

Topology Analysis ^{*}

(v1.5)

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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 and Guanda Gong for their efforts in helping me test the program.

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

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
1	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \mu^- \bar{\nu}_\mu \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow K^- a_1^+, a_1^+ \rightarrow \pi^+ \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \mu^- \bar{\nu}_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^+ K^-)$	113	110	2	2
2	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^- K^{*+} J/\psi, \bar{B}^0 \rightarrow D^+ a_1^-, K^{*+} \rightarrow \pi^+ K^0, J/\psi \rightarrow \mu^+ \mu^-,$ $D^+ \rightarrow \pi^+ \pi^+ K^-, a_1^- \rightarrow \rho^0 \pi^-, K^0 \rightarrow K_L, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow \mu^+ \mu^- K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^-)$	1	1	1	3
3	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \pi^- D_2^{*+}, D^- \rightarrow \pi^- \pi^- K^+, D_2^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \pi^+ \pi^- \bar{K}^*, \bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^-)$	2	2	1	4
4	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, B^0 \rightarrow e^- \bar{\nu}_e D^+, D^+ \rightarrow \pi^+ \pi^+ K^-, D^+ \rightarrow \mu^+ \nu_\mu \bar{K}^0,$ $\bar{K}^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- e^- \bar{\nu}_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^+ \pi^- K^-)$	3	3	1	5
5	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D_2^{*+}, \bar{B}^0 \rightarrow D^{*+} n \bar{p}, D_2^{*+} \rightarrow \pi^+ D^0, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \pi^0 \pi^+ K^-, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^+ K^- K^- n \bar{p} \gamma \gamma)$	4	4	1	6
6	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D_0^{*+}, D^- \rightarrow \pi^0 \pi^- K_S, D_0^{*+} \rightarrow \pi^+ D^0,$ $K_S \rightarrow \pi^+ \pi^-, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma)$	5	5	1	7
7	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ \pi^- K^0 \eta_c, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, K^0 \rightarrow K_L, \eta_c \rightarrow \pi^+ \pi^-,$ $D^+ \rightarrow e^+ \nu_e \bar{K}^0, \bar{K}^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^-)$	6	6	1	8
8	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^- \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow e^+ \nu_e K^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu \pi^+ \pi^- \pi^- K^+ K^-)$	7	7	1	9
9	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e \pi^+ \pi^- D^{*+}, D^- \rightarrow \pi^+ \pi^- \pi^-, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow K_L \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^-)$	8	8	1	10
10	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D_2^{*-}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, D_2^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow \mu^+ \nu_\mu \bar{K}^*,$ $\bar{D}^0 \rightarrow e^- \bar{\nu}_e K^+, \bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu \pi^+ \pi^- K^+ K^-)$	9	9	1	11
11	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}, D^- \rightarrow e^- \bar{\nu}_e \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \pi^0 \pi^+ K^-$ $(e^+e^- \rightarrow e^- e^- \bar{\nu}_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^- K^+ K^- \gamma \gamma)$	10	10	1	12
12	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^0 \pi^- K_S, D^{*+} \rightarrow \pi^+ D^0,$ $K_S \rightarrow \pi^+ \pi^-, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma)$	11	5	1	13

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
13	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow K_L a_1^-, D^+ \rightarrow \pi^0 \pi^+ K_S,$ $a_1^- \rightarrow \pi^- f_0(600), K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^-\bar{\nu}_e \mu^+ \nu_\mu K_L \pi^+ \pi^+ \pi^- \pi^- f_0(600) \gamma \gamma)$	12	11	1	14
14	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow e^-\bar{\nu}_e \pi^- K^+, D^+ \rightarrow e^+\nu_e \bar{K}^*,$ $\bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+e^+e^-e^-\nu_e\nu_e\bar{\nu}_e\bar{\nu}_e\pi^+\pi^-K^+K^-)$	13	12	1	15
15	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^-\bar{\Delta}^0 p, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^-\pi^-K^+, \bar{\Delta}^0 \rightarrow \pi^+\bar{p},$ $D^{*+} \rightarrow \pi^+ D^0, D^0 \rightarrow \pi^+\pi^+\pi^-K^-$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-p\bar{p})$	14	13	1	16
16	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^{*-} \rightarrow \pi^-\bar{D}^0, D^+ \rightarrow e^+\nu_e K_2^{*0},$ $\bar{D}^0 \rightarrow \pi^- K^+, K_2^{*0} \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+e^+\nu_e\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^-)$	15	14	1	17
17	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow K^0 K^- D^+, D^- \rightarrow \pi^-\pi^-K^+, K^0 \rightarrow K_L,$ $D^+ \rightarrow \pi^+\pi^+K^-$ $(e^+e^- \rightarrow e^+\nu_e K_L \pi^+\pi^+\pi^-\pi^-K^+K^-K^-)$	16	15	1	18
18	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow \pi^-\pi^-K^+, D^+ \rightarrow \pi^0 \pi^+ \phi,$ $\phi \rightarrow K^+ K^-$ $(e^+e^- \rightarrow e^+\nu_e \mu^-\bar{\nu}_\mu \pi^+\pi^-\pi^-K^+K^+K^-\gamma\gamma)$	17	16	1	19
19	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^- \rightarrow \pi^-\pi^-K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow e^+\nu_e \pi^- \bar{K}^0, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^+e^-\nu_e\nu_e\bar{\nu}_e K_L \pi^+\pi^-\pi^-\pi^-K^+)$	18	17	1	20
20	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow \mu^-\bar{\nu}_\mu K^*, D^{*+} \rightarrow \pi^+ D^0,$ $K^* \rightarrow \pi^- K^+, D^0 \rightarrow e^+\nu_e K^-$ $(e^+e^- \rightarrow e^+e^+\nu_e\nu_e\mu^-\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^-K^+K^-)$	19	18	1	21
21	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \bar{D}^{*-} \rightarrow D^-\gamma, D^{*+} \rightarrow \pi^+ D^0,$ $D^- \rightarrow e^-\bar{\nu}_e K^0, D^0 \rightarrow e^+\nu_e K^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu K_L \pi^+ K^- \gamma)$	20	19	1	22
22	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow \pi^- D^+, B^0 \rightarrow D^+ a_1^-, D^+ \rightarrow \mu^+\nu_\mu \bar{K}^0, D^+ \rightarrow \pi^+\pi^+K^-,$ $a_1^- \rightarrow \pi^0 \bar{K}^0 K^-, \bar{K}^0 \rightarrow K_L, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\nu_\mu K_L K_L \pi^+\pi^+\pi^-K^-K^-\gamma\gamma)$	21	20	1	23
23	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0 \eta_c, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, K^0 \rightarrow K_S, \eta_c \rightarrow \pi^+\pi^-\pi^-\bar{n}p,$ $D^+ \rightarrow e^+\nu_e \pi^+ K^-, K_S \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow e^+\nu_e \mu^-\bar{\nu}_\mu \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-\bar{n}p)$	22	21	1	24
24	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow D^0 n \bar{n}, D^- \rightarrow \pi^-\pi^-K^{*+}, D^0 \rightarrow \pi^0 \pi^+ K^-,$ $K^{*+} \rightarrow \pi^+ K^0, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\nu_\mu K_L \pi^+\pi^+\pi^-\pi^-K^-n\bar{n}\gamma\gamma)$	23	22	1	25

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
25	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^-\pi^-K^+, D^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow K^-a_1^+, a_1^+ \rightarrow \rho^0\pi^+, \rho^0 \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-)$	24	23	1	26
26	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-K^+\eta_c, \bar{B}^0 \rightarrow \pi^+K^0K^*K^{*-}n\bar{n}, \eta_c \rightarrow K^+K^-, K^0 \rightarrow K_L,$ $K^* \rightarrow \pi^-K^+, K^{*-} \rightarrow \pi^-\bar{K}^0, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow K_LK_L\pi^+\pi^-\pi^-\pi^-K^+K^+K^+K^-n\bar{n})$	25	24	1	27
27	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \bar{K}^0\eta_c, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, \bar{K}^0 \rightarrow K_S,$ $\eta_c \rightarrow p\bar{p}, \bar{D}^0 \rightarrow \pi^-\eta K^+, K_S \rightarrow \pi^+\pi^-, \eta \rightarrow \gamma\gamma$ $(e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^-\pi^-\pi^-K^+p\bar{p}\gamma\gamma)$	26	25	1	28
28	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0B^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, B^0 \rightarrow \pi^+K^-D^0, D^+ \rightarrow \pi^0\pi^+K_S, D^0 \rightarrow K^+K^-,$ $K_S \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-K^+K^-K^-\gamma\gamma)$	27	26	1	29
29	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow K_L\pi^-, D^+ \rightarrow \rho^+K^*,$ $\rho^+ \rightarrow \pi^0\pi^+, \bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-K^-\gamma\gamma)$	28	27	1	30
30	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D_0^{*+}, D^- \rightarrow e^-\bar{\nu}_e\pi^-K^+, D_0^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow e^+\nu_e K^-$ $(e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^-K^+K^-)$	29	28	1	31
31	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \pi^-D^+, D^- \rightarrow \pi^0K_L\pi^-, D^+ \rightarrow e^+\nu_e\bar{K}^*,$ $\bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow e^+e^+\nu_e\nu_e K_L\pi^+\pi^-\pi^-K^-\gamma\gamma)$	30	29	1	32
32	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^+\pi^-D^{*-}, D^- \rightarrow \pi^-\pi^-K^+, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0,$ $\bar{D}^0 \rightarrow K^+K^-$ $(e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+K^+K^-\gamma\gamma)$	31	30	1	33
33	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0B^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, B^0 \rightarrow \pi^0\pi^-\eta\bar{n}p, D^+ \rightarrow e^+\nu_e\bar{K}^*, \eta \rightarrow \gamma\gamma,$ $\bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^-\bar{n}p\gamma\gamma\gamma)$	32	31	1	34
34	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+D^-, \bar{B}^0 \rightarrow D^+a_1^-, D^- \rightarrow e^-\bar{\nu}_e K^0, D^+ \rightarrow e^+\nu_e\pi^+K^-,$ $a_1^- \rightarrow \pi^+\pi^-\pi^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+\pi^-\pi^-K^-)$	33	32	1	35
35	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu X_u^+, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, X_u^+ \rightarrow \pi^+\pi^-\rho^+,$ $\bar{D}^0 \rightarrow \pi^-K^+, \rho^+ \rightarrow \pi^0\pi^+$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma)$	34	33	1	36
36	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-K^-D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, D^+ \rightarrow \pi^+\pi^+K^-,$ $K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\pi^-K^-K^-\gamma\gamma)$	35	34	1	37

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
37	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \pi^0 D^0, \bar{B}^0 \rightarrow \pi^0 \pi^- D^{*+}, D^0 \rightarrow K_L \pi^+ K^-, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \mu^+ \nu_\mu K^-$ $(e^+e^- \rightarrow \mu^+ \nu_\mu K_L \pi^+ \pi^+ \pi^- K^- K^- \gamma \gamma \gamma)$	36	35	1	38
38	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow e^+ \nu_e X_u^-, \bar{B}^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, X_u^- \rightarrow \pi^0 \pi^-, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0,$ $\bar{D}^0 \rightarrow \pi^+ \pi^- K^*, K^* \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \nu_\mu \pi^+ \pi^- \pi^- \pi^- K^+ \gamma \gamma)$	37	36	1	39
39	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \pi^+ K^+ K^- D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^- \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \pi^0 \pi^+ K^-$ $(e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- K^+ K^+ K^- K^- \gamma \gamma)$	38	37	1	40
40	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \pi^0 \pi^0 \pi^0 a_0^0, \bar{B}^0 \rightarrow \bar{K}^0 J/\psi, a_0^0 \rightarrow K_L K_L, \bar{K}^0 \rightarrow K_L,$ $J/\psi \rightarrow \mu^+ \mu^-$ $(e^+e^- \rightarrow \mu^+ \mu^- K_L K_L K_L \gamma \gamma \gamma \gamma \gamma)$	39	38	1	41
41	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, D^- \rightarrow e^- \bar{\nu}_e K^0, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0,$ $K^0 \rightarrow K_L, \bar{D}^0 \rightarrow \rho^0 \pi^- K^+, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^+ e^- \nu_e \nu_e \bar{\nu}_e K_L \pi^+ \pi^- \pi^- \pi^- K^+)$	40	17	1	42
42	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \pi^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^{*+} \rightarrow \pi^+ D^0,$ $\bar{D}^0 \rightarrow \pi^0 K_L, D^0 \rightarrow \pi^0 K_L$ $(e^+e^- \rightarrow e^- \bar{\nu}_e K_L K_L \pi^+ \pi^+ \pi^- \gamma \gamma \gamma)$	41	39	1	43
43	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow K^* K^- D^-, D^- \rightarrow \pi^- \pi^- K^+, K^* \rightarrow \pi^+ K^-,$ $D^+ \rightarrow e^+ \nu_e \bar{K}^*, \bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- K^+ K^- K^- K^-)$	42	40	1	44
44	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, D^- \rightarrow \mu^- \bar{\nu}_\mu K^0, D^+ \rightarrow K_L K^{*+},$ $K^0 \rightarrow K_L, K^{*+} \rightarrow \pi^+ K^0, K^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \mu^- \bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^-)$	43	41	1	45
45	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \pi^+ \pi^- \bar{D}^{*0}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, \bar{D}^{*0} \rightarrow \bar{D}^0 \gamma, D^+ \rightarrow \mu^+ \nu_\mu \bar{K}^0,$ $\bar{D}^0 \rightarrow \pi^0 \pi^- K^+, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^- \pi^- K^+ \gamma \gamma)$	44	42	1	46
46	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \rho^+ D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e X_u^+, \rho^+ \rightarrow \pi^0 \pi^+, D^- \rightarrow \mu^- \bar{\nu}_\mu K^0,$ $X_u^+ \rightarrow \rho^0 \pi^+, K^0 \rightarrow K_L, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^- \gamma \gamma)$	45	43	1	47
47	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow D^- \bar{n} p, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^- \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \pi^0 K_L \pi^+ \pi^-$ $(e^+e^- \rightarrow \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- \pi^- K^+ \bar{n} p \gamma \gamma)$	46	44	1	48
48	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \bar{D}^{*-} a_1^+, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, a_1^+ \rightarrow \pi^+ \pi^+ \pi^-,$ $D^+ \rightarrow e^+ \nu_e \bar{K}^0, \bar{D}^0 \rightarrow e^- \bar{\nu}_e K^+, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^+)$	47	45	1	49

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
49	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, D^{*+} \rightarrow D^+\gamma,$ $\bar{D}^0 \rightarrow e^-\bar{\nu}_e K^+, D^+ \rightarrow e^+\nu_e\pi^+K^-$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-K^+K^-\gamma)$	48	46	1	50
50	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^+\pi^-\eta D^0, D^- \rightarrow \pi^-\pi^-K^+, \eta \rightarrow \gamma\gamma,$ $D^0 \rightarrow \pi^0\pi^+K^-$ $(e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma)$	49	47	1	51
51	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\bar{D}^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, \rho^0 \rightarrow \pi^+\pi^-, \bar{D}^0 \rightarrow e^-\bar{\nu}_e K^+,$ $D^+ \rightarrow e^+\nu_e\pi^+K^-$ $(e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-K^+K^-)$	50	48	1	52
52	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\bar{D}^0, \bar{B}^0 \rightarrow \bar{X}_{sd}\gamma, \bar{D}^0 \rightarrow \pi^0\pi^-K^+, \bar{X}_{sd} \rightarrow \rho^+K^-,$ $\rho^+ \rightarrow \pi^0\pi^+$ $(e^+e^- \rightarrow \pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma)$	51	49	1	53
53	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\pi^-K^+, \bar{B}^0 \rightarrow \tau^-\bar{\nu}_\tau D^+, \tau^- \rightarrow \nu_\tau\pi^-, D^+ \rightarrow \mu^+\nu_\mu\bar{K}^*,$ $\bar{K}^* \rightarrow \pi^0\bar{K}^0, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\nu_\mu\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^-\pi^-K^+\gamma\gamma)$	52	50	1	54
54	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-, D^- \rightarrow \pi^0\pi^+\pi^-\pi^-, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0,$ $K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-\gamma\gamma)$	53	51	1	55
55	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0,$ $\bar{D}^0 \rightarrow \pi^0\pi^-K^+, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^-\pi^-K^+\gamma\gamma)$	54	52	1	56
56	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, D^+ \rightarrow \mu^+\nu_\mu\bar{K}^*,$ $K^0 \rightarrow K_S, \bar{K}^* \rightarrow \pi^+K^-, K_S \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^-K^-)$	55	53	1	57
57	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^- \rightarrow e^-\bar{\nu}_e\pi^-K^+, D^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow \pi^+K_1^-, K_1^- \rightarrow \rho^0 K^-, \rho^0 \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-)$	56	54	1	58
58	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow \pi^0 K_L\pi^-, D^+ \rightarrow \mu^+\nu_\mu\bar{K}^0,$ $\bar{K}^0 \rightarrow K_S, K_S \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow \mu^+\mu^+\mu^-\nu_\mu\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-\gamma\gamma)$	57	55	1	59
59	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow \pi^-\pi^-K^+, D^+ \rightarrow \pi^0\pi^+K_S,$ $K_S \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma)$	58	56	1	60
60	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \pi^-K^0 D^+, D^- \rightarrow e^-\bar{\nu}_e K^*, \bar{K}^0 \rightarrow K_L,$ $D^+ \rightarrow \mu^+\nu_\mu\bar{K}^0, K^* \rightarrow \pi^-K^+, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu K_L K_L\pi^-\pi^-K^+)$	59	57	1	61

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
61	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+D^-, \bar{B}^0 \rightarrow \pi^-D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu\pi^-K^+, D^+ \rightarrow e^+\nu_e\bar{K}_1^0,$ $\bar{K}_1^0 \rightarrow \rho^+K^-, \rho^+ \rightarrow \pi^0\pi^+$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma)$	60	58	1	62
62	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_0^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D_0^{*-} \rightarrow \pi^-\bar{D}^0, D^+ \rightarrow e^+\nu_e\bar{K}^*,$ $\bar{D}^0 \rightarrow K_L\pi^-K^+, \bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu K_L\pi^+\pi^-\pi^-K^+K^-)$	61	59	1	63
63	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\rho^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu\eta D^{*+}, \rho^- \rightarrow \pi^0\pi^-, \eta \rightarrow \gamma\gamma,$ $D^{*+} \rightarrow \pi^+D^0, D^0 \rightarrow K_LK_L$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_LK_L\pi^+\pi^-\gamma\gamma\gamma\gamma)$	62	60	1	64
64	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D_0^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D_0^{*-} \rightarrow \pi^-\bar{D}^0, D^+ \rightarrow \pi^+\pi^+K^-,$ $\bar{D}^0 \rightarrow K^+a_1^-, a_1^- \rightarrow \rho^0\pi^-, \rho^0 \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-)$	63	61	1	65
65	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^+K^-\bar{D}^{*0}, D^- \rightarrow K_LK^-, \bar{D}^{*0} \rightarrow \pi^0\bar{D}^0,$ $\bar{D}^0 \rightarrow \pi^0\pi^-K^+$ $(e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^-K^+K^-K^-\gamma\gamma\gamma\gamma)$	64	62	1	66
66	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \bar{K}^*\gamma, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, \bar{K}^* \rightarrow \pi^+K^-,$ $\bar{D}^0 \rightarrow K_S\eta', K_S \rightarrow \pi^+\pi^-, \eta' \rightarrow \rho^0\gamma, \rho^0 \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^-\gamma\gamma)$	65	63	1	67
67	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0,$ $K^0 \rightarrow K_L, \bar{D}^0 \rightarrow \pi^0\pi^-K^+$ $(e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^-\pi^-K^+\gamma\gamma)$	66	52	1	68
68	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, B^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^+ \rightarrow K_L a_1^+, D^{*+} \rightarrow \pi^+D^0,$ $a_1^+ \rightarrow \pi^+f_0(600), D^0 \rightarrow \pi^+\pi^-\bar{K}^*, \bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow e^+e^-\bar{\nu}_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+\pi^-\pi^-K^-f_0(600))$	67	64	1	69
69	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_1'^-, \bar{B}^0 \rightarrow D^+a_1^-, D_1'^- \rightarrow \pi^-\bar{D}^{*0}, D^+ \rightarrow \pi^+\pi^+K^-,$ $a_1^- \rightarrow \pi^-f_0(600), \bar{D}^{*0} \rightarrow \bar{D}^0\gamma, \bar{D}^0 \rightarrow e^-\bar{\nu}_e K^+$ $(e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-f_0(600)\gamma)$	68	65	1	70
70	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^0 p\bar{p}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, \bar{D}^0 \rightarrow \pi^-K_1^+, D^+ \rightarrow e^+\nu_e\pi^+K^-,$ $K_1^+ \rightarrow \rho^0 K^+, \rho^0 \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-\pi^-K^+K^-p\bar{p})$	69	66	1	71
71	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\rho^-, \bar{B}^0 \rightarrow \pi^+\eta\bar{D}^{*-}, \rho^- \rightarrow \pi^0\pi^-, \eta \rightarrow \gamma\gamma,$ $\bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, \bar{D}^0 \rightarrow e^-\bar{\nu}_e\pi^+$ $(e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\gamma\gamma\gamma\gamma)$	70	67	1	72
72	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K_S J/\psi, \bar{B}^0 \rightarrow \pi^+D^-\pi\bar{n}, K_S \rightarrow \pi^+\pi^-, J/\psi \rightarrow \pi^0\pi^+\pi^-,$ $D^- \rightarrow \pi^-\pi^-K^+$ $(e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-K^+n\bar{n}\gamma\gamma)$	71	68	1	73

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
73	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, \tau^+ \rightarrow \bar{\nu}_\tau\pi^+, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0,$ $D^+ \rightarrow K_L K^+, \bar{D}^0 \rightarrow \pi^0\pi^- K^+$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^-\pi^- K^+K^+\gamma\gamma)$	72	69	1	74
74	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu\rho^+, D^{*-} \rightarrow \pi^-\bar{D}^0, \rho^+ \rightarrow \pi^0\pi^+,$ $\bar{D}^0 \rightarrow K^+a_1^-, a_1^- \rightarrow \pi^-f_0(600)$ $(e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^- K^+f_0(600)\gamma\gamma)$	73	70	1	75
75	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^-\bar{n}p, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, D^{*+} \rightarrow \pi^+D^0,$ $K^0 \rightarrow K_L, D^0 \rightarrow \pi^0\pi^+K^-$ $(e^+e^- \rightarrow \mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu K_L\pi^+\pi^+K^-\bar{n}p\gamma\gamma)$	74	71	1	76
76	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow \pi^0\pi^- K^*, D^+ \rightarrow \mu^+\nu_\mu\pi^+K^-,$ $K^* \rightarrow \pi^-K^+$ $(e^+e^- \rightarrow \mu^+\mu^+\mu^-\nu_\mu\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^- K^+K^-\gamma\gamma)$	75	72	1	77
77	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0 J/\psi, \bar{B}^0 \rightarrow K_L J/\psi, K^0 \rightarrow K_L, J/\psi \rightarrow e^+e^-,$ $J/\psi \rightarrow \pi^+\rho^-\eta, \rho^- \rightarrow \pi^0\pi^-, \eta \rightarrow \gamma\gamma, \pi^0 \rightarrow e^+e^-$ $(e^+e^- \rightarrow e^+e^+e^-e^- K_L K_L\pi^+\pi^-\gamma\gamma)$	76	73	1	78
78	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, D^{*+} \rightarrow \pi^+D^0,$ $\bar{D}^0 \rightarrow \pi^-K^+, D^0 \rightarrow \pi^0\pi^+K^-$ $(e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^- K^+K^-\gamma\gamma)$	77	74	1	79
79	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-K^+\eta_c, \bar{B}^0 \rightarrow \bar{K}^* J/\psi, \eta_c \rightarrow \pi^+K^*K^-, \bar{K}^* \rightarrow \pi^+K^-,$ $J/\psi \rightarrow e^+e^-, K^* \rightarrow \pi^-K^+$ $(e^+e^- \rightarrow e^+e^-\pi^+\pi^+\pi^-\pi^- K^+K^+K^-K^-)$	78	75	1	80
80	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0, D^+ \rightarrow \mu^+\nu_\mu\bar{K}^0,$ $\bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\gamma\gamma)$	79	76	1	81
81	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-K^0K^+n\bar{n}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D_0^{*+}, K^0 \rightarrow K_L, D_0^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow K^-a_1^+, a_1^+ \rightarrow \pi^+f_0(600)$ $(e^+e^- \rightarrow e^-\bar{\nu}_e K_L\pi^+\pi^+\pi^- K^+K^-n\bar{n}f_0(600))$	80	77	1	82
82	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu X_u^-, \bar{B}^0 \rightarrow \pi^-\eta D^+, X_u^- \rightarrow \pi^0\pi^-, \eta \rightarrow \gamma\gamma,$ $D^+ \rightarrow K_L K^{*+}, K^{*+} \rightarrow \pi^+K^0, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\nu_\mu K_L K_L\pi^+\pi^-\pi^-\gamma\gamma\gamma\gamma)$	81	78	1	83
83	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\bar{D}^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{D}^0 \rightarrow \pi^0\pi^- K^+, D^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^- K^+K^-\gamma\gamma)$	82	79	1	84
84	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+K^+K^-D^-, \bar{B}^0 \rightarrow K^0K^-D^+, D^- \rightarrow e^-\bar{\nu}_e K^0, K^0 \rightarrow K_L,$ $D^+ \rightarrow e^+\nu_e\pi^+K^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L K_L\pi^+\pi^+K^+K^-K^-K^-)$	83	80	1	85

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
85	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, \bar{B}^0 \rightarrow \pi^-\omega D^{*+}, D^+ \rightarrow \pi^+\pi^+K^-, \omega \rightarrow \pi^+\pi^-,$ $D^{*+} \rightarrow \pi^+D^0, D^0 \rightarrow \mu^+\nu_\mu K^-$ $(e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^-K^-)$	84	81	1	86
86	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow K^*K^-, D^{*+} \rightarrow \pi^0 D^+,$ $K^* \rightarrow \pi^-K^+, D^+ \rightarrow \pi^+\pi^+K^-$ $(e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^-K^-\gamma\gamma)$	85	82	1	87
87	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow K_S a_1^-, D^+ \rightarrow e^+\nu_e \bar{K}^0,$ $K_S \rightarrow \pi^+\pi^-, a_1^- \rightarrow \pi^-f_0(600), \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-f_0(600))$	86	83	1	88
88	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^{*-}, \bar{B}^0 \rightarrow D^+n\bar{p}, D^{*-} \rightarrow \pi^-\bar{D}^0, D^+ \rightarrow \mu^+\nu_\mu\pi^0,$ $\bar{D}^0 \rightarrow \pi^+\pi^-\pi^-K^+$ $(e^+e^- \rightarrow \mu^+\mu^+\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+n\bar{p}\gamma\gamma)$	87	84	1	89
89	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^- \rightarrow K_L\pi^-, D^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow \pi^+\eta K^-, \eta \rightarrow e^+e^-$ $(e^+e^- \rightarrow e^+e^+e^-e^-\nu_e\bar{\nu}_e K_L\pi^+\pi^+\pi^-K^-)$	88	85	1	90
90	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau\pi^-, \bar{B}^0 \rightarrow \rho^0\pi^+\rho^-K^0, \tau^+ \rightarrow e^+\nu_e\bar{\nu}_\tau, \rho^0 \rightarrow \pi^+\pi^-,$ $\rho^- \rightarrow \pi^0\pi^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+\nu_e\bar{\nu}_\tau K_L\pi^+\pi^+\pi^-\pi^-\pi^-\gamma\gamma)$	89	86	1	91
91	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^+\pi^-D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu K^*, D^+ \rightarrow \pi^0 K_L\pi^+,$ $K^* \rightarrow \pi^-K^+$ $(e^+e^- \rightarrow \mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma)$	90	87	1	92
92	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^-\bar{\nu}_\mu X_u^+, \bar{B}^0 \rightarrow \pi^-\eta D^+, X_u^+ \rightarrow \pi^+\pi^+\pi^-, \eta \rightarrow \pi^+\pi^-,$ $D^+ \rightarrow \mu^+\nu_\mu \bar{K}^*, \bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-)$	91	88	1	93
93	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-K^*\phi, \bar{B}^0 \rightarrow K^0K^-D^+, K^* \rightarrow \pi^-K^+, \phi \rightarrow K_L K_S,$ $K^0 \rightarrow K_L, D^+ \rightarrow K_L\pi^+, K_S \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow K_L K_L K_L\pi^+\pi^+\pi^-\pi^-K^+K^-)$	92	89	1	94
94	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^-\bar{\nu}_e D^+, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D_1^+, D^+ \rightarrow \mu^+\nu_\mu\pi^+K^-, D_1^+ \rightarrow \pi^+\pi^-D^+,$ $D^+ \rightarrow \mu^+\nu_\mu \bar{K}^0, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\mu^+\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-K^-)$	93	90	1	95
95	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^- \rightarrow \pi^-\pi^-K^+, D^{*+} \rightarrow \pi^0 D^+,$ $D^+ \rightarrow \pi^+\pi^+K^-$ $(e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-K^+K^-\gamma\gamma)$	94	91	1	96
96	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D_0^{*-}, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-, D_0^{*-} \rightarrow \pi^-\bar{D}^0, D^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0,$ $\bar{D}^0 \rightarrow e^-\bar{\nu}_e K^+$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^-K^+\gamma\gamma)$	95	92	1	97

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
97	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow e^-\bar{\nu}_e \pi^- K^+, D^+ \rightarrow \pi^0 \pi^+ \bar{K}^*,$ $\bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-K^+K^-\gamma\gamma)$	96	93	1	98
98	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 D^- \bar{n}p, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu X_u^+, D^- \rightarrow K^* K^-, X_u^+ \rightarrow \pi^0 \pi^+,$ $K^* \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu \pi^+ \pi^- K^+ K^- \bar{n}p \gamma \gamma \gamma)$	97	94	1	99
99	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+ \pi^+ \pi^- D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow K_L a_1^-, D^+ \rightarrow \pi^+ \pi^+ K^-,$ $a_1^- \rightarrow \rho^0 \pi^-, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^-)$	98	95	1	100
100	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \rho^0 D^{*0}, D^- \rightarrow \pi^- \pi^- K^+, \rho^0 \rightarrow \pi^+ \pi^-,$ $D^{*0} \rightarrow D^0 \gamma, D^0 \rightarrow \pi^+ \pi^- \bar{K}^*, \bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^- \gamma)$	99	96	1	101
101	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^- \rightarrow e^-\bar{\nu}_e K_1^0, D^{*+} \rightarrow \pi^+ D^0,$ $K_1^0 \rightarrow \pi^+ \pi^- K^0, D^0 \rightarrow \pi^+ K^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e K_L \pi^+ \pi^+ \pi^- K^-)$	100	97	1	102
102	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^* D^- D^{*+}, \bar{B}^0 \rightarrow K_L \chi_{c1}, K^* \rightarrow \pi^- K^+, D^- \rightarrow \pi^- \pi^- K^+,$ $D^{*+} \rightarrow \pi^+ D^0, \chi_{c1} \rightarrow \pi^- \bar{n}p, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^+ K^- \bar{n}p)$	101	98	1	103
103	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, D^{*+} \rightarrow \pi^+ D^0,$ $K^0 \rightarrow K_L, D^0 \rightarrow \pi^+ \pi^- \bar{K}^*, \bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \mu^- \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^-)$	102	99	1	104
104	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e D^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow \pi^0 \pi^+ K^+ K^-,$ $\bar{D}^0 \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^-\pi^-K^+K^+K^-\gamma\gamma)$	103	100	1	105
105	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^{*-} \rightarrow \pi^0 D^-, D^+ \rightarrow e^+ \nu_e \bar{K}^0,$ $D^- \rightarrow K_L K^-, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L K_L K^- \gamma \gamma)$	104	101	1	106
106	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \bar{D}^0 p \bar{\Delta}^+, D^- \rightarrow e^-\bar{\nu}_e K^*, D^0 \rightarrow \pi^+ K^-,$ $\bar{\Delta}^+ \rightarrow \pi^- \bar{n}, K^* \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^-\pi^-K^+K^-\bar{n}p)$	105	102	1	107
107	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0,$ $\bar{D}^0 \rightarrow K^+ K^-, \bar{D}^0 \rightarrow e^-\bar{\nu}_e K^{*+}, K^{*+} \rightarrow K^+$ $(e^+e^- \rightarrow e^-\bar{\nu}_e \mu^+ \mu^+ \nu_\mu \bar{\nu}_\mu \pi^- \pi^- K^+ K^+ K^-)$	106	103	1	108
108	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 \pi^+ \pi^+ \pi^- D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, D^- \rightarrow \pi^0 K_L \pi^-, D^+ \rightarrow K_L \pi^+$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^- \pi^- \gamma \gamma \gamma \gamma)$	107	104	1	109

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
109	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^{*+} \rightarrow \pi^+ D^0, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow e^+\nu_e K^-, D^0 \rightarrow \mu^+\nu_\mu K^-$ $(e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+K^-K^-)$	108	105	1	110
110	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{B}^0 \rightarrow K^0 K^- D^+, D^{*+} \rightarrow \pi^+ D^0, K^0 \rightarrow K_L,$ $D^+ \rightarrow \mu^+\nu_\mu \bar{K}^0, D^0 \rightarrow \mu^+\nu_\mu K^-, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L K_L \pi^+ K^- K^-)$	109	106	1	111
111	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow K_L \eta_c, \bar{B}^0 \rightarrow \mu^+\nu_\mu X_u^-, \eta_c \rightarrow \pi^- K^* K^+, X_u^- \rightarrow \pi^+ \pi^- \pi^-,$ $\bar{K}^* \rightarrow \pi^0 \bar{K}^0, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\nu_\mu K_L K_L \pi^+ \pi^- \pi^- K^+ \gamma \gamma)$	110	107	1	112
112	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \pi^+ \eta D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, \eta \rightarrow \gamma \gamma, D^- \rightarrow \mu^-\bar{\nu}_\mu \pi^- K^+,$ $D^+ \rightarrow \pi^0 K_L \pi^+$ $(e^+e^- \rightarrow e^-\bar{\nu}_e \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^+ \gamma \gamma \gamma)$	111	108	1	113
113	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \rho^+ D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, \rho^+ \rightarrow \pi^0 \pi^+, D^- \rightarrow \pi^- \pi^- K^+,$ $D^+ \rightarrow \pi^0 K_L \pi^+$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- \pi^- K^+ \gamma \gamma \gamma)$	112	109	1	114
114	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^+\nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^- \rightarrow \pi^0 \pi^- K^*,$ $\bar{D}^0 \rightarrow \pi^- K^+, K^* \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow e^+\nu_e \mu^+\nu_\mu \pi^- \pi^- \pi^- \pi^- K^+ K^+ \gamma \gamma)$	0	0	1	115
115	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \mu^+\nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^{*+} \rightarrow \pi^+ D^0,$ $\bar{D}^0 \rightarrow \mu^-\bar{\nu}_\mu \pi^+ K^0, D^0 \rightarrow \pi^+ K^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^-)$	114	99	1	116
116	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu K_2^{*0}, D^+ \rightarrow e^+\nu_e \bar{K}^0,$ $K_2^{*0} \rightarrow \pi^- K^+, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L \pi^- K^+)$	115	111	1	117
117	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^+\nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \bar{K}^* \gamma, \bar{D}^{*-} \rightarrow \pi^0 D^-, K^* \rightarrow \pi^+ K^-,$ $D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, K^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+\nu_e \mu^-\bar{\nu}_\mu \pi^+ \pi^+ \pi^- K^- \gamma \gamma \gamma)$	116	112	1	118
118	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D_1^{'+}, D^- \rightarrow \pi^- \pi^- K^+, D_1^{'+} \rightarrow \pi^+ D^{*0},$ $D^{*0} \rightarrow \pi^0 D^0, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+\nu_e \mu^-\bar{\nu}_\mu \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma)$	117	58	1	119
119	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \rho^- D_2^{*+}, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, \rho^- \rightarrow \pi^0 \pi^-,$ $D_2^{*+} \rightarrow \pi^+ D^0, K^0 \rightarrow K_L, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow e^+\nu_e \mu^-\bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^- \gamma \gamma)$	118	27	1	120
120	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^+\nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^- D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, \rho^- \rightarrow \pi^0 \pi^-,$ $D^+ \rightarrow \pi^+ \pi^+ \pi^-, \bar{D}^0 \rightarrow K_L \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+\nu_e K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \gamma \gamma)$	119	113	1	121

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
121	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\pi^-K^+\bar{D}^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, \bar{D}^0 \rightarrow \pi^-K^+, D^+ \rightarrow \pi^0\pi^0\pi^+$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^+\gamma\gamma\gamma$)	120	114	1	122
122	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow D^0n\bar{n}, D^- \rightarrow K_L a_1^-, D^0 \rightarrow \pi^+\pi^-K_S,$ $a_1^- \rightarrow \pi^+\pi^-\pi^-, K_S \rightarrow \pi^+\pi^-$ ($e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^+\pi^-\pi^-\pi^-\pi^-n\bar{n}$)	121	115	1	123
123	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow K^0K^-D^{*+}, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, K^0 \rightarrow K_L,$ $D^{*+} \rightarrow \pi^+D^0, K^0 \rightarrow K_L, D^0 \rightarrow K_L\pi^+\pi^-$ ($e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L K_L\pi^+\pi^+\pi^-K^-$)	122	116	1	124
124	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e X_u^+, D^{*-} \rightarrow \pi^-\bar{D}^0, X_u^+ \rightarrow \pi^0\pi^+,$ $\bar{D}^0 \rightarrow \pi^+\pi^-K_S, K_S \rightarrow \pi^+\pi^-$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-\gamma\gamma$)	123	117	1	125
125	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow \mu^-\bar{\nu}_\mu K^0, D^+ \rightarrow \mu^+\nu_\mu \bar{K}^*,$ $K^0 \rightarrow K_L, \bar{K}^* \rightarrow \pi^+K^-$ ($e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+K^-$)	124	118	1	126
126	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-, D^- \rightarrow K_L\pi^-, D^- \rightarrow \pi^-K_1'^0,$ $K_1'^0 \rightarrow \pi^0K^*, K^* \rightarrow \pi^-K^+$ ($e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu K_L\pi^-\pi^-\pi^-K^+\gamma\gamma$)	125	119	1	127
127	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\pi^-, \bar{B}^0 \rightarrow \rho^-D^{*+}\gamma, \rho^- \rightarrow \pi^0\pi^-, D^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow \pi^0\pi^+K^-$ ($e^+e^- \rightarrow e^+\nu_e\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma$)	126	120	1	128
128	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, D^- \rightarrow e^-\bar{\nu}_e\pi^-K^+, D^{*+} \rightarrow \pi^+D^0,$ $D^0 \rightarrow e^+\nu_e\pi^-\bar{K}^0, \bar{K}^0 \rightarrow K_L$ ($e^+e^- \rightarrow e^+e^+e^-\nu_e\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-K^+$)	127	121	1	129
129	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e X_u^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, X_u^- \rightarrow \pi^0\pi^-\eta, D^+ \rightarrow \pi^+\pi^+K^-,$ $\eta \rightarrow \gamma\gamma$ ($e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-K^-\gamma\gamma\gamma\gamma$)	128	122	1	130
130	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, \rho^+ \rightarrow \pi^0\pi^+, D^- \rightarrow e^-\bar{\nu}_e K^0,$ $D^+ \rightarrow \pi^+\pi^+K^-, K^0 \rightarrow K_L$ ($e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+K^-\gamma\gamma$)	129	123	1	131
131	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, D^{*+} \rightarrow \pi^+D^0,$ $\bar{D}^0 \rightarrow \mu^-\bar{\nu}_\mu K^+, D^0 \rightarrow e^+\nu_e K^-$ ($e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-K^+K^-$)	130	124	1	132
132	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\pi^-\bar{D}^0, \bar{B}^0 \rightarrow \rho^0\pi^-D^{*+}, \bar{D}^0 \rightarrow \pi^+K^-, \rho^0 \rightarrow \pi^+\pi^-,$ $D^{*+} \rightarrow \pi^+D^0, D^0 \rightarrow e^+\nu_e K^-$ ($e^+e^- \rightarrow e^+e^+\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-\pi^-\pi^-K^-K^-$)	131	125	1	133

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
133	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \pi^- D^+, \bar{B}^0 \rightarrow \pi^- D^{*+}, D^+ \rightarrow \pi^+ K_S, D^{*+} \rightarrow \pi^+ D^0,$ $K_S \rightarrow \pi^0 \pi^0, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma \gamma \gamma)$	132	126	1	134
134	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow D^+ n \bar{p}, D^- \rightarrow \pi^- \pi^- K^+, D^+ \rightarrow \pi^0 \bar{K}^* K^+,$ $\bar{K}^* \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^- \pi^- K^+ K^+ K^- n \bar{p} \gamma \gamma)$	133	127	1	135
135	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \pi^+ D^0 D_s^-, D^- \rightarrow \pi^- \phi, D^0 \rightarrow \pi^0 \pi^+ K^-,$ $D_s^- \rightarrow K_L K^-, \phi \rightarrow K^+ K^-$ $(e^+e^- \rightarrow e^+ \nu_e K_L \pi^+ \pi^+ \pi^- K^+ K^- K^- K^- \gamma \gamma)$	134	128	1	136
136	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow K_L a_1^-, D^{*+} \rightarrow \pi^+ D^0,$ $a_1^- \rightarrow \pi^- f_0(600), D^0 \rightarrow \pi^0 \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^- f_0(600) \gamma \gamma)$	135	129	1	137
137	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^+ \nu_e D^{*-}, D^- \rightarrow e^- \bar{\nu}_e K^0, D^{*-} \rightarrow \pi^0 D^-,$ $K^0 \rightarrow K_L, D^- \rightarrow \pi^- \pi^- K^+$ $(e^+e^- \rightarrow e^+ e^+ e^- \nu_e \nu_e \bar{\nu}_e K_L \pi^- \pi^- K^+ \gamma \gamma)$	136	130	1	138
138	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow \pi^0 K_L \pi^+,$ $\bar{D}^0 \rightarrow e^- \bar{\nu}_e K^+$ $(e^+e^- \rightarrow e^+ e^- e^- \nu_e \bar{\nu}_e \bar{\nu}_e K_L \pi^+ \pi^- K^+ \gamma \gamma)$	137	131	1	139
139	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}, D^- \rightarrow \rho^0 \pi^-, D^{*+} \rightarrow \pi^+ D^0,$ $\rho^0 \rightarrow \pi^+ \pi^-, D^0 \rightarrow \pi^+ \pi^- K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^-)$	138	132	1	140
140	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow e^+ \nu_e \pi^+ K^-,$ $\bar{D}^0 \rightarrow \pi^0 \pi^- K^+$ $(e^+e^- \rightarrow e^+ e^+ \nu_e \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma)$	139	133	1	141
141	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu \pi^+ D^0, D^- \rightarrow \pi^0 K_L \pi^-, D^0 \rightarrow \pi^0 \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- K^- \gamma \gamma \gamma \gamma)$	140	134	1	142
142	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D_2^{*-}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D_2^{*-} \rightarrow \pi^- \bar{D}^0, D^{*+} \rightarrow \pi^+ D^0,$ $\bar{D}^0 \rightarrow \pi^+ \pi^- K_S, D^0 \rightarrow \pi^+ K^-, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^-)$	141	88	1	143
143	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, D^- \rightarrow \mu^- \bar{\nu}_\mu K^0, D^+ \rightarrow \pi^0 \pi^+ K_S,$ $K^0 \rightarrow K_L, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \mu^- \bar{\nu}_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- \gamma \gamma)$	142	135	1	144
144	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow K_2^{*0} J/\psi, \bar{B}^0 \rightarrow e^+ \nu_e D^-, K_2^{*0} \rightarrow \pi^- K^+, J/\psi \rightarrow e^+ e^-,$ $D^- \rightarrow \mu^- \bar{\nu}_\mu K^0, K^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^+ e^- \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^- \pi^- K^+)$	143	136	1	145

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
145	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, D^- \rightarrow K_L a_1^-, D^{*+} \rightarrow \pi^+ D^0,$ $a_1^- \rightarrow \rho^0 \pi^-, D^0 \rightarrow K_L \pi^+ \pi^-, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^-\bar{\nu}_e \mu^+ \nu_\mu K_L K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^-)$	144	137	1	146
146	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 B^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e \rho^+, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, \rho^+ \rightarrow \pi^0 \pi^+, D^+ \rightarrow \pi^0 K_L \pi^+$ $(e^+e^- \rightarrow e^+e^-\bar{\nu}_e \bar{\nu}_e K_L \pi^+ \pi^+ \gamma \gamma \gamma \gamma)$	145	138	1	147
147	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^0 \pi^- D^{*+}, D^- \rightarrow \pi^- \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow e^+ \nu_e \pi^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \nu_\mu \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma)$	146	36	1	148
148	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \rho^- D^+, D^- \rightarrow K_L a_1^-, \rho^- \rightarrow \pi^0 \pi^-,$ $D^+ \rightarrow \pi^+ K_S, a_1^- \rightarrow \pi^- f_0(600), K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ \nu_e K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- f_0(600) \gamma \gamma)$	147	139	1	149
149	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^* J/\psi, \bar{B}^0 \rightarrow \pi^+ \Delta^+ \Sigma_c^{*0}, K^* \rightarrow \pi^- K^+, J/\psi \rightarrow e^+e^-,$ $\Delta^+ \rightarrow \pi^- \bar{n}, \Sigma_c^{*0} \rightarrow \pi^- \Lambda_c^+, \Lambda_c^+ \rightarrow \pi^+ \Lambda, \Lambda \rightarrow \pi^- p$ $(e^+e^- \rightarrow e^+e^- \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \bar{n} p)$	148	140	1	150
150	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \mu^+\nu_\mu D_1^-, D^- \rightarrow \pi^- \pi^- K^+, D_1^- \rightarrow \pi^+ \pi^- D^-,$ $D^- \rightarrow K_L a_1^-, a_1^- \rightarrow \pi^- f_0(600)$ $(e^+e^- \rightarrow \mu^+ \mu^+ \nu_\mu \nu_\mu K_L \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ f_0(600))$	149	141	1	151
151	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0 J/\psi, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, K^0 \rightarrow K_L, J/\psi \rightarrow \pi^+ K^* K^-,$ $D^+ \rightarrow \pi^0 K_L \pi^+, K^* \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow e^-\bar{\nu}_e K_L K_L \pi^+ \pi^+ \pi^- K^+ K^- \gamma \gamma)$	150	142	1	152
152	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e X_u^-, \bar{B}^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, X_u^- \rightarrow \pi^- \eta, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0,$ $\eta \rightarrow \gamma \gamma, \bar{D}^0 \rightarrow \pi^0 \pi^- K^+$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \nu_\mu \pi^- \pi^- \pi^- K^+ \gamma \gamma \gamma \gamma)$	151	143	1	153
153	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^{*+} \rightarrow \pi^+ D^0,$ $\bar{D}^0 \rightarrow \pi^- K^+, D^0 \rightarrow K_L \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+e^- \nu_e \bar{\nu}_e K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+)$	152	144	1	154
154	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow \pi^+ \pi^+ K^-,$ $\bar{D}^0 \rightarrow \pi^- K_S K^+, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^-\bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^+ K^-)$	153	145	1	155
155	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0 J/\psi, \bar{B}^0 \rightarrow \pi^0 \rho^0 \pi^- D^+, K^0 \rightarrow K_L, J/\psi \rightarrow e^+e^-,$ $\rho^0 \rightarrow \pi^+ \pi^-, D^+ \rightarrow \pi^+ \pi^+ K^-$ $(e^+e^- \rightarrow e^+e^- K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma)$	154	146	1	156
156	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow e^-\bar{\nu}_e K^*, D^+ \rightarrow \mu^+ \nu_\mu \pi^+ K^-,$ $K^* \rightarrow \pi^- K^+$ $(e^+e^- \rightarrow e^+e^- \bar{\nu}_e \bar{\nu}_e \mu^+ \mu^+ \nu_\mu \nu_\mu \pi^+ \pi^- K^+ K^-)$	155	147	1	157

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
157	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \pi^- K^+ K^- D^+, D^- \rightarrow \mu^- \bar{\nu}_\mu K^0, D^+ \rightarrow \mu^+ \nu_\mu \pi^+ K^-,$ $K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^- K^+ K^- K^-)$	156	148	1	158
158	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 B^0, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, D^+ \rightarrow K_L \pi^+, D^+ \rightarrow \mu^+ \nu_\mu \pi^0$ $(e^+e^- \rightarrow \mu^+ \mu^- \mu^- \nu_\mu \bar{\nu}_\mu \bar{\nu}_\mu K_L \pi^+ \gamma \gamma)$	157	149	1	159
159	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, B^0 \rightarrow D^+ D_s^-, D^- \rightarrow \mu^- \bar{\nu}_\mu \pi^- K^+, D^+ \rightarrow \pi^+ \pi^+ K^-,$ $D_s^- \rightarrow \pi^- \phi, \phi \rightarrow K^+ K^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^- \pi^- K^+ K^+ K^- K^-)$	158	150	1	160
160	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ D^-, B^0 \rightarrow \mu^- \bar{\nu}_\mu X_u^+, D^- \rightarrow \pi^- K_S, X_u^+ \rightarrow \pi^+ \omega,$ $K_S \rightarrow \pi^+ \pi^-, \omega \rightarrow \pi^0 \pi^+ \pi^-$ $(e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \gamma \gamma)$	159	151	1	161
161	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}, D^- \rightarrow \pi^- \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow K^- a_1^+, a_1^+ \rightarrow \pi^+ \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^-)$	160	152	1	162
162	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^{*+} \rightarrow \pi^+ D^0,$ $\bar{D}^0 \rightarrow \pi^0 \pi^- K^+, D^0 \rightarrow \pi^+ K^-$ $(e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma)$	161	74	1	163
163	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 B^0, B^0 \rightarrow e^- \bar{\nu}_e D^{*+}, \bar{B}^0 \rightarrow D^+ \Delta^- \bar{n}, D^{*+} \rightarrow \pi^+ D^0, D^+ \rightarrow e^+ \nu_e \pi^+ K^-,$ $\Delta^- \rightarrow \pi^- n, D^0 \rightarrow K_L \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e K_L \pi^+ \pi^+ \pi^- \pi^- K^- n \bar{n})$	162	153	1	164
164	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 B^0, B^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow \pi^+ K_S,$ $\bar{D}^0 \rightarrow e^- \bar{\nu}_e \pi^+ K^0, K_S \rightarrow \pi^+ \pi^-, K^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^- e^- \bar{\nu}_e \bar{\nu}_e \mu^+ \nu_\mu K_L \pi^+ \pi^+ \pi^- \pi^-)$	163	154	1	165
165	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ \pi^+ \pi^- \omega D^-, \bar{B}^0 \rightarrow K_L K^+ K^-, \omega \rightarrow \pi^0 \pi^+ \pi^-, D^- \rightarrow \mu^- \bar{\nu}_\mu K^0,$ $K^0 \rightarrow K_L$ $(e^+e^- \rightarrow \mu^- \bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma)$	164	155	1	166
166	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow X_{sd} \gamma, D^- \rightarrow e^- \bar{\nu}_e K^0, X_{sd} \rightarrow \pi^0 K^*,$ $K^0 \rightarrow K_S, \bar{K}^* \rightarrow \pi^+ K^-, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- K^- \gamma \gamma \gamma)$	165	156	1	167
167	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu X_u^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}, X_u^- \rightarrow \pi^- \eta, D^{*+} \rightarrow \pi^+ D^0,$ $\eta \rightarrow \gamma \gamma, D^0 \rightarrow \pi^0 \pi^+ K^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- K^- \gamma \gamma \gamma \gamma)$	166	157	1	168
168	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, D^- \rightarrow \pi^- \pi^- K^{*+}, D^+ \rightarrow \pi^+ \phi,$ $K^{*+} \rightarrow \pi^+ K^0, \phi \rightarrow K^+ K^-, K^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^-)$	167	158	1	169

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
169	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, D^+ \rightarrow \mu^+ \nu_\mu \pi^+ K^-, D^+ \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^-$ ($e^+e^- \rightarrow e^- e^- \bar{\nu}_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^-$)	168	159	1	170
170	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \omega K_S, B^0 \rightarrow \pi^+ \pi^- K^0 J/\psi, \omega \rightarrow \pi^0 \pi^+ \pi^-, K_S \rightarrow \pi^+ \pi^-,$ $K^0 \rightarrow K_L, J/\psi \rightarrow e^+ e^-$ ($e^+e^- \rightarrow e^+ e^- K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- \gamma \gamma$)	169	160	1	171
171	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow K_L \pi^+,$ $\bar{D}^0 \rightarrow \pi^0 \pi^- K^+, \pi^0 \rightarrow e^+ e^-$ ($e^+e^- \rightarrow e^+ e^+ e^- \nu_e \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^- \pi^- K^+$)	170	161	1	172
172	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow D^+ a_1^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^+ \rightarrow \pi^+ \pi^+ K^-, a_1^- \rightarrow \pi^- f_0(600),$ $D^{*+} \rightarrow \pi^+ D^0, D^0 \rightarrow K^- a_1^+, a_1^+ \rightarrow \pi^+ f_0(600)$ ($e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- K^- K^- f_0(600) f_0(600)$)	171	162	1	173
173	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+ K^- D^+ D^-, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, D^+ \rightarrow K_L \pi^+,$ $D^- \rightarrow \pi^- K_S, \bar{D}^0 \rightarrow \pi^- K^+, K_S \rightarrow \pi^+ \pi^-$ ($e^+e^- \rightarrow e^+ \nu_e K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^-$)	172	163	1	174
174	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+ \pi^- \bar{n} \Lambda, \bar{D}^{*-} \rightarrow \pi^0 D^-, \Lambda \rightarrow \pi^- p,$ $D^- \rightarrow \pi^- \pi^- K^+$ ($e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \bar{n} p \gamma \gamma$)	173	164	1	175
175	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D_1^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, D_1^- \rightarrow \pi^+ \pi^- D^-, D^+ \rightarrow K_L \pi^+,$ $D^- \rightarrow \pi^- \pi^- K^+$ ($e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+$)	174	165	1	176
176	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow D^- \bar{n} p, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, D^- \rightarrow \mu^- \bar{\nu}_\mu \pi^- K^+, D^+ \rightarrow \pi^+ \bar{K}_1^{'0},$ $\bar{K}_1^{'0} \rightarrow \pi^+ K^{*-}, K^{*-} \rightarrow K^-$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^- K^+ K^- \bar{n} p$)	175	166	1	177
177	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ \pi^+ \pi^- \pi^- D^{*0}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, D^{*0} \rightarrow D^0 \gamma, D^+ \rightarrow \pi^+ \pi^+ K^-,$ $D^0 \rightarrow e^+ \nu_e K^-$ ($e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- K^- \gamma$)	176	167	1	178
178	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu X_u^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, X_u^- \rightarrow \pi^0 \pi^-, D^+ \rightarrow \mu^+ \nu_\mu \bar{K}^0,$ $\bar{K}^0 \rightarrow K_S, K_S \rightarrow \pi^+ \pi^-$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \mu^+ \nu_\mu \nu_\mu \pi^+ \pi^- \pi^- \gamma \gamma$)	177	168	1	179
179	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}, D^- \rightarrow \mu^- \bar{\nu}_\mu, D^{*+} \rightarrow \pi^+ \bar{D}^0,$ $D^0 \rightarrow \pi^0 \pi^+ K^-$ ($e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ K^- \gamma \gamma$)	178	169	1	180
180	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow D^- \bar{\Delta}^- n, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \mu^- \bar{\nu}_\mu K^*, \bar{\Delta}^- \rightarrow \pi^+ \bar{n},$ $D^{*+} \rightarrow \pi^+ D^0, K^* \rightarrow \pi^- K^+, D^0 \rightarrow \pi^+ K^-$ ($e^+e^- \rightarrow \mu^- \mu^- \bar{\nu}_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- K^+ K^- n \bar{n}$)	179	170	1	181

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
181	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, D^- \rightarrow K_L \pi^+ \pi^- \pi^-, D^+ \rightarrow K_L a_1^+,$ $a_1^+ \rightarrow \rho^0 \pi^+, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^-)$	180	171	1	182
182	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, \bar{B}^0 \rightarrow e^- \bar{\nu}_e X_u^+, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D_0^{*+}, X_u^+ \rightarrow \pi^+ \pi^+ \pi^-, D_0^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow K_S K^+ K^-, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- e^- \bar{\nu}_e \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^+ K^-)$	181	54	1	183
183	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow \pi^- K_S, D^{*+} \rightarrow \pi^0 D^+,$ $K_S \rightarrow \pi^+ \pi^-, D^+ \rightarrow \pi^+ \pi^+ K^-$ $(e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- \gamma \gamma)$	182	5	1	184
184	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+ K^-, \bar{D}^{*-} \rightarrow \pi^- \bar{D}^0, \bar{D}^0 \rightarrow \rho^- K^{*+},$ $\rho^- \rightarrow \pi^0 \pi^-, K^{*+} \rightarrow \pi^0 K^+$ $(e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma \gamma)$	183	172	1	185
185	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D_1^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, D_1^- \rightarrow \pi^+ \pi^- D^-, D^+ \rightarrow \mu^+ \nu_\mu \pi^+ K^-,$ $D^- \rightarrow \pi^- \pi^- K^+$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^-)$	184	173	1	186
186	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, D^- \rightarrow \pi^+ \pi^- \pi^- \pi^- K^+, D^+ \rightarrow e^+ \nu_e \pi^+ K^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^-)$	185	174	1	187
187	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \pi^0 D^0, D^- \rightarrow e^- \bar{\nu}_e \pi^- K^+, D^0 \rightarrow K^- a_1^+,$ $a_1^+ \rightarrow \pi^+ \pi^+ \pi^-$ $(e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma)$	186	175	1	188
188	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow D^- \bar{n} p, \bar{B}^0 \rightarrow \pi^- D^{*+}, D^- \rightarrow \pi^+ \pi^- \pi^- \pi^- K^+, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow \pi^0 \pi^+ K^-$ $(e^+e^- \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^- \bar{n} p \gamma \gamma)$	187	176	1	189
189	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ n \bar{\Lambda}_c^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, \bar{\Lambda}_c^- \rightarrow \pi^- \bar{\Delta}^0, D^+ \rightarrow \pi^0 \pi^+ K_S,$ $\bar{\Delta}^0 \rightarrow \bar{n} \gamma, K_S \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- n \bar{n} \gamma \gamma \gamma)$	188	177	1	190
190	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^0 \pi^+ D^- n \bar{n}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu X_u^+, \rho^0 \rightarrow \pi^+ \pi^-, D^- \rightarrow K_L K_L K^-,$ $X_u^+ \rightarrow \rho^0 \pi^+, \rho^0 \rightarrow \pi^+ \pi^-$ $(e^+e^- \rightarrow \mu^- \bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- n \bar{n})$	189	178	1	191
191	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^0 \pi^+ \pi^- \bar{D}^0, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, \bar{D}^0 \rightarrow \pi^+ \pi^- \pi^- K^+, D^+ \rightarrow \pi^+ \pi^+ \pi^-$ $(e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma)$	190	179	1	192
192	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^+ \nu_\mu X_u^-, \bar{D}^{*-} \rightarrow \pi^0 D^-, X_u^- \rightarrow \pi^0 \pi^-,$ $D^- \rightarrow \pi^- \pi^- K^+$ $(e^+e^- \rightarrow e^+ \nu_e \mu^+ \nu_\mu \pi^- \pi^- \pi^- K^+ \gamma \gamma \gamma \gamma)$	191	143	1	193
193	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, D^- \rightarrow K_L K^-, D^{*+} \rightarrow \pi^+ D^0,$ $D^0 \rightarrow K^- a_1^+, a_1^+ \rightarrow \pi^+ f_0(600)$ $(e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ K^- K^- f_0(600))$	192	180	1	194

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
194	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^0\pi^+K^-, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, \rho^0 \rightarrow \pi^+\pi^-,$ $\bar{D}^0 \rightarrow \pi^0\pi^-K^+$ $(e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma\gamma)$	193	181	1	195
195	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^+\pi^-D^{*0}, D^- \rightarrow \pi^0\pi^-\pi^-K^+, D^{*0} \rightarrow D^0\gamma,$ $\bar{D}^0 \rightarrow K_L\pi^+\pi^-$ $(e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma)$	194	182	1	196
196	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^+D^0D_s^-, D^- \rightarrow \mu^-\bar{\nu}_\mu\pi^-K^+, D^0 \rightarrow \pi^+K^-,$ $D_s^- \rightarrow \mu^-\bar{\nu}_\mu\phi, \phi \rightarrow K^+K^-$ $(e^+e^- \rightarrow \mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+K^+K^+K^-K^-)$	195	183	1	197
197	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\pi^-\bar{D}^0, \bar{B}^0 \rightarrow \pi^0\rho^0\rho^0, \bar{D}^0 \rightarrow \mu^-\bar{\nu}_\mu K^+, \rho^0 \rightarrow \pi^+\pi^-,$ $\rho^0 \rightarrow \pi^+\pi^-$ $(e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma)$	196	184	1	198
198	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, B^0 \rightarrow e^-\bar{\nu}_e\pi^0 D^+, D^+ \rightarrow \mu^+\nu_\mu\pi^+K^-, D^+ \rightarrow \pi^+\pi^+K^-$ $(e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+K^-K^-\gamma\gamma)$	197	185	1	199
199	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+, D^- \rightarrow \pi^0\pi^-K_S, D^+ \rightarrow \mu^+\nu_\mu K^0,$ $K_S \rightarrow \pi^+\pi^-, \bar{K}^0 \rightarrow K_L$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu K_L\pi^+\pi^-\pi^-\gamma\gamma)$	198	186	1	200
200	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \bar{D}^{*-} \rightarrow \pi^-\bar{D}^0, D^{*+} \rightarrow \pi^+D^0,$ $\bar{D}^0 \rightarrow \pi^+\pi^+\pi^-\pi^-, D^0 \rightarrow \mu^+\nu_\mu K^-$ $(e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-)$	199	187	1	201
201	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_2^{*-}, \bar{B}^0 \rightarrow \pi^-D^+, D_2^{*-} \rightarrow \pi^-\bar{D}^0, D^+ \rightarrow e^+\nu_e\bar{K}^*,$ $\bar{D}^0 \rightarrow \pi^0\pi^-K^+, \bar{K}^* \rightarrow \pi^+K^-$ $(e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma\gamma)$	200	188	1	202
202	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow X_{sd}\gamma, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^+, X_{sd} \rightarrow \pi^0 K^*, D^+ \rightarrow \pi^0\pi^+\pi^+\pi^-,$ $K^* \rightarrow \pi^-K^+$ $(e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma\gamma\gamma)$	201	189	1	203

Table 2: Event initial-final states.

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
1	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma$	5	3	3
2	$e^+e^- \rightarrow e^+e^+e^-\nu_e\nu_e\bar{\nu}_eK_L\pi^+\pi^-\pi^-\pi^-K^+$	17	2	5
3	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-K^-\gamma\gamma$	27	2	7
4	$e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma$	36	2	9
5	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^-\pi^-K^+\gamma\gamma$	52	2	11
6	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-$	54	2	13
7	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma$	58	2	15
8	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma$	74	2	17
9	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^-$	88	2	19
10	$e^+e^- \rightarrow \mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^+\pi^-K^-$	99	2	21
11	$e^+e^- \rightarrow e^+\nu_e\mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-$	110	2	23
12	$e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu\pi^-\pi^-\pi^-K^+\gamma\gamma\gamma\gamma$	143	2	25
13	$e^+e^- \rightarrow e^+e^+e^-e^-\nu_e\nu_e\bar{\nu}_e\pi^+\pi^-K^+K^-$	12	1	26
14	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-p\bar{p}$	13	1	27
15	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^-$	14	1	28
16	$e^+e^- \rightarrow e^+\nu_e K_L\pi^+\pi^+\pi^-\pi^-K^+K^-K^-$	15	1	29
17	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^+K^-\gamma\gamma$	16	1	30
18	$e^+e^- \rightarrow \mu^+\mu^- K_L\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^-$	1	1	31
19	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e\mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^-K^+K^-$	18	1	32
20	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu K_L\pi^+K^-\gamma$	19	1	33
21	$e^+e^- \rightarrow \mu^+\nu_\mu K_L K_L\pi^+\pi^+\pi^-K^-K^-\gamma\gamma$	20	1	34
22	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^-\bar{n}p$	21	1	35
23	$e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^+\pi^-\pi^-K^-\bar{n}\bar{n}\gamma\gamma$	22	1	36
24	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-$	23	1	37
25	$e^+e^- \rightarrow K_L K_L\pi^+\pi^-\pi^-\pi^-K^+K^+K^+K^-\bar{n}\bar{n}$	24	1	38
26	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^-\pi^-\pi^-K^+p\bar{p}\gamma\gamma$	25	1	39
27	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^-K^+K^-K^-\gamma\gamma$	26	1	40
28	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-$	2	1	41
29	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^-K^+K^-$	28	1	42
30	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e K_L\pi^+\pi^-\pi^-K^-\gamma\gamma$	29	1	43
31	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^+K^-\gamma\gamma$	30	1	44
32	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-K^-\bar{n}p\gamma\gamma\gamma\gamma$	31	1	45
33	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+\pi^-\pi^-K^-$	32	1	46
34	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma$	33	1	47
35	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^+\pi^-K^-K^-\gamma\gamma$	34	1	48
36	$e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^+\pi^-K^-K^-\gamma\gamma\gamma\gamma$	35	1	49
37	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-K^-$	3	1	50
38	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^+K^-K^-\gamma\gamma$	37	1	51
39	$e^+e^- \rightarrow \mu^+\mu^- K_L K_L K_L \gamma\gamma\gamma\gamma\gamma\gamma$	38	1	52
40	$e^+e^- \rightarrow e^-\bar{\nu}_e K_L K_L \pi^+\pi^+\pi^-\gamma\gamma\gamma\gamma$	39	1	53

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
41	$e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-K^-K^-$	40	1	54
42	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L K_L\pi^+\pi^+\pi^-$	41	1	55
43	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-K^+\gamma\gamma\gamma$	42	1	56
44	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\pi^-\gamma\gamma$	43	1	57
45	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\pi^-K^+\bar{n}p\gamma\gamma$	44	1	58
46	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\pi^-K^+$	45	1	59
47	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-K^+K^-\gamma$	46	1	60
48	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma$	47	1	61
49	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-K^+K^-$	48	1	62
50	$e^+e^- \rightarrow \pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma\gamma\gamma\gamma$	49	1	63
51	$e^+e^- \rightarrow \mu^+\nu_\mu\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^-\pi^-\pi^-K^+\gamma\gamma$	50	1	64
52	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-\gamma\gamma$	51	1	65
53	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^+K^-K^-n\bar{p}\gamma\gamma$	4	1	66
54	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^+\pi^-K^-$	53	1	67
55	$e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu\pi^-\pi^-\pi^-K^+K^+\gamma\gamma$	0	1	68
56	$e^+e^- \rightarrow \mu^+\mu^+\mu^-\nu_\mu\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-\gamma\gamma$	55	1	69
57	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-K^+\gamma\gamma$	56	1	70
58	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu K_L K_L\pi^-\pi^-K^+$	57	1	71
59	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+\pi^-\pi^-$	6	1	72
60	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\nu_\mu K_L\pi^+\pi^-\pi^-K^+K^-$	59	1	73
61	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L K_L\pi^+\pi^-\gamma\gamma\gamma\gamma$	60	1	74
62	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-$	61	1	75
63	$e^+e^- \rightarrow \mu^+\nu_\mu K_L\pi^+\pi^-K^+K^-K^-\gamma\gamma\gamma\gamma$	62	1	76
64	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma$	63	1	77
65	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+\pi^-K^-f_0(600)$	64	1	78
66	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-f_0(600)\gamma$	65	1	79
67	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^-\pi^-K^+K^-p\bar{p}$	66	1	80
68	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-\pi^-\gamma\gamma\gamma\gamma$	67	1	81
69	$e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+n\bar{n}\gamma\gamma$	68	1	82
70	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\nu_\tau\bar{\nu}_\tau K_L\pi^+\pi^-\pi^-K^+K^+\gamma\gamma$	69	1	83
71	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+f_0(600)\gamma\gamma$	70	1	84
72	$e^+e^- \rightarrow \mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu K_L\pi^+\pi^+K^-\bar{n}p\gamma\gamma$	71	1	85
73	$e^+e^- \rightarrow \mu^+\mu^+\mu^-\nu_\mu\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^-\gamma\gamma$	72	1	86
74	$e^+e^- \rightarrow e^+e^+e^-e^-K_L K_L\pi^+\pi^-\gamma\gamma$	73	1	87
75	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^-$	7	1	88
76	$e^+e^- \rightarrow e^+e^-\pi^+\pi^+\pi^-\pi^-K^+K^+K^-K^-$	75	1	89
77	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\gamma\gamma$	76	1	90
78	$e^+e^- \rightarrow e^-\bar{\nu}_e K_L\pi^+\pi^+\pi^-K^+K^-n\bar{n}f_0(600)$	77	1	91
79	$e^+e^- \rightarrow \mu^+\nu_\mu K_L K_L\pi^+\pi^-\pi^-\gamma\gamma\gamma\gamma$	78	1	92
80	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma$	79	1	93

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
81	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L K_L \pi^+\pi^+ K^+ K^- K^- K^-$	80	1	94
82	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu \pi^+\pi^+\pi^+\pi^-\pi^- K^- K^-$	81	1	95
83	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu \pi^+\pi^+\pi^- K^+ K^- K^- \gamma\gamma$	82	1	96
84	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e\mu^-\bar{\nu}_\mu K_L \pi^+\pi^-\pi^- f_0(600)$	83	1	97
85	$e^+e^- \rightarrow \mu^+\mu^+\nu_\mu\nu_\mu \pi^+\pi^-\pi^-\pi^- K^+ n\bar{p}\gamma\gamma$	84	1	98
86	$e^+e^- \rightarrow e^+e^+e^-e^-\nu_e\bar{\nu}_e K_L \pi^+\pi^+\pi^- K^-$	85	1	99
87	$e^+e^- \rightarrow e^+\nu_e\nu_\tau\bar{\nu}_\tau K_L \pi^+\pi^+\pi^-\pi^-\pi^- \gamma\gamma$	86	1	100
88	$e^+e^- \rightarrow \mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu K_L \pi^+\pi^+\pi^+\pi^-\pi^-\pi^- K^+ \gamma\gamma$	87	1	101
89	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L \pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^- \pi^-$	8	1	102
90	$e^+e^- \rightarrow K_L K_L K_L \pi^+\pi^+\pi^+\pi^-\pi^-\pi^- K^+ K^-$	89	1	103
91	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\mu^+\nu_\mu\nu_\mu K_L \pi^+\pi^+\pi^- K^-$	90	1	104
92	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu \pi^+\pi^+\pi^-\pi^- K^+ K^- \gamma\gamma$	91	1	105
93	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu \pi^- K^+ \gamma\gamma$	92	1	106
94	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^- K^+ K^- \gamma\gamma$	93	1	107
95	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu \pi^+\pi^- K^+ K^- n\bar{p}\gamma\gamma\gamma\gamma$	94	1	108
96	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L \pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^- K^-$	95	1	109
97	$e^+e^- \rightarrow \mu^+\nu_\mu \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\pi^- K^+ K^- \gamma$	96	1	110
98	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e K_L \pi^+\pi^+\pi^+\pi^- K^-$	97	1	111
99	$e^+e^- \rightarrow K_L \pi^+\pi^+\pi^-\pi^-\pi^-\pi^- K^+ K^+ K^- n\bar{p}$	98	1	112
100	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu \pi^+\pi^- K^+ K^-$	9	1	113
101	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e \pi^+\pi^-\pi^- K^+ K^+ K^- \gamma\gamma$	100	1	114
102	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L K_L K^- \gamma\gamma$	101	1	115
103	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e \pi^+\pi^-\pi^- K^+ K^- n\bar{p}$	102	1	116
104	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\mu^+\nu_\mu\nu_\mu \pi^-\pi^- K^+ K^+ K^-$	103	1	117
105	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L K_L \pi^+\pi^+\pi^+\pi^-\pi^- \gamma\gamma\gamma\gamma$	104	1	118
106	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu \pi^+\pi^+ K^- K^-$	105	1	119
107	$e^+e^- \rightarrow \mu^+\mu^+\mu^-\nu_\mu\nu_\mu\bar{\nu}_\mu K_L K_L \pi^+ K^- K^-$	106	1	120
108	$e^+e^- \rightarrow \mu^+\nu_\mu K_L K_L \pi^+\pi^-\pi^-\pi^- K^+ \gamma\gamma$	107	1	121
109	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L \pi^+\pi^+\pi^- K^+ \gamma\gamma\gamma\gamma$	108	1	122
110	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L \pi^+\pi^+\pi^-\pi^- K^+ \gamma\gamma\gamma\gamma$	109	1	123
111	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu \pi^+\pi^+ K^+ K^- \gamma\gamma$	10	1	124
112	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L \pi^- K^+$	111	1	125
113	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu \pi^+\pi^+\pi^- K^- \gamma\gamma\gamma$	112	1	126
114	$e^+e^- \rightarrow e^+\nu_e K_L \pi^+\pi^+\pi^+\pi^-\pi^-\pi^- \gamma\gamma$	113	1	127
115	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu \pi^+\pi^+\pi^-\pi^-\pi^- K^+ K^+ \gamma\gamma\gamma\gamma$	114	1	128
116	$e^+e^- \rightarrow \mu^+\nu_\mu K_L \pi^+\pi^+\pi^+\pi^-\pi^-\pi^- n\bar{n}$	115	1	129
117	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu K_L K_L K_L \pi^+\pi^+\pi^- K^-$	116	1	130
118	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu \pi^+\pi^+\pi^+\pi^-\pi^-\pi^- \gamma\gamma$	117	1	131
119	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L \pi^+ K^-$	118	1	132
120	$e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu K_L \pi^-\pi^-\pi^- K^+ \gamma\gamma$	119	1	133

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
121	$e^+e^- \rightarrow e^+\nu_e\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma$	120	1	134
122	$e^+e^- \rightarrow e^+e^+e^-\nu_e\nu_e\bar{\nu}_e\mu^-\bar{\nu}_\mu K_L\pi^+\pi^-\pi^-K^+$	121	1	135
123	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma$	122	1	136
124	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+K^-\gamma\gamma$	123	1	137
125	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu\bar{\nu}_\mu\pi^+\pi^-K^+K^-$	124	1	138
126	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e\pi^+\pi^+\pi^-\pi^-\pi^-K^-K^-$	125	1	139
127	$e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma\gamma\gamma$	126	1	140
128	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^+\pi^-\pi^-K^+K^+K^-n\bar{p}\gamma\gamma$	127	1	141
129	$e^+e^- \rightarrow e^+\nu_e K_L\pi^+\pi^+\pi^-K^+K^-K^-K^-\gamma\gamma$	128	1	142
130	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-K^-f_0(600)\gamma\gamma$	129	1	143
131	$e^+e^- \rightarrow e^+e^+e^-\nu_e\nu_e\bar{\nu}_e K_L\pi^-\pi^-K^+\gamma\gamma$	130	1	144
132	$e^+e^- \rightarrow e^+e^-e^-\nu_e\bar{\nu}_e\bar{\nu}_e K_L\pi^+\pi^-K^+\gamma\gamma$	131	1	145
133	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-$	132	1	146
134	$e^+e^- \rightarrow e^+e^+\nu_e\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+K^-\gamma\gamma$	133	1	147
135	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-K^-\gamma\gamma\gamma\gamma$	134	1	148
136	$e^+e^- \rightarrow e^+\nu_e\mu^-\mu^-\bar{\nu}_\mu\bar{\nu}_\mu K_L\pi^+\pi^+\pi^-\gamma\gamma$	135	1	149
137	$e^+e^- \rightarrow e^+e^+e^-\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^-\pi^-K^+$	136	1	150
138	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu K_L K_L\pi^+\pi^+\pi^-\pi^-\pi^-$	137	1	151
139	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e K_L\pi^+\pi^+\gamma\gamma\gamma\gamma$	138	1	152
140	$e^+e^- \rightarrow e^+\nu_e K_L\pi^+\pi^+\pi^-\pi^-\pi^-f_0(600)\gamma\gamma$	139	1	153
141	$e^+e^- \rightarrow e^+e^-\pi^+\pi^+\pi^-\pi^-\pi^-K^+n\bar{p}$	140	1	154
142	$e^+e^- \rightarrow \mu^+\mu^+\nu_\mu\nu_\mu K_L\pi^+\pi^-\pi^-\pi^-\pi^-K^+f_0(600)$	141	1	155
143	$e^+e^- \rightarrow e^-\bar{\nu}_e K_L K_L\pi^+\pi^+\pi^-K^+K^-\gamma\gamma$	142	1	156
144	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu K_L\pi^+\pi^+\pi^-\pi^-f_0(600)\gamma\gamma$	11	1	157
145	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L\pi^+\pi^+\pi^-\pi^-K^+$	144	1	158
146	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^+K^-$	145	1	159
147	$e^+e^- \rightarrow e^+e^-K_L\pi^+\pi^+\pi^+\pi^-\pi^-K^-\gamma\gamma$	146	1	160
148	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\mu^+\nu_\mu\nu_\mu\pi^+\pi^-K^+K^-$	147	1	161
149	$e^+e^- \rightarrow e^+\nu_e\mu^+\mu^-\nu_\mu\bar{\nu}_\mu K_L\pi^+\pi^-K^+K^-K^-$	148	1	162
150	$e^+e^- \rightarrow \mu^+\mu^-\mu^-\nu_\mu\bar{\nu}_\mu\bar{\nu}_\mu K_L\pi^+\gamma\gamma$	149	1	163
151	$e^+e^- \rightarrow e^+\nu_e\mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^-\pi^-K^+K^+K^-K^-$	150	1	164
152	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-\gamma\gamma$	151	1	165
153	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-$	152	1	166
154	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e K_L\pi^+\pi^+\pi^+\pi^-\pi^-K^-n\bar{n}$	153	1	167
155	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu K_L\pi^+\pi^+\pi^+\pi^-\pi^-$	154	1	168
156	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K_L K_L\pi^+\pi^+\pi^+\pi^-\pi^-K^+K^-\gamma\gamma$	155	1	169
157	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-K^-\gamma\gamma\gamma\gamma$	156	1	170
158	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^-K^-\gamma\gamma\gamma\gamma$	157	1	171
159	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^+K^-$	158	1	172
160	$e^+e^- \rightarrow e^-e^-\bar{\nu}_e\bar{\nu}_e\mu^+\nu_\mu\pi^+\pi^+\pi^+\pi^-\pi^-K^-$	159	1	173

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
161	$e^+e^- \rightarrow e^+e^- K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \gamma \gamma$	160	1	174
162	$e^+e^- \rightarrow e^+e^+e^- \nu_e \mu^- \bar{\nu}_\mu K_L \pi^+ \pi^- \pi^- K^+$	161	1	175
163	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- K^- K^- f_0(600) f_0(600)$	162	1	176
164	$e^+e^- \rightarrow e^+ \nu_e K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^-$	163	1	177
165	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \bar{n} p \gamma \gamma$	164	1	178
166	$e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+$	165	1	179
167	$e^+e^- \rightarrow e^- \bar{\nu}_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^- K^+ K^- \bar{n} p$	166	1	180
168	$e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- K^- \gamma$	167	1	181
169	$e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \mu^+ \nu_\mu \nu_\mu \pi^+ \pi^- \pi^- \gamma \gamma$	168	1	182
170	$e^+e^- \rightarrow e^+e^- \nu_e \bar{\nu}_e \mu^- \bar{\nu}_\mu \pi^+ \pi^+ K^- \gamma \gamma$	169	1	183
171	$e^+e^- \rightarrow \mu^- \mu^- \bar{\nu}_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^- K^+ K^- n \bar{n}$	170	1	184
172	$e^+e^- \rightarrow e^+ \nu_e \mu^- \bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^- \pi^- \pi^-$	171	1	185
173	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma \gamma \gamma$	172	1	186
174	$e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \mu^+ \nu_\mu \nu_\mu \pi^+ \pi^+ \pi^- \pi^- K^+ K^-$	173	1	187
175	$e^+e^- \rightarrow e^+e^- \nu_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- K^+ K^-$	174	1	188
176	$e^+e^- \rightarrow e^+e^- \nu_e \bar{\nu}_e \pi^+ \pi^+ \pi^- \pi^- K^+ K^- \gamma \gamma$	175	1	189
177	$e^+e^- \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ K^- \bar{n} p \gamma \gamma$	176	1	190
178	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- n \bar{n} \gamma \gamma \gamma$	177	1	191
179	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu K_L K_L \pi^+ \pi^+ \pi^+ \pi^- \pi^- K^- n \bar{n}$	178	1	192
180	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma$	179	1	193
181	$e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu K_L \pi^+ \pi^+ K^- K^- f_0(600)$	180	1	194
182	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$	181	1	195
183	$e^+e^- \rightarrow \mu^+ \nu_\mu K_L \pi^+ \pi^+ \pi^- \pi^- \pi^- \pi^- K^+ \gamma \gamma \gamma$	182	1	196
184	$e^+e^- \rightarrow \mu^+ \mu^- \mu^- \nu_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^- K^+ K^+ K^- K^-$	183	1	197
185	$e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- K^+ \gamma \gamma$	184	1	198
186	$e^+e^- \rightarrow e^- e^- \bar{\nu}_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^+ K^- K^- \gamma \gamma$	185	1	199
187	$e^+e^- \rightarrow e^+e^- \nu_e \bar{\nu}_e \mu^+ \nu_\mu K_L \pi^+ \pi^- \pi^- \gamma \gamma$	186	1	200
188	$e^+e^- \rightarrow e^+e^- \nu_e \bar{\nu}_e \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- K^-$	187	1	201
189	$e^+e^- \rightarrow e^+ \nu_e \mu^+ \nu_\mu \pi^+ \pi^- \pi^- \pi^- K^+ K^- \gamma \gamma$	188	1	202
190	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^+ \pi^- \pi^- K^+ \gamma \gamma \gamma \gamma$	189	1	203