Topology Analysis * (v1.6.0)

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^{*}This package is implemented with reference to a program called Topo, which is developed by Prof. Shuxian Du from Zhengzhou University in China and has been widely used by people in BESIII collaboration. Several years ago, when I was a PhD student working on BESIII experiment, I learned the idea of topology analysis and a lot of programming techniques from the Topo program. So, I really appreciate Prof. Du's original work very much. To meet my own needs and to practice developing analysis tools with C++, ROOT and LaTex, I wrote the package from scratch. At that time, the package functioned well but was relatively simple. At the end of last year (2017), my co-supervisor, Prof. Chengping Shen reminded me that it could be a useful tool for Belle II experiment as well. So, I revised and extended it, making it more well-rounded and suitable for Belle II experiment. Here, I would like to thank Prof. Du for his original work, Prof. Shen for his suggestion and encouragement, and Wencheng Yan, Sen Jia, Yubo Li, Suxian Li, Longke Li, Guanda Gong, Junhao Yin, Xiaoping Qin, Xiqing Hao, HongPeng Wang, JiaWei Zhang for their efforts in helping me test the program.

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Table 1: Event trees and their respective initial-final states.

	Table 1. Event trees and then respective initial-inial states.				
index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
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	$e^+e^- o \Upsilon(4S), \Upsilon(4S) o B^0 \bar{B}^0, B^0 o \pi^0 \pi^0 \rho^0 \pi^+ \bar{D}^{*-}, \bar{B}^0 o \pi^+ D^0 D_s^{*-}, \rho^0 o \pi^+ \pi^-, \bar{D}^{*-} o \pi^- \bar{D}^0,$				
1	$D^0 o ho^+ K^{*-}, D_s^{*-} o D_s^- \gamma, \bar{D}^0 o \eta \eta', ho^+ o \pi^0 \pi^+, K^{*-} o \pi^- \bar{K}^0, D_s^- o e^- ar{ u}_e \phi,$	0	0	1	1
•	$\eta \to \pi^0 \pi^0 \pi^0, \eta' \to \pi^0 \pi^0 \eta, \bar{K}^0 \to K_S, \phi \to K^+ K^-, \eta \to \gamma \gamma, K_S \to \pi^0 \pi^0$				
	$(e^+e^- \to e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{-}K^{*+}J/\psi, \bar{B}^{0} \to \pi^{0}\pi^{-}D^{*+}, K^{*+} \to \pi^{+}K^{0}, J/\psi \to \pi^{+}K^{0}K^{*-}, K^{*+} \to \pi^{+}K^{0}K^{*-}, K^{0}K^{0}K^{0}K^{0}K^{0}K^{0}K^{0}K^{0}$				
2	$\pi^0 \to e^+ e^-, D^{*+} \to \pi^+ D^0, K^0 \to K_S, K^0 \to K_S, K^{*-} \to \pi^- \bar{K}^0, D^0 \to \pi^+ \pi^- \bar{K}^*,$	1	1	1	2
	$K_S \to \pi^0 \pi^0, K_S \to \pi^+ \pi^-, \bar{K}^0 \to K_S, \bar{K}^* \to \pi^+ K^-, K_S \to \pi^+ \pi^-$	_	1	_	_
	$(e^{+}e^{-} \to e^{+}e^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{*+}\bar{D}^{*-}D^{*0}, \bar{B}^{0} \to \pi^{0}\rho^{0}\rho^{-}\eta D^{+}, K^{*+} \to \pi^{+}K^{0}, \bar{D}^{*-} \to \pi^{0}D^{-},$				
3	$D^{*0} \to \pi^0 D^0, \rho^0 \to \pi^+ \pi^-, \rho^- \to \pi^0 \pi^-, \eta \to \gamma \gamma, D^+ \to e^+ \nu_e \bar{K}^0, K^0 \to K_L,$	2	2	1	3
	$D^{-} \to K_{L}\pi^{-}\pi^{-}K^{+}, D^{0} \to \pi^{0}\eta K_{S}, \bar{K}^{0} \to K_{S}, \eta \to \pi^{0}\pi^{+}\pi^{-}, K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{0}\pi^{0}$		2	1	
	$(e^+e^- \to e^+\nu_e K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}a_{1}^{+}, \bar{B}^{0} \to \pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, a_{1}^{+} \to \pi^{0}\rho^{+},$				
4	$D^{*+} \xrightarrow{\gamma} \pi^{+} D^{0}, \bar{D}^{0} \pi^{-} K^{+} \eta', \rho^{+} \pi^{0} \pi^{+}, D^{0} e^{+} \nu_{e} \pi^{-}, \eta' \pi^{+} \pi^{-} \eta, \pi^{0} e^{+} e^{-},$	3	3	1	4
4	$\eta o \gamma \gamma$	5	5	1	-1
	$(e^{+}e^{-} \to e^{+}e^{+}e^{-}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0B^0, B^0 \to D^-D'^+_{s1}, B^0 \to \pi^0\rho^+\omega\bar{D}^{*-}, D^- \to \pi^0\pi^-, D'^+_{s1} \to \pi^0D^{*+}_s,$				
5	$\rho^{+} \to \pi^{0} \pi^{+}, \omega \to \pi^{0} \pi^{+} \pi^{-}, \bar{D}^{*-} \to \pi^{-} \bar{D}^{0}, D_{s}^{*+} \to D_{s}^{+} \gamma, \bar{D}^{0} \to K_{L} \omega, D_{s}^{+} \to e^{+} \nu_{e} \phi,$	4	4	1	5
9	$\omega o \pi^0 \gamma, \phi o K^+ K^-$	4	4	1	3
	$(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \to \pi^+\pi^-D^+D_s^-, \bar{D}^{*-} \to \pi^-\bar{D}^0, D^+ \to e^+\nu_e\pi^+K^-,$				
6	$D_s^- o \pi^0 \pi^- \omega, \bar D^0 o \omega K_S, \omega o \pi^0 \pi^+ \pi^-, \omega o \pi^0 \pi^+ \pi^-, K_S o \pi^+ \pi^-$	5	5	1	6
	$(e^{+}e^{-} \to e^{+}e^{+}\nu_{e}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \pi^0\pi^0\pi^+\bar{D}^{*-}, \bar{B}^0 \to \pi^0K^*K^-D^+, \bar{D}^{*-} \to \pi^-\bar{D}^0, K^* \to \pi^-K^+,$				
7	$D^+ o \pi^0 \pi^+ \eta', ar{D}^0 o \mu^- ar{ u}_\mu K^+, \eta' o \pi^+ \pi^- \eta, \eta o \pi^0 \pi^0 \pi^0$	6	6	1	7
	$(e^+e^- \to \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \tau^{+}\nu_{\tau}\bar{D}^{*-}, B^{0} \to \pi^{0}\pi^{+}\eta\eta D^{-}, \tau^{+} \to e^{+}\nu_{e}\bar{\nu}_{\tau}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$				
8	$\eta \to \gamma \gamma, \eta \to \gamma \gamma, D^- \to \pi^0 \pi^- K^*, \bar{D}^0 \to \pi^0 \pi^+ \pi^- K^*, K^* \to \pi^0 K^0, K^* \to \pi^0 K^0,$	7	7	1	8
0	$K^0 o K_S, K^0 o K_L, K_S o \pi^+\pi^-$	'	1	1	0
	$(e^+e^- \to e^+\nu_e\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \pi^0\pi^+\pi^+\pi^-\bar{D}^{*-}, \bar{B}^0 \to \mu^-\bar{\nu}_\mu D^{*+}, \bar{D}^{*-} \to \pi^0D^-, D^{*+} \to \pi^+D^0,$				
9	$D^{-} \to \pi^{-} \omega K^{0}, D^{0} \to K_{L} \omega, \omega \to \pi^{0} \pi^{+} \pi^{-}, K^{0} \to K_{S}, \omega \to \pi^{0} \pi^{+} \pi^{-}, K_{S} \to \pi^{0} \pi^{0}$	8	8	1	9
	$(e^+e^- \to \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \gamma \gamma$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to K^0D^-D^{*+}, \bar{B}^0 \to D^{*+}D_s^{*-}, K^0 \to K_S, D^- \to \pi^-\pi^-K^+,$				
10	$D^{*+} \rightarrow \pi^0 D^+, D^{*+} \rightarrow \pi^0 D^+, D^{*-}_s \rightarrow D^s \gamma, K_S \rightarrow \pi^+ \pi^-, D^+ \rightarrow \mu^+ \nu_\mu \bar{K}^0, D^+ \rightarrow \pi^+ \eta',$		0	1	10
10	$D_s^- \to K^*K^{*-}, \bar{K}^0 \to K_L, \eta' \to \rho^0 \gamma, K^* \to \pi^-K^+, K^{*-} \to \pi^0K^-, \rho^0 \to \pi^+\pi^-$	9	9	1	10
	$(e^{+}e^{-} \to \mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
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index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \to \rho^0K^0K^{*-}D^+, \bar{D}^{*-} \to \pi^-\bar{D}^0, \rho^0 \to \pi^+\pi^-,$				
11	$K^0 \to K_L, K^{*-} \to \pi^0 K^-, D^+ \to \mu^+ \nu_\mu \bar{K}^0, \bar{D}^0 \to \rho^- K^{*+}, \bar{K}^0 \to K_L, \rho^- \to \pi^0 \pi^-,$	10	10	1	11
11	$K^{*+} ightarrow \pi^0 K^+$	10	10	1	11
	$(e^+e^- \to \mu^+\mu^+\nu_\mu\nu_\mu K_L K_L \pi^+\pi^-\pi^-\pi^- K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma)$				
12	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{-}K^{+}J/\psi, \bar{B}^{0} \to D^{+}D_{s}^{*-}, \rho^{-} \to \pi^{0}\pi^{-}, J/\psi \to e^{+}e^{-},$ $D^{+} \to \pi^{0}\pi^{+}K_{S}, D_{s}^{*-} \to D_{s}^{-}\gamma, K_{S} \to \pi^{0}\pi^{0}, D_{s}^{-} \to \tau^{-}\bar{\nu}_{\tau}, \tau^{-} \to \mu^{-}\bar{\nu}_{\mu}\nu_{\tau}$	11	11	1	12
12	$(e^+e^- \to e^+e^-\mu^-\bar{\nu}_\mu\nu_\tau\bar{\nu}_\tau\pi^+\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	11	11	1	12
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \pi^+\pi^-K^0D^0\bar{D}^0, \bar{B}^0 \to \pi^0\pi^+\rho^-\rho^-D^+, K^0 \to K_L, D^0 \to K_S\eta',$				
13	$\bar{D}^0 \to \rho^- K^{*+}, \rho^- \to \pi^0 \pi^-, \rho^- \to \pi^0 \pi^-, D^+ \to \mu^+ \nu_\mu \bar{K}^0, K_L \to \pi^0 \pi^0 \pi^0, K_S \to \pi^+ \pi^-,$	12	12	1	13
10	$\eta' \to \pi^+ \pi^- \eta, \rho^- \to \pi^0 \pi^-, K^{*+} \to \pi^0 K^+, \bar{K}^0 \to K_L, \eta \to \pi^0 \pi^+ \pi^-$	12	12	1	10
	$\frac{(e^{+}e^{-} \to \mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\eta\bar{D}^{*-}, \bar{B}^{0} \to K^{0}K^{*-}D^{*+}, \eta \to \pi^{0}\pi^{0}\pi^{0}, \bar{D}^{*-} \to \pi^{0}D^{-},}$				
	$K^{0} \rightarrow K_{S}, K^{*-} \rightarrow \pi^{0}K^{-}, D^{*+} \rightarrow \pi^{+}D^{0}, D^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}K^{0}, K_{S} \rightarrow \pi^{+}\pi^{-}, D^{0} \rightarrow \pi^{0}\rho^{0},$				
14	$K^0 o K_L, ho^0 o \pi^+\pi^-$	13	13	1	14
	$(e^+e^- \to \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma)$				
	$e^+e^- o \Upsilon(4S), \Upsilon(4S) o B^0 \bar{B}^0, B^0 o \rho^+ D^-, \bar{B}^0 o \pi^- K^+ K^- D^{*+}, \rho^+ o \pi^0 \pi^+, D^- o K_S a_1^-,$				
15	$D^{*+} \to \pi^{+}D^{0}, K_{S} \to \pi^{0}\pi^{0}, a_{1}^{-} \to \pi^{0}\rho^{-}, D^{0} \to \pi^{0}\pi^{+}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	14	14	1	15
	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\pi^+\eta\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \eta \rightarrow \pi^0\pi^0\pi^0, \bar{D}^{*-} \rightarrow \pi^0D^-,$				
16	$D^{*+} \to \pi^0 D^+, D^- \to \pi^+ \pi^- \pi^- \pi^- K^+, D^+ \to \mu^+ \nu_\mu \bar{K}^*, \bar{K}^* \to \pi^+ K^-$	15	15	1	16
	$\frac{(e^+e^-\to e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)}{e^+e^-\to\Upsilon(4S),\Upsilon(4S)\to B^0\bar{B}^0,B^0\to e^+\nu_e\bar{D}^{*-},\bar{B}^0\to\pi^0\pi^+K^{*-}D^0\bar{D}^{*0},\bar{D}^{*-}\to\pi^-\bar{D}^0,K^{*-}\to\pi^-\bar{K}^0,}$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{+}K^{*-}D^{0}\bar{D}^{*0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, K^{*-} \to \pi^{-}\bar{K}^{0},$				
17	$D^{0} \to K_{L}\pi^{+}\pi^{-}, \bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, \bar{D}^{0} \to \mu^{-}\bar{\nu}_{\mu}K^{+}, \bar{K}^{0} \to K_{S}, \bar{D}^{0} \to \pi^{+}\pi^{-}K_{S}K_{S}, K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{0}\pi^{0}, K_{S} \to \pi^{+}\pi^{-}$	16	16	1	17
	$(e^+e^- \to e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow K^{*}D^{-}D^{*+}, \bar{B}^{0} \rightarrow \pi^{0}\eta\bar{K}^{0}K^{-}D^{*}, K^{*} \rightarrow \pi^{0}K^{0}, D^{-} \rightarrow \pi^{-}\pi^{-}K^{+},$				
18	$D^{*+} \to \pi^+ D^0, \eta \to \gamma \gamma, \bar{K}^0 \to K_L, D_s^+ \to \mu^+ \nu_\mu \phi, K^0 \to K_S, D^0 \to \pi^0 \pi^+ K^{*-},$	17	17	1	18
10	$\phi \to K^+ K^-, K_S \to \pi^0 \pi^0, K^{*-} \to \pi^- \bar{K}^0, \bar{K}^0 \to K_L$	11	11	1	10
	$\frac{(e^{+}e^{-} \to \mu^{+}\nu_{\mu}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}D_{s}^{*+}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D_{s}^{*+} \to D_{s}^{+}\gamma,}$				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
19	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	18	18	1	19
	$\frac{(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\rho^{-}\bar{D}^{*0}, D_{2}^{*-} \to \pi^{-}\bar{D}^{*0}, \rho^{-} \to \pi^{0}\pi^{-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\rho^{-}\bar{D}^{*0}, D_{2}^{*-} \to \pi^{-}\bar{D}^{*0}, \rho^{-} \to \pi^{0}\pi^{-}, b^{0} \to \pi^{0}\pi^{-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \pi^{0}\pi^{-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \pi^{0}\pi^{-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \pi^{0}\pi^{-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \pi^{0}\pi^{-}, b^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, b^{0} \to \mu^{+}$				
20	$\bar{D}^{*0} \to \pi^0 \bar{D}^0, \bar{D}^{*0} \to \pi^0 \bar{D}^0, \bar{D}^0 \to K^+ a_1^-, \bar{D}^0 \to \pi^0 K_L \pi^+ \pi^-, a_1^- \to \rho^0 \pi^-, \rho^0 \to \pi^+ \pi^-$	19	19	1	20
	$(e^{+}e^{-} \to \mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
21	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, \bar{B}^{0} \to \pi^{0}\bar{K}^{*}K^{+}K^{-}, D^{*+} \to \pi^{+}D^{0}, \bar{K}^{*} \to \pi^{0}\bar{K}^{0},$ $D^{0} \to \pi^{0}K_{L}, \bar{K}^{0} \to K_{L}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}K_{L}K_{L}\pi^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	20	20	1	21
22	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{+}\omega K^{0}K^{*-}\bar{D}^{*-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, K^{0} \to K_{S},$ $K^{*-} \to \pi^{0}K^{-}, \bar{D}^{*-} \to \pi^{0}D^{-}, D^{*+} \to \pi^{0}D^{+}, K_{S} \to \pi^{+}\pi^{-}, D^{-} \to \pi^{-}\pi^{-}K^{+}, D^{+} \to K_{L}a_{1}^{+},$ $K_{L} \to \mu^{+}\nu_{\mu}\pi^{-}, a_{1}^{+} \to \pi^{+}f_{0}(600)$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}f_{0}(600)\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}D_{s}^{*+}, \bar{B}^{0} \to \pi^{0}\pi^{0}\rho^{-}\eta\omega D^{*+}, \bar{D}^{*-} \to \pi^{0}D^{-}, D_{s}^{*+} \to D_{s}^{+}\gamma,$	21	21	1	22
23	$\rho^{-} \rightarrow \pi^{0}\pi^{-}, \eta \rightarrow \pi^{0}\pi^{0}\pi^{0}, \omega \rightarrow \pi^{0}\pi^{+}\pi^{-}, D^{*+} \rightarrow \pi^{+}D^{0}, D^{-} \rightarrow \pi^{-}K_{S}, D^{+}_{s} \rightarrow \rho^{+}\eta',$ $D^{0} \rightarrow K^{-}a^{+}_{1}, K_{S} \rightarrow \pi^{0}\pi^{0}, \rho^{+} \rightarrow \pi^{0}\pi^{+}, \eta' \rightarrow \rho^{0}\gamma, a^{+}_{1} \rightarrow \pi^{+}\pi^{+}\pi^{-}, \rho^{0} \rightarrow \pi^{+}\pi^{-}$ $(e^{+}e^{-} \rightarrow \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma$	22	22	1	23
24	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to K^{*}D^{+}\bar{D}^{*-}, B^{0} \to \pi^{+}\pi^{-}\rho^{-}\omega K^{*+}, K^{*} \to \pi^{-}K^{+}, D^{+} \to \pi^{0}K_{L}\pi^{+},$ $\bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{-} \to \pi^{0}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, K^{*+} \to \pi^{0}K^{+}, \bar{D}^{0} \to K^{+}a_{1}^{-}, a_{1}^{-} \to \rho^{0}\pi^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	23	23	1	24
25	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\rho^{0}\pi^{-}\rho^{+}\rho^{+}\eta D^{-}, \bar{B}^{0} \to \pi^{+}\bar{K}^{*}\bar{D}^{*-}D^{0}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+},$ $\rho^{+} \to \pi^{0}\pi^{+}, \eta \to \pi^{0}\pi^{+}\pi^{-}, D^{-} \to \pi^{-}\pi^{-}K^{+}, \bar{K}^{*} \to \pi^{+}K^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{0} \to e^{+}\nu_{e}\pi^{0}K^{-},$ $\pi^{0} \to e^{+}e^{-}, \bar{D}^{0} \to \mu^{-}\bar{\nu}_{\mu}K^{*+}, K^{*+} \to \pi^{+}K^{0}, K^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}e^{+}e^{-}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	24	24	1	25
26	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{0}\bar{D}^{0}D^{*0}, \bar{B}^{0} \to \pi^{0}\pi^{-}\omega D^{+}, K^{0} \to K_{L}, \bar{D}^{0} \to K^{+}a_{1}^{-},$ $D^{*0} \to D^{0}\gamma, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{+} \to \pi^{+}K^{0}\bar{K}^{*}, a_{1}^{-} \to \rho^{0}\pi^{-}, D^{0} \to e^{+}\nu_{e}K^{*-}, K^{0} \to K_{L},$ $\bar{K}^{*} \to \pi^{+}K^{-}, \rho^{0} \to \pi^{+}\pi^{-}, K^{*-} \to \pi^{0}K^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	25	25	1	26
27	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, B^{0} \to \mu^{+}\nu_{\mu}D^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{-} \to \pi^{0}\pi^{-}K^{*},$ $\bar{D}^{0} \to \pi^{-}K^{+}, K^{*} \to \pi^{-}K^{+}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{+}\nu_{\mu}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma\gamma)$	26	26	1	27
28	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D_{1}^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D_{1}^{+} \to \pi^{+}\pi^{-}D^{+},$ $\bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, D^{+} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma)$	27	27	1	28
29	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \tau^{+}\nu_{\tau}\bar{D}^{*-}, \bar{B}^{0} \to \rho^{-}D^{+}, \tau^{+} \to \bar{\nu}_{\tau}\pi^{0}\pi^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $\rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to e^{+}\nu_{e}\bar{K}^{0}, \bar{D}^{0} \to \pi^{-}\omega K^{+}, \bar{K}^{0} \to K_{L}, \omega \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma)$	28	28	1	29
30	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \pi^{+}\pi^{-}\rho^{-}D^{+}, \bar{B}^{0} \to \pi^{+}\rho^{-}\rho^{-}D^{+}, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to \pi^{0}K_{L}\pi^{+},$ $\rho^{-} \to \pi^{0}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to K_{L}a_{1}^{+}, a_{1}^{+} \to \rho^{0}\pi^{+}, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	29	29	1	30

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
31	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{1}^{-}, \bar{B}^{0} \to \bar{K}_{1}^{0}\gamma, D_{1}^{-} \to \pi^{+}\pi^{-}D^{-}, \bar{K}_{1}^{0} \to \pi^{+}\pi^{-}\bar{K}^{0},$ $D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{0}, \bar{K}^{0} \to K_{S}, K^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma)$	30	30	1	31
32	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{-}K^{+}D^{*+}\bar{D}^{*-}, \bar{B}^{0} \to \rho^{0}\rho^{-}\eta\omega D^{+}, D^{*+} \to \pi^{+}D^{0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $\rho^{0} \to \pi^{+}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \pi^{0}\pi^{+}\pi^{-}, \omega \to \pi^{+}\pi^{-}, D^{+} \to e^{+}\nu_{e}\pi^{+}K^{-}, D^{0} \to K_{L}\pi^{+}\pi^{-},$ $\bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \pi^{0} \to e^{+}e^{-}, K_{L} \to \pi^{0}\pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{+}e^{+}e^{-}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma$	31	31	1	32
33	$ \begin{array}{c} (e^{+}e^{-} \rightarrow e^{+}e^{+}e^{-}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$	32	32	1	33
34	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \tau^{+}\nu_{\tau}D_{0}^{*-}, B^{0} \to \rho^{+}\eta\omega\bar{D}^{*-}, \tau^{+} \to \bar{\nu}_{\tau}\pi^{0}K^{+}, D_{0}^{*-} \to \pi^{-}\bar{D}^{0},$ $\rho^{+} \to \pi^{0}\pi^{+}, \eta \to \pi^{0}\pi^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{0}D^{-}, \bar{D}^{0} \to \mu^{-}\bar{\nu}_{\mu}K^{+}, D^{-} \to K_{L}a_{1}^{-},$ $a_{1}^{-} \to \rho^{0}\pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\nu}, \nu_{\nu}\bar{\nu}_{\nu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma$	33	33	1	34
35	$\frac{(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}\bar{\Delta}^{0}\Delta^{+}, \bar{B}^{0} \to \bar{K}^{*}\chi_{c1}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \bar{\Delta}^{0} \to \pi^{0}\bar{n},}$ $\Delta^{+} \to \pi^{0}p, \bar{K}^{*} \to \pi^{+}K^{-}, \chi_{c1} \to \eta K^{+}K^{-}, \bar{D}^{0} \to \mu^{-}\bar{\nu}_{\mu}K^{*+}, \eta \to \gamma\gamma, K^{*+} \to \pi^{+}K^{0},}$ $K^{0} \to K_{L}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{-}K^{+}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma)$	34	34	1	35
36	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{0}\bar{p}\Delta^{+}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D_{1}^{+}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \Delta^{+} \to \pi^{+}n,$ $D_{1}^{+} \to \pi^{+}\pi^{-}D^{+}, D^{+} \to K_{L}\pi^{+}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}n\bar{p}\gamma\gamma)$	35	35	1	36
37	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \mu^{+}\nu_{\mu}D^{-}, \bar{B}^{0} \rightarrow \pi^{0}\pi^{-}D^{*+}, D^{-} \rightarrow K_{L}a_{1}^{-}, D^{*+} \rightarrow \pi^{+}D^{0},$ $K_{L} \rightarrow \pi^{0}\pi^{0}\pi^{0}, a_{1}^{-} \rightarrow \pi^{0}\rho^{-}, D^{0} \rightarrow \pi^{0}\pi^{0}\pi^{0}\pi^{+}\pi^{-}, \rho^{-} \rightarrow \pi^{0}\pi^{-}$ $(e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \rightarrow \eta D^{+}p\bar{\Delta}^{++}, \bar{B}^{0} \rightarrow \pi^{0}\pi^{+}\pi^{-}\rho^{-}D^{+}, \eta \rightarrow \gamma\gamma, D^{+} \rightarrow \pi^{+}K_{S},$	36	36	1	37
38	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \eta D^{+}p\bar{\Delta}^{++}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}\rho^{-}D^{+}, \eta \to \gamma\gamma, D^{+} \to \pi^{+}K_{S},$ $\bar{\Delta}^{++} \to \pi^{-}\bar{p}, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to \pi^{0}K_{L}\pi^{+}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \pi^{-}D^{+}, \bar{B}^{0} \to \pi^{0}\pi^{0}K^{*}K^{*-}D^{+}, D^{+} \to e^{+}\nu_{e}\bar{K}^{*}, K^{*} \to \pi^{0}K^{0},$	37	37	1	38
39	$K^{*-} \to \pi^- \bar{K}^0, D^+ \to \mu^+ \nu_\mu \pi^0, \bar{K}^* \to \pi^+ K^-, K^0 \to K_L, \bar{K}^0 \to K_S, K_S \to \pi^0 \pi^0$ $(e^+ e^- \to e^+ \nu_e \mu^+ \nu_\mu K_L \pi^+ \pi^- \pi^- K^- \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$	38	38	1	39
40	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{+}\bar{D}^{*-}, \bar{B}^{0} \to \rho^{-}D^{*+}\gamma, \rho^{0} \to \pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{0}D^{-},$ $\rho^{-} \to \pi^{0}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, D^{-} \to \rho^{-}K^{*}, D^{0} \to \rho^{0}\pi^{+}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}, K^{*} \to \pi^{-}K^{+},$ $\rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	39	39	1	40
41	$(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}\pi^{0}\pi^{0}D^{*+}, D^{*+} \to \pi^{0}D^{+}, D^{*+} \to \pi^{+}D^{0},$ $D^{+} \to \pi^{+}K^{-}K^{*+}, D^{0} \to \pi^{0}\pi^{+}K^{-}, K^{*+} \to \pi^{0}K^{+}$ $(e^{+}e^{-} \to \mu^{-}\mu^{-}\bar{\nu}_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	40	40	1	41

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
40	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, \bar{B}^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{-}\omega D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-},$ $D^{*+} \to \pi^{0}D^{+}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, D^{+} \to \pi^{+}\pi^{+}K^{-}$	4.4	4.5		1 40
42		41	41	1	42
	$(e^+e^-\to \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \pi^{+}K^{-}\eta_{c}(2S), \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}D^{+}\Sigma^{-}\bar{\Sigma}^{0}, \eta_{c}(2S) \to \pi^{0}\rho^{0}\pi^{+}\pi^{-}\pi^{-}\rho^{+}\eta, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{*}, \Sigma^{-} \to \pi^{-}n, \bar{\Sigma}^{0} \to \bar{\Lambda}\gamma, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+}, \eta \to \gamma\gamma, \bar{K}^{*} \to \pi^{+}K^{-},$				
43	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	42	42	1	43
	$(e^+e^- \to \mu^+ \nu^- \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^- K^- n \bar{n} \gamma \gamma$				
	$(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}K^{-}n\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \eta^{D}^{-}D^{+}_{s}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \eta \to \pi^{0}\pi^{0}\pi^{0}, D^{-} \to \rho^{-}K^{*},$				
	$D_s^+ \to \pi^+ \eta', D^{*+} \to \pi^+ D^0, \rho^- \to \pi^0 \pi^-, K^* \to \pi^0 K^0, \eta' \to \pi^0 \pi^0 \eta, D^0 \to \pi^0 \pi^+ K^-,$				
44	$K^0 ightarrow K_S, \eta ightarrow \gamma ightarrow K_S ightarrow \pi^+ \pi^-$	43	43	1	44
	$(e^+e^- \to e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \omega K^{+}\bar{D}^{*-}, \bar{B}^{0} \to D^{*+}D_{s}^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$				
45	$D^{*+} \to \pi^0 D^+, D_s^- \to \pi^- f_0(980), \bar{D}^0 \to \pi^- \omega K^+, D^+ \to K_S K^{*+}, f_0(980) \to \pi^+ \pi^-, \omega \to \pi^0 \pi^+ \pi^-,$	4.4	4.4	-	45
45	$K_S o \pi^+ \pi^-, K^{*+} o \pi^+ K^0, K^0 o K_S, K_S o \pi^+ \pi^-$	44	44	1	45
	$(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \eta \bar{D}^{*-}D^{+}_{s}, B^{0} \to \pi^{0}\pi^{-}\rho^{+}\bar{K}^{0}K^{+}D^{-}, \eta \to \gamma\gamma, \bar{D}^{*-} \to \pi^{0}D^{-},$	45		1	
46	$D_s^+ o \mu^+ u_\mu \eta, ho^+ o \pi^0 \pi^+, \bar{K}^0 o K_S, D^- o K_S K^{*-}, D^- o \pi^- \pi^- K^+, \eta o \pi^0 \pi^0 \pi^0,$		45		46
40	$K_S \to \pi^0 \pi^0, K_S \to \pi^+ \pi^-, K^{*-} \to \pi^- \bar{K}^0, \pi^0 \to e^+ e^-, \bar{K}^0 \to K_S, K_S \to \pi^+ \pi^-$	40	40	1	40
	$(e^+e^- \to e^+e^-\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\rho^{-}\eta\eta\bar{K}^{0}K^{+}D^{-}, \bar{B}^{0} \to \pi^{0}\rho^{0}\pi^{-}D^{*+}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \gamma\gamma,$				
47	$\eta \to \pi^0 \pi^0 \pi^0, \bar{K}^0 \to K_L, D^- \to \pi^- K_S, \rho^0 \to \pi^+ \pi^-, D^{*+} \to \pi^0 D^+, K_S \to \pi^+ \pi^-,$	46	46	1	47
1,	$D^+ ightarrow \pi^0 K_L \pi^+$	10	10	-	1
	$(e^{+}e^{-} \rightarrow K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \rho^{0}\rho^{+}\bar{D}^{*-}, \bar{B}^{0} \rightarrow \pi^{+}K^{-}D^{+}D^{-}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, \rho^{+} \rightarrow \pi^{0}\pi^{+},$				
	$\begin{array}{c} e^{+}e^{-} \rightarrow 1 (4S), 1 (4S) \rightarrow B^{\sigma}B^{\sigma}, B^{\sigma} \rightarrow \rho^{\sigma}\rho^{+}D^{+}, B^{\sigma} \rightarrow \pi^{+}K^{-}D^{+}D^{-}, \rho^{\sigma} \rightarrow \pi^{+}\pi^{-}, \rho^{+} \rightarrow \pi^{\sigma}\pi^{+}, \\ \bar{D}^{*-} \rightarrow \pi^{-}\bar{D}^{0}, D^{+} \rightarrow \pi^{0}\pi^{+}\bar{K}^{*}, D^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}K^{0}, \bar{D}^{0} \rightarrow \mu^{-}\bar{\nu}_{\mu}K^{+}, \bar{K}^{*} \rightarrow \pi^{0}\bar{K}^{0}, K^{0} \rightarrow K_{S}, \end{array}$				
48	$D^* ightarrow \pi^* D^*, D^+ ightarrow \pi^* \pi^+ K^-, D^- ightarrow \mu^- u_\mu K^+, D^- ightarrow \mu^- u_\mu K^+, K^- ightarrow \pi^* K^-, K^- ightarrow K_S, onumber \ ar{K}^0 ightarrow K_L, K_S ightarrow \pi^+ \pi^-$	47	47	1	48
	$(e^{+}e^{-} \to \mu^{-}\mu^{-}\bar{\nu}_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\rho^{+}D^{-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+},$				
	$D^{-} \rightarrow \mu^{-} \bar{\nu}_{\mu} K^{*}, D^{+} \rightarrow e^{+} \nu_{e} \bar{K}^{*}, K^{*} \rightarrow \pi^{0} K^{0}, \bar{K}^{*} \rightarrow \pi^{0} \bar{K}^{0}, K^{0} \rightarrow K_{L}, \bar{K}^{0} \rightarrow K_{S},$				
49	$K_{c} ightarrow \pi^{0} \pi^{0}$	48	48	1	49
	110 / // //				
	$(e^{+}e^{-} \rightarrow e^{+}\nu_{e}\mu^{-}\mu^{-}\bar{\nu}_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \pi^{+}\pi^{-}\rho^{+}\eta D^{-}, \bar{B}^{0} \rightarrow \mu^{-}\bar{\nu}_{\mu}D^{*+}, \rho^{+} \rightarrow \pi^{0}\pi^{+}, \eta \rightarrow \pi^{0}\pi^{0}\pi^{0},$				
	$D^{-} \to K_{S}K^{-}, D^{*+} \to \pi^{+}D^{0}, \pi^{0} \to e^{+}e^{-}, K_{S} \to \pi^{+}\pi^{-}, D^{0} \to \pi^{0}\pi^{+}\pi^{-}\bar{K}^{*}, \bar{K}^{*} \to \pi^{0}\bar{K}^{0},$	40	40		
50	$ar{K}^0 o K_L$	49	49	1	50
	$(e^+e^- \to e^+e^-\mu^-\bar{\nu}_\mu K_L \pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
		1	1		

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
51	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to e^{+}\nu_{e}\eta D^{-}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\bar{D}^{*-}, \eta \to \pi^{+}\pi^{-}, D^{-} \to K_{L}a_{1}^{-},$ $\bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, a_{1}^{-} \to \pi^{-}f_{0}(600), \bar{D}^{0} \to \mu^{-}\bar{\nu}_{\mu}K^{+}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}f_{0}(600)\gamma\gamma)$	50	50	1	51
52	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\rho^{-}D^{-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{+}, \rho^{-} \to \pi^{0}\pi^{-}, D^{-} \to \pi^{0}\pi^{+}\pi^{-}\pi^{-}K^{0},$ $D^{+} \to \pi^{+}\pi^{+}K^{-}, K^{0} \to K_{L}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	51	51	1	52
53	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{+}\pi^{+}\pi^{-}\omega D^{-}, \bar{B}^{0} \to \rho^{+}\rho^{-}D^{*0}, \rho^{0} \to \pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{-} \to \pi^{-}K_{1}^{'0}, \rho^{+} \to \pi^{0}\pi^{+}, \rho^{-} \to \pi^{0}\pi^{-}, D^{*0} \to D^{0}\gamma, K_{1}^{'0} \to \pi^{-}K^{*+}, D^{0} \to e^{+}\nu_{e}K^{*-}, K^{*+} \to \pi^{0}K^{+}, K^{*-} \to \pi^{-}\bar{K}^{0}, \bar{K}^{0} \to K_{L}$ $(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	52	52	1	53
54	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{-}\bar{D}^{0}D_{s}^{+}, \bar{B}^{0} \to D^{*+}D_{s}^{*-}, \bar{D}^{0} \to \rho^{-}K^{*+}, D_{s}^{+} \to \rho^{+}\eta,$ $D^{*+} \to \pi^{+}D^{0}, D_{s}^{*-} \to D_{s}^{-}\gamma, \rho^{-} \to \pi^{0}\pi^{-}, K^{*+} \to \pi^{0}K^{+}, \rho^{+} \to \pi^{0}\pi^{+}, \eta \to \gamma\gamma,$ $D^{0} \to K_{S}K^{+}K^{-}, D_{s}^{-} \to \pi^{-}\eta', K_{S} \to \pi^{0}\pi^{0}, \eta' \to \pi^{+}\pi^{-}\eta, \eta \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}a_{1}^{+}, \bar{B}^{0} \to \pi^{0}\rho^{0}\rho^{0}\rho^{-}D^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, a_{1}^{+} \to \pi^{+}K^{0}\bar{K}^{0},$	53	53	1	54
55	$\rho^{0} \to \pi^{+}\pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to \pi^{0}\pi^{+}K_{S}, \bar{D}^{0} \to K^{+}a_{1}^{-}, K^{0} \to K_{S}, \\ \bar{K}^{0} \to K_{S}, K_{S} \to \pi^{0}\pi^{0}, a_{1}^{-} \to \rho^{0}\pi^{-}, K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{0}\pi^{0}, \rho^{0} \to \pi^{+}\pi^{-} \\ (e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	54	54	1	55
56	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\Delta^{+}\bar{\Xi}_{c}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{+}D^{0}D_{s}^{*-}, \Delta^{+} \to \pi^{+}n, \bar{\Xi}_{c}^{*-} \to \bar{\Xi}_{c}^{-}\gamma,$ $D^{0} \to \mu^{+}\nu_{\mu}K^{*-}, D_{s}^{*-} \to D_{s}^{-}\gamma, \bar{\Xi}_{c}^{-} \to \pi^{0}\pi^{-}\bar{\Xi}^{0}, K^{*-} \to \pi^{-}\bar{K}^{0}, D_{s}^{-} \to K^{0}K^{*-}, \bar{\Xi}^{0} \to \pi^{0}\bar{\Lambda},$ $\bar{K}^{0} \to K_{L}, K^{0} \to K_{L}, K^{*-} \to \pi^{0}K^{-}, \bar{\Lambda} \to \pi^{+}\bar{p}, K_{L} \to \mu^{-}\nu_{\mu}\pi^{+}$ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}n\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	55	55	1	56
57	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \rightarrow \pi^{0}\bar{\Delta}^{+}\Sigma_{c}^{+}, \bar{D}^{*-} \rightarrow \pi^{0}\bar{D}^{-}, \bar{\Delta}^{+} \rightarrow \pi^{-}\bar{n},$ $\Sigma_{c}^{+} \rightarrow \pi^{0}\Lambda_{c}^{+}, D^{-} \rightarrow \pi^{0}\pi^{-}\phi, \Lambda_{c}^{+} \rightarrow \pi^{+}\eta\Lambda, \phi \rightarrow K_{L}K_{S}, \eta \rightarrow \pi^{0}\pi^{+}\pi^{-}, \Lambda \rightarrow \pi^{-}p,$ $K_{S} \rightarrow \pi^{+}\pi^{-}$ $(e^{+}e^{-} \rightarrow e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \rho^{0}\pi^{+}\pi^{-}\bar{D}^{*0}, \bar{B}^{0} \rightarrow \mu^{-}\bar{\nu}_{\mu}D^{*+}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, \bar{D}^{*0} \rightarrow \bar{D}^{0}\gamma,$	56	56	1	57
58	$D^{*+} \to D^{+}\gamma, \bar{D}^{0} \to \rho^{-}K^{*+}, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{0}, \rho^{-} \to \pi^{0}\pi^{-}, K^{*+} \to \pi^{+}K^{0}, \bar{K}^{0} \to K_{S}, K_{S} \to \pi^{0}\pi^{0}, K_{S} \to \pi^{0}\pi^{0} $ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	57	57	1	58
59	$\begin{array}{c} e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \rightarrow D^{+}\Delta^{0}\bar{\Delta}^{+}, \bar{B}^{0} \rightarrow \pi^{0}\rho^{0}\pi^{+}\pi^{-}\eta\eta, D^{+} \rightarrow \mu^{+}\nu_{\mu}\bar{K}^{*}, \Delta^{0} \rightarrow \pi^{0}n, \\ \bar{\Delta}^{+} \rightarrow \pi^{0}\bar{p}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, \eta \rightarrow \gamma\gamma, \eta \rightarrow \pi^{0}\pi^{+}\pi^{-}, \bar{K}^{*} \rightarrow \pi^{+}K^{-} \\ (e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}n\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma) \\ e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \pi^{0}\pi^{+}\pi^{+}\pi^{-}\bar{D}^{*-}, \bar{B}^{0} \rightarrow \pi^{0}\pi^{0}\pi^{0}\rho^{0}\rho^{0}\pi^{+}\pi^{-}\pi^{-}D^{*+}, \bar{D}^{*-} \rightarrow \pi^{-}\bar{D}^{0}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, \end{array}$	58	58	1	59
60	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{0}\rho^{0}\rho^{0}\pi^{+}\pi^{-}\pi^{-}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{0} \to \pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{0} \to \pi^{-}, \rho^{0} \to \pi^{-}, \rho^{0} \to \pi^{-}, \rho^{0} \to \pi^{-}, \rho^{0} $	59	59	1	60

index	event tree	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
	(event initial-final states)				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\omega\bar{D}^{*-}, \bar{B}^{0} \to \pi^{-}\bar{K}^{0}D^{+}\bar{D}^{*0}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{0}D^{-},$				
61	$\bar{K}^0 \to K_S, D^+ \to \pi^0 \pi^+ \bar{K}^*, \bar{D}^{*0} \to \bar{D}^0 \gamma, D^- \to e^- \bar{\nu}_e K^0, K_S \to \pi^+ \pi^-, \bar{K}^* \to \pi^+ K^-, $ $\bar{D}^0 \to \pi^0 \pi^0 \pi^0 \pi^+ \pi^-, K^0 \to K_S, K_S \to \pi^0 \pi^0$	60	60	1	61
	$\frac{(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{+}\bar{K}^{*}\bar{D}^{*-}D^{0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \bar{K}^{*} \to \pi^{0}\bar{K}^{0},}$				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
62	$D \xrightarrow{\rightarrow} \pi^- D^-, D \xrightarrow{\rightarrow} \rho^+ K^-, D \xrightarrow{\rightarrow} K^+ d_1^-, K \xrightarrow{\rightarrow} K_L, D \xrightarrow{\rightarrow} \pi^- K^+, \rho^+ \xrightarrow{\rightarrow} \pi^- \pi^+, K^+ \xrightarrow{\rightarrow} \pi^- K^-, A^- \xrightarrow{\rightarrow} \pi^- f_0(600), K^0 \xrightarrow{\rightarrow} K_L$	61	61	1	62
	$(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}f_{0}(600)\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \bar{D}^{*-}a_{1}^{+}, B^{0} \to \pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}D^{-}\Delta^{+}\bar{\Delta}^{+}, \bar{D}^{*-}\to \pi^{-}\bar{D}^{0}, a_{1}^{+}\to \rho^{0}\pi^{+},$				
	$D^{-} \rightarrow e^{-}\bar{\nu}_{e}\pi^{-}K^{+}, \Delta^{+} \rightarrow \pi^{0}p, \bar{\Delta}^{+} \rightarrow \pi^{0}\bar{p}, \bar{D}^{0} \rightarrow \mu^{-}\bar{\nu}_{\mu}K^{*+}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, K^{*+} \rightarrow \pi^{+}K^{0},$				
63	$K^0 ightarrow K_S, K_S ightarrow \pi^+\pi^-$	62	62	1	63
	$(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}p\bar{p}\gamma\gamma\gamma\gamma)$				
	$e^+e^- o \Upsilon(4S), \Upsilon(4S) o B^0 \bar{B}^0, B^0 o \pi^+\pi^-\eta \bar{D}^0, \bar{B}^0 o \pi^-\pi^-\pi^-\rho^+\rho^+\omega D^{*+}, \eta o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^-K^+, \eta o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^-K^+, \eta o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0\pi^0, \bar{D}^0 o \pi^0\pi^0$				
64	$\rho^{+} \to \pi^{0} \pi^{+}, \rho^{+} \to \pi^{0} \pi^{+}, \omega \to \pi^{0} \pi^{+} \pi^{-}, D^{*+} \to \pi^{+} D^{0}, D^{0} \to e^{+} \nu_{e} \pi^{0} K^{-}$	63	63	1	64
	$(e^+e^- \to e^+\nu_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \rho^{0}\pi^{+}K^{-}K^{*+}\bar{D}^{*-}, \bar{B}^{0} \rightarrow \pi^{0}\pi^{0}\rho^{0}\rho^{0}\pi^{-}D^{+}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, K^{*+} \rightarrow \pi^{+}K^{0}, K^{0} \rightarrow \pi^{0}\pi^{0}\rho^{0}\rho^{0}\pi^{-}D^{+}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, K^{*+} \rightarrow \pi^{+}K^{0}, K^{0} \rightarrow \pi^{0}\pi^{0}\rho^{0}\rho^{0}\pi^{-}D^{+}, \rho^{0} \rightarrow \pi^{0}\pi^{0}\rho^{0}\rho^{0}\pi^{0}\rho^{0}\rho^{0}\rho^{0}\pi^{-}D^{+}, \rho^{0} \rightarrow \pi^{0}\pi^{0}\rho^{0}\rho^{0}\rho^{0}\rho^{0}\rho^{0}\rho^{0}\rho^{0}\rho$				
65	$\bar{D}^{*-} \to \pi^- \bar{D}^0, \rho^0 \to \pi^+ \pi^-, \rho^0 \to \pi^+ \pi^-, D^+ \to e^+ \nu_e \bar{K}^0, K^0 \to K_S, \bar{D}^0 \to K_L \eta',$	64	64	1	65
	$ar{K}^0 ightarrow K_S, K_S ightarrow \pi^+\pi^-, \eta' ightarrow \pi^+\pi^-\eta, K_S ightarrow \pi^+\pi^-, \eta ightarrow \gamma \gamma$	01	01	-	
	$(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$				
cc	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}D^{-}, \bar{B}^{0} \to \pi^{0}\pi^{0}\pi^{+}\pi^{-}\pi^{-}D^{*+}p\bar{p}, D^{-} \to \pi^{+}\pi^{-}\pi^{-}K_{S}, D^{*+} \to \pi^{+}D^{0}, K_{S} \to \pi^{0}\pi^{0}, D^{0} \to \pi^{0}\pi^{+}\pi^{-}\bar{K}^{*}, \bar{K}^{*} \to \pi^{+}K^{-}$	C.F		1	cc
66	$K_S \to \pi^*\pi^*, D^* \to \pi^*\pi^*\pi^*K^*, K^* \to \pi^*K$	65	65	1	66
	$(e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{0}^{*-}, \bar{B}^{0} \to \tau^{-}\bar{\nu}_{\tau}D^{*+}, D_{0}^{*-} \to \pi^{-}\bar{D}^{0}, \tau^{-} \to \nu_{\tau}\pi^{0}\pi^{-},$ $D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{+}\pi^{-}K^{*}, D^{0} \to \pi^{0}\pi^{0}\bar{K}^{*}, K^{*} \to \pi^{-}K^{+}, \bar{K}^{*} \to \pi^{+}K^{-}$				
67	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	66	66	1	67
	$(e^+e^- ightarrow\mu^+ u_\mu u_ auar u_ au\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma)$	00		1	
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \pi^+\omega\omega\bar{D}^{*-}, \bar{B}^0 \to \eta D^+D_s^{*-}, \omega \to \pi^0\gamma, \omega \to \pi^0\pi^+\pi^-,$				
00	$ar{D}^{*-} o \pi^- ar{D}^0, \eta o \gamma \gamma, D^+ o K_L \pi^+, D_s^{*-} o D_s^- \gamma, ar{D}^0 o \pi^- \eta K^+, D_s^- o K^0 K^{*-},$	a=	a=		20
68	$\eta o \pi^0 \pi^0 \pi^0, K^0 o K_L, K^{*-} o \pi^0 K^-$	67	67	1	68
	$(e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{+}, \bar{B}^{0} \to \rho^{0}\rho^{-}\eta D^{*+}, D^{+} \to \pi^{0}\pi^{+}K_{S}, \rho^{0} \to \pi^{+}\pi^{-},$				
69	$\rho^- \to \pi^0 \pi^-, \eta \to \gamma \gamma, D^{*+} \to \pi^+ D^0, K_S \to \pi^+ \pi^-, D^0 \to \omega \bar{K}^*, \omega \to \pi^+ \pi^-,$	68	68	1	69
09	$ar{K}^* ightarrow \pi^+ K^-$	00	00	1	09
	$\frac{(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{+}D^{-}, \bar{B}^{0} \to \rho^{-}D^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, D^{-} \to \pi^{0}\pi^{-}\phi,}$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \rho^{+}D^{-}, B^{0} \to \rho^{-}D^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, D^{-} \to \pi^{0}\pi^{-}\phi,$				
70	$ ho^- o \pi^0 \pi^-, D^{*+} o \pi^+ D^0, \phi o K^+ K^-, D^0 o e^+ u_e \pi^-$	69	69	1	70
	$(e^+e^- \to e^+\nu_e\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma)$				

index	event tree	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
index	(event initial-final states)	1171/11	IEVIII SIS	IIIIVUS	nomitevis
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \pi^-K^+D^0\bar{D}^0, \bar{B}^0 \to K^{*-}D^+, D^0 \to \rho^+K^{*-}, \bar{D}^0 \to \rho^0\rho^0,$				
71	$K^{*-} \to \pi^- \bar{K}^0, D^+ \to e^+ \nu_e \bar{K}^*, \rho^+ \to \pi^0 \pi^+, K^{*-} \to \pi^- \bar{K}^0, \rho^0 \to \pi^+ \pi^-, \rho^0 \to \pi^- \pi^-, \rho^0 \to \pi^+ \pi^-, \rho^0 \to \pi^- \pi^-$	70	70	1	71
'1	$ar{K}^0 ightarrow K_L, ar{K}^* ightarrow \pi^+ K^-, ar{K}^0 ightarrow K_L$	10	10	1	11
	$(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{0}\pi^{+}\rho^{+}\rho^{-}D^{-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{+}, \rho^{+} \to \pi^{0}\pi^{+}, \rho^{-} \to \pi^{0}\pi^{-},$				=-
72	$D^{-} \to e^{-}\bar{\nu}_{e}\pi^{-}K^{+}, D^{+} \to \pi^{0}\pi^{+}\pi^{+}K^{-}$ $(e^{+}e^{-} \to e^{-}e^{-}\bar{\nu}_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	71	71	1	72
	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^*n\bar{\Sigma}_c^{*0}, \bar{B}^0 \rightarrow \pi^-D^+, K^* \rightarrow \pi^-K^+, \bar{\Sigma}_c^{*0} \rightarrow \pi^+\bar{\Lambda}_c^-,$				
73	$\begin{array}{c} e^+e^- \rightarrow 1 (4S), 1 (4S) \rightarrow B^+B^+, B^+ \rightarrow K^- n \Sigma_c{}^+, B^+ \rightarrow \pi^- D^+, K^- \rightarrow \pi^- K^+, \Sigma_c{}^+ \rightarrow \pi^+ \Lambda_c , \\ D^+ \rightarrow \pi^0 \pi^+ \bar{K}^*, \bar{\Lambda}_c^- \rightarrow \pi^0 \pi^- K^+ \bar{p}, \bar{K}^* \rightarrow \pi^+ K^- \end{array}$	72	72	1	73
1.0	$(e^+e^- \rightarrow \pi^+\pi^+\pi^-\pi^-\pi^-K^+K^+K^-n\bar{p}\gamma\gamma\gamma\gamma)$	12	12	1	13
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{-}\pi^{-}D^{*+}\bar{n}\Delta^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{*+} \to \pi^{+}D^{0},$				
74	$\Delta^{+} \rightarrow \pi^{0} p, \bar{D}^{0} \rightarrow e^{-\bar{\nu}_{e} \pi^{+} K^{0}}, D^{0} \rightarrow K^{-} a_{1}^{+}, K^{0} \rightarrow K_{L}, a_{1}^{+} \rightarrow \pi^{+} f_{0}(600)$	73	73	1	74
	$(e^{+}e^{-} \rightarrow e^{+}e^{-}\nu_{e}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}\bar{n}pf_{0}(600)\gamma\gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0 \bar{B}^0, B^0 \to K^{*+} \bar{D}^{*-} D^0, \bar{B}^0 \to D^{*+} D^{*-}_{s0}, K^{*+} \to \pi^+ K^0, \bar{D}^{*-} \to \pi^- \bar{D}^0,$				
75	$D^{0} \to \pi^{0} \pi^{+} K^{-}, D^{*+} \to \pi^{0} D^{+}, D^{*-}_{s0} \to \pi^{0} D^{-}_{s}, K^{0} \to K_{L}, \bar{D}^{0} \xrightarrow{\circ} \rho^{-} K^{*+}, D^{+} \to \mu^{+} \nu_{\mu} \pi^{+} K^{-},$	74	74	1	75
10	$D_s^- \to K^*K^-, \rho^- \to \pi^0\pi^-, K^{*+} \to \pi^0K^+, K^* \to \pi^0K^0, K^0 \to K_L$	14	14	1	7.5
	$(e^+e^- \to \mu^+\nu_\mu K_L K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^+ K^- K^- K^- \gamma \gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0 \bar{B}^0, B^0 \to \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \to \pi^0 \pi^+ \pi^- \rho^+ \bar{D}^{*-} D^{*0}, \bar{D}^{*-} \to \pi^0 D^-, \rho^+ \to \pi^0 \pi^+, \bar{D}^{*-} D^{*-} D^{*$				
76	$\bar{D}^{*-} \to \pi^0 D^-, D^{*0} \to \pi^0 D^0, D^- \to K_L \pi^- K^+ K^-, D^- \to \pi^0 \pi^- \pi^- K^+, D^0 \to \pi^0 \pi^+ K^-$	75	75	1	76
	$\frac{(e^+e^- \to \mu^+\nu_\mu K_L\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^+K^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)}{e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to B^0\bar{B}^0, B^0 \to \pi^0\rho^+\omega\omega D^-, \bar{B}^0 \to K^-D^{*+}\bar{D}^{*0}, \rho^+ \to \pi^0\pi^+, \omega \to \pi^+\pi^-,}$				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
77		76	76	1	77
''	$ar{K}_{1}^{'0} ightarrow \pi^{+}K^{*-}, ho^{-} ightarrow \pi^{0}\pi^{-}, K^{*+} ightarrow \pi^{+}K^{0}, K^{*-} ightarrow \pi^{-}ar{K}^{0}, K^{0} ightarrow K_{L}, ar{K}^{0} ightarrow K_{S}, \ K_{S} ightarrow \pi^{0}\pi^{0}$	76	76	1	77
	$(e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^- \gamma \gamma)$				
	$e^+e^- \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^0\bar{B}^0, \bar{B}^0 \to e^-\bar{\nu}_e D^{*+}, \bar{B}^0 \to \pi^0\pi^+\pi^-\rho^-\omega\bar{K}^0D^{*+}, D^{*+} \to \pi^+D^0, \rho^- \to \pi^0\pi^-,$				
	$\omega \to \pi^0 \pi^+ \pi^-, \bar{K}^0 \to K_S, D^{*+} \to \pi^+ D^0, D^0 \to \pi^0 \eta K_S, D^0 \to \mu^+ \nu_\mu K^{*-}, \eta \to \gamma \gamma,$				
78	$K_S o \pi^+\pi^-, K^{*-} o \pi^-ar{K}^0, ar{K}^0 o K_S, K_S o \pi^+\pi^-$	77	77	1	78
	$(e^+e^- \to e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K_S\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow e^{+}\nu_{e}\eta D^{-}, \bar{B}^{0} \rightarrow \rho^{0}\pi^{-}D^{*+}, \eta \rightarrow \pi^{0}\pi^{+}\pi^{-}, D^{-} \rightarrow e^{-}\bar{\nu}_{e}K_{1}^{0},$				
79	$\rho^0 \to \pi^+ \pi^-, D^{*+} \to \pi^+ D^0, K_1^0 \to \pi^0 \pi^- K^+, D^0 \to e^+ \nu_e K^-$	78	78	1	79
	$(e^{+}e^{-} \to e^{+}e^{+}e^{-}\nu_{e}\nu_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{+}\pi^{-}\rho^{+}\eta\eta\bar{D}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+},$				
80	$\eta \to \pi^0 \pi^+ \pi^-, \eta \to \pi^0 \pi^+ \pi^-, \bar{D}^{*-} \to \pi^- \bar{D}^0, D^{*+} \to \pi^0 D^+, \bar{D}^0 \to \pi^- K^+, D^+ \to e^+ \nu_e \bar{K}^*,$	79	79	1	80
	$\bar{K}^* \to \pi^+ K^-$			_	
	$(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
81	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \tau^{+}\nu_{\tau}D_{0}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{-}\omega K^{0}\bar{K}^{0}\bar{K}^{*}D^{*+}, \tau^{+} \to \mu^{+}\nu_{\mu}\bar{\nu}_{\tau}, D_{0}^{*-} \to \pi^{-}\bar{D}^{0},$ $\omega \to \pi^{0}\pi^{+}\pi^{-}, K^{0} \to K_{S}, \bar{K}^{0} \to K_{L}, \bar{K}^{*} \to \pi^{+}K^{-}, D^{*+} \to \pi^{0}D^{+}, \bar{D}^{0} \to \pi^{+}\pi^{-}\pi^{-}K^{+},$ $K_{S} \to \pi^{+}\pi^{-}, D^{+} \to \pi^{0}\pi^{+}K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	80	80	1	81
82	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to D^{-}a_{1}^{+}, B^{0} \to \pi^{+}\pi^{-}D^{+}D_{s}^{*-}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}\omega, a_{1}^{+} \to \rho^{0}\pi^{+},$ $D^{+} \to \pi^{+}\pi^{+}K^{-}, D_{s}^{*-} \to D_{s}^{-}\gamma, \omega \to \pi^{0}\pi^{+}\pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}, D_{s}^{-} \to \rho^{-}\phi, \rho^{-} \to \pi^{0}\pi^{-},$ $\phi \to K^{+}K^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma)$	81	81	1	82
83	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \rho^{+}\eta\omega D^{-}, B^{0} \to \pi^{+}D^{0}D_{s}^{-}, \rho^{+} \to \pi^{0}\pi^{+}, \eta \to \pi^{+}\pi^{-}, \omega \to \pi^{0}\gamma, D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{*}, D^{0} \to K_{S}K^{+}K^{-}, D_{s}^{-} \to \rho^{-}\phi, K^{*} \to \pi^{-}K^{+}, K_{S} \to \pi^{+}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \phi \to \pi^{-}\rho^{+}, \rho^{+} \to \pi^{0}\pi^{+} $ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	82	82	1	83
84	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}K^{0}D^{-}, \bar{B}^{0} \to \pi^{+}\pi^{+}\pi^{-}\pi^{-}D^{*+}, K^{0} \to K_{S}, D^{-} \to \pi^{-}K^{+}K^{-}, D^{*+} \to \pi^{+}D^{0}, K_{S} \to \pi^{0}\pi^{0}, D^{0} \to \rho^{+}K^{*-}, \rho^{+} \to \pi^{0}\pi^{+}, K^{*-} \to \pi^{0}K^{-}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}X^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	83	83	1	84
85	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \pi^{0}\pi^{+}\rho^{-}\bar{D}^{*0}, \bar{B}^{0} \rightarrow e^{-}\bar{\nu}_{e}\eta D^{+}, \rho^{-} \rightarrow \pi^{0}\pi^{-}, \bar{D}^{*0} \rightarrow \pi^{0}\bar{D}^{0},$ $\eta \rightarrow \pi^{0}\pi^{+}\pi^{-}, D^{+} \rightarrow \mu^{+}\nu_{\mu}\bar{K}^{0}, \bar{D}^{0} \rightarrow K_{S}\eta', \bar{K}^{0} \rightarrow K_{L}, K_{S} \rightarrow \pi^{0}\pi^{0}, \eta' \rightarrow \pi^{+}\pi^{-}\eta,$ $\eta \rightarrow \pi^{0}\pi^{0}\pi^{0}$ $(e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	84	84	1	85
86	$(e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}B^{0}, B^{0} \rightarrow \eta'D^{+}\bar{D}^{*-}, B^{0} \rightarrow \omega\bar{D}^{*-}\bar{n}p, \eta' \rightarrow \pi^{0}\pi^{0}\eta, D^{+} \rightarrow \pi^{+}\phi,$ $\bar{D}^{*-} \rightarrow \pi^{-}\bar{D}^{0}, \omega \rightarrow \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \rightarrow \pi^{-}\bar{D}^{0}, \eta \rightarrow \pi^{0}\pi^{+}\pi^{-}, \phi \rightarrow K^{+}K^{-}, \bar{D}^{0} \rightarrow e^{-}\bar{\nu}_{e}\rho^{+},$ $\bar{D}^{0} \rightarrow e^{-}\bar{\nu}_{e}K^{+}, \rho^{+} \rightarrow \pi^{0}\pi^{+}$ $(e^{+}e^{-} \rightarrow e^{-}e^{-}\bar{\nu}_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	85	85	1	86
87	$(e^{+}e^{-} \to e^{-}e^{-}\bar{\nu}_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{-}\rho^{+}D^{-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D_{2}^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{*},$ $D_{2}^{*+} \to \pi^{+}D^{0}, K^{*} \to \pi^{-}K^{+}, D^{0} \to K_{L}\omega, \omega \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma)$	86	86	1	87
88	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{+}\eta D^{-}, \bar{B}^{0} \to \pi^{-}\rho^{+}K^{0}K^{*-}D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \eta \to \gamma\gamma,$ $D^{-} \to \pi^{-}\pi^{-}K^{+}, \rho^{+} \to \pi^{0}\pi^{+}, K^{0} \to K_{L}, K^{*-} \to \pi^{0}K^{-}, D^{+} \to \rho^{0}\pi^{+}, K_{L} \to \mu^{+}\nu_{\mu}\pi^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	87	87	1	88
89	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}p\bar{\Sigma}_{c}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D_{0}^{*+}, \rho^{0} \to \pi^{+}\pi^{-}, \bar{\Sigma}_{c}^{*-} \to \pi^{0}\bar{\Lambda}_{c}^{-},$ $D_{0}^{*+} \to \pi^{+}D^{0}, \bar{\Lambda}_{c}^{-} \to K^{+}\bar{\Delta}^{++}, D^{0} \to \pi^{+}\pi^{-}\bar{K}^{*}, \bar{\Delta}^{++} \to \pi^{-}\bar{p}, \bar{K}^{*} \to \pi^{+}K^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}p\bar{p}\gamma\gamma)$	88	88	1	89
90	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{-}\pi^{-}D^{+}\bar{n}p, \bar{D}^{*-} \to \pi^{0}D^{-}, D^{+} \to K_{S}a_{1}^{+},$ $D^{-} \to \pi^{0}\pi^{0}\pi^{-}\pi^{-}K^{+}, K_{S} \to \pi^{0}\pi^{0}, a_{1}^{+} \to \pi^{+}f_{0}(600)$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}\bar{n}pf_{0}(600)\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	89	89	1	90

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
91	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\pi^{-}\rho^{+}D^{-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{-}K^{+}, D^{*+} \to \pi^{0}D^{+}, D^{+} \to \pi^{+}\pi^{+}K^{-} \\ (e^{+}e^{-} \to \mu^{-}\mu^{-}\bar{\nu}_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	90	90	1	91
92	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{-}K^{*+}J/\psi, \bar{B}^{0} \to \pi^{0}\pi^{+}K^{-}\eta_{c}(2S), K^{*+} \to \pi^{0}K^{+}, J/\psi \to e^{+}e^{-}, \\ \pi^{0} \to e^{+}e^{-}, \eta_{c}(2S) \to \eta\Sigma^{+}\bar{\Sigma}^{-}, \eta \to \pi^{0}\pi^{0}\pi^{0}, \Sigma^{+} \to \pi^{+}n, \bar{\Sigma}^{-} \to \pi^{0}\bar{p} \\ (e^{+}e^{-} \to e^{+}e^{+}e^{-}e^{-}\pi^{+}\pi^{+}\pi^{-}K^{+}K^{-}n\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	91	91	1	92
93	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \bar{K}^{0}\psi', \bar{B}^{0} \to \pi^{-}\rho^{+}\rho^{-}D^{+}, \bar{K}^{0} \to K_{S}, \psi' \to \pi^{0}\pi^{0}J/\psi,$ $\rho^{+} \to \pi^{0}\pi^{+}, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to \bar{K}^{*}a_{1}^{+}, K_{S} \to \pi^{+}\pi^{-}, J/\psi \to \mu^{+}\mu^{-}, \bar{K}^{*} \to \pi^{+}K^{-},$ $a_{1}^{+} \to \pi^{+}f_{0}(600)$ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}f_{0}(600)\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	92	92	1	93
94	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\rho^{+}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{-}K^{0}D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+},$ $\bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, K^{0} \to K_{L}, D^{+} \to K_{L}a_{1}^{+}, \bar{D}^{0} \to \pi^{-}K^{+}, a_{1}^{+} \to \pi^{+}f_{0}(600)$ $(e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}f_{0}(600)\gamma\gamma)$	93	93	1	94
95	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{+}\omega D^{-}, \bar{B}^{0} \to \pi^{0}\omega K^{0}K^{-}D^{+}, \rho^{+} \to \pi^{0}\pi^{+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{-} \to \pi^{-}\pi^{-}K^{+}, \pi^{0} \to e^{+}e^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, K^{0} \to K_{S}, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{*}, K_{S} \to \pi^{+}\pi^{-}, \bar{K}^{*} \to \pi^{+}K^{-}$ $(e^{+}e^{-} \to e^{+}e^{-}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{*+} \to \pi^{+}D^{0},$	94	94	1	95
96	$D^{0} \to K^{+}a_{1}^{-}, D^{0} \to \pi^{0}\pi^{+}K^{-}, a_{1}^{-} \to \pi^{-}f_{0}(600)$ $(e^{+}e^{-} \to e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}f_{0}(600)\gamma\gamma)$	95	95	1	96
97	$\begin{array}{c} e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \rightarrow K^{*+}\bar{D}^{*-}, \bar{B}^{0} \rightarrow \pi^{0}\pi^{-}D^{*+}\bar{\Delta}^{+}, \bar{K}^{*+} \rightarrow \pi^{+}K^{0}, \bar{D}^{*-} \rightarrow \pi^{-}\bar{D}^{0}, \\ D^{*+} \rightarrow \pi^{+}D^{0}, \bar{\Delta}^{+} \rightarrow \pi^{+}n, \bar{\Delta}^{+} \rightarrow \pi^{0}\bar{p}, K^{0} \rightarrow K_{L}, \bar{D}^{0} \rightarrow \pi^{0}\pi^{-}K^{+}, D^{0} \rightarrow \pi^{+}\pi^{-}K_{S}, \\ K_{S} \rightarrow \pi^{+}\pi^{-} \\ (e^{+}e^{-} \rightarrow K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{p}\gamma\gamma\gamma\gamma\gamma) \\ e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \rightarrow D_{2}^{*-}D_{s}^{*+}, \bar{B}^{0} \rightarrow \pi^{+}\pi^{-}D^{+}D_{s}^{-}, D_{2}^{*-} \rightarrow \pi^{0}\bar{D}^{*-}, D_{s}^{*+} \rightarrow D_{s}^{+}\gamma, \end{array}$	96	96	1	97
98	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to D_{2}^{*-}D_{s}^{*+}, \bar{B}^{0} \to \pi^{+}\pi^{-}D^{+}D_{s}^{-}, D_{2}^{*-} \to \pi^{0}\bar{D}^{*-}, D_{s}^{*+} \to D_{s}^{+}\gamma,$ $D^{+} \to \pi^{+}\bar{K}_{1}^{'0}, D_{s}^{-} \to e^{-}\bar{\nu}_{e}\eta', \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D_{s}^{+} \to \pi^{+}\phi, \bar{K}_{1}^{'0} \to \pi^{+}K^{*-}, \eta' \to \pi^{0}\pi^{0}\eta,$ $\bar{D}^{0} \to \pi^{-}\omega K^{+}, \phi \to \pi^{-}\rho^{+}, K^{*-} \to \pi^{-}\bar{K}^{0}, \eta \to \pi^{0}\pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+},$ $\bar{K}^{0} \to K_{S}, K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma$	97	97	1	98
99	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K_{L}\eta_{c}, \bar{B}^{0} \to \pi^{-}\pi^{-}\rho^{+}D^{*+}, \eta_{c} \to \pi^{0}K^{0}\bar{K}^{0}\bar{K}^{0}K^{*}, \rho^{+} \to \pi^{0}\pi^{+},$ $D^{*+} \to \pi^{0}D^{+}, K^{0} \to K_{S}, \bar{K}^{0} \to K_{L}, \bar{K}^{0} \to K_{S}, K^{*} \to \pi^{-}K^{+}, D^{+} \to \pi^{0}\pi^{+}K_{S},$ $K_{S} \to \pi^{0}\pi^{0}, K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	98	98	1	99
100	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{0}\rho^{0}\pi^{+}\bar{D}^{*-}, \bar{B}^{0} \to K^{*}K^{-}D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $K^{*} \to \pi^{0}K^{0}, D^{+} \to \pi^{+}\pi^{+}K^{-}, \bar{D}^{0} \to \pi^{-}\rho^{+}, K^{0} \to K_{S}, \rho^{+} \to \pi^{0}\pi^{+}, K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	99	99	1	100

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
	(event initial-initial states) $e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow \pi^0\pi^+\rho^-\eta\bar{D}^0, \bar{B}^0 \rightarrow \pi^-\rho^+\rho^-D^+, \rho^- \rightarrow \pi^0\pi^-, \eta \rightarrow \pi^0\pi^+\pi^-,$				
	$\bar{D}^0 \rightarrow \pi^0 \pi^+ \pi^- K_S, \rho^+ \rightarrow \pi^0 \pi^+, \rho^- \rightarrow \pi^0 \pi^-, D^+ \rightarrow e^+ \nu_e \bar{K}^0, \pi^0 \rightarrow e^+ e^-, K_S \rightarrow \pi^+ \pi^-,$				
101	$ar{K}^0 ightarrow K_S, K_S ightarrow \pi^0 \pi^0$	100	100	1	101
	$(e^+e^- \to e^+e^+e^-\nu_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{0}\eta\omega\bar{D}^{0}, \bar{B}^{0} \to \pi^{+}\pi^{-}D^{+}D_{s}^{-}, \eta \to \pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{-}, \omega \to \pi^{0$				
102	$\bar{D}^{0} \to \pi^{0} \pi^{-} K^{+}, D^{+} \to \pi^{0} \pi^{+} K_{S}, D^{-}_{s} \to e^{-} \bar{\nu}_{e} \eta, K_{S} \to \pi^{+} \pi^{-}, \eta \to \pi^{+} \pi^{-}$	101	101	1	102
	$(e^+e^- \rightarrow e^- \nu_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$				
103	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\rho^{+}\omega\omega D^{-}, \bar{B}^{0} \to \pi^{0}\pi^{0}\rho^{0}\pi^{-}\pi^{-}\rho^{+}D^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{-} \to \pi^{-}\pi^{-}K^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+}, D^{*+} \to \pi^{+}D^{0}, D^{0} \to \pi^{0}\pi^{+}K^{-}$	102	102	1	103
103	$(e^+e^- \to \pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma))$	102	102	1	105
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to D^{-}D_{s}^{+}, \bar{B}^{0} \to \rho^{0}\pi^{-}\rho^{+}D^{0}, D^{-} \to \pi^{0}\pi^{-}K_{S}, D_{s}^{*+} \to D_{s}^{+}\gamma,$				
104	$ ho^0 ightarrow \pi^+\pi^-, ho^+ ightarrow \pi^0\pi^+, D^0 ightarrow \mu^+ u_\mu K^-, K_S ightarrow \pi^+\pi^-, D_s^+ ightarrow \pi^0\pi^+\omega, \omega ightarrow \pi^0\pi^+\pi^-$	103	103	1	104
	$(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \pi^{0}\rho^{0}\pi^{+}\pi^{+}\pi^{-}\omega D^{-}, \bar{B}^{0} \rightarrow \pi^{+}D^{*0}D^{-}_{s}, \rho^{0} \rightarrow \pi^{+}\pi^{-}, \omega \rightarrow \pi^{0}\pi^{+}\pi^{-}, \omega \rightarrow \pi^{0}\pi^{+}, \omega \rightarrow \pi^{0}\pi^{+}\pi^{-}, \omega \rightarrow \pi^{0}\pi^{+}\pi^{-}, \omega \rightarrow \pi^{0}\pi^{+}, \omega \rightarrow \pi^{0}$			1	
105	$D^{-} \to \pi^{0} \pi^{-} K^{*}, D^{*0} \to \pi^{0} D^{0}, D_{s}^{-} \to e^{-} \bar{\nu}_{e} \eta', K^{*} \to \pi^{-} K^{+}, D^{0} \to \pi^{+} \pi^{-} \bar{K}^{*}, \eta' \to \pi^{+} \pi^{-} \eta,$	104	104		105
	$\bar{K}^* \to \pi^+ K^-, \eta \to \gamma \gamma $ $(e^+ e^- \to e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$				
	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+K^+K^-\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \rho^+ \rightarrow \pi^0\pi^+, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0,$				
106	$D^{*+} o \pi^0 D^+, ar{D}^0 o K_L \pi^+ \pi^-, D^+ o \pi^0 \pi^+ K_S, K_S o \pi^0 \pi^0$	105	105	1	106
	$(e^+e^- \to e^- \bar{\nu}_e K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{0}J/\psi, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}\pi^{-}D^{*+}, K^{0} \to K_{S}, J/\psi \to e^{+}e^{-},$				
107	$D^{*+} \to \pi^+ D^0, K_S \to \pi^+ \pi^-, D^0 \to \pi^0 \pi^+ \pi^- K_S, K_S \to \pi^+ \pi^-$	106	106	1	107
	$(e^{+}e^{-} \to e^{+}e^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{0}\pi^{+}\rho^{-}\bar{D}^{*0}, \bar{B}^{0} \to \rho^{-}\eta\omega\omega D^{*+}, \rho^{-} \to \pi^{0}\pi^{-}, \bar{D}^{*0} \to \bar{D}^{0}\gamma,$				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$				
108	$\pi^0 ightarrow e^+e^-, D^+ ightarrow \pi^0\pi^+ar{K}^*, \omega ightarrow \pi^0\gamma, ar{K}^* ightarrow \pi^0ar{K}^0, ar{K}^0 ightarrow K_L, K_L ightarrow \mu^- u_\mu\pi^+$	107	107	1	108
	$\frac{(e^{+}e^{-} \to e^{+}e^{-}\mu^{-}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma)}{e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{-}\bar{D}^{*0}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}\rho^{-}D^{+}, \bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, \rho^{-} \to \pi^{0}\pi^{-},}$				
109	$D^+ \to \pi^+ K_S, \bar{D}^0 \to \mu^- \bar{\nu}_\mu K^+, K_S \to \pi^+ \pi^-$	108	108	1	109
	$(e^+e^- \to \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ \gamma \gamma \gamma \gamma \gamma \gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \rho^{0}\pi^{-}D^{*+}, \bar{B}^{0} \to \bar{K}^{0}\bar{\Sigma}^{*0}\Sigma_{c}^{*0}, \rho^{0} \to \pi^{+}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, \\ \bar{K}^{0} \to K_{L}, \bar{\Sigma}^{*0} \to \pi^{0}\bar{\Lambda}, \Sigma_{c}^{*0} \to \pi^{-}\Lambda_{c}^{+}, D^{0} \to \pi^{0}\pi^{0}\bar{K}^{*}, \bar{\Lambda} \to \pi^{+}\bar{p}, \Lambda_{c}^{+} \to \pi^{+}\eta\Lambda,$				
110	$egin{aligned} K & ightarrow K_L, \Sigma & ightarrow \pi^- \Lambda_c, \Sigma & ightarrow \pi^- \Lambda_c, D & ightarrow \pi^- \pi^- K_c, \Lambda & ightarrow \pi^+ \gamma^- \gamma^- \gamma^0 \pi^0 \pi^0, \Lambda & ightarrow \pi^- p \end{aligned}$	109	109	1	110
	$(e^{+}e^{-} \rightarrow K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				
	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to D^{*+}D_{s}^{*-}, \bar{B}^{0} \to \rho^{0}\pi^{+}\bar{\Delta}^{++}\Lambda_{c}^{+}, D^{*+} \to \pi^{0}D^{+}, D_{s}^{*-} \to \pi^{0}D_{s}^{-},$				
111	$\rho^0 \to \pi^+\pi^-, \dot{\bar{\Delta}}^{++} \to \pi^-\bar{p}, \Lambda_c^+ \to \rho^0\Sigma^+, D^+ \to \pi^0K_L\pi^+, D_s^- \to \mu^-\bar{\nu}_\mu\eta, \rho^0 \to \pi^+\pi^-,$	110	110	1	111
111	$\Sigma^+ o \pi^0 p, \eta o \gamma \gamma$	110	110		111
	$(e^+e^- \to \mu^-\bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$				

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
112	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}D_{2}^{*-}, \bar{B}^{0} \to \rho^{-}D^{*+}, D_{2}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{-} \to \pi^{0}\pi^{-},$ $D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{0}K_{1}^{0}, D^{0} \to K^{-}a_{1}^{+}, K_{1}^{0} \to \omega K^{0}, a_{1}^{+} \to \pi^{0}\rho^{+}, \omega \to \pi^{0}\pi^{+}\pi^{-},$ $K^{0} \to K_{S}, \rho^{+} \to \pi^{0}\pi^{+}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	111	111	1	112
113	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}D^{-}, \bar{B}^{0} \to D_{s}^{*+}\bar{\Delta}^{+}\Lambda, D^{-} \to \pi^{-}\pi^{-}K^{+}, D_{s}^{*+} \to D_{s}^{+}\gamma,$ $\bar{\Delta}^{+} \to \pi^{-}\bar{n}, \Lambda \to \pi^{0}n, D_{s}^{+} \to \pi^{+}\eta, \eta \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{n}\gamma\gamma\gamma\gamma\gamma)$	112	112	1	113
114	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\bar{D}^{*-}, \bar{B}^{0} \to K^{-}D^{*+}\bar{D}^{*0}, \bar{D}^{*-} \to \pi^{0}D^{-}, D^{*+} \to \pi^{+}D^{0},$ $\bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, D^{-} \to K_{L}\pi^{+}\pi^{-}K^{-}, D^{0} \to \pi^{-}\rho^{+}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \rho^{+} \to \pi^{0}\pi^{+}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	113	113	1	114
115	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}D_{s1}^{'+}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D_{s1}^{'+} \to \pi^{0}D_{s}^{*+},$ $D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{-}\eta K^{+}, D_{s}^{*+} \to D_{s}^{+}\gamma, D^{0} \to K_{L}K^{+}K^{-}, \eta \to \pi^{0}\pi^{+}\pi^{-}, D_{s}^{+} \to \pi^{0}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	114	114	1	115
116	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to D^{*+}D_{s}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D_{1}^{\prime+}, D^{*+} \to \pi^{+}D^{0}, D_{s}^{*-} \to D_{s}^{-}\gamma,$ $D_{1}^{\prime+} \to \pi^{0}D^{*+}, D^{0} \to \pi^{0}\pi^{+}K^{-}, D_{s}^{-} \to \rho^{-}\eta, D^{*+} \to \pi^{+}D^{0}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \pi^{0}\pi^{+}\pi^{-},$ $D^{0} \to \pi^{0}\pi^{+}\pi^{-}K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	115	115	1	116
117	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\eta\bar{K}^{0}K^{*}D^{-}, \bar{B}^{0} \to D^{*+}D_{s}^{*-}, \eta \to \pi^{+}\pi^{-}, \bar{K}^{0} \to K_{L},$ $K^{*} \to \pi^{-}K^{+}, D^{-} \to \pi^{0}\pi^{-}K^{*}, D^{*+} \to \pi^{+}D^{0}, D_{s}^{*-} \to D_{s}^{-}\gamma, K^{*} \to \pi^{-}K^{+}, D^{0} \to e^{+}\nu_{e}K^{*-},$ $D_{s}^{-} \to \rho^{-}\eta', K^{*-} \to \pi^{0}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \eta' \to \pi^{+}\pi^{-}\eta, \eta \to \gamma\gamma$ $(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	116	116	1	117
118	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{-}\eta\bar{K}^{0}K^{+}\bar{D}^{*0}, \bar{B}^{0} \to \pi^{-}\eta D^{*+}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \pi^{0}\pi^{0}\pi^{0},$ $\bar{K}^{0} \to K_{S}, \bar{D}^{*0} \to \bar{D}^{0}\gamma, \eta \to \pi^{0}\pi^{0}\pi^{0}, D^{*+} \to \pi^{+}D^{0}, K_{S} \to \pi^{0}\pi^{0}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+},$ $D^{0} \to e^{+}\nu_{e}K^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	117	117	1	118
119	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \pi^{0}\pi^{0}\bar{D}^{0}, B^{0} \to \pi^{0}\rho^{0}\rho^{+}\omega D^{-}, \bar{D}^{0} \to \rho^{0}\pi^{-}K^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{-} \to e^{-}\bar{\nu}_{e}\pi^{-}K^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{0} \to \pi^{0}, \rho^$	118	118	1	119
120	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{0}D^{*+}\bar{D}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, K^{0} \to K_{S}, D^{*+} \to \pi^{0}D^{+},$ $\bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{*+} \to \pi^{+}D^{0}, K_{S} \to \pi^{+}\pi^{-}, D^{+} \to \pi^{+}\pi^{+}K^{-}, \bar{D}^{0} \to \pi^{-}K_{S}K^{+}, D^{0} \to K_{L}\pi^{-}K^{+},$ $K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma)$	119	119	1	120
121	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, D^{*+} \to \pi^{+}\bar{D}^{0}, D^{*+} \to \pi^{+}D^{0},$ $D^{0} \to \pi^{0}\pi^{+}K^{-}, D^{0} \to \rho^{+}K^{*-}, \rho^{+} \to \pi^{0}\pi^{+}, K^{*-} \to \pi^{-}\bar{K}^{0}, \bar{K}^{0} \to K_{L}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}K^{-}\gamma\gamma\gamma\gamma)$	120	120	1	121

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
122	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{+}\pi^{-}\omega D^{*0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{*0} \to \pi^{0}D^{0}, \bar{D}^{0} \to \pi^{-}K_{S}K^{+}, D^{0} \to \mu^{+}\nu_{\mu}\pi^{-}\bar{K}^{0}, K_{S} \to \pi^{+}\pi^{-}, \bar{K}^{0} \to K_{L}$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma)$	121	121	1	122
123	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{*+} \to \pi^{+}D^{0},$ $\bar{D}^{0} \to e^{-}\bar{\nu}_{e}K^{+}, D^{0} \to \rho^{+}K^{*-}, \rho^{+} \to \pi^{0}\pi^{+}, K^{*-} \to \pi^{0}K^{-}$ $(e^{+}e^{-} \to e^{-}e^{-}\bar{\nu}_{e}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}K^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma)$	122	122	1	123
124	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \tau^{+}\nu_{\tau}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\omega K^{*-}D_{s}^{+}, \tau^{+} \to \bar{\nu}_{\tau}\pi^{0}\pi^{+}, \bar{D}^{*-} \to \pi^{0}D^{-},$ $\omega \to \pi^{0}\pi^{+}\pi^{-}, K^{*-} \to \pi^{-}\bar{K}^{0}, D_{s}^{+} \to \pi^{+}f_{0}(980), D^{-} \to e^{-}\bar{\nu}_{e}K^{0}, \bar{K}^{0} \to K_{L}, f_{0}(980) \to \pi^{+}\pi^{-},$ $K^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	123	123	1	124
125	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{-}\bar{K}^{0}K^{+}\bar{D}^{*0}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{+}, \bar{K}^{0} \to K_{L}, \bar{D}^{*0} \to \pi^{0}\bar{D}^{0},$ $D^{+} \to K_{L}K^{*+}, \bar{D}^{0} \to \omega K_{S}, K^{*+} \to \pi^{+}K^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-}, K_{S} \to \pi^{0}\pi^{0}, K^{0} \to K_{S},$ $\pi^{0} \to e^{+}e^{-}, K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{+}e^{-}\mu^{-}\bar{\nu}_{\mu}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	124	124	1	125
126	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{1}^{\prime-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, D_{1}^{\prime-} \to \pi^{-}\bar{D}^{*0}, D^{*+} \to \pi^{0}D^{+},$ $\bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, D^{+} \to e^{+}\nu_{e}\bar{K}^{*}, \bar{D}^{0} \to \rho^{-}K^{*+}, \bar{K}^{*} \to \pi^{+}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}, K^{*+} \to \pi^{+}K^{0},$ $K^{0} \to K_{S}, K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	125	125	1	126
127	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\bar{D}^{*-}, \bar{B}^{0} \to D_{2}^{*+}D_{s}^{-}, \pi^{0} \to e^{+}e^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $D_{2}^{*+} \to \pi^{+}D^{0}, D_{s}^{-} \to \pi^{0}\pi^{0}\pi^{-}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, D^{0} \to \rho^{+}K^{*-}, \rho^{+} \to \pi^{0}\pi^{+}, K^{*-} \to \pi^{-}\bar{K}^{0},$ $\bar{K}^{0} \to K_{L}, K_{L} \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}e^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	126	126	1	127
128	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{B}^{0} \to \bar{K}^{*}D^{+}D^{-}, D^{*+} \to \pi^{+}D^{0}, \bar{K}^{*} \to \pi^{+}K^{-},$ $D^{+} \to e^{+}\nu_{e}\bar{K}^{0}, D^{-} \to e^{-}\bar{\nu}_{e}K^{*}, D^{0} \to \pi^{0}\pi^{+}K^{-}, \bar{K}^{0} \to K_{S}, K^{*} \to \pi^{0}K^{0}, K_{S} \to \pi^{+}\pi^{-},$ $K^{0} \to K_{L}$ $(e^{+}e^{-} \to e^{+}e^{-}e^{-}\nu_{e}\bar{\nu}_{e}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma)$	127	127	1	128
129	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}D_{1}^{\prime-}, \bar{B}^{0} \to \pi^{+}D^{0}D_{s}^{-}, D_{1}^{\prime-} \to \pi^{-}\bar{D}^{*0}, D^{0} \to \pi^{0}\pi^{+}\pi^{-}K_{S},$ $D_{s}^{-} \to \tau^{-}\bar{\nu}_{\tau}, \bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, K_{S} \to \pi^{+}\pi^{-}, \tau^{-} \to e^{-}\bar{\nu}_{e}\nu_{\tau}, \bar{D}^{0} \to \pi^{+}\pi^{-}K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\nu_{\tau}\bar{\nu}_{\tau}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma)$	128	128	1	129
130	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}a_{1}^{+}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{D}^{*-} \to \pi^{0}D^{-}, a_{1}^{+} \to \pi^{0}\rho^{+},$ $D^{*+} \to \pi^{0}D^{+}, D^{-} \to \pi^{-}\pi^{-}K^{+}, \rho^{+} \to \pi^{0}\pi^{+}, D^{+} \to e^{+}\nu_{e}\bar{K}^{0}, \bar{K}^{0} \to K_{L}, K_{L} \to e^{-}\nu_{e}\pi^{+}$ $(e^{+}e^{-} \to e^{+}e^{-}e^{-}\nu_{e}\nu_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	129	129	1	130
131	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \eta \bar{K}^{0}K^{+}\bar{D}^{*-}, \bar{B}^{0} \to \rho^{-}\eta D^{+}, \eta \to \pi^{0}\pi^{+}\pi^{-}, \bar{K}^{0} \to K_{S},$ $\bar{D}^{*-} \to \pi^{0}D^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \gamma\gamma, D^{+} \to \pi^{0}\pi^{0}\pi^{+}, K_{S} \to \pi^{0}\pi^{0}, D^{-} \to K_{L}a_{1}^{-},$ $a_{1}^{-} \to \rho^{0}\pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	130	130	1	131

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
132	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \rho^{-}D^{+}, \bar{B}^{0} \to \rho^{0}\pi^{-}\omega D^{+}, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to e^{+}\nu_{e}\pi^{+}K^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{+} \to \pi^{+}\pi^{+}K^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma)$	131	131	1	132
133	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \bar{D}^{*-}D_{s}^{+}, B^{0} \to e^{+}\nu_{e}D_{2}^{*-}, \bar{D}^{*-} \to \pi^{0}D^{-}, D_{s}^{+} \to \mu^{+}\nu_{\mu}\phi,$ $D_{2}^{*-} \to \pi^{-}\bar{D}^{*0}, D^{-} \to e^{-}\bar{\nu}_{e}\pi^{-}K^{+}, \phi \to K^{+}K^{-}, \bar{D}^{*0} \to \bar{D}^{0}\gamma, \bar{D}^{0} \to K^{+}a_{1}^{-}, a_{1}^{-} \to \rho^{0}\pi^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{+}K^{-}\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{-}\rho^{+}\bar{D}^{*-}, \bar{B}^{0} \to D_{2}^{*+}D_{s}^{-}, \rho^{+} \to \pi^{0}\pi^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$	132	132	1	133
134	$D_{2}^{*+} \to \pi^{+} D^{0}, D_{s}^{-} \to \tau^{-} \bar{\nu}_{\tau}, \bar{D}^{0} \to \pi^{0} K_{L} \pi^{+} \pi^{-}, D^{0} \to \rho^{+} K^{*-}, \tau^{-} \to \nu_{\tau} \pi^{0} \pi^{-}, \rho^{+} \to \pi^{0} \pi^{+}, K^{*-} \to \pi^{-} \bar{K}^{0}, \bar{K}^{0} \to K_{L}$ $(e^{+} e^{-} \to \nu_{\tau} \bar{\nu}_{\tau} K_{L} K_{L} \pi^{+} \pi^{+} \pi^{+} \pi^{+} \pi^{-} \pi^{-} \pi^{-} \pi^{-} \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$	133	133	1	134
135	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\omega K^{+}D_{s}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}\bar{D}^{*+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D_{s}^{*-} \to D_{s}^{-}\gamma,$ $D^{*+} \to \pi^{+}D^{0}, D_{s}^{-} \to \rho^{-}\eta', D^{0} \to \pi^{+}\pi^{+}\pi^{-}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \eta' \to \rho^{0}\gamma, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	134	134	1	135
136	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to D_{s}^{*+}D_{1}^{\prime-}, \bar{B}^{0} \to \rho^{0}\pi^{-}D^{*+}, D_{s}^{*+} \to D_{s}^{*+}\gamma, D_{1}^{\prime-} \to \pi^{-}\bar{D}^{*0},$ $\rho^{0} \to \pi^{+}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, D_{s}^{+} \to K_{L}\pi^{+}\pi^{-}K^{+}, \bar{D}^{*0} \to \bar{D}^{0}\gamma, D^{0} \to K^{-}a_{1}^{+}, \bar{D}^{0} \to \pi^{0}\pi^{+}\pi^{-}K^{*},$ $a_{1}^{+} \to \pi^{+}f_{0}(600), K^{*} \to \pi^{-}K^{+}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}f_{0}(600)\gamma\gamma\gamma\gamma)$	135	135	1	136
137	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{-}\rho^{+}\rho^{+}K^{0}D^{-}, \bar{B}^{0} \to \pi^{0}\rho^{0}\pi^{-}\eta\omega D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+},$ $\rho^{+} \to \pi^{0}\pi^{+}, K^{0} \to K_{S}, D^{-} \to K_{L}\pi^{+}\pi^{-}K^{-}, \pi^{0} \to e^{+}e^{-}, \rho^{0} \to \pi^{+}\pi^{-}, \eta \to \pi^{+}\pi^{-},$ $\omega \to \pi^{0}\pi^{+}\pi^{-}, D^{+} \to K_{L}a_{1}^{+}, K_{S} \to \pi^{+}\pi^{-}, a_{1}^{+} \to \pi^{0}\rho^{+}, \rho^{+} \to \pi^{0}\pi^{+}$ $(e^{+}e^{-} \to e^{+}e^{-}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	136	136	1	137
138	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{0}K^{+}D_{s}^{*-}, \bar{B}^{0} \to D^{*0}n\bar{n}, D_{s}^{*-} \to D_{s}^{-}\gamma, D^{*0} \to \pi^{0}D^{0},$ $D_{s}^{-} \to \rho^{-}\eta', D^{0} \to \pi^{+}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \eta' \to \rho^{0}\gamma, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	137	137	1	138
139	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to e^{+}\nu_{e}D^{-}, B^{0} \to K^{+}\Delta^{+}\Sigma_{c}^{*-}, D^{-} \to K_{L}\pi^{+}\pi^{-}K^{-}, \Delta^{+} \to \pi^{0}p,$ $\bar{\Sigma}_{c}^{*-} \to \pi^{-}\bar{\Lambda}_{c}^{-}, \bar{\Lambda}_{c}^{-} \to \pi^{0}\pi^{-}\bar{\Delta}^{0}, \bar{\Delta}^{0} \to \pi^{+}\bar{p}$ $(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}p\bar{p}\gamma\gamma\gamma\gamma)$	138	138	1	139
140	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{+}\rho^{+}\rho^{-}\eta\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\bar{K}^{0}K^{*}K^{+}K^{*-}, \rho^{+} \to \pi^{0}\pi^{+}, \rho^{+} \to \pi^{0}\pi^{+}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{0}D^{-}, \bar{K}^{0} \to K_{S}, K^{*} \to \pi^{-}K^{+}, K^{*-} \to \pi^{-}\bar{K}^{0}, \rho^{-} \to e^{-}\bar{\nu}_{e}K^{*}, K_{S} \to \pi^{+}\pi^{-}, \bar{K}^{0} \to K_{S}, K^{*} \to \pi^{-}K^{+}, K_{S} \to \pi^{+}\pi^{-}, \rho^{-} \to e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$	139	139	1	140
141	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\rho^{0}\pi^{-}D^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{0} \to \pi^{+}\pi^{-},$ $D^{+} \to \pi^{0}\pi^{+}\bar{K}^{*}, \bar{D}^{0} \to e^{-}\bar{\nu}_{e}K^{+}, \bar{K}^{*} \to \pi^{0}\bar{K}^{0}, \bar{K}^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma)$	140	140	1	141

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
142	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to D^{-}D_{s}^{*+}\gamma, \bar{B}^{0} \to \pi^{+}\pi^{-}\rho^{-}D^{+}, D^{-} \to \pi^{0}\pi^{-}K^{+}K^{-}, D_{s}^{*+} \to D_{s}^{+}\gamma,$ $\rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{*}, D_{s}^{+} \to \bar{K}^{*}K^{*+}, \bar{K}^{*} \to \pi^{+}K^{-}, \bar{K}^{*} \to \pi^{+}K^{-}, K^{*+} \to \pi^{0}K^{+}$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}K^{-}X^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	141	141	1	142
143	$\begin{array}{c} e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{+}n\bar{\Sigma}_{c}^{-}, \bar{B}^{0} \to D^{*+}D_{s1}^{'-}, \rho^{+} \to \pi^{0}\pi^{+}, \bar{\Sigma}_{c}^{-} \to \pi^{0}\bar{\Lambda}_{c}^{-}, \\ D^{*+} \to \pi^{+}D^{0}, D_{s1}^{'-} \to \pi^{0}D_{s}^{*-}, \bar{\Lambda}_{c}^{-} \to \bar{K}^{*}\bar{\Sigma}^{-}, D^{0} \to \pi^{0}\pi^{+}K^{-}, D_{s}^{*-} \to D_{s}^{-}\gamma, \bar{K}^{*} \to \pi^{+}K^{-}, \\ \bar{\Sigma}^{-} \to \pi^{-}\bar{n}, D_{s}^{-} \to K^{*}K^{-}, K^{*} \to \pi^{-}K^{+} \\ (e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}K^{-}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma) \end{array}$	142	142	1	143
144	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{+}, \bar{B}^{0} \to \bar{K}^{*}K^{-}D^{*+}, D^{+} \to K_{S}K^{*+}, \bar{K}^{*} \to \pi^{+}K^{-}, \\ D^{*+} \to \pi^{0}D^{+}, K_{S} \to \pi^{+}\pi^{-}, K^{*+} \to \pi^{0}K^{+}, D^{+} \to \pi^{0}\pi^{0}\pi^{+} \\ (e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	143	143	1	144
145	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{+}\pi^{-}\omega\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}\pi^{-}D^{*+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to e^{-}\bar{\nu}_{e}\pi^{+}K^{0}, D^{0} \to \rho^{+}K^{*-}, K^{0} \to K_{S}, \rho^{+} \to \pi^{0}\pi^{+}, K^{*-} \to \pi^{-}\bar{K}^{0},$ $K_{S} \to \pi^{+}\pi^{-}, \bar{K}^{0} \to K_{L}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	144	144	1	145
146	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}K^{0}\bar{K}^{*}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{+}K^{-}D^{-}D^{*+}, K^{0} \to K_{L}, \bar{K}^{*} \to \pi^{+}K^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{-} \to K_{S}a_{1}^{-}, D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to K_{S}\eta', K_{S} \to \pi^{+}\pi^{-}, a_{1}^{-} \to \rho^{0}\pi^{-}, \bar{D}^{0} \to \pi^{0}\pi^{0}\pi^{+}\pi^{-}, K_{S} \to \pi^{+}\pi^{-}, \eta' \to \rho^{0}\gamma, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}, \bar{D}^{0} \to \pi^{0}\pi^{0}\pi^{0}\pi^{0} \to \pi^{0}\pi^{0}\pi^{0}\pi^{0}\pi^{0}\pi^{0}\pi^{0}\pi^{0}$	145	145	1	146
147	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \rho^{-}D_{2}^{*+}, \bar{B}^{0} \to \rho^{0}\pi^{+}K^{*-}\eta_{c}, \rho^{-} \to \pi^{0}\pi^{-}, D_{2}^{*+} \to \pi^{+}D^{0},$ $\rho^{0} \to \pi^{+}\pi^{-}, K^{*-} \to \pi^{-}\bar{K}^{0}, \eta_{c} \to \pi^{0}\pi^{+}\pi^{-}\omega, D^{0} \to \pi^{+}\omega K^{-}, \bar{K}^{0} \to K_{L}, \omega \to \pi^{0}\pi^{+}\pi^{-},$ $\omega \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	146	146	1	147
148	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{+}\pi^{+}\rho^{-}D^{-}, \bar{B}^{0} \to D_{s}^{*-}D_{1}^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-},$ $D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{0}, D_{s}^{*-} \to D_{s}^{-}\gamma, D_{1}^{+} \to \pi^{+}D^{*0}, K^{0} \to K_{S}, D_{s}^{-} \to \pi^{+}\pi^{-}K_{S}K^{-}, D^{*0} \to D^{0}\gamma,$ $K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{+}\pi^{-}, D^{0} \to \pi^{+}\omega K^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	147	147	1	148
149	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\rho^{0}\pi^{+}D^{-}, \bar{B}^{0} \to \pi^{+}\pi^{-}\pi^{-}D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, D^{-} \to \pi^{-}K_{1}^{'0},$ $D^{+} \to K_{S}a_{1}^{+}, K_{1}^{'0} \to \pi^{-}K^{*+}, K_{S} \to \pi^{+}\pi^{-}, a_{1}^{+} \to \pi^{0}\rho^{+}, K^{*+} \to \pi^{0}K^{+}, \rho^{+} \to \pi^{0}\pi^{+}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	148	148	1	149
150	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \tau^{+}\nu_{\tau}D_{0}^{*-}, \bar{B}^{0} \to \pi^{0}\omega K^{*}K^{-}D^{+}, \tau^{+} \to \mu^{+}\nu_{\mu}\bar{\nu}_{\tau}, D_{0}^{*-} \to \pi^{-}\bar{D}^{0},$ $\omega \to \pi^{0}\pi^{+}\pi^{-}, K^{*} \to \pi^{0}K^{0}, D^{+} \to \pi^{+}\pi^{+}K^{-}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, K^{0} \to K_{L}$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	149	149	1	150
151	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\pi^{+}\pi^{-}\bar{D}^{*-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{*+} \to \pi^{0}D^{+},$ $\bar{D}^{0} \to \pi^{-}K^{+}, D^{+} \to \mu^{+}\nu_{\mu}\pi^{+}K^{-}$ $(e^{+}e^{-} \to e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma)$	150	150	1	151

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
152	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \rho^{0}\bar{D}^{*-}\bar{\Sigma}^{0}\Sigma^{+}, \bar{B}^{0} \rightarrow \eta\bar{K}^{0}J/\psi, \rho^{0} \rightarrow \pi^{+}\pi^{-}, \bar{D}^{*-} \rightarrow \pi^{0}D^{-},$ $\bar{\Sigma}^{0} \rightarrow \bar{\Lambda}\gamma, \Sigma^{+} \rightarrow \pi^{+}n, \eta \rightarrow \pi^{0}\pi^{0}\pi^{0}, \bar{K}^{0} \rightarrow K_{L}, J/\psi \rightarrow \pi^{-}\eta K_{S}K^{+}, D^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}K^{0},$ $\bar{\Lambda} \rightarrow \pi^{+}\bar{p}, K_{L} \rightarrow e^{-}\nu_{e}\pi^{+}, \eta \rightarrow \pi^{0}\pi^{+}\pi^{-}, K_{S} \rightarrow \pi^{+}\pi^{-}, K^{0} \rightarrow K_{S}, K_{S} \rightarrow \pi^{0}\pi^{0}$ $(e^{+}e^{-} \rightarrow e^{-}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	151	151	1	152
153	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\rho^{0}\rho^{0}\rho^{0}\rho^{+}\bar{D}^{*-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{0} \to \pi^{-}\pi^{-}, \rho^{0}$	152	152	1	153
154	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{*+}D^{-}, \bar{B}^{0} \to \pi^{+}K^{-}\chi_{c1}, K^{*+} \to \pi^{0}K^{+}, D^{-} \to \pi^{-}K_{1}^{'0},$ $\chi_{c1} \to \pi^{-}\eta\eta\bar{K}^{0}K^{+}, K_{1}^{'0} \to \pi^{-}K^{*+}, \eta \to \gamma\gamma, \eta \to \pi^{0}\pi^{0}\pi^{0}, \bar{K}^{0} \to K_{S}, K^{*+} \to \pi^{0}K^{+},$ $K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	153	153	1	154
155	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{*+}D^{-}D^{0}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D_{2}^{*+}, K^{*+} \to \pi^{0}K^{+}, D^{-} \to \pi^{0}\pi^{-}K_{S},$ $D^{0} \to \pi^{0}\pi^{0}\pi^{+}\pi^{-}, D_{2}^{*+} \to \pi^{+}D^{0}, K_{S} \to \pi^{+}\pi^{-}, D^{0} \to \pi^{0}\pi^{+}K^{*-}, K^{*-} \to \pi^{0}K^{-}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	154	154	1	155
156	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{+}D^{-}, \bar{B}^{0} \to \pi^{-}\pi^{-}\rho^{+}D^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, D^{-} \to \rho^{-}K^{*}, \rho^{+} \to \pi^{0}\pi^{+}, D^{*+} \to \pi^{+}D^{0}, \rho^{-} \to \pi^{0}\pi^{-}, K^{*} \to \pi^{-}K^{+}, D^{0} \to \pi^{0}\pi^{0}\bar{K}^{*}, \bar{K}^{*} \to \pi^{+}K^{-} = (e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	155	155	1	156
157	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\rho^{0}\rho^{-}D^{*+}\gamma, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{0} \to \pi^{+}\pi^{-}, \\ \rho^{-} \to \pi^{0}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, D^{0} \to e^{+}\nu_{e}\rho^{-}, \rho^{-} \to \pi^{0}\pi^{-} \\ (e^{+}e^{-} \to e^{+}e^{+}\nu_{e}\nu_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	156	156	1	157
158	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \pi^{+}\bar{D}^{*-}, B^{0} \to \pi^{0}\rho^{0}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\eta\omega D^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{0}\pi^{+}\pi^{-}, \rho^{0} \to \pi^{0}\pi^{+}\pi^{-}, \rho^{0} \to \pi^{0}\pi^{+}\pi^{-}, \rho^{0} \to \pi^{0}\pi^{-}K^{+}, \rho^{0} \to \pi^{0}$	157	157	1	158
159	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{-}K^{0}D^{+}\bar{D}^{*0}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{+}, K^{0} \to K_{S}, D^{+} \to K_{S}a_{1}^{+},$ $\bar{D}^{*0} \to \bar{D}^{0}\gamma, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{*}, K_{S} \to \pi^{+}\pi^{-}, K_{S} \to \pi^{+}\pi^{-}, a_{1}^{+} \to \pi^{+}f_{0}(600), \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+},$ $\bar{K}^{*} \to \pi^{0}\bar{K}^{0}, \bar{K}^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}f_{0}(600)\gamma\gamma\gamma\gamma\gamma)$	158	158	1	159
160	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{1}^{-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, D_{1}^{-} \to \pi^{-}\bar{D}^{*0}, D^{*+} \to \pi^{0}D^{+},$ $\bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, D^{+} \to e^{+}\nu_{e}\pi^{0}, \bar{D}^{0} \to \pi^{0}K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	159	159	1	160
161	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{K}^{0}K^{+}D^{-}, \bar{B}^{0} \to \rho^{0}\pi^{-}D^{*+}, \bar{K}^{0} \to K_{L}, D^{-} \to K^{*}a_{1}^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, K^{*} \to \pi^{-}K^{+}, a_{1}^{-} \to \pi^{-}f_{0}(600), D^{0} \to \pi^{+}\omega K^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}f_{0}(600)\gamma\gamma)$	160	160	1	161
162	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to D^{*+}D_{s}^{-}, \bar{B}^{0} \to \pi^{0}\pi^{0}\pi^{-}\omega D^{+}, D^{*+} \to \pi^{+}D^{0}, D_{s}^{-} \to \mu^{-}\bar{\nu}_{\mu}\eta,$ $\omega \to \pi^{+}\pi^{-}, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{*}, D^{0} \to \pi^{0}\pi^{+}K^{-}, \eta \to \pi^{0}\pi^{0}\pi^{0}, \bar{K}^{*} \to \pi^{+}K^{-}$ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	161	161	1	162

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
163	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\omega\bar{D}^{*-}, \bar{B}^{0} \to D^{*+}D_{s}^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $D^{*+} \to \pi^{0}D^{+}, D_{s}^{-} \to \mu^{-}\bar{\nu}_{\mu}\eta', \bar{D}^{0} \to \pi^{0}\pi^{+}\pi^{-}K_{S}, D^{+} \to \pi^{+}\pi^{+}K^{-}, \eta' \to \rho^{0}\gamma, K_{S} \to \pi^{+}\pi^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\Sigma^{0}\bar{\Xi}^{0}_{c}, \bar{B}^{0} \to D^{+}D_{s1}^{-}, \Sigma^{0} \to \Lambda\gamma, \bar{\Xi}^{0}_{c} \to \pi^{-}K^{+}\bar{\Sigma}^{0},$	162	162	1	163
164	$D^{+} \rightarrow \mu^{+} \nu_{\mu} \bar{K}^{*}, D_{s1}^{'-} \rightarrow \pi^{0} D_{s}^{*-}, \Lambda \rightarrow \pi^{-} p, \bar{\Sigma}^{0} \rightarrow \bar{\Lambda} \gamma, \bar{K}^{*} \rightarrow \pi^{+} K^{-}, D_{s}^{*-} \rightarrow D_{s}^{-} \gamma, \\ \bar{\Lambda} \rightarrow \pi^{+} \bar{p}, D_{s}^{-} \rightarrow \rho^{-} \eta', \rho^{-} \rightarrow \pi^{0} \pi^{-}, \eta' \rightarrow \pi^{+} \pi^{-} \eta, \eta \rightarrow \gamma \gamma \\ (e^{+} e^{-} \rightarrow \mu^{+} \nu_{\mu} \pi^{+} \pi^{+} \pi^{-} \pi^{-} \pi^{-} K^{+} K^{-} p \bar{p} \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$	163	163	1	164
165	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\eta\omega\bar{D}^{*0}, \bar{B}^{0} \to \pi^{0}\rho^{-}\omega\bar{D}^{*+}, \rho^{0} \to \pi^{+}\pi^{-}, \eta \to \pi^{0}\pi^{+}\pi^{-}, \psi \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, \rho^{-} \to \pi^{0}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \psi \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \psi \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \bar{D}^{0} \to \bar{D}^$	164	164	1	165
166	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}\bar{\Delta}^{-}\Delta^{0}, \bar{B}^{0} \to \rho^{-}D^{+}, \bar{D}^{*-} \to \pi^{0}D^{-}, \bar{\Delta}^{-} \to \pi^{+}\bar{n},$ $\Delta^{0} \to \pi^{0}n, \rho^{-} \to \pi^{0}\pi^{-}, D^{+} \to \mu^{+}\nu_{\mu}\pi^{+}K^{-}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{0}, K^{0} \to K_{L}$ $(e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{-}K^{-}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{-}p\bar{\Sigma}_{c}^{0}, \bar{B}^{0} \to \tau^{-}\bar{\nu}_{\tau}D^{*+}, \rho^{-} \to \pi^{0}\pi^{-}, \bar{\Sigma}_{c}^{0} \to \pi^{+}\bar{\Lambda}_{c}^{-},$	165	165	1	166
167	$\tau^{-} \to \nu_{\tau} \pi^{0} \pi^{-}, D^{*+} \to \pi^{+} D^{0}, \bar{\Lambda}_{c}^{-} \to \pi^{-} \eta \bar{\Lambda}, D^{0} \to K_{S} \phi, \eta \to e^{+} e^{-}, \bar{\Lambda} \to \pi^{0} \bar{n}, K_{S} \to \pi^{+} \pi^{-}, \phi \to K^{+} K^{-} \\ (e^{+} e^{-} \to e^{+} e^{-} \nu_{\tau} \bar{\nu}_{\tau} \pi^{+} \pi^{+} \pi^{+} \pi^{-} \pi^{-} \pi^{-} K^{+} K^{-} \bar{n} p \gamma \gamma \gamma \gamma \gamma)$	166	166	1	167
168	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \pi^{+}K^{*-}J/\psi, \bar{B}^{0} \to \bar{K}^{0}D^{*0}\bar{D}^{*0}, K^{*-} \to \pi^{-}\bar{K}^{0}, J/\psi \to K^{*}\bar{K}^{*}\gamma, \\ \bar{K}^{0} \to K_{L}, D^{*0} \to D^{0}\gamma, \bar{D}^{*0} \to \bar{D}^{0}\gamma, \bar{K}^{0} \to K_{L}, K^{*} \to \pi^{-}K^{+}, \bar{K}^{*} \to \pi^{+}K^{-}, \\ D^{0} \to \pi^{0}\pi^{+}K^{-}, \bar{D}^{0} \to \pi^{0}\pi^{+}\pi^{-}K^{*}, K^{*} \to \pi^{-}K^{+} \\ (e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	167	167	1	168
169	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, \bar{B}^{0} \to \pi^{-}K^{*+}D^{0}\bar{D}^{*0}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}\pi^{-}D^{*+}, K^{*+} \to \pi^{+}K^{0}, D^{0} \to K^{-}a_{1}^{+}, \\ \bar{D}^{*0} \to \pi^{0}\bar{D}^{0}, D^{*+} \to \pi^{+}D^{0}, K^{0} \to K_{S}, a_{1}^{+} \to \pi^{+}\pi^{+}\pi^{-}, \bar{D}^{0} \to \rho^{-}K^{*+}, D^{0} \to \pi^{+}K^{-}, \\ K_{S} \to \pi^{+}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-}, K^{*+} \to \pi^{0}K^{+} \\ (e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}X^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	168	168	1	169
170	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \mu^{+}\nu_{\mu}D^{-}, B^{0} \to \pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\eta K^{+}K^{+}D_{s}^{*-}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{0}, \eta \to \pi^{0}\pi^{+}\pi^{-}, D_{s}^{*-} \to D_{s}^{*-}\gamma, K^{0} \to K_{L}, D_{s}^{-} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-} (e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \pi^{0}\bar{K}^{0}D^{-}\Delta^{0}\bar{\Sigma}^{+}, B^{0} \to \pi^{0}\pi^{+}\pi^{+}\pi^{-}\rho^{-}\bar{D}^{0}, \bar{K}^{0} \to K_{L}, D^{-} \to \pi^{0}\pi^{-}K_{S},$	169	169	1	170
171	$\Delta^0 \to \pi^0 n, \bar{\Sigma}^+ \to \pi^+ \bar{n}, \rho^- \to \pi^0 \pi^-, \bar{D}^0 \to \pi^- \rho^+, K_S \to \pi^0 \pi^0, \rho^+ \to \pi^0 \pi^+ \\ (e^+ e^- \to K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- n \bar{n} \gamma \gamma$	170	170	1	171
172	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{+}\rho^{-}\rho^{-}\omega D^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \rho^{-} \to \pi^{0}\pi^{-}, \\ \rho^{-} \to \pi^{0}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{*+} \to \pi^{0}D^{+}, \bar{D}^{0} \to \pi^{0}\pi^{+}\pi^{-}K_{S}, D^{+} \to K_{S}K^{*+}, K_{S} \to \pi^{+}\pi^{-}, \\ K_{S} \to \pi^{0}\pi^{0}, K^{*+} \to \pi^{0}K^{+} \\ (e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	171	171	1	172

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
173	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}D_{s}^{'+}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{+}K^{-}D^{-}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D_{s}^{'+} \to \pi^{0}D_{s}^{*+}, \\ D^{-} \to K_{S}K^{*-}, \bar{D}^{0} \to \omega K_{S}, D_{s}^{*+} \to D_{s}^{+}\gamma, K_{S} \to \pi^{0}\pi^{0}, K^{*-} \to \pi^{-}\bar{K}^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \\ K_{S} \to \pi^{+}\pi^{-}, D_{s}^{+} \to \rho^{+}\phi, \bar{K}^{0} \to K_{S}, \rho^{+} \to \pi^{0}\pi^{+}, \phi \to K^{+}K^{-}, K_{S} \to \pi^{0}\pi^{0}, \\ (e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	172	172	1	173
174	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to K^{*}D^{-}D^{*+}, \bar{B}^{0} \to \rho^{0}\rho^{-}\eta D^{*+}, K^{*} \to \pi^{-}K^{+}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}K^{0},$ $D^{*+} \to \pi^{+}D^{0}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{-} \to \pi^{0}\pi^{-}, \eta \to \pi^{0}\pi^{+}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, K^{0} \to K_{S},$ $D^{0} \to K^{-}a_{1}^{+}, D^{0} \to \pi^{0}\rho^{+}K^{-}, K_{S} \to \pi^{+}\pi^{-}, a_{1}^{+} \to \pi^{0}\rho^{+}, \rho^{+} \to \pi^{0}\pi^{+}, \rho^{+} \to \pi^{0}\pi^{+}$ $(e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	173	173	1	174
175	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \rho^{-}\omega D^{+}\gamma, \bar{B}^{0} \to \pi^{0}\pi^{0}\pi^{+}K^{0}K^{0}K^{-}K^{-}D^{*+}, \rho^{-} \to \pi^{0}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, D^{+} \to \pi^{0}\pi^{+}\bar{K}^{*}, K^{0} \to K_{L}, K^{0} \to K_{L}, D^{*+} \to \pi^{+}D^{0}, \bar{K}^{*} \to \pi^{+}K^{-}, D^{0} \to \pi^{+}\pi^{+}\pi^{-}\pi^{-} (e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	174	174	1	175
176	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \tau^{+}\nu_{\tau}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\bar{n}\Sigma_{c}^{0}, \tau^{+} \to \bar{\nu}_{\tau}\pi^{0}\pi^{0}\pi^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $\Sigma_{c}^{0} \to \pi^{-}\Lambda_{c}^{+}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \Lambda_{c}^{+} \to \pi^{0}\pi^{+}K^{-}p$ $(e^{+}e^{-} \to \nu_{\tau}\bar{\nu}_{\tau}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	175	175	1	176
177	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{-}D^{-}\bar{\Delta}^{0}\Delta^{++}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D^{*+}, \rho^{-} \to \pi^{0}\pi^{-}, D^{-} \to K_{L}K_{L}K^{-},$ $\bar{\Delta}^{0} \to \pi^{0}\bar{n}, \Delta^{++} \to \pi^{+}p, D^{*+} \to \pi^{0}D^{+}, D^{+} \to K_{L}\pi^{+}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}K_{L}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{-}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma)$	176	176	1	177
178	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}D^{-}\bar{n}p, \bar{B}^{0} \to \pi^{0}\pi^{0}\pi^{0}\pi^{+}K^{*-}\bar{D}^{*0}, D^{-} \to K_{L}a_{1}^{-}, K^{*-} \to \pi^{0}K^{-},$ $\bar{D}^{*0} \to \bar{D}^{0}\gamma, a_{1}^{-} \to \pi^{0}\rho^{-}, \bar{D}^{0} \to K_{L}K^{+}K^{-}, \rho^{-} \to \pi^{0}\pi^{-}, K_{L} \to \pi^{0}\pi^{0}\pi^{0}$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{-}K^{+}K^{-}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	177	177	1	178
179	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^{0}\bar{B}^{0}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, \bar{B}^{0} \to D^{+}\Delta^{-}\bar{n}, D^{*+} \to \pi^{0}D^{+}, D^{+} \to \pi^{+}\pi^{+}K^{-},$ $\Delta^{-} \to \pi^{-}n, D^{+} \to e^{+}\nu_{e}\bar{K}^{*}, \bar{K}^{*} \to \pi^{+}K^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{-}K^{-}K^{-}n\bar{n}\gamma\gamma)$	178	178	1	179
180	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, \bar{B}^{0} \to \pi^{0}\pi^{+}D^{0}D_{s}^{*-}, \bar{D}^{*-} \to \pi^{0}D^{-}, D^{0} \to e^{+}\nu_{e}K^{*-},$ $D_{s}^{*-} \to D_{s}^{-}\gamma, D^{-} \to \pi^{0}\pi^{-}K_{S}, K^{*-} \to \pi^{-}\bar{K}^{0}, D_{s}^{-} \to \pi^{-}\eta, K_{S} \to \pi^{+}\pi^{-}, \bar{K}^{0} \to K_{S},$ $\eta \to \gamma\gamma, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}X_{u}^{-}, \bar{B}^{0} \to \bar{K}^{*}\bar{\Lambda}\Xi_{c}^{*0}, X_{u}^{-} \to \pi^{0}\rho^{-}, \bar{K}^{*} \to \pi^{+}K^{-},$	179	179	1	180
181	$\begin{array}{c} \Lambda \rightarrow \pi^{+}\bar{p}, \Xi_{c}^{*0} \rightarrow \Xi_{c}^{0}\gamma, \rho^{-} \rightarrow \pi^{0}\pi^{-}, \Xi_{c}^{0} \rightarrow \pi^{+}K^{*-}\Sigma^{0}, K^{*-} \rightarrow \pi^{-}K^{0}, \Sigma^{0} \rightarrow \Lambda\gamma, \\ \bar{K}^{0} \rightarrow K_{S}, \Lambda \rightarrow \pi^{-}p, K_{S} \rightarrow \pi^{+}\pi^{-} \\ (e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}p\bar{p}\gamma\gamma\gamma\gamma\gamma) \end{array}$	180	180	1	181
182	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\rho^{0}\pi^{+}\omega\bar{D}^{*-}, \bar{B}^{0} \to \pi^{+}\pi^{-}\rho^{-}D^{+}, \rho^{0} \to \pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{-}, \omega \to \pi^{0}\pi^{-}$	181	181	1	182
183	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to \bar{B}^0\bar{B}^0, \bar{B}^0 \to D^{*+}D'_{s1}, \bar{B}^0 \to \pi^-\eta D^{*+}, D^{*+} \to \pi^0D^+, D'_{s1} \to \pi^0D^{*-}_s, \\ \eta \to \pi^0\pi^0\pi^0, D^{*+} \to \pi^+D^0, D^+ \to e^+\nu_e\bar{K}^*, D^{*-}_s \to D^s\gamma, D^0 \to K_L\pi^+\pi^-, \bar{K}^* \to \pi^+K^-, \\ D^s \to K^*K^-, K^* \to \pi^0K^0, K^0 \to K_S, K_S \to \pi^+\pi^- \\ (e^+e^- \to e^+\nu_eK_L\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	182	182	1	183

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
184	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{1}^{\prime-}, \bar{B}^{0} \to \pi^{0}\pi^{+}\pi^{-}\rho^{-}D^{*+}, D_{1}^{\prime-} \to \pi^{0}\bar{D}^{*-}, \rho^{-} \to \pi^{0}\pi^{-},$ $D^{*+} \to \pi^{+}D^{0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D^{0} \to K_{S}\eta', \bar{D}^{0} \to \pi^{-}K^{+}, K_{S} \to \pi^{0}\pi^{0}, \eta' \to \pi^{0}\pi^{0}\eta,$ $\eta \to \gamma\gamma$ $(e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, B^{0} \to \pi^{0}\omega D^{-}\bar{\Delta}^{-}\Delta^{0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-},$	183	183	1	184
185	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, B^{0} \to \pi^{0}\omega D^{-}\bar{\Delta}^{-}\Delta^{0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \omega \to \pi^{0}\pi^{+}\pi^{-},$ $D^{-} \to e^{-}\bar{\nu}_{e}K^{0}, \bar{\Delta}^{-} \to \pi^{+}\bar{n}, \Delta^{0} \to \pi^{0}n, \bar{D}^{0} \to \pi^{0}K_{S}, K^{0} \to K_{S}, K_{S} \to \pi^{0}\pi^{0},$ $K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$ $e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}\bar{D}^{*-}, \bar{B}^{0} \to \omega\bar{K}^{0}K^{*}\bar{K}^{*}, \bar{D}^{*-} \to \pi^{0}D^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-},$	184	184	1	185
186	$ar{K}^0 o K_L, K^* o \pi^- K^+, ar{K}^* o \pi^0 ar{K}^0, D^- o \pi^0 \pi^- K^*, ar{K}^0 o K_L, K^* o \pi^- K^+ \ (e^+ e^- o e^+ u_e K_L K_L \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^+ \gamma \gamma \gamma \gamma \gamma \gamma \gamma)$	185	185	1	186
187	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \mu^{+}\nu_{\mu}D_{2}^{*-}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, D_{2}^{*-} \to \pi^{-}\bar{D}^{*0}, D^{*+} \to \pi^{0}D^{+},$ $\bar{D}^{*0} \to \bar{D}^{0}\gamma, D^{+} \to \mu^{+}\nu_{\mu}\bar{K}^{0}, \bar{D}^{0} \to \rho^{-}K^{*+}, \bar{K}^{0} \to K_{L}, \rho^{-} \to \pi^{0}\pi^{-}, K^{*+} \to \pi^{+}K^{0},$ $K^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to \mu^{+}\mu^{+}\mu^{-}\nu_{\mu}\nu_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma)$	186	186	1	187
188	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{-}\rho^{+}\rho^{-}\bar{D}^{0}, \bar{B}^{0} \to \mu^{-}\bar{\nu}_{\mu}D^{*+}, \rho^{+} \to \pi^{0}\pi^{+}, \rho^{-} \to \pi^{0}\pi^{-},$ $\bar{D}^{0} \to K^{+}a_{1}^{-}, D^{*+} \to \pi^{+}D^{0}, a_{1}^{-} \to \rho^{0}\pi^{-}, D^{0} \to e^{+}\nu_{e}\pi^{0}K^{-}, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	187	187	1	188
189	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \bar{D}^{*-}D_{s1}^{'+}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}D_{2}^{*+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, D_{s1}^{'+} \to \pi^{0}D_{s}^{*+},$ $D_{2}^{*+} \to \pi^{+}D^{*0}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, D_{s}^{*+} \to D_{s}^{+}\gamma, D^{*0} \to \pi^{0}D^{0}, D_{s}^{+} \to \bar{K}^{*}K^{*+}, D^{0} \to K_{L}\eta',$ $\bar{K}^{*} \to \pi^{+}K^{-}, K^{*+} \to \pi^{+}K^{0}, \eta' \to \pi^{+}\pi^{-}\eta, K^{0} \to K_{L}, \eta \to \gamma\gamma$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	188	188	1	189
190	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow \rho^{+}\eta\eta\bar{D}^{*-}, \bar{B}^{0} \rightarrow \pi^{0}\pi^{+}\eta K^{*-}, \rho^{+} \rightarrow \pi^{0}\pi^{+}, \eta \rightarrow \pi^{0}\pi^{0}\pi^{0}, $ $\eta \rightarrow \pi^{0}\pi^{0}\pi^{0}, \bar{D}^{*-} \rightarrow \pi^{-}\bar{D}^{0}, \eta \rightarrow \pi^{0}\pi^{0}\pi^{0}, K^{*-} \rightarrow \pi^{0}K^{-}, \bar{D}^{0} \rightarrow \pi^{+}\pi^{-}K^{*}, K^{*} \rightarrow \pi^{0}K^{0}, $ $K^{0} \rightarrow K_{L}$ $(e^{+}e^{-} \rightarrow K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}\gamma$	189	189	1	190
191	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\Delta^{+}\bar{\Sigma}_{c}^{*}, \bar{B}^{0} \to \rho^{0}\pi^{-}\pi^{-}\rho^{+}\bar{K}^{*}D^{*+}, \Delta^{+} \to \pi^{0}p, \bar{\Sigma}_{c}^{*} \to \pi^{-}\bar{\Lambda}_{c}^{-},$ $\rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+}, \bar{K}^{*} \to \pi^{0}\bar{K}^{0}, D^{*+} \to \pi^{+}D^{0}, \bar{\Lambda}_{c}^{-} \to K^{+}\bar{\Delta}^{++}, \bar{K}^{0} \to K_{L},$ $D^{0} \to e^{+}\nu_{e}\pi^{-}\bar{K}^{0}, \bar{\Delta}^{++} \to \pi^{-}\bar{p}, \bar{K}^{0} \to K_{S}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma)$	190	190	1	191
192	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}D^{-}, \bar{B}^{0} \to \rho^{0}\rho^{-}D^{*+}, D^{-} \to e^{-}\bar{\nu}_{e}K^{0}, \rho^{0} \to \pi^{+}\pi^{-},$ $\rho^{-} \to \pi^{0}\pi^{-}, D^{*+} \to \pi^{+}D^{0}, K^{0} \to K_{L}, D^{0} \to \pi^{+}\eta K^{-}, \eta \to \pi^{0}\pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{+}e^{-}\nu_{e}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	191	191	1	192
193	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{+}\bar{D}^{*-}, \bar{B}^{0} \to \rho^{0}\pi^{-}K^{0}\bar{K}^{*}D^{+}, \rho^{+} \to \pi^{0}\pi^{+}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0},$ $\rho^{0} \to \pi^{+}\pi^{-}, K^{0} \to K_{S}, \bar{K}^{*} \to \pi^{+}K^{-}, D^{+} \to K_{L}a_{1}^{+}, \bar{D}^{0} \to \pi^{0}K_{L}\eta, K_{S} \to \pi^{+}\pi^{-},$ $a_{1}^{+} \to \rho^{0}\pi^{+}, \eta \to \pi^{0}\pi^{+}\pi^{-}, \rho^{0} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma)$	192	192	1	193

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
194	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to e^{+}\nu_{e}D^{-}, \bar{B}^{0} \to K^{*-}D^{*+}\bar{D}^{0}, D^{-} \to K^{*}K^{-}, K^{*-} \to \pi^{-}\bar{K}^{0},$ $D^{*+} \to \pi^{+}D^{0}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, K^{*} \to \pi^{-}K^{+}, \bar{K}^{0} \to K_{L}, D^{0} \to \pi^{+}\pi^{-}, K_{L} \to \pi^{0}\pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	193	193	1	194
195	$e^{+}e^{-} \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^{0}\bar{B}^{0}, B^{0} \rightarrow J/\psi K_{1}^{0}, \bar{B}^{0} \rightarrow \pi^{0}D^{+}D_{s}^{*-}, J/\psi \rightarrow \pi^{0}\eta\eta, K_{1}^{0} \rightarrow \pi^{+}\pi^{-}K^{0},$ $D^{+} \rightarrow e^{+}\nu_{e}\bar{K}^{0}, D_{s}^{*-} \rightarrow D_{s}^{-}\gamma, \eta \rightarrow \gamma\gamma, \eta \rightarrow \gamma\gamma, K^{0} \rightarrow K_{S}, \bar{K}^{0} \rightarrow K_{S},$ $D_{s}^{-} \rightarrow \rho^{-}\eta, K_{S} \rightarrow \pi^{0}\pi^{0}, K_{S} \rightarrow \pi^{+}\pi^{-}, \rho^{-} \rightarrow \pi^{0}\pi^{-}, \eta \rightarrow \pi^{0}\pi^{0}\pi^{0}$ $(e^{+}e^{-} \rightarrow e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	194	194	1	195
196	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to K^{*}D^{+}D^{-}, B^{0} \to \bar{D}^{*-}\bar{\Delta}^{-}\Delta^{0}, K^{*} \to \pi^{0}K^{0}, D^{+} \to \pi^{+}\bar{K}_{1}^{'0},$ $D^{-} \to e^{-}\bar{\nu}_{e}K_{2}^{*0}, \bar{D}^{*-} \to \pi^{-}\bar{D}^{0}, \bar{\Delta}^{-} \to \pi^{+}\bar{n}, \Delta^{0} \to \pi^{0}n, K^{0} \to K_{L}, \bar{K}_{1}^{'0} \to \pi^{+}K^{*-},$ $K_{2}^{*0} \to \pi^{0}K^{0}, \bar{D}^{0} \to e^{-}\bar{\nu}_{e}\pi^{+}K^{0}, K^{*-} \to \pi^{0}K^{-}, K^{0} \to K_{S}, K^{0} \to K_{L}, K_{S} \to \pi^{+}\pi^{-}$ $(e^{+}e^{-} \to e^{-}e^{-}\bar{\nu}_{e}\bar{\nu}_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{-}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	195	195	1	196
197	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{0}\pi^{-}\eta\bar{D}^{*0}D_{s}^{*+}, \bar{B}^{0} \to D^{*0}\Delta^{0}\Delta^{0}, \eta \to \gamma\gamma, \bar{D}^{*0} \to \bar{D}^{0}\gamma,$ $D_{s}^{*+} \to D_{s}^{+}\gamma, D^{*0} \to \pi^{0}D^{0}, \Delta^{0} \to \pi^{0}n, \bar{\Delta}^{0} \to \pi^{0}\bar{n}, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, D_{s}^{+} \to \mu^{+}\nu_{\mu},$ $D^{0} \to e^{+}\nu_{e}\pi^{-}\bar{K}^{0}, \pi^{0} \to e^{+}e^{-}, \bar{K}^{0} \to K_{S}, K_{S} \to \pi^{0}\pi^{0}$ $(e^{+}e^{-} \to e^{+}e^{+}e^{-}\nu_{e}\mu^{+}\nu_{\mu}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	196	196	1	197
198	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \rho^{0}\pi^{+}\omega\bar{D}^{*-}, \bar{B}^{0} \to D^{0}n\bar{n}, \rho^{0} \to \pi^{+}\pi^{-}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{0} \to \pi^{-}\bar{D}^{0}, D^{0} \to K_{L}\eta, \bar{D}^{0} \to \pi^{0}\pi^{-}K^{+}, \eta \to \gamma\gamma$ $(e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma)$	197	197	1	198
199	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}B^{0}, B^{0} \to \mu^{+}\nu_{\mu}\bar{D}^{*-}, B^{0} \to \rho^{0}\pi^{+}\pi^{-}\rho^{+}\omega\bar{D}^{*-}, \bar{D}^{*-} \to \pi^{0}D^{-}, \rho^{0} \to \pi^{+}\pi^{-}, \rho^{+} \to \pi^{0}\pi^{+}, \omega \to \pi^{0}\pi^{+}\pi^{-}, \bar{D}^{*-} \to \pi^{0}D^{-}, D^{-} \to e^{-}\bar{\nu}_{e}\pi^{-}K^{+}, D^{-} \to \pi^{0}\pi^{-}K^{*}, K^{*} \to \pi^{-}K^{+}$ $(e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma)$	198	198	1	199
200	$e^{+}e^{-} \to \Upsilon(4S), \Upsilon(4S) \to B^{0}\bar{B}^{0}, B^{0} \to \pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}D^{-}, \bar{B}^{0} \to e^{-}\bar{\nu}_{e}\pi^{+}D^{0}, D^{-} \to \mu^{-}\bar{\nu}_{\mu}K_{1}^{0}, D^{0} \to \pi^{+}\pi^{-}K_{S}, K_{S} \to \pi^{+}\pi^{-}, K^{0} \to K_{S}, K_{S} \to K_{S}$	199	199	1	200

Table 2: Event initial-final states.

	Table 2: Event initial-final states.			
index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
1	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma$	0	1	1
2	$e^{+}e^{-} \to e^{+}e^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma$	1	1	2
3	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma$	2	1	3
4	$e^{+}e^{-} \rightarrow e^{+}e^{+}e^{-}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma$	3	1	4
5	$e^+e^- \to e^+\nu_e K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$	4	1	5
6	$e^{+}e^{-} \rightarrow e^{+}e^{+}\nu_{e}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma$	5	1	6
7	$e^{+}e^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma$	6	1	7
8	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma$	7	1	8
9	$e^+e^- \to \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \gamma \gamma$	8	1	9
10	$e^+e^- \to \mu^+\nu_\mu K_L\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^+K^-\gamma$	9	1	10
11	$e^+e^- \rightarrow \mu^+\mu^+\nu_\mu\nu_\mu K_L K_L \pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma$	10	1	11
12	$e^+e^- \to e^+e^-\mu^-\bar{\nu}_\mu\nu_\tau\bar{\nu}_\tau\pi^+\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	11	1	12
13	$e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma$	12	1	13
14	$e^+e^- o \mu^- ar{ u}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma \gamma$	13	1	14
15	$e^+e^- \to \pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	14	1	15
16	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma$	15	1	16
17	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	16	1	17
18	$e^+e^- \to \mu^+\nu_\mu K_L K_L \pi^+\pi^+\pi^-\pi^-\pi^- K^+ K^+ K^- K^- \gamma \gamma$	17	1	18
19	$e^+e^- \to e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^- \gamma \gamma$	18	1	19
20	$e^+e^- \to \mu^+\nu_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	19	1	20
21	$e^+e^- \to \mu^-\bar{\nu}_\mu K_L K_L \pi^+ K^+ K^- \gamma \gamma \gamma \gamma \gamma \gamma$	20	1	21
22	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}f_{0}(600)\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	21	1	22
23	$e^+e^- \to \pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^-\gamma$	22	1	23
24	$e^+e^- \rightarrow K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^+ \gamma \gamma \gamma \gamma \gamma \gamma \gamma$	23	1	24
25	$e^{+}e^{-} \rightarrow e^{+}e^{+}e^{-}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	24	1	25
26	$e^{+}e^{-} \to e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	25	1	26
27	$e^{+}e^{-} \to e^{+}\nu_{e}\mu^{+}\nu_{\mu}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma\gamma$	26	1	27
28	$e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma$	27	1	28
29	$e^+e^- \to e^+\nu_e\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma$	28	1	29
30	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \gamma \gamma$	29	1	30
31	$e^+e^- \to \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma$	30	1	31
32	$e^{+}e^{-} \to e^{+}e^{+}e^{-}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$	31	1	32
33	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	32	1	33
34	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \bar{\nu}_\tau \bar{\nu}_\tau K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^+ \gamma \gamma$	33	1	34
35	$e^{+}e^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{-}K^{+}K^{-}K^{-}\bar{n}p\gamma\gamma\gamma\gamma\gamma\gamma$	34	1	35
36	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}n\bar{p}\gamma\gamma$	35	1	36
37	$e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma$	36	1	37
38	$e^{+}e^{-} \rightarrow K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	37	1	38
39	$e^+e^- \to e^+\nu_e\mu^+\nu_\mu K_L\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	38	1	39
40	$e^{+}e^{-} \rightarrow \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	39	1	40

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
41	$e^+e^- \to \mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+K^+K^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	40	1	41
42	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma$	41	1	42
43	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^-K^-n\bar{p}\gamma$	42	1	43
44	$e^+e^- \to e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma$	43	1	44
45	$e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$	44	1	45
46	$e^{+}e^{-} \rightarrow e^{+}e^{-}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma$	45	1	46
47	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma$	46	1	47
48	$e^{+}e^{-} \to \mu^{-}\mu^{-}\bar{\nu}_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma$	47	1	48
49	$e^+e^- \to e^+\nu_e\mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	48	1	49
50	$e^+e^- \to e^+e^-\mu^-\bar{\nu}_\mu K_L \pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-\gamma$	49	1	50
51	$e^+e^- \to e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+f_0(600)\gamma\gamma$	50	1	51
52	$e^+e^- \rightarrow e^-\bar{\nu}_e K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^- \gamma \gamma \gamma \gamma \gamma \gamma$	51	1	52
53	$e^+e^- \rightarrow e^+\nu_e K_L \pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	52	1	53
54	$e^{+}e^{-} \rightarrow \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma$	53	1	54
55	$e^+e^- \to \pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	54	1	55
56	$e^+e^- \to \mu^+\mu^-\nu_\mu\nu_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-K^-n\bar{p}\gamma$	55	1	56
57	$e^+e^- \to e^+\nu_e K_L \pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\bar{n}p\gamma$	56	1	57
58	$e^+e^- \to \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\gamma$	57	1	58
59	$e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}n\bar{p}\gamma$	58	1	59
60	$e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$	59	1	60
61	$e^+e^- \to e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^- \gamma \gamma$	60	1	61
62	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}f_{0}(600)\gamma\gamma\gamma\gamma$	61	1	62
63	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}p\bar{p}\gamma\gamma\gamma\gamma$	62	1	63
64	$e^+e^- \to e^+\nu_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma$	63	1	64
65	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	64	1	65
66	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}p\bar{p}\gamma$	65	1	66
67	$e^+e^- \to \mu^+\nu_\mu\nu_\tau\bar{\nu}_\tau\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma$	66	1	67
68	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$	67	1	68
69	$e^+e^- \to e^-\bar{\nu}_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-\gamma\gamma\gamma\gamma\gamma\gamma$	68	1	69
70	$e^+e^- \rightarrow e^+\nu_e\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma$	69	1	70
71	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma$	70	1	71
72	$e^+e^- \to e^-e^-\bar{\nu}_e\bar{\nu}_e\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	71	1	72
73	$e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^+K^-n\bar{p}\gamma\gamma\gamma\gamma$	72	1	73
74	$e^{+}e^{-} \rightarrow e^{+}e^{-}\nu_{e}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}\bar{n}pf_{0}(600)\gamma\gamma$	73	1	74
75	$e^+e^- \to \mu^+\nu_\mu K_L K_L \pi^+\pi^+\pi^+\pi^-\pi^- K^+ K^- K^- K^- \gamma \gamma$	74	1	75
76	$e^{+}e^{-} \to \mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}K^{-}\gamma$	75	1	76
77	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^- \gamma \gamma$	76	1	77
78	$e^+e^- \to e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K_S\gamma$	77	1	78
79	$e^{+}e^{-} \rightarrow e^{+}e^{+}e^{-}\nu_{e}\nu_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma$	78	1	79
80	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	79	1	80

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81	$e^+e^- \to \mu^+\nu_\mu\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma$	80	1	81
82	$e^{+}e^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma$	81	1	82
83	$e^+e^- \to \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^- \gamma \gamma$	82	1	83
84	$e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	83	1	84
85	$e^{+}e^{-} \to e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma$	84	1	85
86	$e^+e^- \to e^-e^-\bar{\nu}_e\bar{\nu}_e\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^+K^-\bar{n}p\gamma$	85	1	86
87	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}\gamma\gamma\gamma\gamma$	86	1	87
88	$e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma$	87	1	88
89	$e^{+}e^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}p\bar{p}\gamma\gamma$	88	1	89
90	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^-\pi^-\pi^-\pi^-K^+\bar{n}pf_0(600)\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	89	1	90
91	$e^+e^- \rightarrow \mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma$	90	1	91
92	$e^+e^- \rightarrow e^+e^+e^-e^-\pi^+\pi^+\pi^-K^+K^-n\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	91	1	92
93	$e^{+}e^{-} \to \mu^{+}\mu^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}f_{0}(600)\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	92	1	93
94	$e^{+}e^{-} \rightarrow K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}f_{0}(600)\gamma\gamma$	93	1	94
95	$e^{+}e^{-} \rightarrow e^{+}e^{-}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma$	94	1	95
96	$e^{+}e^{-} \rightarrow e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}f_{0}(600)\gamma\gamma$	95	1	96
97	$e^+e^- \to K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ n \bar{p} \gamma \gamma \gamma \gamma \gamma$	96	1	97
98	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma$	97	1	98
99	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma$	98	1	99
100	$e^+e^- \to \pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-K^-\gamma$	99	1	100
101	$e^+e^- \rightarrow e^+e^+e^-\nu_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	100	1	101
102	$e^+e^- ightarrow e^-ar{ u}_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	101	1	102
103	$e^+e^- \to \pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma$	102	1	103
104	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^-\gamma$	103	1	104
105	$e^+e^- \to e^-\bar{\nu}_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma$	104	1	105
106	$e^+e^- \to e^-\bar{\nu}_e K_L \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma$	105	1	106
107	$e^{+}e^{-} \rightarrow e^{+}e^{-}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma$	106	1	107
108	$e^+e^- \rightarrow e^+e^-\mu^-\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	107	1	108
109	$e^+e^- o \mu^-ar{ u}_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma$	108	1	109
110	$e^+e^- \to K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^- p \bar{p} \gamma \gamma$	109	1	110
111	$e^+e^- o \mu^-ar{ u}_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-par{p}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	110	1	111
112	$e^+e^- \rightarrow e^+\nu_e\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-\gamma$	111	1	112
113	$e^+e^- \rightarrow e^+\nu_e\pi^+\pi^+\pi^-\pi^-\pi^-K^+n\bar{n}\gamma\gamma\gamma\gamma\gamma$	112	1	113
114	$e^+e^- \to K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^- K^- \gamma \gamma$	113	1	114
115	$e^+e^- \rightarrow e^- \bar{\nu}_e K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^- \gamma \gamma \gamma \gamma \gamma \gamma \gamma$	114	1	115
116	$e^+e^- \to \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^- \gamma \gamma$	115	1	116
117	$e^+e^- \rightarrow e^+\nu_e K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^- \gamma \gamma$	116	1	117
118	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma$	117	1	118
119	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ \gamma \gamma$	118	1	119
120	$e^{+}e^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma\gamma$	119	1	120

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
121	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^-K^-\gamma\gamma\gamma\gamma$	120	1	121
122	$e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma$	121	1	122
123	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-K^+K^-\gamma\gamma\gamma\gamma$	122	1	123
124	$e^+e^- \to e^- \bar{\nu}_e \nu_\tau \bar{\nu}_\tau K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \gamma \gamma$	123	1	124
125	$e^+e^- \to e^+e^-\mu^-\bar{\nu}_{\mu}K_LK_L\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	124	1	125
126	$e^+e^- \to e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	125	1	126
127	$e^+e^- \to e^+e^-\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	126	1	127
128	$e^{+}e^{-} \to e^{+}e^{-}e^{-}\nu_{e}\bar{\nu}_{e}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma$	127	1	128
129	$e^{+}e^{-} \rightarrow e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\nu_{\tau}\bar{\nu}_{\tau}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma\gamma\gamma\gamma$	128	1	129
130	$e^+e^- \rightarrow e^+e^-e^-\nu_e\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	129	1	130
131	$e^+e^- \to K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma$	130	1	131
132	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{-}K^{-}\gamma\gamma\gamma\gamma$	131	1	132
133	$e^{+}e^{-} \rightarrow e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{+}K^{-}\gamma\gamma\gamma$	132	1	133
134	$e^{+}e^{-} \rightarrow \nu_{\tau}\bar{\nu}_{\tau}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\gamma$	133	1	134
135	$e^+e^- \to \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma$	134	1	135
136	$e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}f_{0}(600)\gamma\gamma\gamma\gamma\gamma$	135	1	136
137	$e^{+}e^{-} \to e^{+}e^{-}K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	136	1	137
138	$e^+e^- \to \pi^+\pi^+\pi^-\pi^- K^+K^- n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	137	1	138
139	$e^+e^- \to e^+\nu_e K_L \pi^+\pi^+\pi^-\pi^-K^+K^-p\bar{p}\gamma\gamma\gamma\gamma$	138	1	139
140	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^+ \gamma \gamma$	139	1	140
141	$e^+e^- \to e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma$	140	1	141
142	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^+K^-K^-K^-\gamma$	141	1	142
143	$e^{+}e^{-} \rightarrow \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}K^{-}n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	142	1	143
144	$e^+e^- \to \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^- K^+ K^- K^- \gamma \gamma$	143	1	144
145	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	144	1	145
146	$e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	145	1	146
147	$e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma$	146	1	147
148	$e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	147	1	148
149	$e^+e^- \to \pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	148	1	149
150	$e^{+}e^{-} \to \mu^{+}\nu_{\mu}\nu_{\tau}\bar{\nu}_{\tau}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	149	1	150
151	$e^{+}e^{-} \rightarrow e^{+}e^{-}\nu_{e}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{-}\pi^{-}K^{+}K^{-}\gamma\gamma$	150	1	151
152	$e^{+}e^{-} \rightarrow e^{-}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{p}\gamma$	151	1	152
153	$e^+e^- ightarrow e^-ar{ u}_e\mu^- u_\mu\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	152	1	153
154	$e^{+}e^{-} \rightarrow \pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}K^{-}\gamma$	153	1	154
155	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$	154	1	155
156	$e^+e^- \to \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	155	1	156
157	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	156	1	157
158	$e^{+}e^{-} \to \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-$	157	1	158
159	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}f_{0}(600)\gamma\gamma\gamma\gamma\gamma\gamma$	158	1	159
160	$e^+e^- \to e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	159	1	160

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
161	$e^+e^- \to K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^- f_0(600) \gamma \gamma$	160	1	161
162	$e^+e^- \to \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-K^-K^-\gamma$	161	1	162
163	$e^{+}e^{-} \rightarrow \mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	162	1	163
164	$e^{+}e^{-} \rightarrow \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}p\bar{p}\gamma$	163	1	164
165	$e^+e^- \to e^+\nu_e\pi^+\pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	164	1	165
166	$e^+e^- \to \mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-K^-n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma$	165	1	166
167	$e^+e^- \rightarrow e^+e^-\nu_{\tau}\bar{\nu}_{\tau}\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-\bar{n}p\gamma\gamma\gamma\gamma\gamma$	166	1	167
168	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^- K^- \gamma \gamma$	167	1	168
169	$e^{+}e^{-} \to \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma$	168	1	169
170	$e^{+}e^{-} \to \mu^{+}\mu^{-}\nu_{\mu}\bar{\nu}_{\mu}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{+}\gamma\gamma\gamma\gamma\gamma$	169	1	170
171	$e^{+}e^{-} \to K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{\bar{n}}\bar{n}\gamma$	170	1	171
172	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\pi^-K^+\gamma$	171	1	172
173	$e^{+}e^{-} \rightarrow \pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}K^{-}\gamma$	172	1	173
174	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^- K^- \gamma \gamma$	173	1	174
175	$e^+e^- \to K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^- K^- K^- \gamma \gamma$	174	1	175
176	$e^+e^- \to \nu_{\tau}\bar{\nu}_{\tau}\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\bar{n}p\gamma$	175	1	176
177	$e^+e^- \rightarrow e^- \bar{\nu}_e K_L K_L K_L \pi^+ \pi^+ \pi^- K^- \bar{n} p \gamma \gamma \gamma \gamma \gamma \gamma$	176	1	177
178	$e^+e^- \to K_L \pi^+ \pi^- K^+ K^- K^- \bar{n} p \gamma $	177	1	178
179	$e^{+}e^{-} \rightarrow e^{+}\nu_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{-}K^{-}K^{-}n\bar{n}\gamma\gamma$	178	1	179
180	$e^+e^- \to e^+\nu_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	179	1	180
181	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma$	180	1	181
182	$e^{+}e^{-} \to \mu^{+}\nu_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}K^{-}\gamma$	181	1	182
183	$e^+e^- \rightarrow e^+\nu_e K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^- K^- \gamma \gamma$	182	1	183
184	$e^+e^- \to \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+\gamma$	183	1	184
185	$e^+e^- \to e^- \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- n \bar{n} \gamma \gamma$	184	1	185
186	$e^+e^- \to e^+\nu_e K_L K_L \pi^+\pi^-\pi^-\pi^-\pi^-K^+K^+\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	185	1	186
187	$e^+e^- \to \mu^+\mu^+\mu^-\nu_\mu\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\pi^-\gamma\gamma\gamma\gamma\gamma$	186	1	187
188	$e^+e^- \to e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma$	187	1	188
189	$e^+e^- \rightarrow e^- \bar{\nu}_e K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$	188	1	189
190	$e^+e^- \to K_L \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma$	189	1	190
191	$e^{+}e^{-} \to e^{+}\nu_{e}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{+}p\bar{p}\gamma\gamma\gamma\gamma\gamma\gamma$	190	1	191
192	$e^+e^- \to e^+e^-\nu_e\bar{\nu}_eK_L\pi^+\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	191	1	192
193	$e^{+}e^{-} \to K_{L}K_{L}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}\pi^{-}K^{-}\gamma\gamma\gamma\gamma\gamma\gamma$	192	1	193
194	$e^+e^- \to e^+\nu_e\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^+K^-\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	193	1	194
195	$e^{+}e^{-} \to e^{+}\nu_{e}\pi^{+}\pi^{+}\pi^{-}\pi^{-}\pi^{-}\gamma$	194	1	195
196	$e^+e^- \to e^-e^-\bar{\nu}_e\bar{\nu}_e K_L K_L \pi^+\pi^+\pi^+\pi^+\pi^+\pi^-\pi^- K^-n\bar{n}\gamma\gamma\gamma\gamma\gamma\gamma\gamma\gamma$	195	1	196
197	$e^{+}e^{-} \rightarrow e^{+}e^{+}e^{-}\nu_{e}\mu^{+}\nu_{\mu}\pi^{-}\pi^{-}\pi^{-}K^{+}n\bar{n}\gamma$	196	1	197
198	$e^+e^- \to K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ n \bar{n} \gamma \gamma \gamma \gamma \gamma \gamma$	197	1	198
199	$e^+e^- \to e^- \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- \pi^- \pi^- K^+ K^+ \gamma \gamma$	198	1	199
200	$e^{+}e^{-} \rightarrow e^{-}\bar{\nu}_{e}\mu^{-}\bar{\nu}_{\mu}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+}\pi^{+$	199	1	200

Table 3: Signal inclusive event branches.

index	signal inclusive event branch	iSigIncEvtBr	nEtrs	nCmltEtrs
1	$e^+e^- \to \Upsilon(4S) + \text{anything}$	0	200	200
2	$e^+e^- \to \pi^+\pi^- + \text{anything}$	1	0	200