHq3	$7.374 \cdot 10^{-10}$ $7.374 \cdot 10^{-10}$	0	$1.296 \cdot 10^{-11}$ $1.296 \cdot 10^{-11}$	0
сНи	$4.659 \cdot 10^{-10}$ $4.659 \cdot 10^{-10}$	0	$3.457 \cdot 10^{-12} 3.457 \cdot 10^{-12}$	0
cHudRe	$-7.042 \cdot 10^{-24}$ 0	1	$7.898 \cdot 10^{-40}$ 0	1
cW	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
cdBRe	$-2.877 \cdot 10^{-13} -2.877 \cdot 10^{-13}$	0	$1.973 \cdot 10^{-18}$ $1.973 \cdot 10^{-18}$	0
cdGRe	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
cdHRe	$-7.042 \cdot 10^{-24}$ $7.03 \cdot 10^{-29}$	1	$2.366 \cdot 10^{-30}$ $2.366 \cdot 10^{-30}$	0
cdWRe	$-5.373 \cdot 10^{-13} -5.373 \cdot 10^{-13}$	0	$6.879 \cdot 10^{-18} 6.879 \cdot 10^{-18}$	0
cdd	$-7.042 \cdot 10^{-24}$ 0	1	$7.898 \cdot 10^{-40}$ 0	1
cdd1	$-7.042 \cdot 10^{-24}$ 0	1	$7.898 \cdot 10^{-40}$ 0	1
ceBRe	$-7.042 \cdot 10^{-24}$ 0	1	$7.898 \cdot 10^{-40}$ 0	1
ceHRe	$-7.042 \cdot 10^{-24}$ $7.571 \cdot 10^{-30}$	1	$2.744 \cdot 10^{-32}$ $2.744 \cdot 10^{-32}$	0
ceWRe	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
ced	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
cee	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
ceu	$-7.042 \cdot 10^{-24}$ 0	1	$7.898 \cdot 10^{-40}$ 0	1
cld	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
cle	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
cledqRe	$-1.675 \cdot 10^{-24}$ 0	1	$6.688 \cdot 10^{-41}$ 0	1
-				

clequ1Re	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
clequ3Re	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cll	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cll1	$4.574 \cdot 10^{-10}$	$4.574 \cdot 10^{-10}$	0	$4.986 \cdot 10^{-12}$	$4.986 \cdot 10^{-12}$	0
clq1	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
clq3	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
clu	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cqd1	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cqd8	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cqe	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cqq1	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cqq11	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cqq3	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cqq31	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cqu1	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cqu8	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cquqd11Re	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cquqd1Re	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cquqd81Re	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cquqd8Re	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cuBRe	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cuGRe	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cuHRe	$-7.042 \cdot 10^{-24}$	$3.49 \cdot 10^{-30}$	1	$5.832 \cdot 10^{-33}$	$5.832 \cdot 10^{-33}$	$1.372 \cdot 10^{-7}$
cuWRe	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cud1	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cud8	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
cuu	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
cuu1	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
sm	0	0	0	0.2309	0.2309	0

1.41 $e^+e^- \to \mu^+\mu^-$

	interfer	ence	square
	mod1 mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	$\verb mod1 & \verb mod2 & 1-\verb mod2/mod1 $
сG	$-1.907 \cdot 10^{-25} \qquad 0$	1	$4.845 \cdot 10^{-42}$ 0 1
сН	$-1.907 \cdot 10^{-25}$ 0	1	$4.845 \cdot 10^{-42}$ 0 1
cHB	$-5.924 \cdot 10^{-26} 3.855 \cdot 10^{-32}$	1	$1.699 \cdot 10^{-33} 1.699 \cdot 10^{-33} \qquad 0$
cHDD	$-1.156 \cdot 10^{-12} -1.156 \cdot 10^{-12}$	0	$1.284 \cdot 10^{-15} 1.284 \cdot 10^{-15} \qquad 0$
cHG	$-1.907 \cdot 10^{-25} -1.345 \cdot 10^{-30}$	1	$2.074 \cdot 10^{-30} 2.074 \cdot 10^{-30} \qquad 0$
cHW	$-1.907 \cdot 10^{-25} 3.333 \cdot 10^{-32}$	1	$1.273 \cdot 10^{-33} 1.273 \cdot 10^{-33} \qquad 0$
cHWB	$7.423 \cdot 10^{-12} \qquad 7.423 \cdot 10^{-12}$	0	$5.294 \cdot 10^{-14} 5.294 \cdot 10^{-14} \qquad 0$
cHd	$-2.898 \cdot 10^{-12} -2.898 \cdot 10^{-12}$	0	$8.069 \cdot 10^{-15} 8.069 \cdot 10^{-15}$
сНе	$-9.464 \cdot 10^{-12} -9.464 \cdot 10^{-12}$	0	$1.193 \cdot 10^{-14} 1.193 \cdot 10^{-14} \qquad 0$
cHl1	$-2.939 \cdot 10^{-12} -2.939 \cdot 10^{-12}$	0	$8.301 \cdot 10^{-15} 8.301 \cdot 10^{-15}$
cH13	$-7.115 \cdot 10^{-11} -7.115 \cdot 10^{-11}$	0	$6.742 \cdot 10^{-13} 6.742 \cdot 10^{-13} \qquad 0$
cHq1	$7.533 \cdot 10^{-12} \qquad 7.533 \cdot 10^{-12}$	0	$5.452 \cdot 10^{-14} 5.452 \cdot 10^{-14} \qquad 0$
сНqЗ	$8.395 \cdot 10^{-11}$ $8.395 \cdot 10^{-11}$	0	$9.386 \cdot 10^{-13} 9.386 \cdot 10^{-13} \qquad 0$
cHu	$3.919 \cdot 10^{-12}$ $3.919 \cdot 10^{-12}$	0	$1.476 \cdot 10^{-14} 1.476 \cdot 10^{-14} \qquad 0$
cHudRe	$-5.924 \cdot 10^{-26}$ 0	1	$3.372 \cdot 10^{-42}$ 0 1
cW	$-1.907 \cdot 10^{-25}$ 0	1	$4.845 \cdot 10^{-42}$ 0 1
cdBRe	$-3.276 \cdot 10^{-14} -3.276 \cdot 10^{-14}$	0	$1.429 \cdot 10^{-19} 1.429 \cdot 10^{-19} \qquad 0$
cdGRe	$-1.907 \cdot 10^{-25} \qquad 0$	1	$4.845 \cdot 10^{-42}$ 0 1
cdHRe	$-5.924 \cdot 10^{-26}$ $3.083 \cdot 10^{-3}$	1 - 1	$1.087 \cdot 10^{-33} 1.087 \cdot 10^{-33}$
cdWRe	$-6.117 \cdot 10^{-14} -6.117 \cdot 10^{-1}$	-14 0	$4.984 \cdot 10^{-19} 4.984 \cdot 10^{-19} $
cdd	$-5.924 \cdot 10^{-26}$ 0	1	$3.372 \cdot 10^{-42}$ 0 1
cdd1	$-5.924 \cdot 10^{-26} \qquad 0$	1	$3.372 \cdot 10^{-42}$ 0 1
ceBRe	$-5.924 \cdot 10^{-26}$ 0	1	$3.372 \cdot 10^{-42}$ 0 1
ceHRe	$-5.924 \cdot 10^{-26} \qquad 3.32 \cdot 10^{-33}$	1	$1.26 \cdot 10^{-35}$ $1.26 \cdot 10^{-35}$ $3.174 \cdot 10^{-35}$
ceWRe	$-1.907 \cdot 10^{-25}$ 0	1	$4.845 \cdot 10^{-42}$ 0 1

ced	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cee	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
ceu	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cld	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cle	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cledqRe	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
clequ1Re	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
clequ3Re	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cll	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cll1	$5.208 \cdot 10^{-11}$	$5.208 \cdot 10^{-11}$	0	$3.612 \cdot 10^{-13}$	$3.612 \cdot 10^{-13}$	0
clq1	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
clq3	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
clu	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cqd1	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cqd8	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cqe	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cqq1	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cqq11	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cqq3	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cqq31	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cqu1	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cqu8	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cquqd11Re	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cquqd1Re	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cquqd81Re	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cquqd8Re	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cuBRe	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cuGRe	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cuHRe	$-5.924 \cdot 10^{-26}$	$1.531 \cdot 10^{-33}$	1	$2.678 \cdot 10^{-36}$	$2.678 \cdot 10^{-36}$	$1.27 \cdot 10^{-6}$

cuWRe	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cud1	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cud8	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
cuu	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
cuu1	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
sm	0	0	0	0.007297	0.007297	0

1.42 $e^+e^- \to e^+e^-$

		interfere	nce	\$	square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1 m	od2 $1-\mathtt{mod}2/\mathtt{mod}1$			
cG	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0 1			
cН	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0 1			
cHB	$1.213 \cdot 10^{-18}$	$1.036 \cdot 10^{-20}$	0.9915	$1.438 \cdot 10^{-34}$ 7.608	0.9471			
cHDD	$2.348 \cdot 10^{-5}$	$2.348 \cdot 10^{-5}$	0	$5.276 \cdot 10^{-8}$ 5.276	$6 \cdot 10^{-8}$ 0			
cHG	$-3.001 \cdot 10^{-22}$	$-2.991 \cdot 10^{-22}$	0.003348	$6.607 \cdot 10^{-35}$ $6.6 \cdot$	10^{-35} 0.001013			
cHW	$6.404 \cdot 10^{-24}$	$7.409 \cdot 10^{-24}$	-0.1569	$3.887 \cdot 10^{-38}$ 4.05	$\cdot 10^{-38} -0.04194$			
cHWB	-0.0001507	-0.0001507	0	$2.175 \cdot 10^{-6}$ 2.175	$5 \cdot 10^{-6}$ 0			
cHd	$5.885 \cdot 10^{-5}$	$5.885 \cdot 10^{-5}$	0	$3.314 \cdot 10^{-7}$ 3.314	$1 \cdot 10^{-7}$ 0			
cHe	$-4.985 \cdot 10^{-11}$	$-4.985 \cdot 10^{-11}$	0	$6.783 \cdot 10^{-14}$ 6.783	$0 \cdot 10^{-14}$			
cHl1	$5.969 \cdot 10^{-5}$	$5.969 \cdot 10^{-5}$	0	$3.41 \cdot 10^{-7}$ 3.41	$\cdot 10^{-7}$ 0			
cH13	$-3.747 \cdot 10^{-10}$	$-3.747 \cdot 10^{-10}$	0	$3.834 \cdot 10^{-12}$ 3.834	10^{-12} 0			
cHq1	-0.000153	-0.000153	0	$2.239 \cdot 10^{-6}$ 2.239	$0 \cdot 10^{-6}$ 0			
сНqЗ	$4.421 \cdot 10^{-10}$	$4.421 \cdot 10^{-10}$	0	$5.337 \cdot 10^{-12}$ 5.337	$0 \cdot 10^{-12}$			
cHu	$-7.959 \cdot 10^{-5}$	$-7.959 \cdot 10^{-5}$	0	$6.062 \cdot 10^{-7}$ 6.062	$2 \cdot 10^{-7}$ 0			
cHudRe	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0 1			
cW	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0 1			
cdBRe	$-1.725 \cdot 10^{-13}$	$-1.725 \cdot 10^{-13}$	0	$8.126 \cdot 10^{-19}$ 8.126	$0 \cdot 10^{-19}$			
cdGRe	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0 1			
cdHRe	$1.211 \cdot 10^{-18}$	$8.287 \cdot 10^{-21}$	0.9932	$1.415 \cdot 10^{-34}$ 4.8	$666 \cdot 10^{-36}$ 0.9656			

cdWRe	$-3.222 \cdot 10^{-13}$	$-3.222 \cdot 10^{-13}$	0	$2.834 \cdot 10^{-18}$	$2.834 \cdot 10^{-18}$	0
cdd	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cdd1	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
ceBRe	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
ceHRe	$1.204 \cdot 10^{-18}$	$8.924 \cdot 10^{-22}$	0.9993	$1.384 \cdot 10^{-34}$	$5.643 \cdot 10^{-38}$	0.9996
ceWRe	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
ced	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cee	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
ceu	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cld	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cle	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cledqRe	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
clequ1Re	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
clequ3Re	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cll	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cll1	$2.743 \cdot 10^{-10}$	$2.743 \cdot 10^{-10}$	0	$2.054 \cdot 10^{-12}$	$2.054 \cdot 10^{-12}$	0
clq1	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
clq3	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
clu	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cqd1	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cqd8	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cqe	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cqq1	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cqq11	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cqq3	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cqq31	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cqu1	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$		1
cqu8	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$		1
cquqd11Re	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1

cquqd1Re	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cquqd81Re	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cquqd8Re	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cuBRe	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cuGRe	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cuHRe	$1.203 \cdot 10^{-18}$	$4.114 \cdot 10^{-22}$	0.9997	$1.384 \cdot 10^{-34}$	$1.199 \cdot 10^{-38}$	0.9999
cuWRe	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cud1	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cud8	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
cuu	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
cuu1	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
sm	0	0	0	461.6	461.6	0

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

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1	
сН	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1	
сНВ	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1	
cHDD	$1.216 \cdot 10^{-12}$	$1.216 \cdot 10^{-12}$	0	$2.636 \cdot 10^{-15}$	$2.636 \cdot 10^{-15}$	0	
cHG	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1	
cHW	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1	
cHWB	$-7.809 \cdot 10^{-12}$	$-7.809 \cdot 10^{-12}$	0	$1.086 \cdot 10^{-13}$	$1.086 \cdot 10^{-13}$	0	
cHd	$3.049 \cdot 10^{-12}$	$3.049 \cdot 10^{-12}$	0	$1.656 \cdot 10^{-14}$	$1.656 \cdot 10^{-14}$	0	
сНе	$7.48 \cdot 10^{-13}$	$7.48 \cdot 10^{-13}$	0	$4.12 \cdot 10^{-15}$	$4.12 \cdot 10^{-15}$	0	
cHl1	$3.092 \cdot 10^{-12}$	$3.092 \cdot 10^{-12}$	0	$1.703 \cdot 10^{-14}$	$1.703 \cdot 10^{-14}$	0	
cH13	$5.623 \cdot 10^{-12}$	$5.623 \cdot 10^{-12}$	0	$2.329 \cdot 10^{-13}$	$2.329 \cdot 10^{-13}$	0	
cHq1	$-7.925 \cdot 10^{-12}$	$-7.925 \cdot 10^{-12}$	0	$1.119 \cdot 10^{-13}$	$1.119 \cdot 10^{-13}$	0	

сНq3	$-6.635 \cdot 10^{-12}$ -	$-6.635 \cdot 10^{-12}$	0	$3.242 \cdot 10^{-13} 3.242 \cdot 10^{-13}$	0
сHu	$-4.123 \cdot 10^{-12}$	$-4.123 \cdot 10^{-12}$	0	$3.028 \cdot 10^{-14} 3.028 \cdot 10^{-14}$	0
cHudRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cM	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
cdBRe	$2.589 \cdot 10^{-15}$	$2.589 \cdot 10^{-15}$	0	$4.936 \cdot 10^{-20} 4.936 \cdot 10^{-20}$	0
cdGRe	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
cdHRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cdWRe	$4.835 \cdot 10^{-15}$	$4.835 \cdot 10^{-15}$	0	$1.721 \cdot 10^{-19} 1.721 \cdot 10^{-19}$	0
cdd	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cdd1	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
ceBRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
ceHRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
ceWRe	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
ced	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
cee	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
ceu	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cld	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
cle	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
cledqRe	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
clequ1Re	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
clequ3Re	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cll	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cll1	$-4.116 \cdot 10^{-12}$	$-4.116 \cdot 10^{-12}$	0	$1.248 \cdot 10^{-13} 1.248 \cdot 10^{-13}$	0
clq1	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
clq3	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0	1
clu	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1
cqd1	$1.508 \cdot 10^{-26}$		1	$1.674 \cdot 10^{-42}$ 0	1
cqd8	$1.508 \cdot 10^{-26}$		1	$1.674 \cdot 10^{-42}$ 0	1
cqe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0	1

cqq1	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cqq11	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cqq3	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cqq31	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cqu1	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cqu8	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cquqd11Re	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cquqd1Re	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cquqd81Re	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cquqd8Re	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cuBRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cuGRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cuHRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cuWRe	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cud1	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cud8	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
cuu	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
cuu1	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
sm	0	0	0	0.002666	0.002666	0

1.44 $s\bar{s} \rightarrow s\bar{s}$

		interfere	ence		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1 - \mathtt{mod}2/\mathtt{mod}1$		
сG	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1		
сН	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1		
сНВ	$2.337 \cdot 10^{-20}$	$2.337 \cdot 10^{-20}$	$-2.631 \cdot 10^{-5}$	$9.074 \cdot 10^{-29}$	$9.074 \cdot 10^{-29}$	$-1.102 \cdot 10^{-7}$		
cHDD	$-1.2 \cdot 10^{-11}$	$-1.2 \cdot 10^{-11}$	0	$4.723 \cdot 10^{-15}$	$4.723 \cdot 10^{-15}$	0		
сHG	$-7.279 \cdot 10^{-17}$	$-7.279 \cdot 10^{-17}$	$2.844 \cdot 10^{-6}$	$3.747 \cdot 10^{-24}$	$3.747 \cdot 10^{-24}$	0		

cHW	$1.803 \cdot 10^{-18}$	$1.803 \cdot 10^{-18}$	-0.0001146	$2.299 \cdot 10^{-27}$	$2.299 \cdot 10^{-27}$	$-1.74 \cdot 10^{-7}$
cHWB	$7.706 \cdot 10^{-11}$	$7.706 \cdot 10^{-11}$	0	$1.947 \cdot 10^{-13}$	$1.947 \cdot 10^{-13}$	0
cHd	$-3.008 \cdot 10^{-11}$	$-3.008 \cdot 10^{-11}$	0	$2.967 \cdot 10^{-14}$	$2.967 \cdot 10^{-14}$	0
сНе	$-1.026 \cdot 10^{-8}$	$-1.026 \cdot 10^{-8}$	0	$9.484 \cdot 10^{-10}$	$9.484 \cdot 10^{-10}$	0
cHl1	$-3.051 \cdot 10^{-11}$	$-3.051 \cdot 10^{-11}$	0	$3.053 \cdot 10^{-14}$	$3.053 \cdot 10^{-14}$	0
cH13	$-7.712 \cdot 10^{-8}$	$-7.712 \cdot 10^{-8}$	0	$5.361 \cdot 10^{-8}$	$5.361 \cdot 10^{-8}$	0
cHq1	$7.82 \cdot 10^{-11}$	$7.82 \cdot 10^{-11}$	0	$2.005 \cdot 10^{-13}$	$2.005 \cdot 10^{-13}$	0
cHq3	$9.099 \cdot 10^{-8}$	$9.099 \cdot 10^{-8}$	0	$7.463 \cdot 10^{-8}$	$7.463 \cdot 10^{-8}$	0
cHu	$4.068 \cdot 10^{-11}$	$4.068 \cdot 10^{-11}$	0	$5.427 \cdot 10^{-14}$	$5.427 \cdot 10^{-14}$	0
cHudRe	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cW	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cdBRe	$-3.55 \cdot 10^{-11}$	$-3.55 \cdot 10^{-11}$	0	$1.136 \cdot 10^{-14}$	$1.136 \cdot 10^{-14}$	0
cdGRe	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cdHRe	$1.869 \cdot 10^{-20}$	$1.869 \cdot 10^{-20}$	$-3.29 \cdot 10^{-5}$	$5.804 \cdot 10^{-29}$	$5.804 \cdot 10^{-29}$	$-1.551 \cdot 10^{-7}$
cdWRe	$-6.63 \cdot 10^{-11}$	$-6.63 \cdot 10^{-11}$	0	$3.962 \cdot 10^{-14}$	$3.962 \cdot 10^{-14}$	0
cdd	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cdd1	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
ceBRe	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
ceHRe	$2.012 \cdot 10^{-21}$	$2.013 \cdot 10^{-21}$	-0.0003056	$6.731 \cdot 10^{-31}$		$-1.307 \cdot 10^{-6}$
ceWRe	$-2.067 \cdot 10^{-22}$		1	$3.852 \cdot 10^{-37}$		1
ced	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cee	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
ceu	$-6.15 \cdot 10^{-25}$		1	$1.24 \cdot 10^{-41}$	0	1
cld	$-2.067 \cdot 10^{-22}$		1	$3.852 \cdot 10^{-37}$		1
cle	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$		1
cledqRe	$-2.067 \cdot 10^{-22}$		1	$3.852 \cdot 10^{-37}$	0	1
clequ1Re	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
clequ3Re	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cll	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1

cll1	$5.644 \cdot 10^{-8}$	$5.644 \cdot 10^{-8}$	0	$2.872 \cdot 10^{-8}$	$2.872 \cdot 10^{-8}$	0
clq1	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
clq3	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
clu	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cqd1	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cqd8	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cqe	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cqq1	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cqq11	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cqq3	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cqq31	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cqu1	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cqu8	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cquqd11Re	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cquqd1Re	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cquqd81Re	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cquqd8Re	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cuBRe	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cuGRe	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cuHRe	$9.274 \cdot 10^{-22}$	$9.28 \cdot 10^{-22}$	-0.0006631		$1.431 \cdot 10^{-31}$	$-2.796 \cdot 10^{-6}$
cuWRe	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cud1	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cud8	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
cuu	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
cuu1	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
sm	0	0	0	2.42	2.42	0

1.45 $t\bar{t} \rightarrow t\bar{t}$

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1 - \mathtt{mod}2/\mathtt{mod}1$	
сG	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1	
сН	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1	
сНВ	$-4.014 \cdot 10^{-12}$ -4.0	$14 \cdot 10^{-12}$	0	$7.053 \cdot 10^{-15}$	$7.053 \cdot 10^{-15}$	0	
cHDD	$-5.298 \cdot 10^{-10}$ -5.2	$98 \cdot 10^{-10}$	0	$3.61 \cdot 10^{-12}$	$3.61 \cdot 10^{-12}$	0	
cHG		$4 \cdot 10^{-11}$	0	$8.69 \cdot 10^{-13}$	$8.69 \cdot 10^{-13}$	0	
cHW		$69 \cdot 10^{-13}$	0	$5.332 \cdot 10^{-16}$	$5.332 \cdot 10^{-16}$	0	
cHWB		$96 \cdot 10^{-9}$	0	$1.487 \cdot 10^{-10}$	$1.487 \cdot 10^{-10}$	0	
cHd		$325 \cdot 10^{-9}$	0	$2.264 \cdot 10^{-11}$	$2.264 \cdot 10^{-11}$	0	
сНе	$-4.37 \cdot 10^{-10}$ -4.3	$37 \cdot 10^{-10}$	0	$1.942 \cdot 10^{-12}$	$1.942 \cdot 10^{-12}$	0	
cHl1	$-1.344 \cdot 10^{-9}$ -1.3	$344 \cdot 10^{-9}$	0	$2.329 \cdot 10^{-11}$	$2.329 \cdot 10^{-11}$	0	
cH13	$-3.287 \cdot 10^{-9}$ -3.2	$287 \cdot 10^{-9}$	0	$1.099 \cdot 10^{-10}$	$1.099 \cdot 10^{-10}$	0	
cHq1	$3.443 \cdot 10^{-9}$ 3.44	$43 \cdot 10^{-9}$	0	$1.53 \cdot 10^{-10}$	$1.53 \cdot 10^{-10}$	0	
сНq3	$3.877 \cdot 10^{-9}$ 3.87	$77 \cdot 10^{-9}$	0	$1.528 \cdot 10^{-10}$	$1.528 \cdot 10^{-10}$	0	
cHu	$1.791 \cdot 10^{-9}$ 1.79	$91 \cdot 10^{-9}$	0	$4.141 \cdot 10^{-11}$	$4.141 \cdot 10^{-11}$	0	
cHudRe	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1	
cW	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1	
cdBRe	$-1.513 \cdot 10^{-12}$ -1.5	$13 \cdot 10^{-12}$	0	$2.327 \cdot 10^{-17}$	$2.327 \cdot 10^{-17}$	0	
cdGRe	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1	
cdHRe	$-3.21 \cdot 10^{-12}$ -	$3.21 \cdot 10^{-12}$	0	$4.511 \cdot 10^{-1}$	$4.511 \cdot 10^{-15}$	0	
cdWRe	$-2.825 \cdot 10^{-12}$ -2	$2.825 \cdot 10^{-1}$	2 0	$8.115 \cdot 10^{-1}$	$8.115 \cdot 10^{-17}$	7 0	
cdd	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-3}$	0	1	
cdd1	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-3}$	0	1	
ceBRe	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-3}$	0	1	
ceHRe	$-3.457 \cdot 10^{-13}$ -3	$3.457 \cdot 10^{-1}$	3 0	$5.232 \cdot 10^{-1}$	$5.232 \cdot 10^{-17}$	7 0	
ceWRe	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-4}$	0	1	
ced	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-4}$	0	1	
cee	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-4}$	0	1	

ceu	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cld	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cle	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cledqRe	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
clequ1Re	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
clequ3Re	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cll	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cll1	$2.406 \cdot 10^{-9}$	$2.406 \cdot 10^{-9}$	0	$5.886 \cdot 10^{-11}$ 5.886	$6 \cdot 10^{-11}$ 0
clq1	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
clq3	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
clu	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cqd1	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cqd8	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cqe	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cqq1	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cqq11	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cqq3	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cqq31	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cqu1	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cqu8	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cquqd11Re	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cquqd1Re	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cquqd81Re	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cquqd8Re	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1
cuBRe	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cuGRe	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cuHRe	$-1.594 \cdot 10^{-13}$	$-1.594 \cdot 10^{-13}$	0		$12 \cdot 10^{-17}$ 0
cuWRe	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0 1
cud1	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0 1

cud8	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
cuu	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
cuu1	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
sm	0	0	0	50.79	50.79	0

1.46 $tg \rightarrow bW^+$

		interfer	rence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cH13	$-2.04 \cdot 10^{-8}$	$-2.04 \cdot 10^{-8}$	0	$1.323 \cdot 10^{-9}$	$1.323 \cdot 10^{-9}$	0	
сНqЗ	$2.04 \cdot 10^{-8}$	$2.04 \cdot 10^{-8}$	0	$1.323 \cdot 10^{-9}$	$1.323 \cdot 10^{-9}$	0	
cHudRe	$1.18 \cdot 10^{-11}$	$1.18 \cdot 10^{-11}$	0	$2.484 \cdot 10^{-16}$	$2.484 \cdot 10^{-16}$	0	
cdWRe	$2.536 \cdot 10^{-11}$	$2.536 \cdot 10^{-11}$	0	$2.045 \cdot 10^{-15}$	$2.045 \cdot 10^{-15}$	0	
cll1	$1.02 \cdot 10^{-8}$	$1.02 \cdot 10^{-8}$	0	$3.308 \cdot 10^{-10}$	$3.308 \cdot 10^{-10}$	0	
cuWRe	$-4.834 \cdot 10^{-8}$	$-4.834 \cdot 10^{-8}$	0	$4.169 \cdot 10^{-9}$	$4.169 \cdot 10^{-9}$	0	
sm	0	0	0	0.3345	0.3345	0	

1.47 $u\bar{d} \rightarrow c\bar{s}$

		interfere	ence	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
cH13	$2.053 \cdot 10^{-10}$	$2.053 \cdot 10^{-10}$	0	$8.298 \cdot 10^{-12}$	$8.298 \cdot 10^{-12}$	0	
cHq3	$-2.053 \cdot 10^{-10}$	$-2.053 \cdot 10^{-10}$	0	$8.298 \cdot 10^{-12}$	$8.298 \cdot 10^{-12}$	0	
cll1	$-1.54 \cdot 10^{-10}$	$-1.54 \cdot 10^{-10}$	0	$4.668 \cdot 10^{-12}$	$4.668 \cdot 10^{-12}$	0	
sm	0	0	0	0.002706	0.002706	0	

1.48 $u\bar{u} \rightarrow \nu_e \bar{\nu}_e$

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1	
сН	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1	
сНВ	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1	
cHDD	$9.015 \cdot 10^{-13}$	$9.015 \cdot 10^{-13}$	0	$1.954 \cdot 10^{-15}$	$1.954 \cdot 10^{-15}$	0	
cHG	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1	
cHW	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1	
cHWB	$-5.788 \cdot 10^{-12}$	$-5.788 \cdot 10^{-12}$	0	$8.052 \cdot 10^{-14}$	$8.052 \cdot 10^{-14}$	0	
cHd	$2.26 \cdot 10^{-12}$	$2.26 \cdot 10^{-12}$	0	$1.227 \cdot 10^{-14}$	$1.227 \cdot 10^{-14}$	0	
сНе	$2.891 \cdot 10^{-12}$	$2.891 \cdot 10^{-12}$	0	$1.593 \cdot 10^{-14}$	$1.593 \cdot 10^{-14}$	0	
cHl1	$2.292 \cdot 10^{-12}$	$2.292 \cdot 10^{-12}$	0	$1.263 \cdot 10^{-14}$	$1.263 \cdot 10^{-14}$	0	
cH13	$2.174 \cdot 10^{-11}$	$2.174 \cdot 10^{-11}$	0	$9.002 \cdot 10^{-13}$	$9.002 \cdot 10^{-13}$	0	
cHq1	$-5.874 \cdot 10^{-12}$	$-5.874 \cdot 10^{-12}$	0	$8.292 \cdot 10^{-14}$	$8.292 \cdot 10^{-14}$	0	
сНq3	$-2.565 \cdot 10^{-11}$		0	$1.253 \cdot 10^{-12}$		0	
сНи	$-3.056 \cdot 10^{-12}$	$-3.056 \cdot 10^{-12}$	0	$2.245 \cdot 10^{-14}$	$2.245 \cdot 10^{-14}$	0	
cHudRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1	
cW	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1	
cdBRe	$1.001 \cdot 10^{-14}$	$1.001 \cdot 10^{-14}$	0	$1.908 \cdot 10^{-19}$	$1.908 \cdot 10^{-19}$	0	
cdGRe	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1	
cdHRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-4}$	0 - 0	1	
cdWRe	$1.869 \cdot 10^{-14}$		0	$6.654 \cdot 10^{-1}$		9 0	
cdd	$4.619 \cdot 10^{-26}$		1	$5.128 \cdot 10^{-4}$		1	
cdd1	$4.619 \cdot 10^{-26}$		1	$5.128 \cdot 10^{-4}$	0	1	
ceBRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-4}$		1	
ceHRe	$4.619 \cdot 10^{-26}$		1	$5.128 \cdot 10^{-4}$		1	
ceWRe	$5.827 \cdot 10^{-26}$		1	$6.469 \cdot 10^{-4}$	0	1	
ced	$5.827 \cdot 10^{-26}$		1	$6.469 \cdot 10^{-4}$		1	
cee	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-4}$	0 - 0	1	

ceu	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cld	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cle	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cledqRe	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
clequ1Re	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
clequ3Re	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cll	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cll1	$-1.591 \cdot 10^{-11}$	$-1.591 \cdot 10^{-11}$	0	$4.822 \cdot 10^{-13}$ $4.822 \cdot 10^{-1}$	13 0
clq1	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
clq3	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
clu	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cqd1	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cqd8	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cqe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cqq1	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cqq11	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cqq3	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cqq31	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cqu1	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cqu8	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cquqd11Re	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cquqd1Re	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cquqd81Re	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cquqd8Re	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
cuBRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cuGRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cuHRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cuWRe	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
cud1	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1

cud8	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
cuu	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
cuu1	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
sm	0	0	0	0.001976	0.001976	0

1.49 $u\bar{u} \rightarrow u\bar{u}$

	interference				square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
сG	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1	
сН	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1	
сНВ	$1.138 \cdot 10^{-20}$	$5.315 \cdot 10^{-21}$	0.5329	$1.748 \cdot 10^{-33}$	$1.747 \cdot 10^{-33}$	0.0003901	
cHDD	$1.184 \cdot 10^{-7}$	$1.184 \cdot 10^{-7}$	0	$7.221 \cdot 10^{-10}$	$7.221 \cdot 10^{-10}$	0	
сHG	$-1.697 \cdot 10^{-21}$	$-1.693 \cdot 10^{-21}$	0.002593	$5.08 \cdot 10^{-32}$	$5.08 \cdot 10^{-32}$	$9.981 \cdot 10^{-6}$	
cHW	$3.753 \cdot 10^{-23}$	$4.193 \cdot 10^{-23}$	-0.1172	$3.116 \cdot 10^{-35}$	$3.117 \cdot 10^{-35}$	-0.0004003	
cHWB	$-7.599 \cdot 10^{-7}$	$-7.599 \cdot 10^{-7}$	0	$2.976 \cdot 10^{-8}$	$2.976 \cdot 10^{-8}$	0	
cHd	$2.967 \cdot 10^{-7}$	$2.967 \cdot 10^{-7}$	0	$4.536 \cdot 10^{-9}$	$4.536 \cdot 10^{-9}$	0	
сНе	$-2.183 \cdot 10^{-10}$	$-2.183 \cdot 10^{-10}$	0	$2.024 \cdot 10^{-13}$	$2.024 \cdot 10^{-13}$	0	
cHl1	$3.009 \cdot 10^{-7}$	$3.009 \cdot 10^{-7}$	0	$4.667 \cdot 10^{-9}$	$4.667 \cdot 10^{-9}$	0	
cH13	$-1.641 \cdot 10^{-9}$	$-1.641 \cdot 10^{-9}$	0	$1.144 \cdot 10^{-11}$	$1.144 \cdot 10^{-11}$	0	
cHq1	$-7.712 \cdot 10^{-7}$	$-7.712 \cdot 10^{-7}$	0	$3.065 \cdot 10^{-8}$	$3.065 \cdot 10^{-8}$	0	
cHq3	$1.937 \cdot 10^{-9}$	$1.937 \cdot 10^{-9}$	0	$1.592 \cdot 10^{-11}$	$1.592 \cdot 10^{-11}$	0	
сHu	$-4.012 \cdot 10^{-7}$	$-4.012 \cdot 10^{-7}$	0	$8.297 \cdot 10^{-9}$	$8.297 \cdot 10^{-9}$	0	
cHudRe	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1	
cW	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1	
cdBRe	$-7.557 \cdot 10^{-13}$	$-7.557 \cdot 10^{-13}$	0	$2.425 \cdot 10^{-18}$	$2.425 \cdot 10^{-18}$	0	
cdGRe	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1	
cdHRe	$1.032 \cdot 10^{-20}$	$4.251 \cdot 10^{-21}$	0.5879	$1.119 \cdot 10^{-3}$	$1.118 \cdot 10^{-3}$	0.000827	
cdWRe	$-1.411 \cdot 10^{-1}$	$-1.411 \cdot 10^{-13}$	0	$8.455 \cdot 10^{-1}$	$8.455 \cdot 10^{-13}$	8 0	

cdd	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cdd1	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
ceBRe	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
ceHRe	$6.523 \cdot 10^{-21}$	$4.578 \cdot 10^{-22}$	0.9298	$1.475 \cdot 10^{-35}$	$1.296 \cdot 10^{-35}$	0.1214
ceWRe	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
ced	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cee	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
ceu	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cld	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cle	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cledqRe	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
clequ1Re	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
clequ3Re	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cll	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cll1	$1.201 \cdot 10^{-9}$	$1.201 \cdot 10^{-9}$	0	$6.128 \cdot 10^{-12}$	$6.128 \cdot 10^{-12}$	0
clq1	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
clq3	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
clu	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cqd1	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cqd8	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cqe	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cqq1	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cqq11	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cqq3	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cqq31	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cqu1	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$		1
cqu8	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$		1
cquqd11Re	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cquqd1Re	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

cquqd81Re	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cquqd8Re	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cuBRe	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cuGRe	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cuHRe	$6.276 \cdot 10^{-21}$	$2.11 \cdot 10^{-22}$	0.9664	$4.602 \cdot 10^{-36}$	$2.755 \cdot 10^{-36}$	0.4014
cuWRe	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cud1	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cud8	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
cuu	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
cuu1	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1
sm	0	0	0	935.4	935.4	0

1.50 $zz \to W^+W^-$

		interfer	rence		square	
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
сНВ	$-1.287 \cdot 10^{-7}$	$-1.287 \cdot 10^{-7}$	0	$6.314 \cdot 10^{-14}$	$6.314 \cdot 10^{-14}$	0
cHDD	$-4.05 \cdot 10^{-8}$	$-4.05 \cdot 10^{-8}$	0	$6.247 \cdot 10^{-15}$	$6.247 \cdot 10^{-15}$	0
cHG	$4.5 \cdot 10^{-6}$	$4.5 \cdot 10^{-6}$	0	$7.709 \cdot 10^{-11}$	$7.709 \cdot 10^{-11}$	0
cHW	$-1.115 \cdot 10^{-7}$	$-1.115 \cdot 10^{-7}$	0	$4.73 \cdot 10^{-14}$	$4.73 \cdot 10^{-14}$	0
cHWB	$1.088 \cdot 10^{-7}$	$1.088 \cdot 10^{-7}$	0	$4.508 \cdot 10^{-14}$	$4.508 \cdot 10^{-14}$	0
cH13	-0.01085	-0.01085	0	0.00043	0.00043	0
сНq3	0.01085	0.01085	0	0.00043	0.00043	0
cdHRe	$-1.03 \cdot 10^{-7}$	$-1.03 \cdot 10^{-7}$	0	$4.038 \cdot 10^{-14}$	$4.038 \cdot 10^{-14}$	0
ceHRe	$-1.109 \cdot 10^{-8}$	$-1.109 \cdot 10^{-8}$	0	$4.684 \cdot 10^{-16}$	$4.684 \cdot 10^{-16}$	0
cll1	0.008136	0.008136	0	0.0002419	0.0002419	0
cuHRe	$-5.112 \cdot 10^{-9}$	$-5.112 \cdot 10^{-9}$	0	$9.954 \cdot 10^{-17}$	$9.954 \cdot 10^{-17}$	0
sm	0	0	0	45.95	45.95	0

2 By parameter point

2.1 cG

		$int\epsilon$	erference		squa	re
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
$HH \to z c \bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
$HH o zt\bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- o Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \to \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1

$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{ au}\bar{\nu}_{ au}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.2 cH

		$\mathrm{int}\epsilon$	erference		squa	re
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz o \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hbar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- o H d \bar d$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \to \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1

$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \rightarrow \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t \bar t o t \bar t$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.3 cHB

		interfere	ence		square	
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH \to HH$	$-1.857 \cdot 10^{-12}$	$-1.857 \cdot 10^{-12}$	0	$3.539 \cdot 10^{-14}$	$3.539 \cdot 10^{-14}$	0
$HH o H au^+ au^-$	$8.694 \cdot 10^{-24}$	$8.694 \cdot 10^{-24}$	0	$4.378 \cdot 10^{-23}$	$4.378 \cdot 10^{-23}$	0
$HH o Hbar{b}$	$1.728 \cdot 10^{-14}$	$1.728 \cdot 10^{-14}$	0	$7.634 \cdot 10^{-16}$	$7.634 \cdot 10^{-16}$	0
$HH o W^+W^-$	$-4.104 \cdot 10^{-10}$	$-4.104 \cdot 10^{-10}$	0	$1.252 \cdot 10^{-15}$	$1.252 \cdot 10^{-15}$	0
$HH \to W^+W^-\gamma$	$-6.412 \cdot 10^{-15}$	$-6.412 \cdot 10^{-15}$	0	$6.095 \cdot 10^{-21}$	$6.095 \cdot 10^{-21}$	0
$HH \to W^+ e^- \bar{\nu}_e$	$1.669 \cdot 10^{-18}$	$1.669 \cdot 10^{-18}$	0	$9.567 \cdot 10^{-24}$	$9.567 \cdot 10^{-24}$	0
$HH \to W^- u \bar{d}$	$9.255 \cdot 10^{-17}$	$9.255 \cdot 10^{-17}$	0	$4.151 \cdot 10^{-24}$	$4.151 \cdot 10^{-24}$	0
$HH \to z\bar{b}b$	$1.072 \cdot 10^{-16}$	$1.072 \cdot 10^{-16}$	0	$7.737 \cdot 10^{-24}$	$7.737 \cdot 10^{-24}$	0
$HH \to zc\bar{c}$	$-1.037 \cdot 10^{-17}$	$-1.037 \cdot 10^{-17}$	0	$1.203 \cdot 10^{-23}$	$1.203 \cdot 10^{-23}$	0
$HH \to z t \bar{t}$	$-1.453 \cdot 10^{-14}$	$-1.453 \cdot 10^{-14}$	0	$3.786 \cdot 10^{-21}$	$3.786 \cdot 10^{-21}$	0
$HH \rightarrow zz$	$-2.851 \cdot 10^{-10}$	$-2.851 \cdot 10^{-10}$	0	$6.214 \cdot 10^{-16}$	$6.214 \cdot 10^{-16}$	0
$Hz o \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1

$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0 1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$ 0 1
$W^+W^- \to H b \bar b$	$4.336 \cdot 10^{-13}$	$4.336 \cdot 10^{-13}$	0	$4.176 \cdot 10^{-18} 4.176 \cdot 10^{-18} \qquad 0$
$W^+W^- o Hc\bar{c}$	$2.288 \cdot 10^{-17}$	$2.288 \cdot 10^{-17}$	0	$5.897 \cdot 10^{-23}$ $5.897 \cdot 10^{-23}$ 0
$W^+W^- \to H d\bar{d}$	$1.72 \cdot 10^{-22}$	$1.727 \cdot 10^{-22}$	-0.004096	$4.747 \cdot 10^{-27} 4.747 \cdot 10^{-27} \qquad 0$
$W^+W^- \to W^+W^-$	$-2.222 \cdot 10^{-7}$	$-2.222 \cdot 10^{-7}$	0	$2.382 \cdot 10^{-13}$ $2.382 \cdot 10^{-13}$ 0
$ u_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0 1
$b\bar{b} \to \mu^+ \mu^-$	$9.521 \cdot 10^{-25}$	$9.501 \cdot 10^{-25}$	0.002123	$3.789 \cdot 10^{-26} 3.789 \cdot 10^{-26} \qquad \qquad 0$
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$ 0 1
$b\bar{b} o b\bar{b}$	$2.117 \cdot 10^{-16}$	$2.117 \cdot 10^{-16}$	$-1.417 \cdot 10^{-7}$	$1.19 \cdot 10^{-21}$ $1.19 \cdot 10^{-21}$ 0
$b\bar{b} o t\bar{t}$	$-8.499 \cdot 10^{-16}$	$-8.499 \cdot 10^{-16}$	0	$2.676 \cdot 10^{-19} 2.676 \cdot 10^{-19} 0$
$c\bar{c} \to \mu^+ \mu^-$	$7.87 \cdot 10^{-26}$	$7.772 \cdot 10^{-26}$	0.01252	$3.498 \cdot 10^{-27} 3.498 \cdot 10^{-27} \qquad 0$
$d\bar{d} \to c\bar{c}$	$2.282 \cdot 10^{-25}$	$9.023 \cdot 10^{-28}$	0.996	$2.05 \cdot 10^{-29} \qquad 2.05 \cdot 10^{-29} \qquad \qquad 0$
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$ 0 1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$ 0 1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	$8.791 \cdot 10^{-29}$	1	$3.7 \cdot 10^{-30} \qquad 3.7 \cdot 10^{-30} \qquad \qquad 0$
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	$3.855 \cdot 10^{-32}$	1	$1.699 \cdot 10^{-33} 1.699 \cdot 10^{-33} \qquad 0$
$e^+e^- \rightarrow e^+e^-$	$1.213 \cdot 10^{-18}$	$1.036 \cdot 10^{-20}$	0.9915	$1.438 \cdot 10^{-34} 7.608 \cdot 10^{-36} \qquad 0.9471$
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$ 0 1
$s\bar{s} \to s\bar{s}$	$2.337 \cdot 10^{-20}$	$2.337 \cdot 10^{-20}$	$-2.631 \cdot 10^{-5}$	$9.074 \cdot 10^{-29} 9.074 \cdot 10^{-29} -1.102 \cdot 10^{-7}$
$t\bar{t} \to t\bar{t}$	$-4.014 \cdot 10^{-12}$	$-4.014 \cdot 10^{-12}$	0	$7.053 \cdot 10^{-15} 7.053 \cdot 10^{-15} \qquad 0$
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0 1
$u\bar{u} \to u\bar{u}$	$1.138 \cdot 10^{-20}$	$5.315 \cdot 10^{-21}$	0.5329	$1.748 \cdot 10^{-33} 1.747 \cdot 10^{-33} 0.0003901$
$zz \to W^+W^-$	$-1.287 \cdot 10^{-7}$	$-1.287 \cdot 10^{-7}$	0	$6.314 \cdot 10^{-14} 6.314 \cdot 10^{-14} \qquad 0$

2.4 cHDD

interference					square	
mod1	mod2	$1-\mathtt{mod}2/\mathtt{m}$	od1 m	od1	mod2	1 - mod2/mod1

HH o HH	$-5.841 \cdot 10^{-13} -5.841 \cdot 10^{-13}$	0	$3.501 \cdot 10^{-15} 3.501 \cdot 10^{-15}$	0
$HH \to H \tau^+ \tau^-$	$2.735 \cdot 10^{-24}$ $2.735 \cdot 10^{-24}$	0	$4.331 \cdot 10^{-24} 4.331 \cdot 10^{-24}$	0
$HH o Hbar{b}$	$5.435 \cdot 10^{-15}$ $5.435 \cdot 10^{-15}$	0	$7.553 \cdot 10^{-17}$ $7.553 \cdot 10^{-17}$	0
$HH \rightarrow W^+W^-$	$-1.291 \cdot 10^{-10} -1.291 \cdot 10^{-10}$	0	$1.239 \cdot 10^{-16}$ $1.239 \cdot 10^{-16}$	0
$HH \to W^+W^-\gamma$	$-2.017 \cdot 10^{-15} -2.017 \cdot 10^{-15}$	0	$6.03 \cdot 10^{-22}$ $6.03 \cdot 10^{-22}$	0
$HH \to W^+ e^- \bar{\nu}_e$	$5.25 \cdot 10^{-19}$ $5.25 \cdot 10^{-19}$	0	$9.466 \cdot 10^{-25}$ $9.466 \cdot 10^{-25}$	0
$HH \to W^- u \bar{d}$	$2.911 \cdot 10^{-17}$ $2.911 \cdot 10^{-17}$	0	$4.107 \cdot 10^{-25} 4.107 \cdot 10^{-25}$	0
$HH \to z\bar{b}b$	$-6.543 \cdot 10^{-14} -6.543 \cdot 10^{-14}$	0	$2.963 \cdot 10^{-17}$ $2.963 \cdot 10^{-17}$	0
$HH \to zc\bar{c}$	$-7.188 \cdot 10^{-15} -7.188 \cdot 10^{-15}$	0	$1.404 \cdot 10^{-17}$ $1.404 \cdot 10^{-17}$	0
$HH \to zt\bar{t}$	$-5.457 \cdot 10^{-11} -5.457 \cdot 10^{-11}$	0	$5.914 \cdot 10^{-14} 5.914 \cdot 10^{-14}$	0
$HH \rightarrow zz$	$-2.741 \cdot 10^{-7} -2.741 \cdot 10^{-7}$	0	$6.23 \cdot 10^{-10}$ $6.23 \cdot 10^{-10}$	0
$Hz o \mu^+\mu^-$	$1.52 \cdot 10^{-12}$ $1.52 \cdot 10^{-12}$	0	$3.297 \cdot 10^{-15} 3.297 \cdot 10^{-15}$	0
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$2.693 \cdot 10^{-12}$ $2.693 \cdot 10^{-12}$	0	$5.836 \cdot 10^{-15}$ $5.836 \cdot 10^{-15}$	0
$Hz \to s\bar{s}$	$6.573 \cdot 10^{-12}$ $6.573 \cdot 10^{-12}$	0	$1.425 \cdot 10^{-14} 1.425 \cdot 10^{-14}$	0
$Hz \to t\bar{t}$	$-1.71 \cdot 10^{-8}$ $-1.71 \cdot 10^{-8}$	0	$1.273 \cdot 10^{-11} 1.273 \cdot 10^{-11}$	0
$W^+W^- o Hb\bar{b}$	$8.092 \cdot 10^{-9}$ $8.092 \cdot 10^{-9}$	0	$2.036 \cdot 10^{-12} 2.036 \cdot 10^{-12}$	0
$W^+W^- o Hc\bar{c}$	$-7.311 \cdot 10^{-12} -7.311 \cdot 10^{-12}$	0	$1.08 \cdot 10^{-14}$ $1.08 \cdot 10^{-14}$	0
$W^+W^- \to H d\bar{d}$	$-1.375 \cdot 10^{-11} -1.375 \cdot 10^{-11}$	0	$4.021 \cdot 10^{-14} 4.021 \cdot 10^{-14}$	0
$W^+W^- o W^+W^-$	$-0.0005741 \qquad -0.0005741$	0	$1.225 \cdot 10^{-6}$ $1.225 \cdot 10^{-6}$	0
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$8.216 \cdot 10^{-12}$ $8.216 \cdot 10^{-12}$	0	$1.78 \cdot 10^{-14}$ $1.78 \cdot 10^{-14}$	0
$b\bar{b} o \mu^+\mu^-$	$3.946 \cdot 10^{-14}$ $3.946 \cdot 10^{-14}$	0	$5.938 \cdot 10^{-16} 5.938 \cdot 10^{-16}$	0
$b\bar{b} o u_e \bar{ u}_e$	$1.533 \cdot 10^{-12} \qquad 1.533 \cdot 10^{-12}$	0	$3.321 \cdot 10^{-15} 3.321 \cdot 10^{-15}$	0
$b\bar{b} o b\bar{b}$	$-5.551 \cdot 10^{-10} -5.551 \cdot 10^{-10}$	0	$3.207 \cdot 10^{-13} 3.207 \cdot 10^{-13}$	0
$b\bar{b} o t\bar{t}$	$-5.683 \cdot 10^{-12} -5.683 \cdot 10^{-12}$	0	$1.137 \cdot 10^{-15}$ $1.137 \cdot 10^{-15}$	0
$c\bar{c} \to \mu^+ \mu^-$	$1.923 \cdot 10^{-14}$ $1.923 \cdot 10^{-14}$	0	$4.54 \cdot 10^{-16}$ $4.54 \cdot 10^{-16}$	0
$d\bar{d} \to c\bar{c}$	$4.436 \cdot 10^{-12} \qquad 4.436 \cdot 10^{-12}$	0	$6.225 \cdot 10^{-15} 6.225 \cdot 10^{-15}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$9.609 \cdot 10^{-10}$ $9.609 \cdot 10^{-10}$	0	$2.082 \cdot 10^{-12} 2.082 \cdot 10^{-12}$	0
$e^+\nu_e \to e^+\nu_e$	$8.219 \cdot 10^{-10}$ $8.219 \cdot 10^{-10}$	0	$9.915 \cdot 10^{-13} 9.915 \cdot 10^{-13}$	0
$e^+\tau^- \to e^+\tau^-$	$-1.374 \cdot 10^{-10} -1.374 \cdot 10^{-10}$	0	$3.009 \cdot 10^{-13} 3.009 \cdot 10^{-13}$	0

$e^+e^- \to \mu^+\mu^-$	$-1.156 \cdot 10^{-12} -1.156 \cdot 10^{-12}$	0	$1.284 \cdot 10^{-15} 1.284 \cdot 10^{-15}$
$e^+e^- \rightarrow e^+e^-$	$2.348 \cdot 10^{-5}$ $2.348 \cdot 10^{-5}$	0	$5.276 \cdot 10^{-8}$ $5.276 \cdot 10^{-8}$ 0
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.216 \cdot 10^{-12}$ $1.216 \cdot 10^{-12}$	0	$2.636 \cdot 10^{-15} 2.636 \cdot 10^{-15}$
$s\bar{s} \to s\bar{s}$	$-1.2 \cdot 10^{-11}$ $-1.2 \cdot 10^{-11}$	0	$4.723 \cdot 10^{-15} 4.723 \cdot 10^{-15}$
$t\bar{t} \to t\bar{t}$	$-5.298 \cdot 10^{-10} -5.298 \cdot 10^{-10}$	0	$3.61 \cdot 10^{-12} 3.61 \cdot 10^{-12} 0$
$u\bar{u} \to \nu_e \bar{\nu}_e$	$9.015 \cdot 10^{-13}$ $9.015 \cdot 10^{-13}$	0	$1.954 \cdot 10^{-15} 1.954 \cdot 10^{-15}$
$u\bar{u} \to u\bar{u}$	$1.184 \cdot 10^{-7}$ $1.184 \cdot 10^{-7}$	0	$7.221 \cdot 10^{-10} 7.221 \cdot 10^{-10} \qquad 0$
$zz \to W^+W^-$	$-4.05 \cdot 10^{-8}$ $-4.05 \cdot 10^{-8}$	0	$6.247 \cdot 10^{-15} 6.247 \cdot 10^{-15}$

2.5 cHG

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to HH$	$1.214 \cdot 10^{-11}$	$1.214 \cdot 10^{-11}$	0	$3.889 \cdot 10^{-12}$	$3.889 \cdot 10^{-12}$	0	
$HH \to H \tau^+ \tau^-$	$-1.661 \cdot 10^{-20}$	$-1.661 \cdot 10^{-20}$	0	$3.567 \cdot 10^{-20}$	$3.567 \cdot 10^{-20}$	0	
$HH \to Hb\bar{b}$	$6.02 \cdot 10^{-19}$	$6.02 \cdot 10^{-19}$	0	$7.305 \cdot 10^{-19}$	$7.305 \cdot 10^{-19}$	0	
$HH \to W^+W^-$	$1.745 \cdot 10^{-8}$	$1.745 \cdot 10^{-8}$	0	$1.528 \cdot 10^{-12}$	$1.528 \cdot 10^{-12}$	0	
$HH o W^+W^-\gamma$	$2.375 \cdot 10^{-13}$	$2.375 \cdot 10^{-13}$	0	$7.905 \cdot 10^{-18}$	$7.905 \cdot 10^{-18}$	0	
$HH \to W^+ e^- \bar{\nu}_e$	$-8.986 \cdot 10^{-15}$	$-8.986 \cdot 10^{-15}$	0	$1.969 \cdot 10^{-20}$	$1.969 \cdot 10^{-20}$	0	
$HH \to W^- u \bar{d}$	$-1.064 \cdot 10^{-13}$	$-1.064 \cdot 10^{-13}$	0	$1.429 \cdot 10^{-18}$	$1.429 \cdot 10^{-18}$	0	
$HH \to z\bar{b}b$	$-1.219 \cdot 10^{-14}$	$-1.219 \cdot 10^{-14}$	0	$1.342 \cdot 10^{-19}$	$1.342 \cdot 10^{-19}$	0	
$HH \to zc\bar{c}$	$1.096 \cdot 10^{-15}$	$1.096 \cdot 10^{-15}$	0	$3.954 \cdot 10^{-21}$	$3.954 \cdot 10^{-21}$	0	
$HH \to zt\bar{t}$	$-1.14 \cdot 10^{-12}$	$-1.14 \cdot 10^{-12}$	0	$1.077 \cdot 10^{-18}$	$1.077 \cdot 10^{-18}$	0	
$HH \rightarrow zz$	$1.258 \cdot 10^{-8}$	$1.258 \cdot 10^{-8}$	0	$7.587 \cdot 10^{-13}$	$7.587 \cdot 10^{-13}$	0	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$-8.146 \cdot 10^{-13}$	$-8.146 \cdot 10^{-13}$	0	$1.471 \cdot 10^{-16}$	$1.471 \cdot 10^{-16}$	0	

$W^+W^- \to Hc\bar{c}$	$-3.376 \cdot 10^{-16}$	$-3.376 \cdot 10^{-16}$	0	$3.247 \cdot 10^{-20}$ 3	$.247 \cdot 10^{-20}$	0
$W^+W^- o Hd\bar{d}$	$3.83 \cdot 10^{-22}$	$3.832 \cdot 10^{-22}$	-0.0004141	$5.325 \cdot 10^{-25}$ 5	$.325 \cdot 10^{-25}$	0
$W^+W^- \rightarrow W^+W^-$	$5.718 \cdot 10^{-6}$	$5.718 \cdot 10^{-6}$	0	$2.936 \cdot 10^{-10}$	$2.936 \cdot 10^{-10}$	0
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \to \mu^+ \mu^-$	$-2.725 \cdot 10^{-23}$	$-2.728 \cdot 10^{-23}$	-0.001148	$4.626 \cdot 10^{-23}$	$4.626 \cdot 10^{-23}$	0
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-5.028 \cdot 10^{-15}$	$-5.028 \cdot 10^{-15}$	$1.989 \cdot 10^{-8}$	$1.073 \cdot 10^{-18}$	$1.073 \cdot 10^{-18}$	0
$b\bar{b} o t\bar{t}$	$5.538 \cdot 10^{-14}$	$5.538 \cdot 10^{-14}$	0	$3.267 \cdot 10^{-16}$	$3.267 \cdot 10^{-16}$	0
$c\bar{c} \to \mu^+ \mu^-$	$-2.898 \cdot 10^{-24}$	$-2.947 \cdot 10^{-24}$	-0.01703	$4.27 \cdot 10^{-24}$	$4.27 \cdot 10^{-24}$	0
$d\bar{d} \to c\bar{c}$	$6.217 \cdot 10^{-26}$	$-1.896 \cdot 10^{-26}$	1.305	$2.503 \cdot 10^{-26}$	$2.503 \cdot 10^{-26}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.676 \cdot 10^{-24}$	$-1.026 \cdot 10^{-27}$	0.9994	$1.561 \cdot 10^{-27}$	$1.561 \cdot 10^{-27}$	0
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	$-1.345 \cdot 10^{-30}$	1	$2.074 \cdot 10^{-30}$	$2.074 \cdot 10^{-30}$	0
$e^+e^- \rightarrow e^+e^-$	$-3.001 \cdot 10^{-22}$	$-2.991 \cdot 10^{-22}$	0.003348	$6.607 \cdot 10^{-35}$	$6.6 \cdot 10^{-35}$	0.001013
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-7.279 \cdot 10^{-17}$	$-7.279 \cdot 10^{-17}$	$2.844 \cdot 10^{-6}$	$3.747 \cdot 10^{-24}$		0
$t\bar{t} \to t\bar{t}$		$3.064 \cdot 10^{-11}$	0	$8.69 \cdot 10^{-13}$	$8.69 \cdot 10^{-13}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-1.697 \cdot 10^{-21}$	$-1.693 \cdot 10^{-21}$	0.002593	$5.08 \cdot 10^{-32}$	$5.08 \cdot 10^{-32}$	$9.981 \cdot 10^{-6}$
$zz o W^+W^-$	$4.5 \cdot 10^{-6}$	$4.5 \cdot 10^{-6}$	0	$7.709 \cdot 10^{-11}$	$7.709 \cdot 10^{-11}$	0

2.6 cHW

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
HH o HH	$-3.007 \cdot 10^{-13}$	$-3.007 \cdot 10^{-13}$	0	$2.387 \cdot 10^{-15}$	$2.387 \cdot 10^{-15}$	0	
$HH \to H au^+ au^-$	$4.114 \cdot 10^{-22}$	$4.114 \cdot 10^{-22}$	0	$2.189 \cdot 10^{-23}$	$2.189 \cdot 10^{-23}$	0	
$HH o Hbar{b}$	$-1.491 \cdot 10^{-20}$	$-1.491 \cdot 10^{-20}$	0	$4.482 \cdot 10^{-22}$	$4.482 \cdot 10^{-22}$	0	

$HH \to W^+W^-$	$-4.323 \cdot 10^{-10}$ -	$-4.323 \cdot 10^{-10}$	0	$9.379 \cdot 10^{-16} 9.379 \cdot 10^{-16} \qquad 0$
$HH \rightarrow W^+W^-\gamma$	$-5.883 \cdot 10^{-15}$ -	$-5.883 \cdot 10^{-15}$	0	$4.851 \cdot 10^{-21} 4.851 \cdot 10^{-21} \qquad 0$
$HH \to W^+ e^- \bar{\nu}_e$	$2.226 \cdot 10^{-16}$	$2.226 \cdot 10^{-16}$	0	$1.208 \cdot 10^{-23}$ $1.208 \cdot 10^{-23}$ 0
$HH \to W^- u \bar{d}$	$2.635 \cdot 10^{-15}$	$2.635 \cdot 10^{-15}$	0	$8.769 \cdot 10^{-22} 8.769 \cdot 10^{-22} \qquad 0$
$HH o z \bar{b} b$	$3.021 \cdot 10^{-16}$	$3.021 \cdot 10^{-16}$	0	$8.235 \cdot 10^{-23} 8.235 \cdot 10^{-23}$
$HH \to z c \bar{c}$	$-2.716 \cdot 10^{-17}$ -	$-2.716 \cdot 10^{-17}$	0	$2.427 \cdot 10^{-24}$ $2.427 \cdot 10^{-24}$ 0
$HH \to z t \bar{t}$	$2.825 \cdot 10^{-14}$	$2.825 \cdot 10^{-14}$	0	$6.611 \cdot 10^{-22} 6.611 \cdot 10^{-22} $
$HH \rightarrow zz$	$-3.116 \cdot 10^{-10}$ -	$-3.116 \cdot 10^{-10}$	0	$4.656 \cdot 10^{-16} 4.656 \cdot 10^{-16} \qquad 0$
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$ 0 1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$ 0 1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$ 0 1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$ 0 1
$W^+W^- \to H b \bar b$	$2.018 \cdot 10^{-14}$	$2.018 \cdot 10^{-14}$	0	$9.025 \cdot 10^{-20} 9.025 \cdot 10^{-20} \qquad 0$
$W^+W^- \to Hc\bar{c}$	$8.364 \cdot 10^{-18}$	$8.364 \cdot 10^{-18}$	0	$1.993 \cdot 10^{-23}$ $1.993 \cdot 10^{-23}$ 0
$W^+W^- \to H d\bar{d}$	$-9.65 \cdot 10^{-24}$ -	$-9.491 \cdot 10^{-24}$	0.01643	$3.268 \cdot 10^{-28} 3.268 \cdot 10^{-28} \qquad 0$
$W^+W^- \to W^+W^-$	$-1.416 \cdot 10^{-7}$	$-1.416 \cdot 10^{-7}$	0	$1.801 \cdot 10^{-13} 1.801 \cdot 10^{-13}$
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$ 0 1
$b\bar{b} \to \mu^+ \mu^-$	$7.072 \cdot 10^{-25}$	$6.759 \cdot 10^{-25}$	0.04425	$2.838 \cdot 10^{-26} 2.838 \cdot 10^{-26} 0$
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$ 0 1
$b\bar{b} o b\bar{b}$	$1.246 \cdot 10^{-16}$	$1.246 \cdot 10^{-16}$	$-8.028 \cdot 10^{-8}$	$6.582 \cdot 10^{-22} 6.582 \cdot 10^{-22} \qquad 0$
$b\bar{b} o t\bar{t}$	$-1.372 \cdot 10^{-15}$	$-1.372 \cdot 10^{-15}$	0	$2.005 \cdot 10^{-19} 2.005 \cdot 10^{-19} 0$
$c\bar{c} \to \mu^+ \mu^-$	$1.224 \cdot 10^{-25}$	$7.301 \cdot 10^{-26}$	0.4034	$2.62 \cdot 10^{-27} \qquad 2.62 \cdot 10^{-27} \qquad \qquad 0$
$d\bar{d} \to c\bar{c}$	$8.159 \cdot 10^{-26}$	$4.696 \cdot 10^{-28}$	0.9942	$1.536 \cdot 10^{-29} 1.536 \cdot 10^{-29} \qquad 0$
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$ 0 1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$ 0 1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	$2.543 \cdot 10^{-29}$	1	$9.576 \cdot 10^{-31} 9.576 \cdot 10^{-31} \qquad 0$
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	$3.333 \cdot 10^{-32}$	1	$1.273 \cdot 10^{-33} 1.273 \cdot 10^{-33} \qquad 0$
$e^+e^- \rightarrow e^+e^-$	$6.404 \cdot 10^{-24}$	$7.409 \cdot 10^{-24}$	-0.1569	$3.887 \cdot 10^{-38} 4.05 \cdot 10^{-38} -0.04194$
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$ 0 1

$s\bar{s} \to s\bar{s}$	$1.803 \cdot 10^{-18}$	$1.803 \cdot 10^{-18}$	-0.0001146	$2.299 \cdot 10^{-27}$	$2.299 \cdot 10^{-27}$	$-1.74 \cdot 10^{-7}$
$t\bar{t} o t\bar{t}$	$-7.59 \cdot 10^{-13}$	$-7.59 \cdot 10^{-13}$	0	$5.332 \cdot 10^{-16}$	$5.332 \cdot 10^{-16}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$3.753 \cdot 10^{-23}$	$4.193 \cdot 10^{-23}$	-0.1172	$3.116 \cdot 10^{-35}$	$3.117 \cdot 10^{-35}$	-0.0004003
$zz \to W^+W^-$	$-1.115 \cdot 10^{-7}$	$-1.115 \cdot 10^{-7}$	0	$4.73 \cdot 10^{-14}$	$4.73 \cdot 10^{-14}$	0

2.7 cHWB

		interfere	ence		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
HH o HH	$1.569 \cdot 10^{-12}$	$1.569 \cdot 10^{-12}$	0	$2.526 \cdot 10^{-14}$	$2.526 \cdot 10^{-14}$	0	
$HH o H au^+ au^-$	$-7.346 \cdot 10^{-24}$	$-7.346 \cdot 10^{-24}$	0	$3.125 \cdot 10^{-23}$	$3.125 \cdot 10^{-23}$	0	
$HH o Hbar{b}$	$-1.46 \cdot 10^{-14}$	$-1.46 \cdot 10^{-14}$	0	$5.45 \cdot 10^{-16}$	$5.45 \cdot 10^{-16}$	0	
$HH o W^+W^-$	$3.468 \cdot 10^{-10}$	$3.468 \cdot 10^{-10}$	0	$8.938 \cdot 10^{-16}$	$8.938 \cdot 10^{-16}$	0	
$HH o W^+W^-\gamma$	$5.418 \cdot 10^{-15}$	$5.418 \cdot 10^{-15}$	0	$4.351 \cdot 10^{-21}$	$4.351 \cdot 10^{-21}$	0	
$HH o W^+ e^- \bar{\nu}_e$	$-1.41 \cdot 10^{-18}$	$-1.41 \cdot 10^{-18}$	0	$6.83 \cdot 10^{-24}$	$6.83 \cdot 10^{-24}$	0	
$HH \to W^- u \bar{d}$	$-7.819 \cdot 10^{-17}$	$-7.819 \cdot 10^{-17}$	0	$2.963 \cdot 10^{-24}$	$2.963 \cdot 10^{-24}$	0	
$HH o z \bar{b} b$	$4.202 \cdot 10^{-13}$	$4.202 \cdot 10^{-13}$	0	$1.221 \cdot 10^{-15}$	$1.221 \cdot 10^{-15}$	0	
$HH \to z c \bar{c}$	$4.614 \cdot 10^{-14}$	$4.614 \cdot 10^{-14}$	0	$5.785 \cdot 10^{-16}$	$5.785 \cdot 10^{-16}$	0	
$HH o zt\bar{t}$	$3.503 \cdot 10^{-10}$	$3.503 \cdot 10^{-10}$	0	$2.437 \cdot 10^{-12}$	$2.437 \cdot 10^{-12}$	0	
$HH \rightarrow zz$	$1.759 \cdot 10^{-6}$	$1.759 \cdot 10^{-6}$	0	$2.567 \cdot 10^{-8}$	$2.567 \cdot 10^{-8}$	0	
$Hz \to \mu^+\mu^-$	$-9.757 \cdot 10^{-12}$	$-9.757 \cdot 10^{-12}$	0	$1.359 \cdot 10^{-13}$	$1.359 \cdot 10^{-13}$	0	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$-1.729 \cdot 10^{-11}$	$-1.729 \cdot 10^{-11}$	0	$2.405 \cdot 10^{-13}$	$2.405 \cdot 10^{-13}$	0	
$Hz \to s\bar{s}$	$-4.22 \cdot 10^{-11}$	$-4.22 \cdot 10^{-11}$	0	$5.874 \cdot 10^{-13}$	$5.874 \cdot 10^{-13}$	0	
$Hz \to t\bar{t}$	$1.098 \cdot 10^{-7}$	$1.098 \cdot 10^{-7}$	0	$5.246 \cdot 10^{-10}$	$5.246 \cdot 10^{-10}$	0	
$W^+W^- o Hb\bar{b}$	$-5.195 \cdot 10^{-8}$	$-5.195 \cdot 10^{-8}$	0	$8.392 \cdot 10^{-11}$	$8.392 \cdot 10^{-11}$	0	
$W^+W^- \to H c \bar c$	$4.694 \cdot 10^{-11}$	$4.694 \cdot 10^{-11}$	0	$4.453 \cdot 10^{-13}$	$4.453 \cdot 10^{-13}$	0	
$W^+W^- o Hd\bar{d}$	$8.829 \cdot 10^{-11}$	$8.829 \cdot 10^{-11}$	0	$1.657 \cdot 10^{-12}$	$1.657 \cdot 10^{-12}$	0	
$W^+W^- \to W^+W^-$	0.003685	0.003685	0	$5.047 \cdot 10^{-5}$	$5.047 \cdot 10^{-5}$	0	

$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$-5.275 \cdot 10^{-11} -5.275 \cdot 10^{-11}$	0	$7.338 \cdot 10^{-13} 7.338 \cdot 10^{-13} \qquad 0$
$b\bar{b} \rightarrow \mu^+ \mu^-$	$-2.533 \cdot 10^{-13} -2.533 \cdot 10^{-13}$	0	$2.448 \cdot 10^{-14} 2.448 \cdot 10^{-14} 0$
$b\bar{b} o u_e \bar{ u}_e$	$-9.841 \cdot 10^{-12} -9.841 \cdot 10^{-12}$	0	$1.369 \cdot 10^{-13} 1.369 \cdot 10^{-13}$
$b\bar{b} o b\bar{b}$	$3.564 \cdot 10^{-9}$ $3.564 \cdot 10^{-9}$	0	$1.322 \cdot 10^{-11} 1.322 \cdot 10^{-11} \qquad 0$
$b\bar{b} \to t\bar{t}$	$3.649 \cdot 10^{-11}$ $3.649 \cdot 10^{-11}$	0	$4.688 \cdot 10^{-14} 4.688 \cdot 10^{-14} \qquad 0$
$c\bar{c} \to \mu^+ \mu^-$	$-1.235 \cdot 10^{-13} -1.235 \cdot 10^{-13}$	0	$1.871 \cdot 10^{-14} 1.871 \cdot 10^{-14} \qquad 0$
$d\bar{d} \to c\bar{c}$	$-2.848 \cdot 10^{-11} -2.848 \cdot 10^{-11}$	0	$2.566 \cdot 10^{-13} 2.566 \cdot 10^{-13} \qquad 0$
$e^+\nu_\mu \to e^+\nu_\mu$	$-6.169 \cdot 10^{-9}$ $-6.169 \cdot 10^{-9}$	0	$8.582 \cdot 10^{-11} 8.582 \cdot 10^{-11} \qquad 0$
$e^+\nu_e \to e^+\nu_e$	$-5.277 \cdot 10^{-9}$ $-5.277 \cdot 10^{-9}$	0	$4.087 \cdot 10^{-11} 4.087 \cdot 10^{-11} \qquad 0$
$e^+\tau^- \to e^+\tau^-$	$8.824 \cdot 10^{-10}$ $8.824 \cdot 10^{-10}$	0	$1.24 \cdot 10^{-11}$ $1.24 \cdot 10^{-11}$ 0
$e^+e^- \rightarrow \mu^+\mu^-$	$7.423 \cdot 10^{-12} \qquad 7.423 \cdot 10^{-12}$	0	$5.294 \cdot 10^{-14} 5.294 \cdot 10^{-14} \qquad 0$
$e^+e^- \rightarrow e^+e^-$	$-0.0001507 \qquad -0.0001507$	0	$2.175 \cdot 10^{-6}$ $2.175 \cdot 10^{-6}$ 0
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$-7.809 \cdot 10^{-12} -7.809 \cdot 10^{-12}$	0	$1.086 \cdot 10^{-13} 1.086 \cdot 10^{-13}$
$s\bar{s} \to s\bar{s}$	$7.706 \cdot 10^{-11}$ $7.706 \cdot 10^{-11}$	0	$1.947 \cdot 10^{-13} 1.947 \cdot 10^{-13} \qquad 0$
$t\bar{t} \to t\bar{t}$	$3.396 \cdot 10^{-9}$ $3.396 \cdot 10^{-9}$	0	$1.487 \cdot 10^{-10} 1.487 \cdot 10^{-10} \qquad 0$
$u\bar{u} \to \nu_e \bar{\nu}_e$	$-5.788 \cdot 10^{-12} -5.788 \cdot 10^{-12}$	0	$8.052 \cdot 10^{-14} 8.052 \cdot 10^{-14}$
$u\bar{u} \to u\bar{u}$	$-7.599 \cdot 10^{-7}$ $-7.599 \cdot 10^{-7}$	0	$2.976 \cdot 10^{-8} 2.976 \cdot 10^{-8} 0$
$zz \to W^+W^-$	$1.088 \cdot 10^{-7}$ $1.088 \cdot 10^{-7}$	0	$4.508 \cdot 10^{-14} 4.508 \cdot 10^{-14} \qquad 0$

2.8 cHd

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$-1.641 \cdot 10^{-13}$	$-1.641 \cdot 10^{-13}$	0	$1.861 \cdot 10^{-16}$	$1.861 \cdot 10^{-16}$	0	
$HH \to zc\bar{c}$	$-1.801 \cdot 10^{-14}$	$-1.801 \cdot 10^{-14}$	0	$8.815 \cdot 10^{-17}$	$8.815 \cdot 10^{-17}$	0	
$HH \to z t \bar t$	$-1.368 \cdot 10^{-10}$	$-1.368 \cdot 10^{-10}$	0	$3.715 \cdot 10^{-13}$	$3.715 \cdot 10^{-13}$	0	
$HH \rightarrow zz$	$-6.867 \cdot 10^{-7}$	$-6.867 \cdot 10^{-7}$	0	$3.912 \cdot 10^{-9}$	$3.912 \cdot 10^{-9}$	0	
$Hz \to \mu^+\mu^-$	$3.809 \cdot 10^{-12}$	$3.809 \cdot 10^{-12}$	0	$2.071 \cdot 10^{-14}$	$2.071 \cdot 10^{-14}$	0	
$Hz o u_{ au} \bar{ u}_{ au}$	$6.75 \cdot 10^{-12}$	$6.75 \cdot 10^{-12}$	0	$3.666 \cdot 10^{-14}$	$3.666 \cdot 10^{-14}$	0	

$Hz \to s\bar{s}$	$1.647 \cdot 10^{-11}$	$1.647 \cdot 10^{-11}$	0	$8.953 \cdot 10^{-14}$	$8.953 \cdot 10^{-14}$	0
$Hz \to t\bar{t}$	$-4.286 \cdot 10^{-8}$	$-4.286 \cdot 10^{-8}$	0	$7.995 \cdot 10^{-11}$	$7.995 \cdot 10^{-11}$	0
$W^+W^- \to Hb\bar{b}$	$2.028 \cdot 10^{-8}$	$2.028 \cdot 10^{-8}$	0	$1.279 \cdot 10^{-11}$	$1.279 \cdot 10^{-11}$	0
$W^+W^- \to Hc\bar{c}$	$-1.833 \cdot 10^{-11}$	$-1.833 \cdot 10^{-11}$	0	$6.786 \cdot 10^{-14}$	$6.786 \cdot 10^{-14}$	0
$W^+W^- \to H d\bar{d}$	$-3.447 \cdot 10^{-11}$	$-3.447 \cdot 10^{-11}$	0	$2.526 \cdot 10^{-13}$	$2.526 \cdot 10^{-13}$	0
$W^+W^- o W^+W^-$	-0.001439	-0.001439	0	$7.691 \cdot 10^{-6}$	$7.691 \cdot 10^{-6}$	0
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.059 \cdot 10^{-11}$	$2.059 \cdot 10^{-11}$	0	$1.118 \cdot 10^{-13}$	$1.118 \cdot 10^{-13}$	0
$b\bar{b} \rightarrow \mu^+ \mu^-$	$9.89 \cdot 10^{-14}$	$9.89 \cdot 10^{-14}$	0	$3.73 \cdot 10^{-15}$	$3.73 \cdot 10^{-15}$	0
$b\bar{b} o u_e \bar{ u}_e$	$3.842 \cdot 10^{-12}$	$3.842 \cdot 10^{-12}$	0	$2.086 \cdot 10^{-14}$	$2.086 \cdot 10^{-14}$	0
$b\bar{b} o b\bar{b}$	$-1.391 \cdot 10^{-9}$	$-1.391 \cdot 10^{-9}$	0	$2.015 \cdot 10^{-12}$	$2.015 \cdot 10^{-12}$	0
$b\bar{b} o t\bar{t}$	$-1.424 \cdot 10^{-11}$	$-1.424 \cdot 10^{-11}$	0	$7.146 \cdot 10^{-15}$	$7.146 \cdot 10^{-15}$	0
$c\bar{c} \to \mu^+ \mu^-$	$4.82 \cdot 10^{-14}$	$4.82 \cdot 10^{-14}$	0	$2.852 \cdot 10^{-15}$	$2.852 \cdot 10^{-15}$	0
$d\bar{d} \to c\bar{c}$	$1.112 \cdot 10^{-11}$	$1.112 \cdot 10^{-11}$	0	$3.911 \cdot 10^{-14}$	$3.911 \cdot 10^{-14}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$2.408 \cdot 10^{-9}$	$2.408 \cdot 10^{-9}$	0	$1.308 \cdot 10^{-11}$	$1.308 \cdot 10^{-11}$	0
$e^+\nu_e \to e^+\nu_e$	$2.06 \cdot 10^{-9}$	$2.06 \cdot 10^{-9}$	0	$6.229 \cdot 10^{-12}$	$6.229 \cdot 10^{-12}$	0
$e^+\tau^- \to e^+\tau^-$	$-3.445 \cdot 10^{-10}$	$-3.445 \cdot 10^{-10}$	0	$1.89 \cdot 10^{-12}$	$1.89 \cdot 10^{-12}$	0
$e^+e^- \rightarrow \mu^+\mu^-$	$-2.898 \cdot 10^{-12}$	$-2.898 \cdot 10^{-12}$	0	$8.069 \cdot 10^{-15}$	$8.069 \cdot 10^{-15}$	0
$e^+e^- \rightarrow e^+e^-$	$5.885 \cdot 10^{-5}$	$5.885 \cdot 10^{-5}$	0	$3.314 \cdot 10^{-7}$	$3.314 \cdot 10^{-7}$	0
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$3.049 \cdot 10^{-12}$	$3.049 \cdot 10^{-12}$	0	$1.656 \cdot 10^{-14}$	$1.656 \cdot 10^{-14}$	0
$s\bar{s} \to s\bar{s}$	$-3.008 \cdot 10^{-11}$	$-3.008 \cdot 10^{-11}$	0	$2.967 \cdot 10^{-14}$	$2.967 \cdot 10^{-14}$	0
$t\bar{t} \to t\bar{t}$	$-1.325 \cdot 10^{-9}$	$-1.325 \cdot 10^{-9}$	0	$2.264 \cdot 10^{-11}$	$2.264 \cdot 10^{-11}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$2.26 \cdot 10^{-12}$	$2.26 \cdot 10^{-12}$	0	$1.227 \cdot 10^{-14}$	$1.227 \cdot 10^{-14}$	0
$u\bar{u} \to u\bar{u}$	$2.967 \cdot 10^{-7}$	$2.967 \cdot 10^{-7}$	0	$4.536 \cdot 10^{-9}$	$4.536 \cdot 10^{-9}$	0

2.9 cHe

		interference			square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$7.118 \cdot 10^{-13}$	$7.118 \cdot 10^{-13}$	0	$1.088 \cdot 10^{-15}$	$1.088 \cdot 10^{-15}$	0	

$HH \to zc\bar{c}$	$-9.738 \cdot 10^{-14}$	$-9.738 \cdot 10^{-14}$	0	$4.269 \cdot 10^{-17}$	$4.269 \cdot 10^{-17}$	0
$HH \to zt\bar{t}$	$2.764 \cdot 10^{-10}$	$2.764 \cdot 10^{-10}$	0	$1.192 \cdot 10^{-13}$	$1.192 \cdot 10^{-13}$	0
$HH \rightarrow zz$	$-8.555 \cdot 10^{-7}$	$-8.555 \cdot 10^{-7}$	0	$6.546 \cdot 10^{-9}$	$6.546 \cdot 10^{-9}$	0
$Hz \to \mu^+\mu^-$	$3.779 \cdot 10^{-12}$	$3.779 \cdot 10^{-12}$	0	$2.084 \cdot 10^{-14}$	$2.084 \cdot 10^{-14}$	0
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$4.372 \cdot 10^{-12}$	$4.372 \cdot 10^{-12}$	0	$2.408 \cdot 10^{-14}$	$2.408 \cdot 10^{-14}$	0
$Hz \to s\bar{s}$	$1.695 \cdot 10^{-11}$	$1.695 \cdot 10^{-11}$	0	$9.341 \cdot 10^{-14}$	$9.341 \cdot 10^{-14}$	0
$Hz \to t\bar{t}$	$-4.064 \cdot 10^{-8}$	$-4.064 \cdot 10^{-8}$	0	$8.225 \cdot 10^{-11}$	$8.225 \cdot 10^{-11}$	0
$W^+W^- \to H b \bar b$	$-5.031 \cdot 10^{-11}$	$-5.031 \cdot 10^{-11}$	0	$2.491 \cdot 10^{-12}$	$2.491 \cdot 10^{-12}$	0
$W^+W^- \to Hc\bar{c}$	$1.839 \cdot 10^{-12}$	$1.839 \cdot 10^{-12}$	0	$2.856 \cdot 10^{-14}$	$2.856 \cdot 10^{-14}$	0
$W^+W^- \to H d\bar{d}$	$-7.869 \cdot 10^{-12}$	$-7.869 \cdot 10^{-12}$	0	$6.146 \cdot 10^{-14}$	$6.146 \cdot 10^{-14}$	0
$W^+W^- \to W^+W^-$	-0.0008255	-0.0008255	0	$4.495 \cdot 10^{-6}$	$4.495 \cdot 10^{-6}$	0
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$1.123 \cdot 10^{-12}$	$1.123 \cdot 10^{-12}$	0	$6.186 \cdot 10^{-15}$	$6.186 \cdot 10^{-15}$	0
$b\bar{b} \to \mu^+ \mu^-$	$1.553 \cdot 10^{-12}$	$1.553 \cdot 10^{-12}$	0	$4.872 \cdot 10^{-15}$	$4.872 \cdot 10^{-15}$	0
$b\bar{b} o u_e \bar{ u}_e$	$4.2 \cdot 10^{-12}$	$4.2 \cdot 10^{-12}$	0	$2.314 \cdot 10^{-14}$	$2.314 \cdot 10^{-14}$	0
$b\bar{b} o b\bar{b}$	$-7.25 \cdot 10^{-10}$	$-7.25 \cdot 10^{-10}$	0	$8.619 \cdot 10^{-13}$	$8.619 \cdot 10^{-13}$	0
$b\bar{b} o t\bar{t}$	$1.281 \cdot 10^{-11}$	$1.281 \cdot 10^{-11}$	0	$1.49 \cdot 10^{-14}$	$1.49 \cdot 10^{-14}$	0
$c\bar{c} \to \mu^+ \mu^-$	$2.449 \cdot 10^{-12}$	$2.449 \cdot 10^{-12}$	0	$4.107 \cdot 10^{-15}$	$4.107 \cdot 10^{-15}$	0
$d\bar{d} \to c\bar{c}$	$4.025 \cdot 10^{-12}$	$4.025 \cdot 10^{-12}$	0	$1.644 \cdot 10^{-14}$	$1.644 \cdot 10^{-14}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$7.003 \cdot 10^{-11}$	$7.003 \cdot 10^{-11}$	0	$3.858 \cdot 10^{-13}$	$3.858 \cdot 10^{-13}$	0
$e^+\nu_e \to e^+\nu_e$	$2.277 \cdot 10^{-10}$	$2.277 \cdot 10^{-10}$	0	$6.392 \cdot 10^{-13}$	$6.392 \cdot 10^{-13}$	0
$e^+\tau^- \to e^+\tau^-$	$-8.313 \cdot 10^{-11}$	$-8.313 \cdot 10^{-11}$	0	$1.647 \cdot 10^{-13}$	$1.647 \cdot 10^{-13}$	0
$e^+e^- \rightarrow \mu^+\mu^-$	$-9.464 \cdot 10^{-12}$	$-9.464 \cdot 10^{-12}$	0	$1.193 \cdot 10^{-14}$	$1.193 \cdot 10^{-14}$	0
$e^+e^- \rightarrow e^+e^-$	$-4.985 \cdot 10^{-11}$	$-4.985 \cdot 10^{-11}$	0	$6.783 \cdot 10^{-14}$	$6.783 \cdot 10^{-14}$	0
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$7.48 \cdot 10^{-13}$	$7.48 \cdot 10^{-13}$	0	$4.12 \cdot 10^{-15}$	$4.12 \cdot 10^{-15}$	0
$s\bar{s} \to s\bar{s}$	$-1.026 \cdot 10^{-8}$	$-1.026 \cdot 10^{-8}$	0	$9.484 \cdot 10^{-10}$	$9.484 \cdot 10^{-10}$	0
$t\bar{t} \to t\bar{t}$	$-4.37 \cdot 10^{-10}$	$-4.37 \cdot 10^{-10}$	0	$1.942 \cdot 10^{-12}$	$1.942 \cdot 10^{-12}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$2.891 \cdot 10^{-12}$	$2.891 \cdot 10^{-12}$	0	$1.593 \cdot 10^{-14}$	$1.593 \cdot 10^{-14}$	0
$u\bar{u} \to u\bar{u}$	$-2.183 \cdot 10^{-10}$	$-2.183 \cdot 10^{-10}$	0	$2.024 \cdot 10^{-13}$	$2.024 \cdot 10^{-13}$	0

2.10 cHl1

		interfere	ence		square	
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH \to z\bar{b}b$	$-1.664 \cdot 10^{-13}$	$-1.664 \cdot 10^{-13}$	0	$1.914 \cdot 10^{-16}$	$1.914 \cdot 10^{-16}$	0
$HH \to zc\bar{c}$	$-1.827 \cdot 10^{-14}$	$-1.827 \cdot 10^{-14}$	0	$9.069 \cdot 10^{-17}$	$9.069 \cdot 10^{-17}$	0
$HH \to zt\bar{t}$	$-1.387 \cdot 10^{-10}$	$-1.387 \cdot 10^{-10}$	0	$3.821 \cdot 10^{-13}$	$3.821 \cdot 10^{-13}$	0
$HH \rightarrow zz$	$-6.965 \cdot 10^{-7}$	$-6.965 \cdot 10^{-7}$	0	$4.024 \cdot 10^{-9}$	$4.024 \cdot 10^{-9}$	0
$Hz \to \mu^+\mu^-$	$3.864 \cdot 10^{-12}$	$3.864 \cdot 10^{-12}$	0	$2.131 \cdot 10^{-14}$	$2.131 \cdot 10^{-14}$	0
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$6.847 \cdot 10^{-12}$	$6.847 \cdot 10^{-12}$	0	$3.772 \cdot 10^{-14}$	$3.772 \cdot 10^{-14}$	0
$Hz \to s\bar{s}$	$1.671 \cdot 10^{-11}$	$1.671 \cdot 10^{-11}$	0	$9.211 \cdot 10^{-14}$	$9.211 \cdot 10^{-14}$	0
$Hz \to t\bar{t}$	$-4.347 \cdot 10^{-8}$	$-4.347 \cdot 10^{-8}$	0	$8.225 \cdot 10^{-11}$	$8.225 \cdot 10^{-11}$	0
$W^+W^- o Hbar b$	$2.057\cdot10^{-8}$	$2.057 \cdot 10^{-8}$	0	$1.316 \cdot 10^{-11}$	$1.316 \cdot 10^{-11}$	0
$W^+W^- \to H c \bar c$	$-1.859 \cdot 10^{-11}$	$-1.859 \cdot 10^{-11}$	0	$6.982 \cdot 10^{-14}$	$6.982 \cdot 10^{-14}$	0
$W^+W^- o H d \bar d$	$-3.496 \cdot 10^{-11}$	$-3.496 \cdot 10^{-11}$	0	$2.599 \cdot 10^{-13}$	$2.599 \cdot 10^{-13}$	0
$W^+W^- o W^+W^-$	-0.001459	-0.001459	0	$7.913 \cdot 10^{-6}$	$7.913 \cdot 10^{-6}$	0
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.089 \cdot 10^{-11}$	$2.089 \cdot 10^{-11}$	0	$1.151 \cdot 10^{-13}$	$1.151 \cdot 10^{-13}$	0
$b\bar{b} \to \mu^+ \mu^-$	$1.003 \cdot 10^{-13}$	$1.003 \cdot 10^{-13}$	0	$3.838 \cdot 10^{-15}$	$3.838 \cdot 10^{-15}$	0
$b\bar{b} o u_e \bar{ u}_e$	$3.897 \cdot 10^{-12}$	$3.897 \cdot 10^{-12}$	0	$2.147 \cdot 10^{-14}$	$2.147 \cdot 10^{-14}$	0
$b\bar{b} o b\bar{b}$	$-1.411 \cdot 10^{-9}$	$-1.411 \cdot 10^{-9}$	0	$2.073 \cdot 10^{-12}$	$2.073 \cdot 10^{-12}$	0
$b\bar{b} o t\bar{t}$	$-1.445 \cdot 10^{-11}$	$-1.445 \cdot 10^{-11}$	0	$7.351 \cdot 10^{-15}$	$7.351 \cdot 10^{-15}$	0
$c\bar{c} \to \mu^+ \mu^-$	$4.888 \cdot 10^{-14}$	$4.888 \cdot 10^{-14}$	0	$2.934 \cdot 10^{-15}$	$2.934 \cdot 10^{-15}$	0
$d\bar{d} \to c\bar{c}$	$1.128 \cdot 10^{-11}$	$1.128 \cdot 10^{-11}$	0	$4.023 \cdot 10^{-14}$	$4.023 \cdot 10^{-14}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$2.443 \cdot 10^{-9}$	$2.443 \cdot 10^{-9}$	0	$1.346 \cdot 10^{-11}$	$1.346 \cdot 10^{-11}$	0
$e^+\nu_e \to e^+\nu_e$	$2.089 \cdot 10^{-9}$	$2.089 \cdot 10^{-9}$	0	$6.408 \cdot 10^{-12}$	$6.408 \cdot 10^{-12}$	0
$e^+\tau^- \to e^+\tau^-$	$-3.494 \cdot 10^{-10}$	$-3.494 \cdot 10^{-10}$	0	$1.944 \cdot 10^{-12}$	$1.944 \cdot 10^{-12}$	0
$e^+e^- \to \mu^+\mu^-$	$-2.939 \cdot 10^{-12}$	$-2.939 \cdot 10^{-12}$	0	$8.301 \cdot 10^{-15}$	$8.301 \cdot 10^{-15}$	0
$e^+e^- \rightarrow e^+e^-$	$5.969 \cdot 10^{-5}$	$5.969 \cdot 10^{-5}$	0	$3.41 \cdot 10^{-7}$	$3.41\cdot 10^{-7}$	0
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$3.092 \cdot 10^{-12}$	$3.092 \cdot 10^{-12}$	0	$1.703 \cdot 10^{-14}$	$1.703 \cdot 10^{-14}$	0
$s\bar{s} \to s\bar{s}$	$-3.051 \cdot 10^{-11}$	$-3.051 \cdot 10^{-11}$	0	$3.053 \cdot 10^{-14}$	$3.053 \cdot 10^{-14}$	0

$t\bar{t} \to t\bar{t}$	$-1.344 \cdot 10^{-9}$	$-1.344 \cdot 10^{-9}$	0	$2.329 \cdot 10^{-11}$ 2.	$.329 \cdot 10^{-11}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$2.292 \cdot 10^{-12}$	$2.292 \cdot 10^{-12}$	0	$1.263 \cdot 10^{-14}$ 1.	$.263 \cdot 10^{-14}$	0
$u\bar{u} \to u\bar{u}$	$3.009 \cdot 10^{-7}$	$3.009 \cdot 10^{-7}$	0	$4.667 \cdot 10^{-9}$ 4	$1.667 \cdot 10^{-9}$	0

2.11 cHl3

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1 - \mathtt{mod}2/\mathtt{mod}1$	
$HH \to HH$	$-5.518 \cdot 10^{-13}$	$-5.518 \cdot 10^{-13}$	0	$8.036 \cdot 10^{-15}$	$8.036 \cdot 10^{-15}$	0	
$HH o H au^+ au^-$	$7.548 \cdot 10^{-22}$	$7.548 \cdot 10^{-22}$	0	$7.369 \cdot 10^{-23}$	$7.369 \cdot 10^{-23}$	0	
$HH o Hbar{b}$	$-2.736 \cdot 10^{-20}$	$-2.736 \cdot 10^{-20}$	0	$1.509 \cdot 10^{-21}$	$1.509 \cdot 10^{-21}$	0	
$HH o W^+W^-$	$-6.78 \cdot 10^{-6}$	$-6.78 \cdot 10^{-6}$	0	$3.357 \cdot 10^{-7}$		0	
$HH \to W^+W^-\gamma$	$-1.103 \cdot 10^{-10}$	$-1.103 \cdot 10^{-10}$	0	$1.133 \cdot 10^{-11}$	$1.133 \cdot 10^{-11}$	0	
$HH o W^+ e^- \bar{\nu}_e$	$1.356 \cdot 10^{-12}$	$1.356 \cdot 10^{-12}$	0	$5.59 \cdot 10^{-15}$	$5.59 \cdot 10^{-15}$	0	
$HH \to W^- u \bar{d}$	$4.538 \cdot 10^{-11}$	$4.538 \cdot 10^{-11}$	0	$1.553 \cdot 10^{-13}$	$1.553 \cdot 10^{-13}$	0	
$HH \to z\bar{b}b$	$5.352 \cdot 10^{-12}$	$5.352 \cdot 10^{-12}$	0	$6.15 \cdot 10^{-14}$	$6.15 \cdot 10^{-14}$	0	
$HH \to zc\bar{c}$	$-7.321 \cdot 10^{-13}$	$-7.321 \cdot 10^{-13}$	0	$2.413 \cdot 10^{-15}$	$2.413 \cdot 10^{-15}$	0	
$HH \to z t \bar{t}$	$3.541 \cdot 10^{-9}$	$3.541 \cdot 10^{-9}$	0	$1.76 \cdot 10^{-11}$	$1.76 \cdot 10^{-11}$	0	
$HH \rightarrow zz$	$-6.432 \cdot 10^{-6}$	$-6.432 \cdot 10^{-6}$	0	$3.701 \cdot 10^{-7}$	$3.701 \cdot 10^{-7}$	0	
$HW^+ o \gamma t \bar{b}$	$-1.712 \cdot 10^{-9}$	$-1.712 \cdot 10^{-9}$	0	$2.245 \cdot 10^{-12}$	$2.245 \cdot 10^{-12}$	0	
$HW^+ \to \gamma u \bar{d}$	$-2.274 \cdot 10^{-10}$	$-2.274 \cdot 10^{-10}$	0	$3.771 \cdot 10^{-13}$	$3.771 \cdot 10^{-13}$	0	
$HW^+ o u \bar d$	$2.419 \cdot 10^{-11}$	$2.419 \cdot 10^{-11}$	0	$9.778 \cdot 10^{-13}$	$9.778 \cdot 10^{-13}$	0	
$HW^- \to \gamma e^- \bar{\nu}_e$	$1.477 \cdot 10^{-12}$	$1.477 \cdot 10^{-12}$	0	$1.346 \cdot 10^{-14}$	$1.346 \cdot 10^{-14}$	0	
$HW^- o \mu^- \bar{\nu}_\mu$	$7.378 \cdot 10^{-12}$	$7.378 \cdot 10^{-12}$	0	$2.989 \cdot 10^{-13}$	$2.989 \cdot 10^{-13}$	0	
$Hz \to \mu^+ \mu^-$	$2.841 \cdot 10^{-11}$	$2.841 \cdot 10^{-11}$	0	$1.178 \cdot 10^{-12}$	$1.178 \cdot 10^{-12}$	0	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$3.287 \cdot 10^{-11}$	$3.287 \cdot 10^{-11}$	0	$1.361 \cdot 10^{-12}$	$1.361 \cdot 10^{-12}$	0	
$Hz \to s\bar{s}$	$1.274 \cdot 10^{-10}$	$1.274 \cdot 10^{-10}$	0	$5.28 \cdot 10^{-13}$	$5.28 \cdot 10^{-12}$	0	
$Hz \to t\bar{t}$	$-1.281 \cdot 10^{-6}$	$-1.281 \cdot 10^{-6}$	0	$7.174 \cdot 10^{-1}$	$8 7.174 \cdot 10^{-8}$	0	
$W^+W^- o Hb\bar{b}$	$4.047 \cdot 10^{-9}$	$4.047 \cdot 10^{-9}$	0	$3.118 \cdot 10^{-1}$	$3.118 \cdot 10^{-10}$	0	

$W^+W^- \to Hc\bar{c}$	$1.222 \cdot 10^{-11}$	$1.222 \cdot 10^{-11}$	0	$1.363 \cdot 10^{-12}$	$1.363 \cdot 10^{-12}$	0
$W^+W^- o H d \bar d$	$-5.332 \cdot 10^{-11}$	$-5.332 \cdot 10^{-11}$	0	$3.091 \cdot 10^{-12}$	$3.091 \cdot 10^{-12}$	0
$W^+W^- \rightarrow W^+W^-$	-0.006206	-0.006206	0	0.0002541	0.0002541	0
$W^+W^- o \gamma\gamma$	$-2.662 \cdot 10^{-7}$	$-2.662 \cdot 10^{-7}$	0	$1.062 \cdot 10^{-8}$	$1.062 \cdot 10^{-8}$	0
$W^+W^- \to \gamma\gamma\gamma$	$2.244 \cdot 10^{-13}$	$2.244 \cdot 10^{-13}$	0	$1.76 \cdot 10^{-13}$	$1.76 \cdot 10^{-13}$	0
$\bar{b}t \to \bar{d}u$	$1.527 \cdot 10^{-12}$	$1.527 \cdot 10^{-12}$	0	$6.172 \cdot 10^{-14}$	$6.172 \cdot 10^{-14}$	0
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$8.442 \cdot 10^{-12}$	$8.442 \cdot 10^{-12}$	0	$3.496 \cdot 10^{-13}$	$3.496 \cdot 10^{-13}$	0
$b\bar{b} o \mu^+ \mu^-$	$1.167 \cdot 10^{-11}$	$1.167 \cdot 10^{-11}$	0	$2.754 \cdot 10^{-13}$	$2.754 \cdot 10^{-13}$	0
$b\bar{b} \to \nu_e \bar{\nu}_e$	$3.158 \cdot 10^{-11}$	$3.158 \cdot 10^{-11}$	0	$1.308 \cdot 10^{-12}$	$1.308 \cdot 10^{-12}$	0
$bar{b} o bar{ar{b}}$	$-5.451 \cdot 10^{-9}$	$-5.451 \cdot 10^{-9}$	0	$4.871 \cdot 10^{-11}$	$4.871 \cdot 10^{-11}$	0
$b\bar{b} o t\bar{t}$	$-4.394 \cdot 10^{-9}$	$-4.394 \cdot 10^{-9}$	0	$3.792 \cdot 10^{-10}$	$3.792 \cdot 10^{-10}$	0
$b\bar{t} \to e^- \bar{\nu}_e$	$6.615 \cdot 10^{-11}$	$6.615 \cdot 10^{-11}$	0	$2.674 \cdot 10^{-12}$	$2.674 \cdot 10^{-12}$	0
$c\bar{c} \to \mu^+ \mu^-$	$1.842 \cdot 10^{-11}$	$1.842 \cdot 10^{-11}$	0	$2.322 \cdot 10^{-13}$	$2.322 \cdot 10^{-13}$	0
$c\bar{s} \to \tau^+ \nu_{\tau}$	$4.769 \cdot 10^{-13}$	$4.769 \cdot 10^{-13}$	0	$1.928 \cdot 10^{-14}$	$1.928 \cdot 10^{-14}$	0
$d\bar{d} o c\bar{c}$	$3.026 \cdot 10^{-11}$	$3.026 \cdot 10^{-11}$	0	$9.293 \cdot 10^{-13}$	$9.293 \cdot 10^{-13}$	0
$e^+\nu_{\mu} \to e^+\nu_{\mu}$	$5.265 \cdot 10^{-10}$	$5.265 \cdot 10^{-10}$	0	$2.18 \cdot 10^{-11}$	$2.18 \cdot 10^{-11}$	0
$e^+\nu_e^- o \mu^+\nu_\mu^-$	$1.112 \cdot 10^{-10}$	$1.112 \cdot 10^{-10}$	0	$4.495 \cdot 10^{-12}$	$4.495 \cdot 10^{-12}$	0
$e^+\nu_e \rightarrow e^+\nu_e$	$1.983 \cdot 10^{-9}$	$1.983 \cdot 10^{-9}$	0	$2.829 \cdot 10^{-11}$	$2.829 \cdot 10^{-11}$	0
$e^+\tau^- \to e^+\tau^-$	$-6.249 \cdot 10^{-10}$	$-6.249 \cdot 10^{-10}$	0	$9.307 \cdot 10^{-12}$	$9.307 \cdot 10^{-12}$	0
$e^+e^- \rightarrow \mu^+\mu^-$	$-7.115 \cdot 10^{-11}$	$-7.115 \cdot 10^{-11}$	0	$6.742 \cdot 10^{-13}$	$6.742 \cdot 10^{-13}$	0
$e^+e^- \rightarrow e^+e^-$	$-3.747 \cdot 10^{-10}$	$-3.747 \cdot 10^{-10}$	0	$3.834 \cdot 10^{-12}$	$3.834 \cdot 10^{-12}$	0
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$5.623 \cdot 10^{-12}$	$5.623 \cdot 10^{-12}$	0	$2.329 \cdot 10^{-13}$	$2.329 \cdot 10^{-13}$	0
$s\bar{s} \to s\bar{s}$	$-7.712 \cdot 10^{-8}$	$-7.712 \cdot 10^{-8}$	0	$5.361 \cdot 10^{-8}$	$5.361 \cdot 10^{-8}$	0
$t\bar{t} \to t\bar{t}$	$-3.287 \cdot 10^{-9}$	$-3.287 \cdot 10^{-9}$	0	$1.099 \cdot 10^{-10}$	$1.099 \cdot 10^{-10}$	0
$tg \rightarrow bW^+$	$-2.04 \cdot 10^{-8}$	$-2.04 \cdot 10^{-8}$	0	$1.323 \cdot 10^{-9}$	$1.323 \cdot 10^{-9}$	0
$u\bar{d} \to c\bar{s}$	$2.053 \cdot 10^{-10}$	$2.053 \cdot 10^{-10}$	0	$8.298 \cdot 10^{-12}$	$8.298 \cdot 10^{-12}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$2.174 \cdot 10^{-11}$	$2.174 \cdot 10^{-11}$	0	$9.002 \cdot 10^{-13}$	$9.002 \cdot 10^{-13}$	0
$u\bar{u} \to u\bar{u}$	$-1.641 \cdot 10^{-9}$	$-1.641 \cdot 10^{-9}$	0	$1.144 \cdot 10^{-11}$	$1.144 \cdot 10^{-11}$	0
$zz o W^+W^-$	-0.01085	-0.01085	0	0.00043	0.00043	0

2.12 cHq1

	interference				square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
$HH o z \bar{b} b$	$4.265 \cdot 10^{-13}$	$4.265 \cdot 10^{-13}$	0	$1.257 \cdot 10^{-15}$	$1.257 \cdot 10^{-15}$	0	
$HH \to zc\bar{c}$	$4.681 \cdot 10^{-14}$	$4.681 \cdot 10^{-14}$	0	$5.956 \cdot 10^{-16}$	$5.956 \cdot 10^{-16}$	0	
$HH \to z t \bar{t}$	$3.555 \cdot 10^{-10}$	$3.555 \cdot 10^{-10}$	0	$2.51 \cdot 10^{-12}$	$2.51 \cdot 10^{-12}$	0	
$HH \rightarrow zz$	$1.785 \cdot 10^{-6}$	$1.785 \cdot 10^{-6}$	0	$2.643 \cdot 10^{-8}$	$2.643 \cdot 10^{-8}$	0	
$Hz \to \mu^+\mu^-$	$-9.902 \cdot 10^{-12}$	$-9.902 \cdot 10^{-12}$	0	$1.4 \cdot 10^{-13}$	$1.4 \cdot 10^{-13}$	0	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$-1.755 \cdot 10^{-11}$	$-1.755 \cdot 10^{-11}$	0	$2.477 \cdot 10^{-13}$	$2.477 \cdot 10^{-13}$	0	
$Hz \to s\bar{s}$	$-4.282 \cdot 10^{-11}$	$-4.282 \cdot 10^{-11}$	0	$6.049 \cdot 10^{-13}$	$6.049 \cdot 10^{-13}$	0	
$Hz \to t\bar{t}$	$1.114 \cdot 10^{-7}$	$1.114 \cdot 10^{-7}$	0	$5.402 \cdot 10^{-10}$	$5.402 \cdot 10^{-10}$	0	
$W^+W^- \to Hb\bar{b}$	$-5.272 \cdot 10^{-8}$	$-5.272 \cdot 10^{-8}$	0	$8.642 \cdot 10^{-11}$	$8.642 \cdot 10^{-11}$	0	
$W^+W^- \to H c \bar c$	$4.764 \cdot 10^{-11}$	$4.764 \cdot 10^{-11}$	0	$4.585 \cdot 10^{-13}$	$4.585 \cdot 10^{-13}$	0	
$W^+W^- \to H d\bar{d}$	$8.96 \cdot 10^{-11}$	$8.96 \cdot 10^{-11}$	0	$1.707 \cdot 10^{-12}$	$1.707 \cdot 10^{-12}$	0	
$W^+W^- o W^+W^-$	0.00374	0.00374	0	$5.197 \cdot 10^{-5}$	$5.197 \cdot 10^{-5}$	0	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$-5.353 \cdot 10^{-11}$	$-5.353 \cdot 10^{-11}$	0	$7.557 \cdot 10^{-13}$	$7.557 \cdot 10^{-13}$	0	
$b\bar{b} \to \mu^+ \mu^-$	$-2.571 \cdot 10^{-13}$	$-2.571 \cdot 10^{-13}$	0	$2.521 \cdot 10^{-14}$	$2.521 \cdot 10^{-14}$	0	
$b\bar{b} \to \nu_e \bar{\nu}_e$	$-9.986 \cdot 10^{-12}$	$-9.986 \cdot 10^{-12}$	0	$1.41 \cdot 10^{-13}$	$1.41 \cdot 10^{-13}$	0	
$b\bar{b} o b\bar{b}$	$3.617 \cdot 10^{-9}$	$3.617 \cdot 10^{-9}$	0	$1.361 \cdot 10^{-11}$	$1.361 \cdot 10^{-11}$	0	
$b\bar{b} \to t\bar{t}$	$3.703 \cdot 10^{-11}$	$3.703 \cdot 10^{-11}$	0	$4.828 \cdot 10^{-14}$	$4.828 \cdot 10^{-14}$	0	
$c\bar{c} \to \mu^+ \mu^-$	$-1.253 \cdot 10^{-13}$	$-1.253 \cdot 10^{-13}$	0	$1.927 \cdot 10^{-14}$	$1.927 \cdot 10^{-14}$	0	
$d\bar{d} \to c\bar{c}$	$-2.89 \cdot 10^{-11}$	$-2.89 \cdot 10^{-11}$	0	$2.642 \cdot 10^{-13}$	$2.642 \cdot 10^{-13}$	0	
$e^+\nu_\mu \to e^+\nu_\mu$	$-6.261 \cdot 10^{-9}$	$-6.261 \cdot 10^{-9}$	0	$8.838 \cdot 10^{-11}$	$8.838 \cdot 10^{-11}$	0	
$e^+\nu_e \to e^+\nu_e$	$-5.355 \cdot 10^{-9}$	$-5.355 \cdot 10^{-9}$	0	$4.209 \cdot 10^{-11}$	$4.209 \cdot 10^{-11}$	0	
$e^+\tau^- \to e^+\tau^-$	$8.955 \cdot 10^{-10}$	$8.955 \cdot 10^{-10}$	0	$1.277 \cdot 10^{-11}$	$1.277 \cdot 10^{-11}$	0	
$e^+e^- \to \mu^+\mu^-$	$7.533 \cdot 10^{-12}$	$7.533 \cdot 10^{-12}$	0	$5.452 \cdot 10^{-14}$	$5.452 \cdot 10^{-14}$	0	
$e^+e^- \rightarrow e^+e^-$	-0.000153	-0.000153	0	$2.239 \cdot 10^{-6}$	$2.239 \cdot 10^{-6}$	0	
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$-7.925 \cdot 10^{-12}$	$-7.925 \cdot 10^{-12}$	0	$1.119 \cdot 10^{-13}$	$1.119 \cdot 10^{-13}$	0	

$s\bar{s} \to s\bar{s}$	$7.82 \cdot 10^{-11}$ $7.82 \cdot 10^{-11}$	0	$2.005 \cdot 10^{-13} 2.005 \cdot 10^{-13}$	0
$t\bar{t} \to t\bar{t}$	$3.443 \cdot 10^{-9}$ $3.443 \cdot 10^{-9}$	0	$1.53 \cdot 10^{-10}$ $1.53 \cdot 10^{-10}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$-5.874 \cdot 10^{-12} -5.874 \cdot 10^{-12}$	0	$8.292 \cdot 10^{-14} 8.292 \cdot 10^{-14}$	0
$u\bar{u} \to u\bar{u}$	$-7.712 \cdot 10^{-7}$ $-7.712 \cdot 10^{-7}$	0	$3.065 \cdot 10^{-8}$ $3.065 \cdot 10^{-8}$	0

2.13 cHq3

	interference				square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
HH o HH	$1.27 \cdot 10^{-14}$	$1.27 \cdot 10^{-14}$	0	$4.259 \cdot 10^{-18}$	$4.259 \cdot 10^{-18}$	0	
$HH \to H \tau^+ \tau^-$	$-1.738 \cdot 10^{-23}$	$-1.738 \cdot 10^{-23}$	0	$3.906 \cdot 10^{-26}$	$3.906 \cdot 10^{-26}$	0	
$HH o Hbar{b}$	$6.3 \cdot 10^{-22}$	$6.3 \cdot 10^{-22}$	0	$8 \cdot 10^{-25}$	$8 \cdot 10^{-25}$	0	
$HH \to W^+W^-$	$6.779 \cdot 10^{-6}$	$6.779 \cdot 10^{-6}$	0	$3.356 \cdot 10^{-7}$	$3.356 \cdot 10^{-7}$	0	
$HH o W^+W^-\gamma$	$1.103 \cdot 10^{-10}$	$1.103 \cdot 10^{-10}$	0	$1.133 \cdot 10^{-11}$	$1.133 \cdot 10^{-11}$	0	
$HH \to W^+ e^- \bar{\nu}_e$	$-1.356 \cdot 10^{-12}$	$-1.356 \cdot 10^{-12}$	0	$5.589 \cdot 10^{-15}$	$5.589 \cdot 10^{-15}$	0	
$HH \to W^- u \bar{d}$	$-4.537 \cdot 10^{-11}$	$-4.537 \cdot 10^{-11}$	0	$1.552 \cdot 10^{-13}$	$1.552 \cdot 10^{-13}$	0	
$HH \to z\bar{b}b$	$-6.314 \cdot 10^{-12}$	$-6.314 \cdot 10^{-12}$	0	$8.56 \cdot 10^{-14}$	$8.56 \cdot 10^{-14}$	0	
$HH \to z c \bar{c}$	$8.638 \cdot 10^{-13}$	$8.638 \cdot 10^{-13}$	0	$3.359 \cdot 10^{-15}$	$3.359 \cdot 10^{-15}$	0	
$HH \to z t \bar{t}$	$-3.915 \cdot 10^{-9}$	$-3.915 \cdot 10^{-9}$	0	$2.149 \cdot 10^{-11}$	$2.149 \cdot 10^{-11}$	0	
$HH \rightarrow zz$	$7.589 \cdot 10^{-6}$	$7.589 \cdot 10^{-6}$	0	$5.151 \cdot 10^{-7}$	$5.151 \cdot 10^{-7}$	0	
$HW^+ o \gamma t \bar{b}$	$1.712 \cdot 10^{-9}$	$1.712 \cdot 10^{-9}$	0	$2.245 \cdot 10^{-12}$	$2.245 \cdot 10^{-12}$	0	
$HW^+ o \gamma u \bar{d}$	$2.274 \cdot 10^{-10}$	$2.274 \cdot 10^{-10}$	0	$3.771 \cdot 10^{-13}$	$3.771 \cdot 10^{-13}$	0	
$HW^+ \to u\bar{d}$	$-2.419 \cdot 10^{-11}$	$-2.419 \cdot 10^{-11}$	0	$9.778 \cdot 10^{-13}$	$9.778 \cdot 10^{-13}$	0	
$HW^- o \gamma e^- \bar{\nu}_e$	$-1.477 \cdot 10^{-12}$	$-1.477 \cdot 10^{-12}$	0	$1.346 \cdot 10^{-14}$	$1.346 \cdot 10^{-14}$	0	
$HW^- \to \mu^- \bar{\nu}_{\mu}$	$-7.378 \cdot 10^{-12}$	$-7.378 \cdot 10^{-12}$	0	$2.989 \cdot 10^{-13}$	$2.989 \cdot 10^{-13}$	0	
$Hz \rightarrow \mu^+\mu^-$	$-3.352 \cdot 10^{-11}$		0	$1.64 \cdot 10^{-12}$	$1.64 \cdot 10^{-12}$	0	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$-3.878 \cdot 10^{-11}$	$-3.878 \cdot 10^{-11}$	0	$1.895 \cdot 10^{-12}$	$1.895 \cdot 10^{-12}$	0	
$Hz \to s\bar{s}$	$-1.503 \cdot 10^{-10}$	$-1.503 \cdot 10^{-1}$	0 0	$7.35 \cdot 10^{-13}$	$7.35 \cdot 10^{-12}$	0	
$Hz \to t\bar{t}$	$1.336 \cdot 10^{-6}$	$1.336 \cdot 10^{-6}$	0	$7.824 \cdot 10^{-6}$	$7.824 \cdot 10^{-8}$	8 0	

$W^+W^- \to H b \bar b$	$-3.979 \cdot 10^{-9}$	$-3.979 \cdot 10^{-9}$	0	$3.912 \cdot 10^{-10}$	$3.912 \cdot 10^{-10}$	0
$W^+W^- o Hc\bar{c}$	$-1.471 \cdot 10^{-11}$	$-1.471 \cdot 10^{-11}$	0	$1.948 \cdot 10^{-12}$	$1.948 \cdot 10^{-12}$	0
$W^+W^- \to H d\bar{d}$	$6.397 \cdot 10^{-11}$	$6.397 \cdot 10^{-11}$	0	$4.382 \cdot 10^{-12}$	$4.382 \cdot 10^{-12}$	0
$W^+W^- o W^+W^-$	0.007322	0.007322	0	0.0003537	0.0003537	0
$W^+W^- \to \gamma\gamma$	$2.662 \cdot 10^{-7}$	$2.662 \cdot 10^{-7}$	0	$1.062 \cdot 10^{-8}$	$1.062 \cdot 10^{-8}$	0
$W^+W^- \to \gamma\gamma\gamma$	$-2.244 \cdot 10^{-13}$	$-2.244 \cdot 10^{-13}$	0	$1.76 \cdot 10^{-13}$	$1.76 \cdot 10^{-13}$	0
$\bar{b}t \to \bar{d}u$	$-1.527 \cdot 10^{-12}$	$-1.527 \cdot 10^{-12}$	0	$6.172 \cdot 10^{-14}$	$6.172 \cdot 10^{-14}$	0
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$-9.961 \cdot 10^{-12}$	$-9.961 \cdot 10^{-12}$	0	$4.867 \cdot 10^{-13}$	$4.867 \cdot 10^{-13}$	0
$b\bar{b} \rightarrow \mu^+ \mu^-$	$-1.377 \cdot 10^{-11}$	$-1.377 \cdot 10^{-11}$	0	$3.833 \cdot 10^{-13}$	$3.833 \cdot 10^{-13}$	0
$b\bar{b} o u_e \bar{ u}_e$	$-3.726 \cdot 10^{-11}$	$-3.726 \cdot 10^{-11}$	0	$1.821 \cdot 10^{-12}$	$1.821 \cdot 10^{-12}$	0
$b\bar{b} o b\bar{b}$	$6.431 \cdot 10^{-9}$	$6.431 \cdot 10^{-9}$	0	$6.782 \cdot 10^{-11}$	$6.782 \cdot 10^{-11}$	0
$b\bar{b} o t\bar{t}$	$4.376 \cdot 10^{-9}$	$4.376 \cdot 10^{-9}$	0	$3.791 \cdot 10^{-10}$	$3.791 \cdot 10^{-10}$	0
$b\bar{t} \to e^- \bar{\nu}_e$	$-6.615 \cdot 10^{-11}$	$-6.615 \cdot 10^{-11}$	0	$2.674 \cdot 10^{-12}$	$2.674 \cdot 10^{-12}$	0
$c\bar{c} \to \mu^+ \mu^-$	$-2.173 \cdot 10^{-11}$	$-2.173 \cdot 10^{-11}$	0	$3.232 \cdot 10^{-13}$	$3.232 \cdot 10^{-13}$	0
$c\bar{s} \to \tau^+ \nu_{\tau}$	$-4.769 \cdot 10^{-13}$	$-4.769 \cdot 10^{-13}$	0	$1.928 \cdot 10^{-14}$	$1.928 \cdot 10^{-14}$	0
$d\bar{d} \to c\bar{c}$	$-3.571 \cdot 10^{-11}$	$-3.571 \cdot 10^{-11}$	0	$1.294 \cdot 10^{-12}$	$1.294 \cdot 10^{-12}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$-6.212 \cdot 10^{-10}$	$-6.212 \cdot 10^{-10}$	0	$3.035 \cdot 10^{-11}$	$3.035 \cdot 10^{-11}$	0
$e^+\nu_e \to \mu^+\nu_\mu$	$-1.112 \cdot 10^{-10}$	$-1.112 \cdot 10^{-10}$	0	$4.495 \cdot 10^{-12}$	$4.495 \cdot 10^{-12}$	0
$e^+\nu_e \to e^+\nu_e$	$-2.291 \cdot 10^{-9}$	$-2.291 \cdot 10^{-9}$	0	$4.062 \cdot 10^{-11}$	$4.062 \cdot 10^{-11}$	0
$e^+\tau^- \to e^+\tau^-$	$7.374 \cdot 10^{-10}$	$7.374 \cdot 10^{-10}$	0	$1.296 \cdot 10^{-11}$	$1.296 \cdot 10^{-11}$	0
$e^+e^- \rightarrow \mu^+\mu^-$	$8.395 \cdot 10^{-11}$	$8.395 \cdot 10^{-11}$	0	$9.386 \cdot 10^{-13}$	$9.386 \cdot 10^{-13}$	0
$e^+e^- \rightarrow e^+e^-$	$4.421 \cdot 10^{-10}$	$4.421 \cdot 10^{-10}$	0	$5.337 \cdot 10^{-12}$	$5.337 \cdot 10^{-12}$	0
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$-6.635 \cdot 10^{-12}$	$-6.635 \cdot 10^{-12}$	0	$3.242 \cdot 10^{-13}$	$3.242 \cdot 10^{-13}$	0
$s\bar{s} \to s\bar{s}$	$9.099 \cdot 10^{-8}$	$9.099 \cdot 10^{-8}$	0	$7.463 \cdot 10^{-8}$	$7.463 \cdot 10^{-8}$	0
$t\bar{t} \to t\bar{t}$	$3.877 \cdot 10^{-9}$	$3.877 \cdot 10^{-9}$	0	$1.528 \cdot 10^{-10}$	$1.528 \cdot 10^{-10}$	0
$tg \to bW^+$	$2.04 \cdot 10^{-8}$	$2.04 \cdot 10^{-8}$	0	$1.323 \cdot 10^{-9}$	$1.323 \cdot 10^{-9}$	0
$u\bar{d} \to c\bar{s}$	$-2.053 \cdot 10^{-10}$	$-2.053 \cdot 10^{-10}$	0	$8.298 \cdot 10^{-12}$	$8.298 \cdot 10^{-12}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$-2.565 \cdot 10^{-11}$	$-2.565 \cdot 10^{-11}$	0	$1.253 \cdot 10^{-12}$	$1.253 \cdot 10^{-12}$	0
$u\bar{u} \to u\bar{u}$	$1.937 \cdot 10^{-9}$	$1.937 \cdot 10^{-9}$	0	$1.592 \cdot 10^{-11}$	$1.592 \cdot 10^{-11}$	0

 $zz \to W^+W^-$ 0.01085 0.01085 0 0.00043 0.00043 0

2.14 cHu

		interfere	ence		square	
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH o z \bar{b} b$	$2.219 \cdot 10^{-13}$	$2.219 \cdot 10^{-13}$	0	$3.403 \cdot 10^{-16}$	$3.403 \cdot 10^{-16}$	0
$HH \to zc\bar{c}$	$2.435 \cdot 10^{-14}$	$2.435 \cdot 10^{-14}$	0	$1.612 \cdot 10^{-16}$	$1.612 \cdot 10^{-16}$	0
$HH \to z t \bar t$	$1.849 \cdot 10^{-10}$	$1.849 \cdot 10^{-10}$	0	$6.794 \cdot 10^{-13}$	$6.794 \cdot 10^{-13}$	0
$HH \rightarrow zz$	$9.286 \cdot 10^{-7}$	$9.286 \cdot 10^{-7}$	0	$7.154 \cdot 10^{-9}$	$7.154 \cdot 10^{-9}$	0
$Hz \to \mu^+\mu^-$	$-5.152 \cdot 10^{-12}$	$-5.152 \cdot 10^{-12}$	0	$3.788 \cdot 10^{-14}$	$3.788 \cdot 10^{-14}$	0
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$-9.129 \cdot 10^{-12}$	$-9.129 \cdot 10^{-12}$	0	$6.705 \cdot 10^{-14}$	$6.705 \cdot 10^{-14}$	0
$Hz \to s\bar{s}$	$-2.228 \cdot 10^{-11}$	$-2.228 \cdot 10^{-11}$	0	$1.637 \cdot 10^{-13}$	$1.637 \cdot 10^{-13}$	0
$Hz \to t\bar{t}$	$5.796 \cdot 10^{-8}$	$5.796 \cdot 10^{-8}$	0	$1.462 \cdot 10^{-10}$	$1.462 \cdot 10^{-10}$	0
$W^+W^- o Hb\bar{b}$	$-2.743 \cdot 10^{-8}$	$-2.743 \cdot 10^{-8}$	0	$2.339 \cdot 10^{-11}$	$2.339 \cdot 10^{-11}$	0
$W^+W^- \to H c\bar{c}$	$2.478 \cdot 10^{-11}$	$2.478 \cdot 10^{-11}$	0	$1.241 \cdot 10^{-13}$	$1.241 \cdot 10^{-13}$	0
$W^+W^- o Hd\bar{d}$	$4.662 \cdot 10^{-11}$	$4.662 \cdot 10^{-11}$	0	$4.62 \cdot 10^{-13}$	$4.62 \cdot 10^{-13}$	0
$W^+W^- o W^+W^-$	0.001946	0.001946	0	$1.407 \cdot 10^{-5}$	$1.407 \cdot 10^{-5}$	0
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$-2.785 \cdot 10^{-11}$	$-2.785 \cdot 10^{-11}$	0	$2.046 \cdot 10^{-13}$	$2.046 \cdot 10^{-13}$	0
$b\bar{b} \to \mu^+ \mu^-$	$-1.337 \cdot 10^{-13}$	$-1.337 \cdot 10^{-13}$	0	$6.823 \cdot 10^{-15}$	$6.823 \cdot 10^{-15}$	0
$b\bar{b} \to \nu_e \bar{\nu}_e$	$-5.196 \cdot 10^{-12}$	$-5.196 \cdot 10^{-12}$	0	$3.816 \cdot 10^{-14}$	$3.816 \cdot 10^{-14}$	0
$b\bar{b} o b\bar{b}$	$1.882 \cdot 10^{-9}$	$1.882 \cdot 10^{-9}$	0	$3.685 \cdot 10^{-12}$	$3.685 \cdot 10^{-12}$	0
$b\bar{b} o t\bar{t}$	$1.926 \cdot 10^{-11}$	$1.926 \cdot 10^{-11}$	0	$1.307 \cdot 10^{-14}$	$1.307 \cdot 10^{-14}$	0
$c\bar{c} \to \mu^+ \mu^-$	$-6.518 \cdot 10^{-14}$	$-6.518 \cdot 10^{-14}$	0	$5.217 \cdot 10^{-15}$	$5.217 \cdot 10^{-15}$	0
$d\bar{d} \to c\bar{c}$	$-1.504 \cdot 10^{-11}$	$-1.504 \cdot 10^{-11}$	0	$7.153 \cdot 10^{-14}$	$7.153 \cdot 10^{-14}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$-3.257 \cdot 10^{-9}$	$-3.257 \cdot 10^{-9}$	0	$2.392 \cdot 10^{-11}$	$2.392 \cdot 10^{-11}$	0
$e^+\nu_e \to e^+\nu_e$	$-2.786 \cdot 10^{-9}$	$-2.786 \cdot 10^{-9}$	0	$1.139 \cdot 10^{-11}$	$1.139 \cdot 10^{-11}$	0
$e^+\tau^- \to e^+\tau^-$	$4.659 \cdot 10^{-10}$	$4.659 \cdot 10^{-10}$	0	$3.457 \cdot 10^{-12}$	$3.457 \cdot 10^{-12}$	0
$e^+e^- \to \mu^+\mu^-$	$3.919 \cdot 10^{-12}$	$3.919 \cdot 10^{-12}$	0	$1.476 \cdot 10^{-14}$	$1.476 \cdot 10^{-14}$	0
$e^+e^- \rightarrow e^+e^-$	$-7.959 \cdot 10^{-5}$	$-7.959 \cdot 10^{-5}$	0	$6.062 \cdot 10^{-7}$	$6.062 \cdot 10^{-7}$	0

$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$-4.123 \cdot 10^{-12} -4.123 \cdot 10^{-12}$	0	$3.028 \cdot 10^{-14} 3.028 \cdot 10^{-14} \qquad 0$
$s\bar{s} \to s\bar{s}$	$4.068 \cdot 10^{-11}$ $4.068 \cdot 10^{-11}$	0	$5.427 \cdot 10^{-14} 5.427 \cdot 10^{-14} \qquad 0$
$t\bar{t} o t\bar{t}$	$1.791 \cdot 10^{-9}$ $1.791 \cdot 10^{-9}$	0	$4.141 \cdot 10^{-11} 4.141 \cdot 10^{-11} \qquad 0$
$u\bar{u} \to \nu_e \bar{\nu}_e$	$-3.056 \cdot 10^{-12} -3.056 \cdot 10^{-12}$	0	$2.245 \cdot 10^{-14} 2.245 \cdot 10^{-14} \qquad 0$
$u\bar{u} \to u\bar{u}$	$-4.012 \cdot 10^{-7}$ $-4.012 \cdot 10^{-7}$	0	$8.297 \cdot 10^{-9}$ $8.297 \cdot 10^{-9}$ 0

2.15 cHudRe

	interference				square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH o zt \bar t$	$1.776 \cdot 10^{-13}$	$1.776 \cdot 10^{-13}$	0	$3.95 \cdot 10^{-19}$	$3.95 \cdot 10^{-19}$	0	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$HW^+ \to \gamma t \bar{b}$	$-1.225 \cdot 10^{-13}$	$-1.225 \cdot 10^{-13}$	0	$1.917 \cdot 10^{-19}$	$1.917 \cdot 10^{-19}$	0	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$3.921 \cdot 10^{-10}$	$3.921 \cdot 10^{-10}$	0	$6.209 \cdot 10^{-15}$	$6.209 \cdot 10^{-15}$	0	
$W^+W^- o Hb\bar{b}$	$-1.085 \cdot 10^{-10}$	$-1.085 \cdot 10^{-10}$	0	$1.37 \cdot 10^{-17}$	$1.37 \cdot 10^{-17}$	0	
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- o H d \bar d$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} \to \nu_e \bar{\nu}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} \to t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1	

$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \rightarrow \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} o s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$tg \to bW^+$	$1.18 \cdot 10^{-11}$	$1.18 \cdot 10^{-11}$	0	$2.484 \cdot 10^{-16}$	$2.484 \cdot 10^{-16}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.16 cW

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	
$W^+W^- \to H c \bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	

$\nu_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} o \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \rightarrow e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.17 cdBRe

	interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH o z \bar b b$	$2.464 \cdot 10^{-15}$	$2.464 \cdot 10^{-15}$	0	$1.303 \cdot 10^{-20}$	$1.303 \cdot 10^{-20}$	0		
$HH \to zc\bar{c}$	$-3.37 \cdot 10^{-16}$	$-3.37 \cdot 10^{-16}$	0	$5.114 \cdot 10^{-22}$	$5.114 \cdot 10^{-22}$	0		
$HH \to z t \bar{t}$	$9.568 \cdot 10^{-13}$	$9.568 \cdot 10^{-13}$	0	$1.429 \cdot 10^{-18}$	$1.429 \cdot 10^{-18}$	0		
$HH \rightarrow zz$	$-2.961 \cdot 10^{-9}$	$-2.961 \cdot 10^{-9}$	0	$7.843 \cdot 10^{-14}$	$7.843 \cdot 10^{-14}$	0		
$Hz \to \mu^+\mu^-$	$1.308 \cdot 10^{-14}$	$1.308 \cdot 10^{-14}$	0	$2.497 \cdot 10^{-19}$	$2.497 \cdot 10^{-19}$	0		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.513 \cdot 10^{-14}$	$1.513 \cdot 10^{-14}$	0	$2.885 \cdot 10^{-19}$	$2.885 \cdot 10^{-19}$	0		
$Hz \to s\bar{s}$	$5.866 \cdot 10^{-14}$	$5.866 \cdot 10^{-14}$	0	$1.119 \cdot 10^{-18}$	$1.119 \cdot 10^{-18}$	0		

$Hz \to t\bar{t}$	$-1.407 \cdot 10^{-10}$	$-1.407 \cdot 10^{-10}$	0	$9.854 \cdot 10^{-16}$	$9.854 \cdot 10^{-16}$	0
$W^+W^- \to H b \bar b$	$-1.741 \cdot 10^{-13}$	$-1.741 \cdot 10^{-13}$	0	$2.984 \cdot 10^{-17}$	$2.984 \cdot 10^{-17}$	0
$W^+W^- \to Hc\bar{c}$	$6.365 \cdot 10^{-15}$	$6.365 \cdot 10^{-15}$	0	$3.422 \cdot 10^{-19}$	$3.422 \cdot 10^{-19}$	0
$W^+W^- \to H d\bar{d}$	$-2.724 \cdot 10^{-14}$	$-2.724 \cdot 10^{-14}$	0	$7.363 \cdot 10^{-19}$	$7.363 \cdot 10^{-19}$	0
$W^+W^- \to W^+W^-$	$-2.857 \cdot 10^{-6}$	$-2.857 \cdot 10^{-6}$	0	$5.386 \cdot 10^{-11}$	$5.386 \cdot 10^{-11}$	0
$\nu_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	$3.887 \cdot 10^{-15}$	$3.887 \cdot 10^{-15}$	0	$7.411 \cdot 10^{-20}$	$7.411 \cdot 10^{-20}$	0
$b\bar{b} \rightarrow \mu^+ \mu^-$	$5.374 \cdot 10^{-15}$	$5.374 \cdot 10^{-15}$	0	$5.837 \cdot 10^{-20}$	$5.837 \cdot 10^{-20}$	0
$b\bar{b} o u_e \bar{ u}_e$	$1.454 \cdot 10^{-14}$	$1.454 \cdot 10^{-14}$	0	$2.772 \cdot 10^{-19}$	$2.772 \cdot 10^{-19}$	0
b ar b o b ar b	$-2.509 \cdot 10^{-12}$	$-2.509 \cdot 10^{-12}$	0	$1.033 \cdot 10^{-17}$	$1.033 \cdot 10^{-17}$	0
$b\bar{b} o t\bar{t}$	$4.435 \cdot 10^{-14}$	$4.435 \cdot 10^{-14}$	0	$1.785 \cdot 10^{-19}$	$1.785 \cdot 10^{-19}$	0
$c\bar{c} \to \mu^+ \mu^-$	$8.478 \cdot 10^{-15}$	$8.478 \cdot 10^{-15}$	0	$4.921 \cdot 10^{-20}$	$4.921 \cdot 10^{-20}$	0
$d\bar{d} \to c\bar{c}$	$1.393 \cdot 10^{-14}$	$1.393 \cdot 10^{-14}$	0	$1.97 \cdot 10^{-19}$	$1.97 \cdot 10^{-19}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$2.424 \cdot 10^{-13}$	$2.424 \cdot 10^{-13}$	0	$4.622 \cdot 10^{-18}$	$4.622 \cdot 10^{-18}$	0
$e^+\nu_e \to e^+\nu_e$	$7.882 \cdot 10^{-13}$	$7.882 \cdot 10^{-13}$	0	$7.658 \cdot 10^{-18}$	$7.658 \cdot 10^{-18}$	0
$e^+\tau^- \to e^+\tau^-$	$-2.877 \cdot 10^{-13}$	$-2.877 \cdot 10^{-13}$	0	$1.973 \cdot 10^{-18}$	$1.973 \cdot 10^{-18}$	0
$e^+e^- \to \mu^+\mu^-$	$-3.276 \cdot 10^{-14}$	$-3.276 \cdot 10^{-14}$	0	$1.429 \cdot 10^{-19}$	$1.429 \cdot 10^{-19}$	0
$e^+e^- \rightarrow e^+e^-$	$-1.725 \cdot 10^{-13}$	$-1.725 \cdot 10^{-13}$	0	$8.126 \cdot 10^{-19}$	$8.126 \cdot 10^{-19}$	0
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$2.589 \cdot 10^{-15}$	$2.589 \cdot 10^{-15}$	0	$4.936 \cdot 10^{-20}$	$4.936 \cdot 10^{-20}$	0
$s\bar{s} \to s\bar{s}$	$-3.55 \cdot 10^{-11}$	$-3.55 \cdot 10^{-11}$	0	$1.136 \cdot 10^{-14}$	$1.136 \cdot 10^{-14}$	0
$t\bar{t} \to t\bar{t}$	$-1.513 \cdot 10^{-12}$	$-1.513 \cdot 10^{-12}$	0	$2.327 \cdot 10^{-17}$	$2.327 \cdot 10^{-17}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$1.001 \cdot 10^{-14}$	$1.001 \cdot 10^{-14}$	0	$1.908 \cdot 10^{-19}$	$1.908 \cdot 10^{-19}$	0
$u\bar{u} \to u\bar{u}$	$-7.557 \cdot 10^{-13}$	$-7.557 \cdot 10^{-13}$	0	$2.425 \cdot 10^{-18}$	$2.425 \cdot 10^{-18}$	0

2.18 cdGRe

$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} o \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.19 cdHRe

		interferen	ce		square			
	mod1		$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-{\tt mod2/mod1}$		
$HH \to HH$	$-1.485 \cdot 10^{-12}$	$-1.485 \cdot 10^{-12}$	0	$2.263 \cdot 10^{-14}$	$2.263 \cdot 10^{-14}$	0		
$HH \to H \tau^+ \tau^-$	$6.953 \cdot 10^{-24}$	$6.953 \cdot 10^{-24}$	0		$2.8 \cdot 10^{-23}$	0		
$HH o Hbar{b}$	$1.382 \cdot 10^{-14}$	$1.382 \cdot 10^{-14}$	0		$4.882 \cdot 10^{-16}$	0		
$HH o W^+W^-$	$-3.282 \cdot 10^{-10}$	$-3.282 \cdot 10^{-10}$	0	$8.007 \cdot 10^{-16}$ 8	$8.007 \cdot 10^{-16}$	0		
$HH \to W^+W^-\gamma$	$-5.128 \cdot 10^{-15}$	$-5.128 \cdot 10^{-15}$	0	$3.898 \cdot 10^{-21}$	$3.898 \cdot 10^{-21}$	0		
$HH o W^+ e^- \bar{\nu}_e$	$1.335 \cdot 10^{-18}$	$1.335 \cdot 10^{-18}$	0		$6.119 \cdot 10^{-24}$	0		
$HH \to W^- u \bar{d}$	$7.401 \cdot 10^{-17}$	$7.401 \cdot 10^{-17}$	0		$2.655 \cdot 10^{-24}$	0		
$HH \to z\bar{b}b$	$8.576 \cdot 10^{-17}$	$8.576 \cdot 10^{-17}$	0	$4.948 \cdot 10^{-24}$	$4.948 \cdot 10^{-24}$	0		
$HH \to zc\bar{c}$	$-8.291 \cdot 10^{-18}$	$-8.291 \cdot 10^{-18}$	0	$7.694 \cdot 10^{-24}$	$7.694 \cdot 10^{-24}$	0		
$HH \to z t \bar{t}$	$-1.162 \cdot 10^{-14}$	$-1.162 \cdot 10^{-14}$	0	$2.422 \cdot 10^{-21}$	$2.422 \cdot 10^{-21}$	0		
$HH \rightarrow zz$	$-2.28 \cdot 10^{-10}$	$-2.28 \cdot 10^{-10}$	0	$3.975 \cdot 10^{-16}$	$3.975 \cdot 10^{-16}$	0		
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		
$W^+W^- \to H b \bar b$	$3.468 \cdot 10^{-13}$	$3.468 \cdot 10^{-13}$	0	$2.671 \cdot 10^{-18}$	$2.671 \cdot 10^{-18}$	0		
$W^+W^- o Hc\bar{c}$	$1.83 \cdot 10^{-17}$	$1.83 \cdot 10^{-17}$	0	$3.772 \cdot 10^{-23}$	$3.772 \cdot 10^{-23}$	0		
$W^+W^- \to H d\bar{d}$	$1.374 \cdot 10^{-22}$	$1.381 \cdot 10^{-22}$	-0.005127	$3.036 \cdot 10^{-27}$	$3.036 \cdot 10^{-27}$	0		
$W^+W^- o W^+W^-$	$-1.777 \cdot 10^{-7}$	$-1.777 \cdot 10^{-7}$	0	$1.524 \cdot 10^{-13}$	$1.524 \cdot 10^{-13}$	0		
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1		
$b\bar{b} o \mu^+\mu^-$	$7.618 \cdot 10^{-25}$	$7.598 \cdot 10^{-25}$	0.002654	$2.423 \cdot 10^{-26}$	$2.423 \cdot 10^{-26}$	0		
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1		
$b\bar{b} o b\bar{b}$	$1.693 \cdot 10^{-16}$	$1.693 \cdot 10^{-16}$	$-1.181 \cdot 10^{-7}$	$7.61 \cdot 10^{-22}$	$7.61 \cdot 10^{-22}$	0		
$b\bar{b} o t\bar{t}$	$-6.797 \cdot 10^{-16}$	$-6.797 \cdot 10^{-16}$	0	$1.712 \cdot 10^{-19}$	$1.712 \cdot 10^{-19}$			
$c\bar{c} \to \mu^+ \mu^-$	$6.314 \cdot 10^{-26}$		0.0156	$2.237 \cdot 10^{-27}$	$2.237 \cdot 10^{-27}$			
$d\bar{d} \to c\bar{c}$	$2.28 \cdot 10^{-25}$	$7.216 \cdot 10^{-28}$	0.9968	$1.311 \cdot 10^{-29}$	$1.311 \cdot 10^{-29}$	0		
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1		

$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	$7.03 \cdot 10^{-29}$	1	$2.366 \cdot 10^{-30}$	$2.366 \cdot 10^{-30}$	0
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	$3.083 \cdot 10^{-32}$	1	$1.087 \cdot 10^{-33}$	$1.087 \cdot 10^{-33}$	0
$e^+e^- \rightarrow e^+e^-$	$1.211 \cdot 10^{-18}$	$8.287 \cdot 10^{-21}$	0.9932	$1.415 \cdot 10^{-34}$	$4.866 \cdot 10^{-36}$	0.9656
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$1.869 \cdot 10^{-20}$	$1.869 \cdot 10^{-20}$	$-3.29 \cdot 10^{-5}$	$5.804 \cdot 10^{-29}$	$5.804 \cdot 10^{-29}$	$-1.551 \cdot 10^{-7}$
$t\bar{t} \to t\bar{t}$	$-3.21 \cdot 10^{-12}$	$-3.21 \cdot 10^{-12}$	0	$4.511 \cdot 10^{-15}$	$4.511 \cdot 10^{-15}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$1.032 \cdot 10^{-20}$	$4.251 \cdot 10^{-21}$	0.5879	$1.119 \cdot 10^{-33}$	$1.118 \cdot 10^{-33}$	0.000827
$zz o W^+W^-$	$-1.03 \cdot 10^{-7}$	$-1.03 \cdot 10^{-7}$	0	$4.038 \cdot 10^{-14}$	$4.038 \cdot 10^{-14}$	0

2.20 cdWRe

	interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH \to z\bar{b}b$	$4.601 \cdot 10^{-15}$	$4.601 \cdot 10^{-15}$	0	$4.545 \cdot 10^{-20}$	$4.545 \cdot 10^{-20}$	0		
$HH \to zc\bar{c}$	$-6.294 \cdot 10^{-16}$	$-6.294 \cdot 10^{-16}$	0	$1.783 \cdot 10^{-21}$	$1.783 \cdot 10^{-21}$	0		
$HH \to zt\bar{t}$	$-3.2 \cdot 10^{-14}$	$-3.2 \cdot 10^{-14}$	0	$3.56 \cdot 10^{-18}$	$3.56 \cdot 10^{-18}$	0		
$HH \rightarrow zz$	$-5.53 \cdot 10^{-9}$	$-5.53 \cdot 10^{-9}$	0	$2.735 \cdot 10^{-13}$	$2.735 \cdot 10^{-13}$	0		
$HW^+ o \gamma t \bar{b}$	$2.244 \cdot 10^{-12}$	$2.244 \cdot 10^{-12}$	0	$3.125 \cdot 10^{-18}$	$3.125 \cdot 10^{-18}$	0		
$Hz \to \mu^+\mu^-$	$2.443 \cdot 10^{-14}$	$2.443 \cdot 10^{-14}$	0	$8.708 \cdot 10^{-19}$	$8.708 \cdot 10^{-19}$	0		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$2.826 \cdot 10^{-14}$	$2.826 \cdot 10^{-14}$	0	$1.006 \cdot 10^{-18}$	$1.006 \cdot 10^{-18}$	0		
$Hz \to s\bar{s}$	$1.095 \cdot 10^{-13}$	$1.095 \cdot 10^{-13}$	0	$3.903 \cdot 10^{-18}$	$3.903 \cdot 10^{-18}$	0		
$Hz \to t\bar{t}$	$9.502 \cdot 10^{-10}$	$9.502 \cdot 10^{-10}$	0	$3.912 \cdot 10^{-14}$	$3.912 \cdot 10^{-14}$	0		
$W^+W^- \to H b \bar b$	$-7.65 \cdot 10^{-12}$	$-7.65 \cdot 10^{-12}$	0	$9.371 \cdot 10^{-18}$	$9.371 \cdot 10^{-18}$	0		
$W^+W^- o Hc\bar{c}$	$1.189 \cdot 10^{-14}$	$1.189 \cdot 10^{-14}$	0	$1.193 \cdot 10^{-18}$	$1.193 \cdot 10^{-18}$	0		
$W^+W^- \to H d\bar{d}$	$-5.086 \cdot 10^{-14}$	$-5.086 \cdot 10^{-14}$	0	$2.568 \cdot 10^{-18}$	$2.568 \cdot 10^{-18}$	0		
$W^+W^- o W^+W^-$	$-5.335 \cdot 10^{-6}$	$-5.335 \cdot 10^{-6}$	0	$1.878 \cdot 10^{-10}$	$1.878 \cdot 10^{-10}$	0		
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$7.258 \cdot 10^{-15}$	$7.258 \cdot 10^{-15}$	0	$2.584 \cdot 10^{-19}$	$2.584 \cdot 10^{-19}$	0		

$b\bar{b} \to \mu^+ \mu^-$	$1.004 \cdot 10^{-14}$ $1.004 \cdot 10^{-14}$	0	$2.035 \cdot 10^{-19} 2.035 \cdot 10^{-19} 0$
$b\bar{b} o u_e \bar{ u}_e$	$2.715 \cdot 10^{-14}$ $2.715 \cdot 10^{-14}$	0	$9.667 \cdot 10^{-19} 9.667 \cdot 10^{-19} \qquad 0$
$b\bar{b} o b\bar{b}$	$-4.686 \cdot 10^{-12} -4.686 \cdot 10^{-12}$	0	$3.601 \cdot 10^{-17} 3.601 \cdot 10^{-17} \qquad 0$
$b\bar{b} \to t\bar{t}$	$8.282 \cdot 10^{-14}$ $8.282 \cdot 10^{-14}$	0	$6.226 \cdot 10^{-19} 6.226 \cdot 10^{-19} \qquad 0$
$c\bar{c} \to \mu^+ \mu^-$	$1.583 \cdot 10^{-14}$ $1.583 \cdot 10^{-14}$	0	$1.716 \cdot 10^{-19} 1.716 \cdot 10^{-19} \qquad 0$
$d\bar{d} \to c\bar{c}$	$2.602 \cdot 10^{-14}$ $2.602 \cdot 10^{-14}$	0	$6.869 \cdot 10^{-19} 6.869 \cdot 10^{-19} \qquad 0$
$e^+\nu_\mu \to e^+\nu_\mu$	$4.526 \cdot 10^{-13}$ $4.526 \cdot 10^{-13}$	0	$1.612 \cdot 10^{-17} 1.612 \cdot 10^{-17} \qquad 0$
$e^+\nu_e \to e^+\nu_e$	$1.472 \cdot 10^{-12}$ $1.472 \cdot 10^{-12}$	0	$2.67 \cdot 10^{-17} \qquad 2.67 \cdot 10^{-17} \qquad \qquad 0$
$e^+\tau^- \to e^+\tau^-$	$-5.373 \cdot 10^{-13} -5.373 \cdot 10^{-13}$	0	$6.879 \cdot 10^{-18} 6.879 \cdot 10^{-18} \qquad 0$
$e^+e^- \to \mu^+\mu^-$	$-6.117 \cdot 10^{-14} -6.117 \cdot 10^{-14}$	0	$4.984 \cdot 10^{-19} 4.984 \cdot 10^{-19} \qquad 0$
$e^+e^- \rightarrow e^+e^-$	$-3.222 \cdot 10^{-13} -3.222 \cdot 10^{-13}$	0	$2.834 \cdot 10^{-18} 2.834 \cdot 10^{-18} \qquad 0$
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$4.835 \cdot 10^{-15}$ $4.835 \cdot 10^{-15}$	0	$1.721 \cdot 10^{-19} 1.721 \cdot 10^{-19} \qquad 0$
$s\bar{s} \to s\bar{s}$	$-6.63 \cdot 10^{-11}$ $-6.63 \cdot 10^{-11}$	0	$3.962 \cdot 10^{-14} 3.962 \cdot 10^{-14} \qquad 0$
$t\bar{t} o t\bar{t}$	$-2.825 \cdot 10^{-12} -2.825 \cdot 10^{-12}$	0	$8.115 \cdot 10^{-17} 8.115 \cdot 10^{-17} \qquad 0$
$tg \to bW^+$	$2.536 \cdot 10^{-11}$ $2.536 \cdot 10^{-11}$	0	$2.045 \cdot 10^{-15} 2.045 \cdot 10^{-15}$
$u\bar{u} \to \nu_e \bar{\nu}_e$	$1.869 \cdot 10^{-14}$ $1.869 \cdot 10^{-14}$	0	$6.654 \cdot 10^{-19} 6.654 \cdot 10^{-19} \qquad 0$
$u\bar{u} \to u\bar{u}$	$-1.411 \cdot 10^{-12} -1.411 \cdot 10^{-12}$	0	$8.455 \cdot 10^{-18} 8.455 \cdot 10^{-18} \qquad 0$

2.21 cdd

	interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
HH o z ar b b	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH o zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1		
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		

$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- o Hd\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- \rightarrow W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} \to \mu^+\mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
$bar{b} ightarrow bar{ar{b}}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \rightarrow c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e^- \rightarrow e^+\nu_e^-$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \rightarrow e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

$2.22 \quad \text{cdd1}$

	interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	1 - mod2/mod1		
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \rightarrow zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		

$HH o zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
$Hz \rightarrow \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} o \mu^+\mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
b ar b o b ar b	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
b ar b o t ar t	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- o \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.23 ceBRe

		interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1		
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1		
$W^+W^- o Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1		
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1		
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1		
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1		
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1		
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1		
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1		
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1		
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1		
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1		
$e^+\nu_{\mu} \to e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1		
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1		
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1		
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1		
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1		
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1		
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1		
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1		

$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$ 0	1

2.24 ceHRe

	interference			square
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	$\verb mod1 \qquad \verb mod2 \qquad 1-\verb mod2 \\ \verb mod1 $
HH o HH	$-1.599 \cdot 10^{-13}$	$-1.599 \cdot 10^{-13}$	0	$2.625 \cdot 10^{-16} 2.625 \cdot 10^{-16} 0$
$HH \to H \tau^+ \tau^-$	$7.488 \cdot 10^{-25}$	$7.488 \cdot 10^{-25}$	0	$3.247 \cdot 10^{-25} 3.247 \cdot 10^{-25} \qquad 0$
$HH o Hbar{b}$	$1.488 \cdot 10^{-15}$	$1.488 \cdot 10^{-15}$	0	$5.663 \cdot 10^{-18} 5.663 \cdot 10^{-18} $
$HH \to W^+W^-$	$-3.535 \cdot 10^{-11}$	$-3.535 \cdot 10^{-11}$	0	$9.287 \cdot 10^{-18} 9.287 \cdot 10^{-18} $
$HH o W^+W^-\gamma$	$-5.522 \cdot 10^{-16}$	$-5.522 \cdot 10^{-16}$	0	$4.521 \cdot 10^{-23} 4.521 \cdot 10^{-23}$
$HH \to W^+ e^- \bar{\nu}_e$	$1.438 \cdot 10^{-19}$	$1.438 \cdot 10^{-19}$	0	$7.097 \cdot 10^{-26} 7.097 \cdot 10^{-26} 0$
$HH \to W^- u \bar{d}$	$7.971 \cdot 10^{-18}$	$7.971 \cdot 10^{-18}$	0	$3.079 \cdot 10^{-26} 3.079 \cdot 10^{-26} 0$
$HH o z \bar{b} b$	$9.236 \cdot 10^{-18}$	$9.236 \cdot 10^{-18}$	0	$5.739 \cdot 10^{-26} 5.739 \cdot 10^{-26} \qquad 0$
$HH \to z c \bar{c}$	$-8.929 \cdot 10^{-19}$	$-8.929 \cdot 10^{-19}$	0	$8.924 \cdot 10^{-26} 8.924 \cdot 10^{-26} 0$
$HH o zt \bar t$	$-1.251 \cdot 10^{-15}$	$-1.251 \cdot 10^{-15}$	0	$2.809 \cdot 10^{-23} 2.809 \cdot 10^{-23} $
$HH \rightarrow zz$	$-2.455 \cdot 10^{-11}$	$-2.455 \cdot 10^{-11}$	0	$4.61 \cdot 10^{-18}$ $4.61 \cdot 10^{-18}$ 0
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$ 0 1
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$ 0 1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0 1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$ 0 1
$W^+W^- \to H b \bar b$	$3.734 \cdot 10^{-14}$	$3.734 \cdot 10^{-14}$	0	$3.098 \cdot 10^{-20} 3.098 \cdot 10^{-20} 0$
$W^+W^- \to H c \bar{c}$	$1.971 \cdot 10^{-18}$	$1.971 \cdot 10^{-18}$	$-2.03 \cdot 10^{-7}$	$4.375 \cdot 10^{-25} 4.375 \cdot 10^{-25} $
$W^+W^- \to H d\bar{d}$	$1.417 \cdot 10^{-23}$	$1.488 \cdot 10^{-23}$	-0.04972	$3.521 \cdot 10^{-29} 3.521 \cdot 10^{-29} \qquad 0$
$W^+W^- o W^+W^-$	$-1.914 \cdot 10^{-8}$	$-1.914 \cdot 10^{-8}$	0	$1.767 \cdot 10^{-15} 1.767 \cdot 10^{-15} \qquad 0$
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0 1
$b\bar{b} \to \mu^+ \mu^-$	$8.385 \cdot 10^{-26}$		0.02411	$2.811 \cdot 10^{-28} 2.811 \cdot 10^{-28} 0$
$b\bar{b} \to \nu_e \bar{\nu}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$ 0 1

$b\bar{b} o b\bar{b}$	$1.823 \cdot 10^{-17}$	$1.823 \cdot 10^{-17}$	$-1.591 \cdot 10^{-6}$	$8.826 \cdot 10^{-24}$	$8.826 \cdot 10^{-24}$	0
b ar b o t ar t	$-7.32 \cdot 10^{-17}$	$-7.32 \cdot 10^{-17}$	0	$1.985 \cdot 10^{-21}$	$1.985 \cdot 10^{-21}$	0
$c\bar{c} \to \mu^+ \mu^-$	$7.679 \cdot 10^{-27}$	$6.694 \cdot 10^{-27}$	0.1283	$2.595 \cdot 10^{-29}$	$2.595 \cdot 10^{-29}$	0
$d\bar{d} \to c\bar{c}$	$2.274 \cdot 10^{-25}$	$7.771 \cdot 10^{-29}$	0.9997	$1.521 \cdot 10^{-31}$	$1.521 \cdot 10^{-31}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e^- \rightarrow e^+\nu_e^-$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	$7.571 \cdot 10^{-30}$	1	$2.744 \cdot 10^{-32}$	$2.744 \cdot 10^{-32}$	0
$e^+e^- \rightarrow \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	$3.32 \cdot 10^{-33}$	1	$1.26 \cdot 10^{-35}$	$1.26 \cdot 10^{-35}$	$3.174 \cdot 10^{-7}$
$e^+e^- \rightarrow e^+e^-$	$1.204 \cdot 10^{-18}$	$8.924 \cdot 10^{-22}$	0.9993	$1.384 \cdot 10^{-34}$	$5.643 \cdot 10^{-38}$	0.9996
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$2.012 \cdot 10^{-21}$	$2.013 \cdot 10^{-21}$	-0.0003056	$6.731 \cdot 10^{-31}$	$6.731 \cdot 10^{-31}$	$-1.307 \cdot 10^{-6}$
$t\bar{t} \to t\bar{t}$	$-3.457 \cdot 10^{-13}$	$-3.457 \cdot 10^{-13}$	0	$5.232 \cdot 10^{-17}$	$5.232 \cdot 10^{-17}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.523 \cdot 10^{-21}$	$4.578 \cdot 10^{-22}$	0.9298	$1.475 \cdot 10^{-35}$	$1.296 \cdot 10^{-35}$	0.1214
$zz \to W^+W^-$	$-1.109 \cdot 10^{-8}$	$-1.109 \cdot 10^{-8}$	0	$4.684 \cdot 10^{-16}$	$4.684 \cdot 10^{-16}$	0

2.25 ceWRe

		inte	erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- o Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	

$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- o H d \bar d$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \rightarrow W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} o \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
b ar b o b ar b	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} o t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.26 ced

		$\mathrm{int}\epsilon$	erference		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH o z \bar b b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1		
$HH \to z c \bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1		
HH o zt ar t	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1		
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1		

$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \to \mu^+\mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} \to \nu_e \bar{\nu}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
b ar b o b ar b	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.27 cee

interference

square

	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
$HH \to z c \bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
HH o zt ar t	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hbar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- o Hd\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \rightarrow W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \to \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} \to \nu_e \bar{\nu}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1

2.28 ceu

		inte	erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- o Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1	
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1	
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1	
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1	
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1	

$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.29 cld

		$\mathrm{int}\epsilon$	erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH o zt\bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- o Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1	
$W^+W^- o H d \bar d$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1	

$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \rightarrow \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$sar{s} ightarrow sar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.30 cle

		erference		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH o z \bar b b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- o Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1

$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$b\bar{b} \to \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$b\bar{b} \to \nu_e \bar{\nu}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$ $-8.808 \cdot 10^{-24}$ 0 1 $7.89 \cdot 10^{-40}$ 0 1 $u\bar{u} \to \nu_e \bar{\nu}_e$ 5.827 · 10 ⁻²⁶ 0 1 6.469 · 10 ⁻⁴² 0 1	$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$ 5.827 · 10 ⁻²⁶ 0 1 6.469 · 10 ⁻⁴² 0 1	$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
	$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to u\bar{u}$	$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
	$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.31 cledqRe

		interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH o z \bar b b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1		
$HH \to z c \bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1		
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1		
HH o zz	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1		
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1		
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		

$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$-4.4\cdot10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1
	$\begin{array}{c} -1.586 \cdot 10^{-25} \\ -1.664 \cdot 10^{-17} \\ 2.263 \cdot 10^{-26} \\ 3.129 \cdot 10^{-26} \\ 8.466 \cdot 10^{-26} \\ -1.461 \cdot 10^{-23} \\ 2.582 \cdot 10^{-25} \\ 4.937 \cdot 10^{-26} \\ 8.112 \cdot 10^{-26} \\ 1.411 \cdot 10^{-24} \\ 4.589 \cdot 10^{-24} \\ -1.907 \cdot 10^{-25} \\ -1.005 \cdot 10^{-24} \\ 1.508 \cdot 10^{-26} \\ -2.067 \cdot 10^{-22} \\ -8.808 \cdot 10^{-24} \\ 5.827 \cdot 10^{-26} \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

2.32 clequ1Re

		$\mathrm{int}\epsilon$	erference		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	1 - mod2/mod1		
$HH o z \bar b b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to z c \bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to z t \bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		

$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
$Hz o u_{ au} \bar{ u}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- o H d \bar d$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$ u_e \bar{ u}_e ightarrow u_\mu \bar{ u}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} \to \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.33 clequ3Re

		inte	erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- o Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1	
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1	
$e^+\nu_{\mu} \to e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1	
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1	
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1	
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1	
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1	
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1	
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1	

$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0 1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$ 0 1

2.34 cll

		interference				square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$			
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1			
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1			
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1			
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1			
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1			
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1			
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1			
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1			
$W^+W^- \to Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1			
$W^+W^- o Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1			
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1			
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1			
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1			
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1			
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1			
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1			
b ar b o t ar t	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1			
$c\bar{c} \to \mu^+\mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1			
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1			
$e^+\nu_{\mu} \rightarrow e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1			
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1			
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1			
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1			

$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

$2.35 \quad \text{cll1}$

		interfere	ence		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
HH o HH	$2.783 \cdot 10^{-13}$	$2.783 \cdot 10^{-13}$	0	$2.045 \cdot 10^{-15}$	$2.045 \cdot 10^{-15}$	0		
$HH \to H \tau^+ \tau^-$	$-3.808 \cdot 10^{-22}$	$-3.808 \cdot 10^{-22}$	0	$1.875 \cdot 10^{-23}$	$1.875 \cdot 10^{-23}$	0		
$HH o Hbar{b}$	$1.38 \cdot 10^{-20}$	$1.38 \cdot 10^{-20}$	0	$3.841 \cdot 10^{-22}$	$3.841 \cdot 10^{-22}$	0		
$HH \to W^+W^-$	$5.085 \cdot 10^{-6}$	$5.085 \cdot 10^{-6}$	0	$1.888 \cdot 10^{-7}$	$1.888 \cdot 10^{-7}$	0		
$HH o W^+W^-\gamma$	$8.271 \cdot 10^{-11}$	$8.271 \cdot 10^{-11}$	0	$6.374 \cdot 10^{-12}$	$6.374 \cdot 10^{-12}$	0		
$HH \to W^+ e^- \bar{\nu}_e$	$-1.017 \cdot 10^{-12}$	$-1.017 \cdot 10^{-12}$	0	$3.144 \cdot 10^{-15}$	$3.144 \cdot 10^{-15}$	0		
$HH \to W^- u \bar{d}$	$-3.403 \cdot 10^{-11}$	$-3.403 \cdot 10^{-11}$	0	$8.733 \cdot 10^{-14}$	$8.733 \cdot 10^{-14}$	0		
$HH o z \bar{b} b$	$-3.917 \cdot 10^{-12}$	$-3.917 \cdot 10^{-12}$	0	$3.294 \cdot 10^{-14}$	$3.294 \cdot 10^{-14}$	0		
$HH \to zc\bar{c}$	$5.359 \cdot 10^{-13}$	$5.359 \cdot 10^{-13}$	0	$1.293 \cdot 10^{-15}$	$1.293 \cdot 10^{-15}$	0		
$HH \to z t \bar{t}$	$-2.253 \cdot 10^{-9}$	$-2.253 \cdot 10^{-9}$	0	$7.132 \cdot 10^{-12}$	$7.132 \cdot 10^{-12}$	0		
$HH \rightarrow zz$	$4.708 \cdot 10^{-6}$	$4.708 \cdot 10^{-6}$	0	$1.982 \cdot 10^{-7}$	$1.982 \cdot 10^{-7}$	0		
$HW^+ \to \gamma t \bar{b}$	$8.328 \cdot 10^{-10}$	$8.328 \cdot 10^{-10}$	0	$6.32 \cdot 10^{-13}$	$6.32 \cdot 10^{-13}$	0		
$HW^+ \to \gamma u \bar{d}$	$1.705 \cdot 10^{-10}$	$1.705 \cdot 10^{-10}$	0	$2.121 \cdot 10^{-13}$	$2.121 \cdot 10^{-13}$	0		
$HW^+ o u \bar d$	$-1.815 \cdot 10^{-11}$	$-1.815 \cdot 10^{-11}$	0	$5.5 \cdot 10^{-13}$	$5.5 \cdot 10^{-13}$	0		
$HW^- \to \gamma e^- \bar{\nu}_e$	$-1.108 \cdot 10^{-12}$	$-1.108 \cdot 10^{-12}$	0	$7.573 \cdot 10^{-15}$	$7.573 \cdot 10^{-15}$	0		
$HW^- \to \mu^- \bar{\nu}_{\mu}$	$-5.534 \cdot 10^{-12}$	$-5.534 \cdot 10^{-12}$	0	$1.682 \cdot 10^{-13}$	$1.682 \cdot 10^{-13}$	0		
$Hz \rightarrow \mu^+ \mu^-$	$-2.079 \cdot 10^{-11}$	$-2.079 \cdot 10^{-11}$	0	$6.311 \cdot 10^{-13}$	$6.311 \cdot 10^{-13}$	0		
$Hz o u_{ au} \bar{ u}_{ au}$	$-2.405 \cdot 10^{-11}$	$-2.405 \cdot 10^{-11}$	0	$7.291 \cdot 10^{-13}$	$7.291 \cdot 10^{-13}$	0		

$Hz \to s\bar{s}$	$-9.325 \cdot 10^{-11}$	$-9.325 \cdot 10^{-11}$	0	$2.828 \cdot 10^{-12}$	$2.828 \cdot 10^{-12}$	0
$Hz \to t\bar{t}$	$7.115 \cdot 10^{-7}$	$7.115 \cdot 10^{-7}$	0	$2.228 \cdot 10^{-8}$	$2.228 \cdot 10^{-8}$	0
$W^+W^- \to H b \bar b$	$-1.569 \cdot 10^{-9}$	$-1.569 \cdot 10^{-9}$	0	$1.283 \cdot 10^{-10}$	$1.283 \cdot 10^{-10}$	0
$W^+W^- \to H c \bar{c}$	$-8.918 \cdot 10^{-12}$	$-8.918 \cdot 10^{-12}$	0	$7.269 \cdot 10^{-13}$	$7.269 \cdot 10^{-13}$	0
$W^+W^- \to H d\bar{d}$	$3.892 \cdot 10^{-11}$	$3.892 \cdot 10^{-11}$	0	$1.651 \cdot 10^{-12}$	$1.651 \cdot 10^{-12}$	0
$W^+W^- \to W^+W^-$	0.004542	0.004542	0	0.0001361	0.0001361	0
$W^+W^- \to \gamma\gamma$	$1.997 \cdot 10^{-7}$	$1.997 \cdot 10^{-7}$	0	$5.972 \cdot 10^{-9}$	$5.972 \cdot 10^{-9}$	0
$W^+W^- \to \gamma\gamma\gamma$	$-1.683 \cdot 10^{-13}$	$-1.683 \cdot 10^{-13}$	0	$9.899 \cdot 10^{-14}$	$9.899 \cdot 10^{-14}$	0
$\bar{b}t \to \bar{d}u$	$-1.145 \cdot 10^{-12}$	$-1.145 \cdot 10^{-12}$	0	$3.472 \cdot 10^{-14}$	$3.472 \cdot 10^{-14}$	0
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$-6.179 \cdot 10^{-12}$	$-6.179 \cdot 10^{-12}$	0	$1.873 \cdot 10^{-13}$	$1.873 \cdot 10^{-13}$	0
$b\bar{b} o \mu^+ \mu^-$	$-8.543 \cdot 10^{-12}$	$-8.543 \cdot 10^{-12}$	0	$1.475 \cdot 10^{-13}$	$1.475 \cdot 10^{-13}$	0
$b\bar{b} o u_e \bar{ u}_e$	$-2.311 \cdot 10^{-11}$	$-2.311 \cdot 10^{-11}$	0	$7.006 \cdot 10^{-13}$	$7.006 \cdot 10^{-13}$	0
$b\bar{b} o b\bar{b}$	$3.99 \cdot 10^{-9}$	$3.99 \cdot 10^{-9}$	0	$2.61 \cdot 10^{-11}$	$2.61 \cdot 10^{-11}$	0
b ar b o t ar t	$3.297 \cdot 10^{-9}$	$3.297 \cdot 10^{-9}$	0	$2.133 \cdot 10^{-10}$	$2.133 \cdot 10^{-10}$	0
$b\bar{t} \to e^-\bar{\nu}_e$	$-4.962 \cdot 10^{-11}$	$-4.962 \cdot 10^{-11}$	0	$1.504 \cdot 10^{-12}$	$1.504 \cdot 10^{-12}$	0
$c\bar{c} \to \mu^+ \mu^-$	$-1.348 \cdot 10^{-11}$	$-1.348 \cdot 10^{-11}$	0	$1.244 \cdot 10^{-13}$	$1.244 \cdot 10^{-13}$	0
$c\bar{s} \to \tau^+ \nu_{\tau}$	$-3.577 \cdot 10^{-13}$	$-3.577 \cdot 10^{-13}$	0	$1.084 \cdot 10^{-14}$	$1.084 \cdot 10^{-14}$	0
$d\bar{d} \to c\bar{c}$	$-2.215 \cdot 10^{-11}$	$-2.215 \cdot 10^{-11}$	0	$4.978 \cdot 10^{-13}$	$4.978 \cdot 10^{-13}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$-3.853 \cdot 10^{-10}$	$-3.853 \cdot 10^{-10}$	0	$1.168 \cdot 10^{-11}$	$1.168 \cdot 10^{-11}$	0
$e^+\nu_e \to \mu^+\nu_\mu$	$-8.341 \cdot 10^{-11}$	$-8.341 \cdot 10^{-11}$	0	$2.528 \cdot 10^{-12}$	$2.528 \cdot 10^{-12}$	0
$e^+\nu_e \to e^+\nu_e$	$-1.456 \cdot 10^{-9}$	$-1.456 \cdot 10^{-9}$	0	$1.508 \cdot 10^{-11}$	$1.508 \cdot 10^{-11}$	0
$e^+\tau^- \to e^+\tau^-$	$4.574 \cdot 10^{-10}$	$4.574 \cdot 10^{-10}$	0	$4.986 \cdot 10^{-12}$	$4.986 \cdot 10^{-12}$	0
$e^+e^- \to \mu^+\mu^-$	$5.208 \cdot 10^{-11}$	$5.208 \cdot 10^{-11}$	0	$3.612 \cdot 10^{-13}$	$3.612 \cdot 10^{-13}$	0
$e^+e^- \rightarrow e^+e^-$	$2.743 \cdot 10^{-10}$	$2.743 \cdot 10^{-10}$	0	$2.054 \cdot 10^{-12}$	$2.054 \cdot 10^{-12}$	0
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$-4.116 \cdot 10^{-12}$	$-4.116 \cdot 10^{-12}$	0	$1.248 \cdot 10^{-13}$	$1.248 \cdot 10^{-13}$	0
$s\bar{s} \to s\bar{s}$	$5.644 \cdot 10^{-8}$	$5.644 \cdot 10^{-8}$	0	$2.872 \cdot 10^{-8}$	$2.872 \cdot 10^{-8}$	0
$t\bar{t} \to t\bar{t}$	$2.406 \cdot 10^{-9}$	$2.406 \cdot 10^{-9}$	0	$5.886 \cdot 10^{-11}$	$5.886 \cdot 10^{-11}$	0
$tg \to bW^+$	$1.02 \cdot 10^{-8}$	$1.02 \cdot 10^{-8}$	0	$3.308 \cdot 10^{-10}$	$3.308 \cdot 10^{-10}$	0
$u\bar{d} \to c\bar{s}$	$-1.54 \cdot 10^{-10}$	$-1.54 \cdot 10^{-10}$	0	$4.668 \cdot 10^{-12}$	$4.668 \cdot 10^{-12}$	0

$u\bar{u} \to \nu_e \bar{\nu}_e$	$-1.591 \cdot 10^{-11} -1.591 \cdot 10^{-11}$	0	$4.822 \cdot 10^{-13} 4.822 \cdot 10^{-13}$	0
$u\bar{u} \to u\bar{u}$	$1.201 \cdot 10^{-9}$ $1.201 \cdot 10^{-9}$	0	$6.128 \cdot 10^{-12} 6.128 \cdot 10^{-12}$	0
$zz \to W^+W^-$	$0.008136 \qquad 0.008136$	0	$0.0002419 \qquad 0.0002419$	0

$2.36 \quad \mathrm{clq1}$

		inte	erference		square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1		
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1		
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1		
$W^+W^- o Hd\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1		
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1		
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1		
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1		
$b\bar{b} \rightarrow \nu_e \bar{\nu}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1		
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1		
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1		
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1		
$d\bar{d} \rightarrow c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1		
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1		
$e^+\nu_e^- \to e^+\nu_e^-$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1		

$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \rightarrow \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

$2.37 \quad \mathrm{clq}3$

		erference		square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1	
$b\bar{b} \to \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1	

$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \rightarrow \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.38 clu

		interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to z c \bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to z t \bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1		
$Hz o \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		
$W^+W^- \to H b \bar b$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1		
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1		
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1		
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1		

$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
$b\bar{b} \to t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.39 cqd1

		erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz o u_{ au} \bar{ u}_{ au}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \rightarrow s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1

$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- o Hd\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \rightarrow \mu^+\mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$bar{b} ightarrow bar{ar{b}}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \rightarrow c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e^- \rightarrow e^+\nu_e^-$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} o s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.40 cqd8

		interference				square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	1 - mod2/mod1			
$HH o z \bar b b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1			
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1			

$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} o \mu^+\mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
b ar b o b ar b	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
b ar b o t ar t	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} o t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.41 cqe

		inte	erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- o Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1	
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1	
$e^+\nu_{\mu} \to e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1	
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1	
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1	
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1	
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1	
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1	
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1	

$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$ 0	1

$2.42 \quad \mathrm{cqq1}$

	interference				square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$		
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1		
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1		
$HH \to zt\bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1		
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1		
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1		
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		
$W^+W^- \to Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1		
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1		
$W^+W^- o Hd\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1		
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1		
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1		
$b\bar{b} \to \mu^+\mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1		
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1		
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1		
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1		
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1		
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1		
$e^+\nu_{\mu} \rightarrow e^+\nu_{\mu}$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1		
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1		
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1		

$e^+e^- \rightarrow \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \rightarrow u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.43 cqq11

		inte	erference		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to zt\bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	
$W^+W^- o Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1	
$b\bar{b} \to \nu_e \bar{\nu}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1	

$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.44 cqq3

		erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1

$ u_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} o \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \rightarrow e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

$2.45 \quad \text{cqq} 31$

		interference			square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to zt\bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	

$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- o Hd\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \rightarrow \mu^+\mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$bar{b} ightarrow bar{ar{b}}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \rightarrow c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e^- \rightarrow e^+\nu_e^-$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} o s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.46 cqu1

		erference	square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	1 - mod2/mod1
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
$HH \rightarrow zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1

$HH o zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
$Hz o \bar{\nu_{ au}}\bar{\nu_{ au}}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} o \mu^+\mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
b ar b o b ar b	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
b ar b o t ar t	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- o \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.47 cqu8

		inte	erference		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- \to H c \bar c$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} o \mu^+\mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{\nu}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
b ar b o t ar t	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1	
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1	
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
$e^+\nu_e \rightarrow e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1	
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1	
$e^+e^- \rightarrow \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1	
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1	
$s\bar{s} o u_{ au} \bar{ u}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1	
$s\bar{s} o s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1	
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1	

$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$ 0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$ 0	1

2.48 cquqd11Re

	interference				square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1		
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1		
$W^+W^- \to Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1		
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1		
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1		
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1		
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1		
$b\bar{b} \to \mu^+\mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1		
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1		
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1		
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1		
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1		
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1		
$e^+\nu_{\mu} \rightarrow e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1		
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1		
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1		

$e^+e^- \rightarrow \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.49 cquqd1Re

		erference		square			
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to H b \bar b$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- \to H c \bar c$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} o \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	

$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \rightarrow c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \rightarrow \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.50 cquqd81Re

		erference		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
HH o zt ar t	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- o Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	

$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \rightarrow \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.51 cquqd8Re

	interference				square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	

	0.40 40 22	0		2 2 4 4 2 38		
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- o H d \bar d$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- \to W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} \rightarrow \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \rightarrow c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

2.52 cuBRe

		interference			square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH o z \bar b b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to z c \bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1		

$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- o H d \bar d$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.53 cuGRe

		inte	erference		square		
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- o Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- o Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- o W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1	
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1	
$e^+\nu_{\mu} \rightarrow e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1	
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1	
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1	
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1	
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1	
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1	
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1	
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1	

$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.54 cuHRe

		interfere	square	
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	$\verb mod1 \qquad \verb mod2 \qquad 1-\verb mod2/mod1 $
HH o HH	$-7.372 \cdot 10^{-14}$	$-7.372 \cdot 10^{-14}$	0	$5.578 \cdot 10^{-17} 5.578 \cdot 10^{-17} \qquad 0$
$HH \to H \tau^+ \tau^-$	$3.452 \cdot 10^{-25}$	$3.452 \cdot 10^{-25}$	0	$6.901 \cdot 10^{-26} 6.901 \cdot 10^{-26} 0$
$HH o Hbar{b}$	$6.86 \cdot 10^{-16}$	$6.86 \cdot 10^{-16}$	0	$1.203 \cdot 10^{-18} 1.203 \cdot 10^{-18} \qquad 0$
$HH \to W^+W^-$	$-1.63 \cdot 10^{-11}$	$-1.63 \cdot 10^{-11}$	0	$1.974 \cdot 10^{-18} 1.974 \cdot 10^{-18} \qquad 0$
$HH o W^+W^-\gamma$	$-2.546 \cdot 10^{-16}$	$-2.546 \cdot 10^{-16}$	0	$9.608 \cdot 10^{-24} 9.608 \cdot 10^{-24} \qquad 0$
$HH \to W^+ e^- \bar{\nu}_e$	$6.628 \cdot 10^{-20}$	$6.628 \cdot 10^{-20}$	0	$1.508 \cdot 10^{-26} 1.508 \cdot 10^{-26} \qquad 0$
$HH \to W^- u \bar{d}$	$3.675 \cdot 10^{-18}$	$3.675 \cdot 10^{-18}$	0	$6.544 \cdot 10^{-27} 6.544 \cdot 10^{-27} \qquad 0$
HH o z ar b b	$4.258 \cdot 10^{-18}$	$4.258 \cdot 10^{-18}$	0	$1.22 \cdot 10^{-26} \qquad 1.22 \cdot 10^{-26} \qquad \qquad 0$
$HH \to z c \bar{c}$	$-4.116 \cdot 10^{-19}$	$-4.116 \cdot 10^{-19}$	0	$1.896 \cdot 10^{-26} 1.896 \cdot 10^{-26} 0$
HH o zt ar t	$-5.769 \cdot 10^{-16}$	$-5.769 \cdot 10^{-16}$	0	$5.969 \cdot 10^{-24} 5.969 \cdot 10^{-24} \qquad 0$
$HH \rightarrow zz$	$-1.132 \cdot 10^{-11}$	$-1.132 \cdot 10^{-11}$	0	$9.797 \cdot 10^{-19} 9.797 \cdot 10^{-19} 0$
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$ 0 1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$ 0 1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$ 0 1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$ 0 1
$W^+W^- \to Hb\bar{b}$	$1.722 \cdot 10^{-14}$	$1.722 \cdot 10^{-14}$	$5.809 \cdot 10^{-8}$	$6.583 \cdot 10^{-21} 6.583 \cdot 10^{-21} $
$W^+W^- \to Hc\bar{c}$	$9.084 \cdot 10^{-19}$	$9.084 \cdot 10^{-19}$	$-4.183 \cdot 10^{-7}$	$9.297 \cdot 10^{-26} 9.297 \cdot 10^{-26} 0$
$W^+W^- \to H d\bar{d}$	$6.154 \cdot 10^{-24}$	$6.859 \cdot 10^{-24}$	-0.1145	$7.484 \cdot 10^{-30} 7.484 \cdot 10^{-30} \qquad 0$
$W^+W^- o W^+W^-$		$-8.822 \cdot 10^{-9}$	9 0	$3.756 \cdot 10^{-16} 3.756 \cdot 10^{-16} 0$
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$ 0 1
$b\bar{b} \to \mu^+\mu^-$	$3.974 \cdot 10^{-26}$		0.05087	$5.973 \cdot 10^{-29} 5.973 \cdot 10^{-29} \qquad 0$
$b\bar{b} \to \nu_e \bar{\nu}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$ 0 1

$b\bar{b} o b\bar{b}$	$8.404 \cdot 10^{-18}$	$8.404 \cdot 10^{-18}$	$-3.379 \cdot 10^{-6}$	$1.876 \cdot 10^{-24}$	$1.876 \cdot 10^{-24}$	0
b ar b o t ar t	$-3.375 \cdot 10^{-17}$	$-3.375 \cdot 10^{-17}$	0	$4.219 \cdot 10^{-22}$	$4.219 \cdot 10^{-22}$	0
$c\bar{c} \to \mu^+ \mu^-$	$4.071 \cdot 10^{-27}$	$3.086 \cdot 10^{-27}$	0.242	$5.514 \cdot 10^{-30}$	$5.514 \cdot 10^{-30}$	0
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	$3.583 \cdot 10^{-29}$	0.9998	$3.231 \cdot 10^{-32}$	$3.231 \cdot 10^{-32}$	0
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	$3.49 \cdot 10^{-30}$	1	$5.832 \cdot 10^{-33}$	$5.832 \cdot 10^{-33}$	$1.372 \cdot 10^{-7}$
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	$1.531 \cdot 10^{-33}$	1	$2.678 \cdot 10^{-36}$	$2.678 \cdot 10^{-36}$	$1.27\cdot 10^{-6}$
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	$4.114 \cdot 10^{-22}$	0.9997	$1.384 \cdot 10^{-34}$	$1.199 \cdot 10^{-38}$	0.9999
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$9.274 \cdot 10^{-22}$	$9.28 \cdot 10^{-22}$	-0.0006631	$1.431 \cdot 10^{-31}$	$1.431 \cdot 10^{-31}$	$-2.796 \cdot 10^{-6}$
$t\bar{t} \to t\bar{t}$	$-1.594 \cdot 10^{-13}$	$-1.594 \cdot 10^{-13}$	0	$1.112 \cdot 10^{-17}$	$1.112 \cdot 10^{-17}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.276 \cdot 10^{-21}$	$2.11 \cdot 10^{-22}$	0.9664	$4.602 \cdot 10^{-36}$	$2.755 \cdot 10^{-36}$	0.4014
$zz \to W^+W^-$	$-5.112 \cdot 10^{-9}$	$-5.112 \cdot 10^{-9}$	0	$9.954 \cdot 10^{-17}$	$9.954 \cdot 10^{-17}$	0

2.55 cuWRe

		interfere	ence		square			
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$		
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1		
$HH \to z c \bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1		
$HH \to z t \bar{t}$	$-7.274 \cdot 10^{-10}$	$-7.274 \cdot 10^{-10}$	0	$6.628 \cdot 10^{-12}$	$6.628 \cdot 10^{-12}$	0		
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1		
$HW^+ \to \gamma t \bar{b}$	$5.018 \cdot 10^{-10}$	$5.018 \cdot 10^{-10}$	0	$3.217 \cdot 10^{-12}$	$3.217 \cdot 10^{-12}$	0		
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1		
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1		
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1		
$Hz \to t\bar{t}$	$-1.606 \cdot 10^{-6}$	$-1.606 \cdot 10^{-6}$	0	$1.042 \cdot 10^{-7}$	$1.042 \cdot 10^{-7}$	0		

$W^+W^- \to H b \bar b$	$4.443 \cdot 10^{-7}$	$4.443 \cdot 10^{-7}$	0	$2.299 \cdot 10^{-10}$	$2.299 \cdot 10^{-10}$	0
$W^+W^- \to H c \bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- \rightarrow W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
$b\bar{b} \to t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$tg \to bW^+$	$-4.834 \cdot 10^{-8}$	$-4.834 \cdot 10^{-8}$	0	$4.169 \cdot 10^{-9}$	$4.169 \cdot 10^{-9}$	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

$2.56 \quad \text{cud} 1$

$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to H b \bar b$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1
$W^+W^- \to H c \bar c$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1
$\nu_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1
$b\bar{b} o \mu^+\mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1
$b\bar{b} ightarrow u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1
b ar b o b ar b	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1
b ar b o t ar t	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1
$t\bar{t} o t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$	0	1

$2.57 \quad \text{cud8}$

		inte	erference		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-{\tt mod2/mod1}$	
$HH \to z\bar{b}b$	$1.435 \cdot 10^{-26}$	0	1	$4.419 \cdot 10^{-43}$	0	1	
$HH \to zc\bar{c}$	$-1.963 \cdot 10^{-27}$	0	1	$1.734 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$5.571 \cdot 10^{-24}$	0	1	$4.843 \cdot 10^{-41}$	0	1	
$HH \rightarrow zz$	$-1.724 \cdot 10^{-20}$	0	1	$2.659 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.616 \cdot 10^{-26}$	0	1	$8.466 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$8.81 \cdot 10^{-26}$	0	1	$9.781 \cdot 10^{-42}$	0	1	
$Hz \to s\bar{s}$	$3.415 \cdot 10^{-25}$	0	1	$3.794 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.19 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$-1.014 \cdot 10^{-24}$	0	1	$1.012 \cdot 10^{-39}$	0	1	
$W^+W^- o Hc\bar{c}$	$3.706 \cdot 10^{-26}$	0	1	$1.16 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-1.586 \cdot 10^{-25}$	0	1	$2.496 \cdot 10^{-41}$	0	1	
$W^+W^- o W^+W^-$	$-1.664 \cdot 10^{-17}$	0	1	$1.826 \cdot 10^{-33}$	0	1	
$ u_e \bar{\nu}_e \to \nu_\mu \bar{\nu}_\mu$	$2.263 \cdot 10^{-26}$	0	1	$2.513 \cdot 10^{-42}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$3.129 \cdot 10^{-26}$	0	1	$1.979 \cdot 10^{-42}$	0	1	
$b\bar{b} o u_e \bar{ u}_e$	$8.466 \cdot 10^{-26}$	0	1	$9.399 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-1.461 \cdot 10^{-23}$	0	1	$3.501 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$2.582 \cdot 10^{-25}$	0	1	$6.053 \cdot 10^{-42}$	0	1	
$c\bar{c} \to \mu^+ \mu^-$	$4.937 \cdot 10^{-26}$	0	1	$1.668 \cdot 10^{-42}$	0	1	
$d\bar{d} \to c\bar{c}$	$8.112 \cdot 10^{-26}$	0	1	$6.678 \cdot 10^{-42}$	0	1	
$e^+\nu_{\mu} \rightarrow e^+\nu_{\mu}$	$1.411 \cdot 10^{-24}$	0	1	$1.567 \cdot 10^{-40}$	0	1	
$e^+\nu_e \to e^+\nu_e$	$4.589 \cdot 10^{-24}$	0	1	$2.596 \cdot 10^{-40}$	0	1	
$e^+\tau^- \to e^+\tau^-$	$-1.675 \cdot 10^{-24}$	0	1	$6.688 \cdot 10^{-41}$	0	1	
$e^+e^- o \mu^+\mu^-$	$-1.907 \cdot 10^{-25}$	0	1	$4.845 \cdot 10^{-42}$	0	1	
$e^+e^- \rightarrow e^+e^-$	$-1.005 \cdot 10^{-24}$	0	1	$2.755 \cdot 10^{-41}$	0	1	
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	$1.508 \cdot 10^{-26}$	0	1	$1.674 \cdot 10^{-42}$	0	1	
$s\bar{s} \to s\bar{s}$	$-2.067 \cdot 10^{-22}$	0	1	$3.852 \cdot 10^{-37}$	0	1	
$t\bar{t} \to t\bar{t}$	$-8.808 \cdot 10^{-24}$	0	1	$7.89 \cdot 10^{-40}$	0	1	

$u\bar{u} \to \nu_e \bar{\nu}_e$	$5.827 \cdot 10^{-26}$	0	1	$6.469 \cdot 10^{-42}$ 0	1
$u\bar{u} \to u\bar{u}$	$-4.4 \cdot 10^{-24}$	0	1	$8.22 \cdot 10^{-41}$ 0	1

2.58 cuu

		erference		square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$
$HH \to z\bar{b}b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1
$HH \to zt\bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1
$W^+W^- \to Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1
$W^+W^- \to Hc\bar{c}$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1
$ u_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1
$b\bar{b} \to \mu^+\mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1
$b\bar{b} o u_e \bar{ u}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1
$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_{\mu} \rightarrow e^+\nu_{\mu}$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1

$e^+e^- \to \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{ au} \bar{\nu}_{ au}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} o t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \rightarrow u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.59 cuu1

		interference			square		
	mod1	mod2	$1-{\tt mod2/mod1}$	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	
$HH o z \bar{b} b$	$-3.354 \cdot 10^{-27}$	0	1	$7.775 \cdot 10^{-44}$	0	1	
$HH \to zc\bar{c}$	$-3.681 \cdot 10^{-28}$	0	1	$3.684 \cdot 10^{-44}$	0	1	
$HH \to z t \bar{t}$	$-2.796 \cdot 10^{-24}$	0	1	$1.552 \cdot 10^{-40}$	0	1	
$HH \rightarrow zz$	$-1.404 \cdot 10^{-20}$	0	1	$1.635 \cdot 10^{-36}$	0	1	
$Hz \to \mu^+\mu^-$	$7.787 \cdot 10^{-26}$	0	1	$8.656 \cdot 10^{-42}$	0	1	
$Hz \to \nu_{ au} \bar{\nu}_{ au}$	$1.38 \cdot 10^{-25}$	0	1	$1.532 \cdot 10^{-41}$	0	1	
$Hz \to s\bar{s}$	$3.368 \cdot 10^{-25}$	0	1	$3.741 \cdot 10^{-41}$	0	1	
$Hz \to t\bar{t}$	$-8.762 \cdot 10^{-22}$	0	1	$3.341 \cdot 10^{-38}$	0	1	
$W^+W^- \to Hb\bar{b}$	$4.146 \cdot 10^{-22}$	0	1	$5.345 \cdot 10^{-39}$	0	1	
$W^+W^- \to H c \bar c$	$-3.746 \cdot 10^{-25}$	0	1	$2.836 \cdot 10^{-41}$	0	1	
$W^+W^- \to H d\bar{d}$	$-7.046 \cdot 10^{-25}$	0	1	$1.056 \cdot 10^{-40}$	0	1	
$W^+W^- \to W^+W^-$	$-2.941 \cdot 10^{-17}$	0	1	$3.214 \cdot 10^{-33}$	0	1	
$\nu_e \bar{\nu}_e \rightarrow \nu_\mu \bar{\nu}_\mu$	$4.21 \cdot 10^{-25}$	0	1	$4.674 \cdot 10^{-41}$	0	1	
$b\bar{b} \rightarrow \mu^+ \mu^-$	$2.022 \cdot 10^{-27}$	0	1	$1.559 \cdot 10^{-42}$	0	1	
$b\bar{b} \to \nu_e \bar{\nu}_e$	$7.853 \cdot 10^{-26}$	0	1	$8.719 \cdot 10^{-42}$	0	1	
$b\bar{b} o b\bar{b}$	$-2.844 \cdot 10^{-23}$	0	1	$8.419 \cdot 10^{-40}$	0	1	
$b\bar{b} o t\bar{t}$	$-2.912 \cdot 10^{-25}$	0	1	$2.986 \cdot 10^{-42}$	0	1	

$c\bar{c} \to \mu^+ \mu^-$	$9.852 \cdot 10^{-28}$	0	1	$1.192 \cdot 10^{-42}$	0	1
$d\bar{d} \to c\bar{c}$	$2.273 \cdot 10^{-25}$	0	1	$1.634 \cdot 10^{-41}$	0	1
$e^+\nu_\mu \to e^+\nu_\mu$	$4.923 \cdot 10^{-23}$	0	1	$5.466 \cdot 10^{-39}$	0	1
$e^+\nu_e \to e^+\nu_e$	$4.211 \cdot 10^{-23}$	0	1	$2.603 \cdot 10^{-39}$	0	1
$e^+\tau^- \to e^+\tau^-$	$-7.042 \cdot 10^{-24}$	0	1	$7.898 \cdot 10^{-40}$	0	1
$e^+e^- o \mu^+\mu^-$	$-5.924 \cdot 10^{-26}$	0	1	$3.372 \cdot 10^{-42}$	0	1
$e^+e^- \rightarrow e^+e^-$	$1.203 \cdot 10^{-18}$	0	1	$1.385 \cdot 10^{-34}$	0	1
$s\bar{s} \to \nu_{\tau} \bar{\nu}_{\tau}$	$6.232 \cdot 10^{-26}$	0	1	$6.919 \cdot 10^{-42}$	0	1
$s\bar{s} \to s\bar{s}$	$-6.15 \cdot 10^{-25}$	0	1	$1.24 \cdot 10^{-41}$	0	1
$t\bar{t} \to t\bar{t}$	$-2.708 \cdot 10^{-23}$	0	1	$9.462 \cdot 10^{-39}$	0	1
$u\bar{u} \to \nu_e \bar{\nu}_e$	$4.619 \cdot 10^{-26}$	0	1	$5.128 \cdot 10^{-42}$	0	1
$u\bar{u} \to u\bar{u}$	$6.065 \cdot 10^{-21}$	0	1	$1.896 \cdot 10^{-36}$	0	1

2.60 sm

			interference	square	
	mod1	mod2	$1-\mathtt{mod}2/\mathtt{mod}1$	$\verb mod1 \qquad \verb mod2 \qquad 1-\verb mod2 $	d2/mod1
HH o HH	0	0	0	0.04824 0.04824)
$HH \to H \tau^+ \tau^-$	0	0	0	$2.193 \cdot 10^{-10} 2.193 \cdot 10^{-10}$)
$HH o Hbar{b}$	0	0	0	$2.235 \cdot 10^{-6} \qquad 2.235 \cdot 10^{-6} $)
$HH \rightarrow W^+W^-$	0	0	0	0.09208 0.09208)
$HH o W^+W^-\gamma$	0	0	0	$1.083 \cdot 10^{-5}$ $1.083 \cdot 10^{-5}$ ()
$HH \to W^+ e^- \bar{\nu}_e$	0	0	0	$1.313 \cdot 10^{-7}$ $1.313 \cdot 10^{-7}$ (Э
$HH \to W^- u \bar{d}$	0	0	0	$1.462 \cdot 10^{-6}$ $1.462 \cdot 10^{-6}$ ()
$HH \to z\bar{b}b$	0	0	0	$3.459 \cdot 10^{-7}$ $3.459 \cdot 10^{-7}$ (Э
$HH \to zc\bar{c}$	0	0	0	$2.254 \cdot 10^{-7}$ $2.254 \cdot 10^{-7}$ (Э
$HH o zt\bar{t}$	0	0	0	$2.787 \cdot 10^{-6} 2.787 \cdot 10^{-6} ($)
$HH \rightarrow zz$	0	0	0	0.129 0.129	Э
$HW^+ \to \gamma t \bar{b}$	0	0	0	$1.654 \cdot 10^{-6} 1.654 \cdot 10^{-6} $)

$HW^+ \to \gamma u \bar{d}$	0	0	0	$4.37 \cdot 10^{-8}$ $4.37 \cdot 10^{-8}$	0
$HW^+ ightarrow u ar{d}$	0	0	0	$0.003011 \qquad 0.003011$	0
$HW^- \to \gamma e^- \bar{\nu}_e$	0	0	0	$0.0006105 \qquad 0.0006105$	0
$HW^- o \mu^- \bar{\nu}_\mu$	0	0	0	0.005535 0.005535	0
$Hz \rightarrow \mu^+\mu^-$	0	0	0	0.003333 0.003333	0
$Hz \to \nu_{\tau} \bar{\nu}_{\tau}$	0	0	0	$0.005903 \qquad 0.005903$	0
$Hz \to s\bar{s}$	0	0	0	$0.01441 \qquad 0.01441$	0
$Hz \to t\bar{t}$	0	0	0	2.288 2.288	0
$W^+W^- \to H b \bar b$	0	0	0	$0.003626 \qquad 0.003626$	0
$W^+W^- o Hc\bar{c}$	0	0	0	$7.292 \cdot 10^{-7}$ $7.292 \cdot 10^{-7}$	0
$W^+W^- \to H d\bar{d}$	0	0	0	$1.667 \cdot 10^{-6}$ $1.667 \cdot 10^{-6}$	0
$W^+W^- o W^+W^-$	0	0	0	27.54 27.54	0
$W^+W^- \to \gamma\gamma$	0	0	0	0.1077 0.1077	0
$W^+W^- \to \gamma\gamma\gamma$	0	0	0	$3.045 \cdot 10^{-6}$ $3.045 \cdot 10^{-6}$	0
$\bar{b}t \to \bar{d}u$	0	0	0	$0.01514 \qquad 0.01514$	0
$\nu_e \bar{\nu}_e o u_\mu \bar{\nu}_\mu$	0	0	0	$0.01801 \qquad 0.01801$	0
$b\bar{b} \rightarrow \mu^+ \mu^-$	0	0	0	$0.0004734 \qquad 0.0004734$	0
$b\bar{b} o u_e \bar{ u}_e$	0	0	0	$0.003359 \qquad 0.003359$	0
$b\bar{b} o b\bar{b}$	0	0	0	12.53 12.53	0
$b\bar{b} o t\bar{t}$	0	0	0	0.42 0.42	0
$b\bar{t} \to e^- \bar{\nu}_e$	0	0	0	$0.001972 \qquad 0.001972$	0
$c\bar{c} \to \mu^+ \mu^-$	0	0	0	$0.001416 \qquad 0.001416$	0
$c\bar{s} \to \tau^+ \nu_{\tau}$	0	0	0	$0.006609 \qquad 0.006609$	0
$d\bar{d} \to c\bar{c}$	0	0	0	$0.9039 \qquad \qquad 0.9039$	0
$e^+\nu_\mu \to e^+\nu_\mu$	0	0	0	0.1237 0.1237	0
$e^+\nu_e \to \mu^+\nu_\mu$	0	0	0	$0.02688 \qquad 0.02688$	0
$e^+\nu_e \to e^+\nu_e$	0	0	0	0.1669 0.1669	0
$e^+\tau^- \to e^+\tau^-$	0	0	0	$0.2309 \qquad \qquad 0.2309$	0
$e^+e^- o \mu^+\mu^-$	0	0	0	$0.007297 \qquad 0.007297$	0

$e^+e^- \rightarrow e^+e^-$	0	0	0	461.6	461.6	0
$s\bar{s} \to \nu_{\tau}\bar{\nu}_{\tau}$	0	0	0	0.002666	0.002666	0
$s\bar{s} \to s\bar{s}$	0	0	0	2.42	2.42	0
$t\bar{t} \to t\bar{t}$	0	0	0	50.79	50.79	0
$tg \to bW^+$	0	0	0	0.3345	0.3345	0
$u\bar{d} \to c\bar{s}$	0	0	0	0.002706	0.002706	0
$u\bar{u} \to \nu_e \bar{\nu}_e$	0	0	0	0.001976	0.001976	0
$u\bar{u} \to u\bar{u}$	0	0	0	935.4	935.4	0
$zz \to W^+W^-$	0	0	0	45.95	45.95	0