

Topology Analysis ^{*}

(v1.5)

Xingyu Zhou [†]
Beihang University

November 20, 2018

^{*}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.

[†]Email: zhouxu@buaa.edu.cn

List of Tables

1	Event trees and their respective initial-final states.	3
2	Event initial-final states.	15

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

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
1	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\rho^0\pi^+\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+D^0D_s^{*-}$ ($e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+\pi^+\bar{D}^{*-}D^0D_s^{*-}$)	0	0	1	1
2	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-K^{*+}J/\psi, \bar{B}^0 \rightarrow \pi^0\pi^-D^{*+}$ ($e^+e^- \rightarrow \pi^0\pi^-\pi^-K^{*+}D^{*+}J/\psi$)	1	1	1	2
3	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^{*+}\bar{D}^{*-}D^{*0}, \bar{B}^0 \rightarrow \pi^0\rho^0\rho^-\eta D^+$ ($e^+e^- \rightarrow \pi^0\rho^0\rho^-\eta K^{*+}D^+\bar{D}^{*-}D^{*0}$)	2	2	1	3
4	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-}a_1^+, \bar{B}^0 \rightarrow \pi^+\pi^+\pi^-\pi^-\pi^-D^{*+}$ ($e^+e^- \rightarrow \pi^+\pi^+\pi^-\pi^-\pi^-D^{*+}\bar{D}^{*-}a_1^+$)	3	3	1	4
5	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^-D_{s1}^{*+}, \bar{B}^0 \rightarrow \pi^0\rho^+\omega\bar{D}^{*-}$ ($e^+e^- \rightarrow \pi^0\rho^+\omega D^-\bar{D}^{*-}D_{s1}^{*+}$)	4	4	1	5
6	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+\pi^-D^+D_s^-$ ($e^+e^- \rightarrow e^+\nu_e\pi^+\pi^-D^+\bar{D}^{*-}D_s^-$)	5	5	1	6
7	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\pi^+\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0K^*K^-D^+$ ($e^+e^- \rightarrow \pi^0\pi^0\pi^0\pi^+K^*K^-D^+\bar{D}^{*-}$)	6	6	1	7
8	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^+\eta\eta D^-$ ($e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\pi^+\eta\eta D^-\bar{D}^{*-}$)	7	7	1	8
9	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\pi^+\pi^-\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0\pi^+\pi^+\pi^-\bar{D}^{*-}D^{*+}$)	8	8	1	9
10	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0D^-D^{*+}, \bar{B}^0 \rightarrow D^{*+}D_s^{*-}$ ($e^+e^- \rightarrow K^0D^-D^{*+}D^{*+}D_s^{*-}$)	9	9	1	10
11	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^0K^0K^{*-}D^+$ ($e^+e^- \rightarrow \mu^+\nu_\mu\rho^0K^0K^{*-}D^+\bar{D}^{*-}$)	10	10	1	11
12	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^-K^+J/\psi, \bar{B}^0 \rightarrow D^+D_s^{*-}$ ($e^+e^- \rightarrow \rho^-K^+D^+D_s^{*-}J/\psi$)	11	11	1	12
13	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-K^0\bar{D}^0\bar{D}^0, \bar{B}^0 \rightarrow \pi^0\pi^+\rho^-\rho^-D^+$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\rho^-\rho^-K^0D^+D^0\bar{D}^0$)	12	12	1	13
14	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\eta\bar{D}^{*-}, \bar{B}^0 \rightarrow K^0K^{*-}D^{*+}$ ($e^+e^- \rightarrow \pi^+\eta K^0K^{*-}D^{*+}\bar{D}^{*-}$)	13	13	1	14
15	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+D^-, \bar{B}^0 \rightarrow \pi^-K^+K^-D^{*+}$ ($e^+e^- \rightarrow \pi^-\rho^+K^+K^-D^-D^{*+}$)	14	14	1	15
16	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\pi^+\eta\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^0\pi^0\pi^+\eta\bar{D}^{*-}D^{*+}$)	15	15	1	16
17	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^+K^{*-}D^0\bar{D}^{*0}$ ($e^+e^- \rightarrow e^+\nu_e\pi^0\pi^+K^{*-}D^0\bar{D}^{*0}$)	16	16	1	17

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
18	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^*D^-D^{*+}, \bar{B}^0 \rightarrow \pi^0\eta\bar{K}^0K^-D_s^+$ ($e^+e^- \rightarrow \pi^0\eta\bar{K}^0K^*K^-D^-D^{*+}D_s^+$)	17	17	1	18
19	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-}D_s^{*+}, \bar{B}^0 \rightarrow e^-\bar{\nu}_eD^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_eD^{*+}\bar{D}^{*-}D_s^{*+}$)	18	18	1	19
20	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_2^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^+\pi^-\rho^-\bar{D}^{*0}$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^+\pi^-\rho^-\bar{D}_2^{*-}\bar{D}^{*0}$)	19	19	1	20
21	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}, \bar{B}^0 \rightarrow \pi^0\bar{K}^*K^+K^-$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0\bar{K}^*K^+K^-D^{*+}$)	20	20	1	21
22	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^+\omega K^0K^{*-}\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_eD^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^+\omega K^0K^{*-}D^{*+}\bar{D}^{*-}$)	21	21	1	22
23	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-}D_s^{*+}, \bar{B}^0 \rightarrow \pi^0\pi^0\rho^-\eta\omega D^{*+}$ ($e^+e^- \rightarrow \pi^0\pi^0\rho^-\eta\omega D^{*+}\bar{D}^{*-}D_s^{*+}$)	22	22	1	23
24	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^*D^+D^{*-}, \bar{B}^0 \rightarrow \pi^+\pi^-\rho^-\omega K^{*+}$ ($e^+e^- \rightarrow \pi^+\pi^-\rho^-\omega K^*K^{*+}D^+\bar{D}^{*-}$)	23	23	1	24
25	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\rho^0\pi^-\rho^+\rho^+\eta D^-, \bar{B}^0 \rightarrow \pi^+\bar{K}^*\bar{D}^{*-}D^0$ ($e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^-\rho^+\rho^+\eta\bar{K}^*D^-\bar{D}^{*-}D^0$)	24	24	1	25
26	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0\bar{D}^0D^{*0}, \bar{B}^0 \rightarrow \pi^0\pi^-\omega D^+$ ($e^+e^- \rightarrow \pi^0\pi^-\omega K^0D^+\bar{D}^0D^{*0}$)	25	25	1	26
27	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^+\nu_\mu D^-$ ($e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu D^-\bar{D}^{*-}$)	26	26	1	27
28	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D_1^+$ ($e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\bar{D}^{*-}D_1^+$)	27	27	1	28
29	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau\bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^-D^+$ ($e^+e^- \rightarrow \tau^+\nu_\tau\rho^-D^+\bar{D}^{*-}$)	28	28	1	29
30	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \pi^+\pi^-\rho^-D^+, \bar{B}^0 \rightarrow \pi^+\rho^-\rho^-D^+$ ($e^+e^- \rightarrow \pi^+\pi^+\pi^-\rho^-\rho^-\rho^-D^+D^+$)	29	29	1	30
31	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_1^-, \bar{B}^0 \rightarrow \bar{K}_1^0\gamma$ ($e^+e^- \rightarrow \mu^+\nu_\mu\bar{K}_1^0D_1^-\gamma$)	30	30	1	31
32	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-K^+D^{*+}\bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^0\rho^-\eta\omega D^+$ ($e^+e^- \rightarrow \rho^0\pi^-\rho^-\eta\omega K^+D^+D^{*+}\bar{D}^{*-}$)	31	31	1	32
33	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^-D_s^+, \bar{B}^0 \rightarrow \pi^0\pi^0\rho^0\pi^+\pi^-\pi^-D^+$ ($e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+\pi^-\pi^-D^+D^-D_s^+$)	32	32	1	33
34	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau D_0^{*-}, \bar{B}^0 \rightarrow \rho^+\eta\omega\bar{D}^{*-}$ ($e^+e^- \rightarrow \tau^+\nu_\tau\rho^+\eta\omega\bar{D}^{*-}D_0^{*-}$)	33	33	1	34
35	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-}\Delta^0\Delta^+, \bar{B}^0 \rightarrow K^*\chi_{c1}$ ($e^+e^- \rightarrow \bar{K}^*\bar{D}^{*-}\bar{\Delta}^0\Delta^+\chi_{c1}$)	34	34	1	35

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
36	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^0\bar{p}\Delta^+, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D_1^+$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\bar{D}^0\bar{p}\Delta^+ D_1^+$)	35	35	1	36
37	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D^-, \bar{B}^0 \rightarrow \pi^0\pi^- D^{*+}$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^- D^- D^{*+}$)	36	36	1	37
38	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \eta D^+ p\Delta^{++}, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-\rho^- D^+$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^-\rho^- \eta D^+ D^+ p\Delta^{++}$)	37	37	1	38
39	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \pi^- D^+, \bar{B}^0 \rightarrow \pi^0\pi^0 K^* K^{*-} D^+$ ($e^+e^- \rightarrow \pi^0\pi^0\pi^- K^* K^{*-} D^+ D^+$)	38	38	1	39
40	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, B^0 \rightarrow \rho^0\pi^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^- D^{*+} \gamma$ ($e^+e^- \rightarrow \rho^0\pi^+ \rho^- D^{*+} \bar{D}^{*-} \gamma$)	39	39	1	40
41	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu \pi^0 \pi^0 D^{*+}$ ($e^+e^- \rightarrow \mu^- \mu^- \bar{\nu}_\mu \bar{\nu}_\mu \pi^0 \pi^0 D^{*+} D^{*+}$)	40	40	1	41
42	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^- \omega D^{*+}$ ($e^+e^- \rightarrow \mu^+\nu_\mu \pi^- \omega D^{*+} \bar{D}^{*-}$)	41	41	1	42
43	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \pi^+ K^- \eta_c(2S), \bar{B}^0 \rightarrow \pi^0\pi^+\pi^- D^+ \Sigma^- \bar{\Sigma}^0$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^- K^- D^+ \Sigma^- \bar{\Sigma}^0 \eta_c(2S)$)	42	42	1	43
44	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \eta D^- D_s^+, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e \eta D^- D^{*+} D_s^+$)	43	43	1	44
45	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \omega K^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow D^{*+} D_s^-$ ($e^+e^- \rightarrow \omega K^+ D^{*+} \bar{D}^{*-} D_s^-$)	44	44	1	45
46	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \eta \bar{D}^{*-} D_s^+, \bar{B}^0 \rightarrow \pi^0\pi^- \rho^+ K^0 K^+ D^-$ ($e^+e^- \rightarrow \pi^0\pi^- \rho^+ \eta \bar{K}^0 K^+ D^- \bar{D}^{*-} D_s^+$)	45	45	1	46
47	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\pi^+\pi^-\rho^- \eta \eta K^0 K^+ D^-, \bar{B}^0 \rightarrow \pi^0\rho^0\pi^- D^{*+}$ ($e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+\pi^+\pi^-\rho^- \eta \eta \bar{K}^0 K^+ D^- D^{*+}$)	46	46	1	47
48	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\rho^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+ K^- D^+ D^-$ ($e^+e^- \rightarrow \rho^0\pi^+\rho^+ K^- D^+ D^- \bar{D}^{*-}$)	47	47	1	48
49	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\rho^+ D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+$ ($e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \rho^0\rho^+ D^+ D^-$)	48	48	1	49
50	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\rho^+ \eta D^-, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+\pi^-\rho^+ \eta D^- D^{*+}$)	49	49	1	50
51	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e \eta D^-, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^+\pi^- \bar{D}^{*-}$ ($e^+e^- \rightarrow e^+\nu_e \pi^0\pi^+\pi^+\pi^- \eta D^- \bar{D}^{*-}$)	50	50	1	51
52	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\pi^+\rho^- D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^+$ ($e^+e^- \rightarrow e^-\bar{\nu}_e \pi^0\pi^+\pi^+\rho^- D^+ D^-$)	51	51	1	52
53	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\pi^+\pi^+\pi^- \omega D^-, \bar{B}^0 \rightarrow \rho^+\rho^- D^{*0}$ ($e^+e^- \rightarrow \rho^0\pi^+\pi^+\pi^-\rho^+\rho^- \omega D^- D^{*0}$)	52	52	1	53

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
54	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^- \bar{D}^0 D_s^+, \bar{B}^0 \rightarrow D^{*+} D_s^{*-}$ ($e^+e^- \rightarrow \pi^- D^{*+} \bar{D}^0 D_s^+ D_s^{*-}$)	53	53	1	54
55	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-} a_1^+, \bar{B}^0 \rightarrow \pi^0 \rho^0 \rho^0 \rho^- D^+$ ($e^+e^- \rightarrow \pi^0 \rho^0 \rho^0 \rho^- D^+ \bar{D}^{*-} a_1^+$)	54	54	1	55
56	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 \Delta^+ \Xi_c^{*-}, \bar{B}^0 \rightarrow \pi^0 \pi^+ D^0 D_s^{*-}$ ($e^+e^- \rightarrow \pi^0 \pi^0 \pi^+ D^0 D_s^{*-} \Delta^+ \Xi_c^{*-}$)	55	55	1	56
57	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \Delta^+ \Sigma_c^+$ ($e^+e^- \rightarrow e^+ \nu_e \pi^0 \bar{D}^{*-} \Delta^+ \Sigma_c^+$)	56	56	1	57
58	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0 \pi^+ \pi^- D^{*0}, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \rho^0 \pi^+ \pi^- D^{*+} \bar{D}^{*0}$)	57	57	1	58
59	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow D^+ \Delta^0 \bar{\Delta}^+, \bar{B}^0 \rightarrow \pi^0 \rho^0 \pi^+ \pi^- \eta \eta$ ($e^+e^- \rightarrow \pi^0 \rho^0 \pi^+ \pi^- \eta \eta D^+ \Delta^0 \bar{\Delta}^+$)	58	58	1	59
60	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 \pi^+ \pi^+ \pi^- \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \pi^0 \pi^0 \rho^0 \rho^0 \pi^+ \pi^- \pi^- D^{*+}$ ($e^+e^- \rightarrow \pi^0 \pi^0 \pi^0 \pi^0 \rho^0 \rho^0 \pi^+ \pi^+ \pi^- \pi^- \pi^- D^{*+} \bar{D}^{*-}$)	59	59	1	60
61	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 \pi^+ \omega \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^- \bar{K}^0 D^+ \bar{D}^{*0}$ ($e^+e^- \rightarrow \pi^0 \pi^+ \pi^- \omega \bar{K}^0 D^+ \bar{D}^{*-} \bar{D}^{*0}$)	60	60	1	61
62	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+ \bar{K}^* \bar{D}^{*-} D^0$ ($e^+e^- \rightarrow e^+ \nu_e \pi^+ \bar{K}^* \bar{D}^{*-} \bar{D}^{*-} D^0$)	61	61	1	62
63	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-} a_1^+, \bar{B}^0 \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^- D^- \Delta^+ \Delta^+$ ($e^+e^- \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^- D^- \bar{D}^{*-} \Delta^+ \bar{\Delta}^+ a_1^+$)	62	62	1	63
64	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+ \pi^- \eta \bar{D}^0, \bar{B}^0 \rightarrow \pi^- \pi^- \pi^- \rho^+ \rho^+ \omega D^{*+}$ ($e^+e^- \rightarrow \pi^+ \pi^- \pi^- \pi^- \pi^- \rho^+ \rho^+ \eta \omega D^{*+} \bar{D}^0$)	63	63	1	64
65	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0 \pi^+ K^- K^{*+} \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \pi^0 \rho^0 \rho^0 \pi^- D^+$ ($e^+e^- \rightarrow \pi^0 \pi^0 \rho^0 \rho^0 \rho^0 \pi^+ \pi^- K^- K^{*+} D^+ \bar{D}^{*-}$)	64	64	1	65
66	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+ \nu_e D^-, \bar{B}^0 \rightarrow \pi^0 \pi^0 \pi^+ \pi^- \pi^- D^{*+} p \bar{p}$ ($e^+e^- \rightarrow e^+ \nu_e \pi^0 \pi^0 \pi^+ \pi^- \pi^- D^- D^{*+} p \bar{p}$)	65	65	1	66
67	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D_0^{*-}, \bar{B}^0 \rightarrow \tau^- \bar{\nu}_\tau D^{*+}$ ($e^+e^- \rightarrow \mu^+ \nu_\mu \tau^- \bar{\nu}_\tau D^{*+} D_0^{*-}$)	66	66	1	67
68	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+ \omega \omega \bar{D}^{*-}, \bar{B}^0 \rightarrow \eta D^+ D_s^{*-}$ ($e^+e^- \rightarrow \pi^+ \eta \omega \omega D^+ \bar{D}^{*-} D_s^{*-}$)	67	67	1	68
69	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+, \bar{B}^0 \rightarrow \rho^0 \rho^- \eta D^{*+}$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \rho^0 \rho^- \eta D^+ D^{*+}$)	68	68	1	69
70	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+ D^-, \bar{B}^0 \rightarrow \rho^- D^{*+}$ ($e^+e^- \rightarrow \rho^+ \rho^- D^- D^{*+}$)	69	69	1	70
71	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^- K^+ D^0 \bar{D}^0, \bar{B}^0 \rightarrow K^{*-} D^+$ ($e^+e^- \rightarrow \pi^- K^+ K^{*-} D^+ D^0 \bar{D}^0$)	70	70	1	71

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
72	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\pi^+\rho^+\rho^-D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_eD^+$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^0\pi^0\pi^+\rho^+\rho^-D^+D^-$)	71	71	1	72
73	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^*n\Sigma_c^{*0}, \bar{B}^0 \rightarrow \pi^-D^+$ ($e^+e^- \rightarrow \pi^-K^*D^+n\bar{\Sigma}_c^{*0}$)	72	72	1	73
74	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^-\pi^-D^{*+}\bar{n}\Delta^+$ ($e^+e^- \rightarrow e^+\nu_e\pi^-\pi^-D^{*+}\bar{D}^{*-}\bar{n}\Delta^+$)	73	73	1	74
75	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^{*+}\bar{D}^{*-}D^0, \bar{B}^0 \rightarrow D^{*+}D_{s0}^{*-}$ ($e^+e^- \rightarrow K^{*+}D^{*+}\bar{D}^{*-}D^0D_{s0}^{*-}$)	74	74	1	75
76	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-\rho^+\bar{D}^{*-}D^{*0}$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^+\pi^-\rho^+\bar{D}^{*-}\bar{D}^{*-}D^{*0}$)	75	75	1	76
77	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\rho^+\omega\omega D^-, \bar{B}^0 \rightarrow K^-D^{*+}\bar{D}^{*0}$ ($e^+e^- \rightarrow \pi^0\rho^+\omega\omega K^-D^-D^{*+}\bar{D}^{*0}$)	76	76	1	77
78	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^-\bar{\nu}_eD^{*+}, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-\rho^-\omega K^0D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^0\pi^+\pi^-\rho^-\omega\bar{K}^0D^{*+}D^{*+}$)	77	77	1	78
79	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\eta D^-, \bar{B}^0 \rightarrow \rho^0\pi^-D^{*+}$ ($e^+e^- \rightarrow e^+\nu_e\rho^0\pi^-\eta D^-D^{*+}$)	78	78	1	79
80	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\pi^+\pi^-\rho^+\eta\eta\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\rho^0\pi^+\pi^-\rho^+\eta\eta D^{*+}\bar{D}^{*-}$)	79	79	1	80
81	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau D_0^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^-\omega K^0\bar{K}^0\bar{K}^*D^{*+}$ ($e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\pi^-\omega K^0\bar{K}^0\bar{K}^*D^{*+}D_0^{*-}$)	80	80	1	81
82	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^-a_1^+, \bar{B}^0 \rightarrow \pi^+\pi^-D^+D_s^{*-}$ ($e^+e^- \rightarrow \pi^+\pi^-D^+D^-D_s^{*-}a_1^+$)	81	81	1	82
83	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+\eta\omega D^-, \bar{B}^0 \rightarrow \pi^+D^0D_s^-$ ($e^+e^- \rightarrow \pi^+\rho^+\eta\omega D^-D^0D_s^-$)	82	82	1	83
84	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+K^0D^-, \bar{B}^0 \rightarrow \pi^+\pi^+\pi^-\pi^-\pi^-D^{*+}$ ($e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^0D^-D^{*+}$)	83	83	1	84
85	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\rho^-\bar{D}^{*0}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e\eta D^+$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^0\pi^+\rho^-\eta D^+\bar{D}^{*0}$)	84	84	1	85
86	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \eta'D^+\bar{D}^{*-}, \bar{B}^0 \rightarrow \omega\bar{D}^{*-}\bar{n}p$ ($e^+e^- \rightarrow \omega\eta'D^+\bar{D}^{*-}\bar{D}^{*-}\bar{n}p$)	85	85	1	86
87	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\rho^+D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_eD_2^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^-\rho^+D^-D_2^{*+}$)	86	86	1	87
88	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\pi^+\eta D^-, \bar{B}^0 \rightarrow \pi^-\rho^+K^0K^{*-}D^+$ ($e^+e^- \rightarrow \rho^0\pi^+\pi^-\rho^+\eta K^0K^{*-}D^+D^-$)	87	87	1	88
89	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0p\Sigma_c^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D_0^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\rho^0p\Sigma_c^{*-}D_0^{*+}$)	88	88	1	89

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
90	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^-\pi^-D^+\bar{n}p$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^-\pi^-D^+\bar{D}^{*-}\bar{n}p$)	89	89	1	90
91	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\pi^-\rho^+D^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0\pi^+\pi^-\rho^+D^-D^{*+}$)	90	90	1	91
92	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-K^{*+}J/\psi, \bar{B}^0 \rightarrow \pi^0\pi^+K^-\eta_c(2S)$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^-K^-K^{*+}J/\psi\eta_c(2S)$)	91	91	1	92
93	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow K^0\psi', B^0 \rightarrow \pi^-\rho^+\rho^-D^+$ ($e^+e^- \rightarrow \pi^-\rho^+\rho^-K^0D^+\psi'$)	92	92	1	93
94	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\rho^+\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^-K^0D^+$ ($e^+e^- \rightarrow \rho^0\pi^-\rho^+K^0D^+\bar{D}^{*-}$)	93	93	1	94
95	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+\omega D^-, \bar{B}^0 \rightarrow \pi^0\omega K^0K^-D^+$ ($e^+e^- \rightarrow \pi^0\rho^+\omega K^0K^-D^+D^-$)	94	94	1	95
96	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e D^{*+}\bar{D}^{*-}$)	95	95	1	96
97	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^{*+}\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^-D^{*+}\Delta^+\bar{\Delta}^+$ ($e^+e^- \rightarrow \pi^0\pi^-K^{*+}D^{*+}\bar{D}^{*-}\Delta^+\bar{\Delta}^+$)	96	96	1	97
98	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D_2^{*-}D_s^{*+}, \bar{B}^0 \rightarrow \pi^+\pi^-D^+D_s^-$ ($e^+e^- \rightarrow \pi^+\pi^-D^+D_2^{*-}D_s^-D_s^{*+}$)	97	97	1	98
99	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K_L\eta_c, \bar{B}^0 \rightarrow \pi^-\pi^-\rho^+D^{*+}$ ($e^+e^- \rightarrow K_L\pi^-\pi^-\rho^+D^{*+}\eta_c$)	98	98	1	99
100	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\rho^0\pi^+\bar{D}^{*-}, \bar{B}^0 \rightarrow K^*K^-D^+$ ($e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+K^*K^-D^+\bar{D}^{*-}$)	99	99	1	100
101	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\rho^-\eta\bar{D}^0, \bar{B}^0 \rightarrow \pi^-\rho^+\rho^-D^+$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^-\rho^+\rho^-\eta D^+\bar{D}^0$)	100	100	1	101
102	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\eta\omega\bar{D}^0, \bar{B}^0 \rightarrow \pi^+\pi^-D^+D_s^-$ ($e^+e^- \rightarrow \pi^0\pi^0\pi^+\pi^-\eta\omega D^+\bar{D}^0D_s^-$)	101	101	1	102
103	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\rho^+\omega\omega D^-, \bar{B}^0 \rightarrow \pi^0\pi^0\rho^0\pi^-\pi^-\rho^+D^{*+}$ ($e^+e^- \rightarrow \pi^0\pi^0\pi^0\rho^0\pi^-\pi^-\rho^+\rho^+\omega\omega D^-D^{*+}$)	102	102	1	103
104	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^-D_s^{*+}, \bar{B}^0 \rightarrow \rho^0\pi^-\rho^+D^0$ ($e^+e^- \rightarrow \rho^0\pi^-\rho^+D^-D^0D_s^{*+}$)	103	103	1	104
105	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\rho^0\pi^+\pi^+\pi^-\omega D^-, \bar{B}^0 \rightarrow \pi^+D^{*0}D_s^-$ ($e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^+\pi^-\omega D^-D^{*0}D_s^-$)	104	104	1	105
106	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+K^+K^-\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\rho^+K^+K^-\bar{D}^{*-}$)	105	105	1	106
107	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0J/\psi, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-\pi^-D^{*+}$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^-\pi^-K^0D^{*+}J/\psi$)	106	106	1	107

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
108	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\pi^+\rho^-\bar{D}^{*0}, \bar{B}^0 \rightarrow \rho^-\eta\omega\omega D^{*+}$ ($e^+e^- \rightarrow \pi^0\pi^0\pi^+\rho^-\rho^-\eta\omega\omega D^{*+}\bar{D}^{*0}$)	107	107	1	108
109	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\bar{D}^{*0}, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-\rho^-D^+$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\pi^-\rho^-D^+\bar{D}^{*0}$)	108	108	1	109
110	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \rho^0\pi^-D^{*+}, \bar{B}^0 \rightarrow \bar{K}^0\bar{\Sigma}^{*0}\Sigma_c^{*0}$ ($e^+e^- \rightarrow \rho^0\pi^-\bar{K}^0D^{*+}\bar{\Sigma}^{*0}\Sigma_c^{*0}$)	109	109	1	110
111	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow D^{*+}D_s^{*-}, \bar{B}^0 \rightarrow \rho^0\pi^+\Delta^{++}\Lambda_c^+$ ($e^+e^- \rightarrow \rho^0\pi^+D^{*+}D_s^{*-}\bar{\Delta}^{++}\Lambda_c^+$)	110	110	1	111
112	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D_2^{*-}, \bar{B}^0 \rightarrow \rho^-D^{*+}$ ($e^+e^- \rightarrow e^+\nu_e\rho^-D^{*+}D_2^{*-}$)	111	111	1	112
113	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow D_s^{*+}\bar{\Delta}^+\Lambda$ ($e^+e^- \rightarrow e^+\nu_e D^-D_s^{*+}\bar{\Delta}^+\Lambda$)	112	112	1	113
114	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\pi^+\pi^-\bar{D}^{*-}, \bar{B}^0 \rightarrow K^-D^{*+}\bar{D}^{*0}$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-K^-D^{*+}\bar{D}^{*-}\bar{D}^{*0}$)	113	113	1	114
115	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-}D_{s1}^{'+}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e D^{*+}\bar{D}^{*-}D_{s1}^{'+}$)	114	114	1	115
116	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, B^0 \rightarrow D^{*+}D_s^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D_1^{'+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu D^{*+}D_s^{*-}D_1^{'+}$)	115	115	1	116
117	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\eta\bar{K}^0K^*D^-, \bar{B}^0 \rightarrow D^{*+}D_s^{*-}$ ($e^+e^- \rightarrow \pi^0\pi^+\eta\bar{K}^0K^*D^-D^{*+}D_s^{*-}$)	116	116	1	117
118	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^-\eta\bar{K}^0K^+\bar{D}^{*0}, \bar{B}^0 \rightarrow \pi^-\eta D^{*+}$ ($e^+e^- \rightarrow \pi^-\rho^-\eta\eta\bar{K}^0K^+\bar{D}^{*0}$)	117	117	1	118
119	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^0\bar{D}^0, \bar{B}^0 \rightarrow \pi^0\rho^0\rho^+\omega D^-$ ($e^+e^- \rightarrow \pi^0\pi^0\pi^0\rho^0\rho^+\omega D^-\bar{D}^0$)	118	118	1	119
120	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^0D^{*+}\bar{D}^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K^0D^{*+}D^{*+}\bar{D}^{*-}$)	119	119	1	120
121	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\mu^-\bar{\nu}_\mu D^{*+}D^{*+}$)	120	120	1	121
122	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+\pi^-\omega D^{*0}$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\omega\bar{D}^{*-}D^{*0}$)	121	121	1	122
123	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu D^{*+}\bar{D}^{*-}$)	122	122	1	123
124	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \tau^+\nu_\tau\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\omega K^{*-}D_s^+$ ($e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\omega K^{*-}\bar{D}^{*-}D_s^+$)	123	123	1	124
125	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^-\bar{K}^0K^+\bar{D}^{*0}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^-\bar{K}^0K^+D^+\bar{D}^{*0}$)	124	124	1	125

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
126	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_1'^-, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu D^{*+} D_1'^-$)	125	125	1	126
127	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^+\pi^-\bar{D}^{*-}, \bar{B}^0 \rightarrow D_2^{*+} D_s^-$ ($e^+e^- \rightarrow \pi^0\pi^+\pi^-\bar{D}^{*-} D_2^{*+} D_s^-$)	126	126	1	127
128	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}, \bar{B}^0 \rightarrow \bar{K}^* D^+ D^-$ ($e^+e^- \rightarrow e^-\bar{\nu}_e \bar{K}^* D^+ D^- D^{*+}$)	127	127	1	128
129	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D_1'^-, \bar{B}^0 \rightarrow \pi^+ D^0 D_s^-$ ($e^+e^- \rightarrow e^+\nu_e \pi^+ D^0 D_s^- D_1'^-$)	128	128	1	129
130	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-} a_1^+, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e \bar{D}^{*-} a_1^+ D^{*+}$)	129	129	1	130
131	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \eta \bar{K}^0 K^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^- \eta D^+$ ($e^+e^- \rightarrow \rho^- \eta \eta \bar{K}^0 K^+ D^+ \bar{D}^{*-}$)	130	130	1	131
132	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0\bar{B}^0, \bar{B}^0 \rightarrow \rho^- D^+, \bar{B}^0 \rightarrow \rho^0 \pi^- \omega D^+$ ($e^+e^- \rightarrow \rho^0 \pi^- \rho^- \omega D^+ D^+$)	131	131	1	132
133	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-} D_s^+, \bar{B}^0 \rightarrow e^+\nu_e D_2^{*-}$ ($e^+e^- \rightarrow e^+\nu_e \bar{D}^{*-} D_2^{*-} D_s^+$)	132	132	1	133
134	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\rho^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow D_2^{*+} D_s^-$ ($e^+e^- \rightarrow \pi^+\pi^-\rho^+ \bar{D}^{*-} D_2^{*+} D_s^-$)	133	133	1	134
135	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 \omega K^+ D_s^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu \pi^0 \omega K^+ D^{*+} D_s^{*-}$)	134	134	1	135
136	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D_s^{*+} D_1'^-, \bar{B}^0 \rightarrow \rho^0 \pi^- D^{*+}$ ($e^+e^- \rightarrow \rho^0 \pi^- D^{*+} D_s^{*+} D_1'^-$)	135	135	1	136
137	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0 \pi^- \rho^+ \rho^+ K^0 D^-, \bar{B}^0 \rightarrow \pi^0 \rho^0 \pi^- \eta \omega D^+$ ($e^+e^- \rightarrow \pi^0 \rho^0 \rho^0 \pi^- \pi^- \rho^+ \rho^+ \eta \omega K^0 D^+ D^-$)	136	136	1	137
138	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0 \pi^0 K^+ D_s^{*-}, \bar{B}^0 \rightarrow D^{*0} n \bar{n}$ ($e^+e^- \rightarrow \pi^0 \pi^0 K^+ D^{*0} D_s^{*-} n \bar{n}$)	137	137	1	138
139	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow K^+ \Delta^+ \bar{\Sigma}_c^{*-}$ ($e^+e^- \rightarrow e^+\nu_e K^+ D^- \Delta^+ \bar{\Sigma}_c^{*-}$)	138	138	1	139
140	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+ \rho^+ \rho^- \eta \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \pi^+ \pi^+ \pi^- \pi^- \bar{K}^0 K^* K^+ K^{*-}$ ($e^+e^- \rightarrow \pi^0 \pi^+ \pi^+ \pi^- \pi^- \rho^+ \rho^+ \eta \bar{K}^0 K^* K^+ K^{*-} \bar{D}^{*-}$)	139	139	1	140
141	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \rho^0 \pi^- D^+$ ($e^+e^- \rightarrow \mu^+\nu_\mu \pi^0 \rho^0 \pi^- D^+ \bar{D}^{*-}$)	140	140	1	141
142	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow D^- D_s^{*+} \gamma, \bar{B}^0 \rightarrow \pi^+ \pi^- \rho^- D^+$ ($e^+e^- \rightarrow \pi^+ \pi^- \rho^- D^+ D^- D_s^{*+} \gamma$)	141	141	1	142
143	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+ n \bar{\Sigma}_c^-, \bar{B}^0 \rightarrow D^{*+} D_{s1}'^-$ ($e^+e^- \rightarrow \rho^+ D^{*+} n \bar{\Sigma}_c^- D_{s1}'^-$)	142	142	1	143

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
144	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \mu^- \bar{\nu}_\mu D^+, \bar{B}^0 \rightarrow \bar{K}^* K^- D^{*+}$ ($e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \bar{K}^* K^- D^+ D^{*+}$)	143	143	1	144
145	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ \pi^+ \pi^- \omega \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \pi^+ \pi^- \pi^- D^{*+}$ ($e^+e^- \rightarrow \pi^0 \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- \omega D^{*+} \bar{D}^{*-}$)	144	144	1	145
146	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ K^0 \bar{K}^* \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+ K^- D^- D^{*+}$ ($e^+e^- \rightarrow \pi^+ \pi^+ K^0 \bar{K}^* K^- D^- D^{*+} \bar{D}^{*-}$)	145	145	1	146
147	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow \rho^- D_2^{*+}, \bar{B}^0 \rightarrow \rho^0 \pi^+ K^{*-} \eta_c$ ($e^+e^- \rightarrow \rho^0 \pi^+ \rho^- K^{*-} D_2^{*+} \eta_c$)	146	146	1	147
148	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^0 \pi^+ \pi^+ \rho^- D^-, \bar{B}^0 \rightarrow D_s^{*-} D_1^+$ ($e^+e^- \rightarrow \rho^0 \pi^+ \pi^+ \rho^- D^- D_s^{*-} D_1^+$)	147	147	1	148
149	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^0 \rho^0 \pi^+ D^-, \bar{B}^0 \rightarrow \pi^+ \pi^- \pi^- D^+$ ($e^+e^- \rightarrow \pi^0 \rho^0 \pi^+ \pi^+ \pi^- \pi^- D^+ D^-$)	148	148	1	149
150	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \tau^+ \nu_\tau D_0^{*-}, \bar{B}^0 \rightarrow \pi^0 \omega K^* K^- D^+$ ($e^+e^- \rightarrow \tau^+ \nu_\tau \pi^0 \omega K^* K^- D^+ D_0^{*-}$)	149	149	1	150
151	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \pi^+ \pi^- \bar{D}^{*-}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^+ e^- \nu_e \bar{\nu}_e \pi^+ \pi^- D^{*+} \bar{D}^{*-}$)	150	150	1	151
152	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^0 D^{*-} \bar{\Sigma}^0 \Sigma^+, \bar{B}^0 \rightarrow \eta \bar{K}^0 J/\psi$ ($e^+e^- \rightarrow \rho^0 \eta \bar{K}^0 \bar{D}^{*-} J/\psi \bar{\Sigma}^0 \Sigma^+$)	151	151	1	152
153	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^0 \rho^0 \rho^0 \rho^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \rho^0 \rho^0 \rho^0 \rho^+ D^{*+} \bar{D}^{*-}$)	152	152	1	153
154	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow K^{*+} D^-, \bar{B}^0 \rightarrow \pi^+ K^- \chi_{c1}$ ($e^+e^- \rightarrow \pi^+ K^- K^{*+} D^- \chi_{c1}$)	153	153	1	154
155	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow K^{*+} D^- D^0, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D_2^{*+}$ ($e^+e^- \rightarrow e^- \bar{\nu}_e K^{*+} D^- D_2^{*+} D^0$)	154	154	1	155
156	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^+ \bar{D}^-, \bar{B}^0 \rightarrow \pi^- \pi^- \rho^+ D^{*+}$ ($e^+e^- \rightarrow \pi^- \pi^- \rho^+ \rho^+ D^- D^{*+}$)	155	155	1	156
157	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow e^+ \nu_e \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \rho^0 \rho^- D^{*+} \gamma$ ($e^+e^- \rightarrow e^+ \nu_e \pi^0 \rho^0 \rho^- D^{*+} \bar{D}^{*-} \gamma$)	156	156	1	157
158	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \rho^0 \pi^+ \pi^+ \pi^+ \pi^- \pi^- \eta \omega D^-$ ($e^+e^- \rightarrow \pi^0 \rho^0 \pi^+ \pi^+ \pi^+ \pi^+ \pi^- \pi^- \eta \omega D^- \bar{D}^{*-}$)	157	157	1	158
159	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^- K^0 D^+ \bar{D}^{*0}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^+$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \pi^- K^0 D^+ D^+ \bar{D}^{*0}$)	158	158	1	159
160	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D_1^-, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \mu^+ \nu_\mu D^{*+} D_1^-$)	159	159	1	160
161	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow K^0 K^+ D^-, \bar{B}^0 \rightarrow \rho^0 \pi^- D^{*+}$ ($e^+e^- \rightarrow \rho^0 \pi^- \bar{K}^0 K^+ D^- D^{*+}$)	160	160	1	161

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
162	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow \bar{B}^0 \bar{B}^0, \bar{B}^0 \rightarrow D^{*+} D_s^-, \bar{B}^0 \rightarrow \pi^0 \pi^0 \pi^- \omega D^+$ ($e^+e^- \rightarrow \pi^0 \pi^0 \pi^- \omega D^+ D^{*+} D_s^-$)	161	161	1	162
163	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ \omega D^{*-}, \bar{B}^0 \rightarrow D^{*+} D_s^-$ ($e^+e^- \rightarrow \pi^+ \omega D^{*+} \bar{D}^{*-} D_s^-$)	162	162	1	163
164	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^0 \Sigma^0 \Xi_c^0, \bar{B}^0 \rightarrow D^+ D_{s1}^-$ ($e^+e^- \rightarrow \pi^0 D^+ \Sigma^0 \Xi_c^0 D_{s1}^-$)	163	163	1	164
165	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^0 \eta \omega \bar{D}^{*0}, \bar{B}^0 \rightarrow \pi^0 \rho^- \omega D^{*+}$ ($e^+e^- \rightarrow \pi^0 \rho^0 \rho^- \eta \omega \omega D^{*+} \bar{D}^{*0}$)	164	164	1	165
166	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow D^{*-} \Delta^- \Delta^0, \bar{B}^0 \rightarrow \rho^- D^+$ ($e^+e^- \rightarrow \rho^- D^+ \bar{D}^{*-} \bar{\Delta}^- \Delta^0$)	165	165	1	166
167	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^- p \bar{\Sigma}_c^0, \bar{B}^0 \rightarrow \tau^- \bar{\nu}_\tau D^{*+}$ ($e^+e^- \rightarrow \tau^- \bar{\nu}_\tau \rho^- D^{*+} p \bar{\Sigma}_c^0$)	166	166	1	167
168	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^+ K^{*-} J/\psi, \bar{B}^0 \rightarrow K^0 D^{*0} \bar{D}^{*0}$ ($e^+e^- \rightarrow \pi^+ \bar{K}^0 K^{*-} D^{*0} \bar{D}^{*0} J/\psi$)	167	167	1	168
169	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^- K^{*+} D^0 \bar{D}^{*0}, \bar{B}^0 \rightarrow \pi^0 \pi^+ \pi^- \pi^- D^{*+}$ ($e^+e^- \rightarrow \pi^0 \pi^+ \pi^- \pi^- \pi^- K^{*+} D^{*+} D^0 \bar{D}^{*0}$)	168	168	1	169
170	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^-, \bar{B}^0 \rightarrow \pi^+ \pi^+ \pi^- \pi^- \pi^- \eta K^+ K^+ D_s^{*-}$ ($e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- \eta K^+ K^+ D^- D_s^{*-}$)	169	169	1	170
171	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^0 \bar{K}^0 D^- \Delta^0 \Sigma^+, \bar{B}^0 \rightarrow \pi^0 \pi^+ \pi^+ \pi^- \rho^- \bar{D}^0$ ($e^+e^- \rightarrow \pi^0 \pi^0 \pi^+ \pi^+ \pi^- \rho^- \bar{K}^0 D^- \bar{D}^0 \Delta^0 \Sigma^+$)	170	170	1	171
172	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^+ \nu_\mu D^{*-}, \bar{B}^0 \rightarrow \pi^+ \rho^- \rho^- \omega D^{*+}$ ($e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \rho^- \rho^- \omega D^{*+} \bar{D}^{*-}$)	171	171	1	172
173	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \bar{D}^{*-} D_{s1}^+, \bar{B}^0 \rightarrow \pi^0 \pi^+ \pi^+ K^- D^-$ ($e^+e^- \rightarrow \pi^0 \pi^+ \pi^+ K^- D^- \bar{D}^{*-} D_{s1}^+$)	172	172	1	173
174	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow K^{*+} D^- D^{*+}, \bar{B}^0 \rightarrow \rho^0 \rho^- \eta D^{*+}$ ($e^+e^- \rightarrow \rho^0 \rho^- \eta K^{*+} D^- D^{*+} D^{*+}$)	173	173	1	174
175	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^- \omega D^+ \gamma, \bar{B}^0 \rightarrow \pi^0 \pi^0 \pi^+ K^0 K^0 K^- K^- D^{*+}$ ($e^+e^- \rightarrow \pi^0 \pi^0 \pi^+ \rho^- \omega K^0 K^0 K^- K^- D^+ D^{*+} \gamma$)	174	174	1	175
176	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \tau^+ \nu_\tau \bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0 \bar{n} \Sigma_c^0$ ($e^+e^- \rightarrow \tau^+ \nu_\tau \pi^0 \bar{D}^{*-} \bar{n} \Sigma_c^0$)	175	175	1	176
177	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \rho^- D^- \Delta^0 \Delta^{++}, \bar{B}^0 \rightarrow e^- \bar{\nu}_e D^{*+}$ ($e^+e^- \rightarrow e^- \bar{\nu}_e \rho^- D^- D^{*+} \bar{\Delta}^0 \Delta^{++}$)	176	176	1	177
178	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \pi^0 D^- \bar{n} p, \bar{B}^0 \rightarrow \pi^0 \pi^0 \pi^0 \pi^+ K^{*-} \bar{D}^{*0}$ ($e^+e^- \rightarrow \pi^0 \pi^0 \pi^0 \pi^0 \pi^+ K^{*-} D^- \bar{D}^{*0} \bar{n} p$)	177	177	1	178
179	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0 \bar{B}^0, B^0 \rightarrow \mu^- \bar{\nu}_\mu D^{*+}, \bar{B}^0 \rightarrow D^+ \Delta^- \bar{n}$ ($e^+e^- \rightarrow \mu^- \bar{\nu}_\mu D^+ D^{*+} \Delta^- \bar{n}$)	178	178	1	179

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
180	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^+D^0D_s^{*-}$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^+\bar{D}^{*-}D^0D_s^{*-}$)	179	179	1	180
181	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu X_u^-, \bar{B}^0 \rightarrow K^*\Lambda\Xi_c^{*0}$ ($e^+e^- \rightarrow \mu^+\nu_\mu X_u^- \bar{K}^* \bar{\Lambda} \Xi_c^{*0}$)	180	180	1	181
182	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\rho^0\pi^+\omega\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^+\pi^-\rho^-D^+$ ($e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^-\rho^-\omega D^+\bar{D}^{*-}$)	181	181	1	182
183	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, \bar{B}^0 \rightarrow D^{*+}D_{s1}'^-, \bar{B}^0 \rightarrow \pi^-\eta D^{*+}$ ($e^+e^- \rightarrow \pi^-\eta D^{*+}D_{s1}'^-$)	182	182	1	183
184	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_1'^-, \bar{B}^0 \rightarrow \pi^0\pi^+\pi^-\rho^-D^{*+}$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^+\pi^-\rho^-D^{*+}D_1'^-$)	183	183	1	184
185	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\omega D^-\bar{\Delta}^-\Delta^0$ ($e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\omega D^-\bar{D}^{*-}\bar{\Delta}^-\Delta^0$)	184	184	1	185
186	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e\bar{D}^{*-}, \bar{B}^0 \rightarrow \omega\bar{K}^0 K^* \bar{K}^*$ ($e^+e^- \rightarrow e^+\nu_e\omega\bar{K}^0 K^* \bar{K}^* \bar{D}^{*-}$)	185	185	1	186
187	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu D_2^{*-}, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu D^{*+}D_2^{*-}$)	186	186	1	187
188	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^-\rho^+\rho^-\bar{D}^0, \bar{B}^0 \rightarrow \mu^-\bar{\nu}_\mu D^{*+}$ ($e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^+\pi^-\rho^+\rho^-\bar{D}^{*+}\bar{D}^0$)	187	187	1	188
189	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \bar{D}^{*-}D_{s1}^{'+}, \bar{B}^0 \rightarrow e^-\bar{\nu}_e D_2^{*+}$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\bar{D}^{*-}D_{s1}^{'+}D_2^{*+}$)	188	188	1	189
190	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+\eta\eta\bar{D}^{*-}, \bar{B}^0 \rightarrow \pi^0\pi^+\eta K^{*-}$ ($e^+e^- \rightarrow \pi^0\pi^+\rho^+\eta\eta K^{*-}\bar{D}^{*-}$)	189	189	1	190
191	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\Delta^+\bar{\Sigma}_c^{*--}, \bar{B}^0 \rightarrow \rho^0\pi^-\pi^-\rho^+K^*D^{*+}$ ($e^+e^- \rightarrow \rho^0\pi^+\pi^-\pi^-\rho^+K^*D^{*+}\Delta^+\bar{\Sigma}_c^{*--}$)	190	190	1	191
192	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow \rho^0\rho^-D^{*+}$ ($e^+e^- \rightarrow e^+\nu_e\rho^0\rho^-D^-D^{*+}$)	191	191	1	192
193	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^+\bar{D}^{*-}, \bar{B}^0 \rightarrow \rho^0\pi^-K^0\bar{K}^*D^+$ ($e^+e^- \rightarrow \rho^0\pi^-\rho^+K^0\bar{K}^*D^+\bar{D}^{*-}$)	192	192	1	193
194	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow e^+\nu_e D^-, \bar{B}^0 \rightarrow K^{*-}D^{*+}\bar{D}^0$ ($e^+e^- \rightarrow e^+\nu_e K^{*-}D^-D^{*+}\bar{D}^0$)	193	193	1	194
195	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow J/\psi K_1^0, \bar{B}^0 \rightarrow \pi^0 D^+ D_s^{*-}$ ($e^+e^- \rightarrow \pi^0 D^+ D_s^{*-} J/\psi K_1^0$)	194	194	1	195
196	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow K^*D^+D^-, \bar{B}^0 \rightarrow \bar{D}^{*-}\bar{\Delta}^-\Delta^0$ ($e^+e^- \rightarrow K^*D^+D^-\bar{D}^{*-}\bar{\Delta}^-\Delta^0$)	195	195	1	196
197	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^0\pi^-\eta\bar{D}^{*0}D_s^{*+}, \bar{B}^0 \rightarrow D^{*0}\Delta^0\bar{\Delta}^0$ ($e^+e^- \rightarrow \pi^0\pi^-\eta D^{*0}\bar{D}^{*0}D_s^{*+}\Delta^0\bar{\Delta}^0$)	196	196	1	197

index	event tree (event initial-final states)	iEvtTr	iEvtIFSts	nEvts	nCmltEvts
198	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \rho^0\pi^+\omega\bar{D}^{*-}, \bar{B}^0 \rightarrow D^0n\bar{n}$ ($e^+e^- \rightarrow \rho^0\pi^+\omega\bar{D}^{*-}D^0n\bar{n}$)	197	197	1	198
199	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \mu^+\nu_\mu\bar{D}^{*-}, B^0 \rightarrow \rho^0\pi^+\pi^-\rho^+\omega\bar{D}^{*-}$ ($e^+e^- \rightarrow \mu^+\nu_\mu\rho^0\pi^+\pi^-\rho^+\omega\bar{D}^{*-}\bar{D}^{*-}$)	198	198	1	199
200	$e^+e^- \rightarrow \Upsilon(4S), \Upsilon(4S) \rightarrow B^0\bar{B}^0, B^0 \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-D^-, \bar{B}^0 \rightarrow e^-\bar{\nu}_e\pi^+D^0$ ($e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^+\pi^+\pi^-\pi^-D^-D^0$)	199	199	1	200

Table 2: Event initial-final states.

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
1	$e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+\pi^-\bar{D}^{*-}D^0D_s^{*-}$	0	1	1
2	$e^+e^- \rightarrow \pi^0\pi^-\pi^-K^{*+}D^{*+}J/\psi$	1	1	2
3	$e^+e^- \rightarrow \pi^0\rho^0\rho^-\eta K^{*+}D^+\bar{D}^{*-}D^{*0}$	2	1	3
4	$e^+e^- \rightarrow \pi^+\pi^+\pi^-\pi^-\pi^-D^{*+}\bar{D}^{*-}a_1^+$	3	1	4
5	$e^+e^- \rightarrow \pi^0\rho^+\omega D^-\bar{D}^{*-}D_{s1}^{'+}$	4	1	5
6	$e^+e^- \rightarrow e^+\nu_e\pi^+\pi^-D^+\bar{D}^{*-}D_s^-$	5	1	6
7	$e^+e^- \rightarrow \pi^0\pi^0\pi^+\pi^-K^{*+}K^-D^+\bar{D}^{*-}$	6	1	7
8	$e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\pi^+\eta\eta D^-\bar{D}^{*-}$	7	1	8
9	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0\pi^+\pi^-D^{*+}\bar{D}^{*-}$	8	1	9
10	$e^+e^- \rightarrow K^0D^-\bar{D}^{*+}D^{*+}D_s^{*-}$	9	1	10
11	$e^+e^- \rightarrow \mu^+\nu_\mu\rho^0K^0K^{*-}D^+\bar{D}^{*-}$	10	1	11
12	$e^+e^- \rightarrow \rho^-K^+D^+\bar{D}_s^-J/\psi$	11	1	12
13	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\rho^-\rho^-K^0D^+\bar{D}^0\bar{D}^0$	12	1	13
14	$e^+e^- \rightarrow \pi^+\eta K^0K^{*-}D^{*+}\bar{D}^{*-}$	13	1	14
15	$e^+e^- \rightarrow \pi^-\rho^+K^+K^-D^-\bar{D}^{*+}$	14	1	15
16	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^0\pi^+\pi^-\eta D^{*+}\bar{D}^{*-}$	15	1	16
17	$e^+e^- \rightarrow e^+\nu_e\pi^0\pi^+K^{*-}\bar{D}^{*-}D^0\bar{D}^{*0}$	16	1	17
18	$e^+e^- \rightarrow \pi^0\eta K^0K^+K^-D^-\bar{D}^{*+}D_s^+$	17	1	18
19	$e^+e^- \rightarrow e^-\bar{\nu}_eD^{*+}\bar{D}^{*-}D_s^{*+}$	18	1	19
20	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^+\pi^-\rho^-D_2^{*-}\bar{D}^{*0}$	19	1	20
21	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0K^+K^+K^-D^{*+}$	20	1	21
22	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^+\omega K^0K^{*-}D^{*+}\bar{D}^{*-}$	21	1	22
23	$e^+e^- \rightarrow \pi^0\pi^0\rho^-\eta\omega D^{*+}\bar{D}^{*-}D_s^{*+}$	22	1	23
24	$e^+e^- \rightarrow \pi^+\pi^-\rho^-\omega K^+K^{*+}D^+\bar{D}^{*-}$	23	1	24
25	$e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^-\rho^+\rho^+\eta K^*D^-\bar{D}^{*-}D^0$	24	1	25
26	$e^+e^- \rightarrow \pi^0\pi^-\omega K^0D^+\bar{D}^0D^{*0}$	25	1	26
27	$e^+e^- \rightarrow e^+\nu_e\mu^+\nu_\mu D^-\bar{D}^{*-}$	26	1	27
28	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu\bar{D}^{*-}D_1^+$	27	1	28
29	$e^+e^- \rightarrow \tau^+\nu_\tau\rho^-D^+\bar{D}^{*-}$	28	1	29
30	$e^+e^- \rightarrow \pi^+\pi^+\pi^-\rho^-\rho^-D^+D^+$	29	1	30
31	$e^+e^- \rightarrow \mu^+\nu_\mu\bar{K}_1^0D_1^-\gamma$	30	1	31
32	$e^+e^- \rightarrow \rho^0\pi^-\rho^-\eta\omega K^+D^+\bar{D}^{*+}\bar{D}^{*-}$	31	1	32
33	$e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+\pi^-\pi^-D^+D^-\bar{D}_s^+$	32	1	33
34	$e^+e^- \rightarrow \tau^+\nu_\tau\rho^+\eta\omega\bar{D}^{*-}D_0^-$	33	1	34
35	$e^+e^- \rightarrow K^*\bar{D}^{*-}\Delta^0\Delta^+\chi_{c1}$	34	1	35
36	$e^+e^- \rightarrow e^-\bar{\nu}_e\bar{D}^0\bar{p}\Delta^+D_1^+$	35	1	36
37	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\pi^-D^-\bar{D}^{*+}$	36	1	37
38	$e^+e^- \rightarrow \pi^0\pi^+\pi^-\rho^-\eta D^+D^+p\bar{\Delta}^{++}$	37	1	38
39	$e^+e^- \rightarrow \pi^0\pi^0\pi^-K^*K^{*-}D^+D^+$	38	1	39
40	$e^+e^- \rightarrow \rho^0\pi^+\rho^-D^{*+}\bar{D}^{*-}\gamma$	39	1	40

index	event initial-final states	iEvtIFSts	nEvts	nCmpltEvts
41	$e^+e^- \rightarrow \mu^- \mu^- \bar{\nu}_\mu \bar{\nu}_\mu \pi^0 \pi^0 D^{*+} D^{*+}$	40	1	41
42	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^- \omega D^{*+} \bar{D}^{*-}$	41	1	42
43	$e^+e^- \rightarrow \pi^0 \pi^+ \pi^+ \pi^- K^- D^+ \Sigma^- \bar{\Sigma}^0 \eta_c(2S)$	42	1	43
44	$e^+e^- \rightarrow e^- \bar{\nu}_e \eta D^- D^{*+} D_s^+$	43	1	44
45	$e^+e^- \rightarrow \omega K^+ D^{*+} \bar{D}^{*-} D_s^-$	44	1	45
46	$e^+e^- \rightarrow \pi^0 \pi^- \rho^+ \eta \bar{K}^0 K^+ D^- \bar{D}^{*-} D_s^+$	45	1	46
47	$e^+e^- \rightarrow \pi^0 \pi^0 \rho^0 \pi^+ \pi^- \pi^- \rho^- \eta \eta \bar{K}^0 K^+ D^- D^{*+}$	46	1	47
48	$e^+e^- \rightarrow \rho^0 \pi^+ \rho^+ K^- D^+ D^- \bar{D}^{*-}$	47	1	48
49	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \rho^0 \rho^+ D^+ D^-$	48	1	49
50	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^- \rho^+ \eta D^- D^{*+}$	49	1	50
51	$e^+e^- \rightarrow e^+ \nu_e \pi^0 \pi^+ \pi^+ \pi^- \eta D^- \bar{D}^{*-}$	50	1	51
52	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^0 \pi^+ \pi^+ \rho^- D^+ D^-$	51	1	52
53	$e^+e^- \rightarrow \rho^0 \pi^+ \pi^+ \pi^- \rho^+ \rho^- \omega D^- D^{*0}$	52	1	53
54	$e^+e^- \rightarrow \pi^- D^{*+} \bar{D}^0 D_s^+ D_s^-$	53	1	54
55	$e^+e^- \rightarrow \pi^0 \rho^0 \rho^0 \rho^- D^+ \bar{D}^{*-} a_1^+$	54	1	55
56	$e^+e^- \rightarrow \pi^0 \pi^0 \pi^+ D^0 D_s^{*-} \Delta^+ \Xi_c^{*-}$	55	1	56
57	$e^+e^- \rightarrow e^+ \nu_e \pi^0 \bar{D}^{*-} \Delta^+ \Sigma_c^+$	56	1	57
58	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \rho^0 \pi^+ \pi^- D^{*+} \bar{D}^{*0}$	57	1	58
59	$e^+e^- \rightarrow \pi^0 \rho^0 \pi^+ \pi^- \eta \eta D^+ \Delta^0 \Delta^+$	58	1	59
60	$e^+e^- \rightarrow \pi^0 \pi^0 \pi^0 \pi^0 \rho^0 \rho^0 \pi^+ \pi^+ \pi^+ \pi^- \pi^- \pi^- D^{*+} \bar{D}^{*-}$	59	1	60
61	$e^+e^- \rightarrow \pi^0 \pi^+ \pi^- \omega \bar{K}^0 D^+ \bar{D}^{*-} \bar{D}^{*0}$	60	1	61
62	$e^+e^- \rightarrow e^+ \nu_e \pi^+ K^* \bar{D}^{*-} \bar{D}^{*-} D^0$	61	1	62
63	$e^+e^- \rightarrow \pi^+ \pi^+ \pi^+ \pi^- \pi^- D^- \bar{D}^{*-} \Delta^+ \bar{\Delta}^+ a_1^+$	62	1	63
64	$e^+e^- \rightarrow \pi^+ \pi^- \pi^- \pi^- \pi^- \rho^+ \rho^+ \eta \omega D^{*+} \bar{D}^0$	63	1	64
65	$e^+e^- \rightarrow \pi^0 \pi^0 \rho^0 \rho^0 \pi^+ \pi^- K^- K^{*+} D^+ \bar{D}^{*-}$	64	1	65
66	$e^+e^- \rightarrow e^+ \nu_e \pi^0 \pi^+ \pi^- \pi^- D^- D^{*+} p \bar{p}$	65	1	66
67	$e^+e^- \rightarrow \mu^+ \nu_\mu \tau^- \bar{\nu}_\tau D^{*+} D_0^{*-}$	66	1	67
68	$e^+e^- \rightarrow \pi^+ \eta \omega \omega D^+ \bar{D}^{*-} D_s^{*-}$	67	1	68
69	$e^+e^- \rightarrow e^- \bar{\nu}_e \rho^0 \rho^- \eta D^+ D^{*+}$	68	1	69
70	$e^+e^- \rightarrow \rho^+ \rho^- D^- D^{*+}$	69	1	70
71	$e^+e^- \rightarrow \pi^- K^+ K^{*-} D^+ D^0 \bar{D}^0$	70	1	71
72	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^0 \pi^0 \pi^+ \rho^+ \rho^- D^+ D^-$	71	1	72
73	$e^+e^- \rightarrow \pi^- K^* D^+ n \bar{\Sigma}_c^{*0}$	72	1	73
74	$e^+e^- \rightarrow e^+ \nu_e \pi^- \pi^- D^{*+} \bar{D}^{*-} \bar{n} \Delta^+$	73	1	74
75	$e^+e^- \rightarrow K^{*+} D^{*+} \bar{D}^{*-} D^0 D_{s0}^{*-}$	74	1	75
76	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^0 \pi^+ \pi^- \rho^+ \bar{D}^{*-} \bar{D}^{*-} D^{*0}$	75	1	76
77	$e^+e^- \rightarrow \pi^0 \rho^+ \omega \omega K^- D^- D^{*+} \bar{D}^{*0}$	76	1	77
78	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^0 \pi^+ \pi^- \rho^- \omega \bar{K}^0 D^{*+} D^{*+}$	77	1	78
79	$e^+e^- \rightarrow e^+ \nu_e \rho^0 \pi^- \eta D^- D^{*+}$	78	1	79
80	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \rho^0 \pi^+ \pi^- \rho^+ \eta \eta D^{*+} \bar{D}^{*-}$	79	1	80

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
81	$e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\pi^-\omega K^0\bar{K}^0 K^*D^{*+}D_0^{*-}$	80	1	81
82	$e^+e^- \rightarrow \pi^+\pi^-D^+D^-D_s^{*-}a_1^+$	81	1	82
83	$e^+e^- \rightarrow \pi^+\rho^+\eta\omega D^-D^0D_s^-$	82	1	83
84	$e^+e^- \rightarrow \pi^+\pi^+\pi^+\pi^-\pi^-\pi^-K^0D^-D^{*+}$	83	1	84
85	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^0\pi^+\rho^-\eta D^+D^{*0}$	84	1	85
86	$e^+e^- \rightarrow \omega\eta' D^+D^{*-}D^{*-}\bar{n}p$	85	1	86
87	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^+\pi^-\rho^+D^-D_2^{*+}$	86	1	87
88	$e^+e^- \rightarrow \rho^0\pi^+\pi^-\rho^+\eta K^0 K^{*-}D^+D^-$	87	1	88
89	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\rho^0 p\bar{\Sigma}_c^{*-}D_0^{*+}$	88	1	89
90	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^-\pi^-D^+D^{*-}\bar{n}p$	89	1	90
91	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0\pi^+\pi^-\rho^+D^-D^{*+}$	90	1	91
92	$e^+e^- \rightarrow \pi^0\pi^+\pi^-K^-K^{*+}J/\psi\eta_c(2S)$	91	1	92
93	$e^+e^- \rightarrow \pi^-\rho^+\bar{K}^0D^+\psi'$	92	1	93
94	$e^+e^- \rightarrow \rho^0\pi^-\rho^+K^0D^+\bar{D}^{*-}$	93	1	94
95	$e^+e^- \rightarrow \pi^0\rho^+\omega K^0K^-D^+D^-$	94	1	95
96	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_eD^{*+}\bar{D}^{*-}$	95	1	96
97	$e^+e^- \rightarrow \pi^0\pi^-K^{*+}D^{*+}\bar{D}^{*-}\Delta^+\Delta^+$	96	1	97
98	$e^+e^- \rightarrow \pi^+\pi^-D^+D_2^{*-}D_s^-D_s^{*+}$	97	1	98
99	$e^+e^- \rightarrow K_L\pi^-\pi^-\rho^+D^{*+}\eta_c$	98	1	99
100	$e^+e^- \rightarrow \pi^0\pi^0\rho^0\pi^+K^*K^-D^+\bar{D}^{*-}$	99	1	100
101	$e^+e^- \rightarrow \pi^0\pi^+\pi^-\rho^+\rho^-\rho^-\eta D^+\bar{D}^0$	100	1	101
102	$e^+e^- \rightarrow \pi^0\pi^0\pi^+\pi^-\eta\omega D^+\bar{D}^0D_s^-$	101	1	102
103	$e^+e^- \rightarrow \pi^0\pi^0\pi^0\rho^0\pi^-\pi^-\rho^+\rho^+\omega\omega D^-D^{*+}$	102	1	103
104	$e^+e^- \rightarrow \rho^0\pi^-\rho^+D^-D^0D_s^{*+}$	103	1	104
105	$e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^+\pi^-\omega D^-D^{*0}D_s^-$	104	1	105
106	$e^+e^- \rightarrow e^-\bar{\nu}_e\rho^+K^+K^-D^{*+}\bar{D}^{*-}$	105	1	106
107	$e^+e^- \rightarrow \pi^0\pi^+\pi^-\pi^-K^0D^{*+}J/\psi$	106	1	107
108	$e^+e^- \rightarrow \pi^0\pi^0\pi^+\rho^-\rho^-\eta\omega\omega D^{*+}\bar{D}^{*0}$	107	1	108
109	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\pi^-\rho^+D^+\bar{D}^{*0}$	108	1	109
110	$e^+e^- \rightarrow \rho^0\pi^-K^0D^{*+}\Sigma^{*0}\Sigma_c^0$	109	1	110
111	$e^+e^- \rightarrow \rho^0\pi^+D^{*+}D_s^{*-}\Delta^{++}\Lambda_c^+$	110	1	111
112	$e^+e^- \rightarrow e^+\nu_e\rho^-D^{*+}D_2^{*-}$	111	1	112
113	$e^+e^- \rightarrow e^+\nu_e D^-D_s^{*+}\Delta^+\Lambda$	112	1	113
114	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-K^-D^{*+}\bar{D}^{*-}D^{*0}$	113	1	114
115	$e^+e^- \rightarrow e^-\bar{\nu}_e D^{*+}\bar{D}^{*-}D_{s1}^{*+}$	114	1	115
116	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu D^{*+}D_s^{*-}D_1^{*+}$	115	1	116
117	$e^+e^- \rightarrow \pi^0\pi^+\eta\bar{K}^0K^*D^-D^{*+}D_s^{*-}$	116	1	117
118	$e^+e^- \rightarrow \pi^-\rho^-\eta\eta\bar{K}^0K^+D^{*+}\bar{D}^{*0}$	117	1	118
119	$e^+e^- \rightarrow \pi^0\pi^0\pi^0\rho^+\omega D^-D^0$	118	1	119
120	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K^0D^{*+}D^{*+}\bar{D}^{*-}$	119	1	120

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
121	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^-\bar{\nu}_\mu D^{*+}D^{*+}$	120	1	121
122	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\omega D^{*-}D^{*0}$	121	1	122
123	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu D^{*+}\bar{D}^{*-}$	122	1	123
124	$e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\omega K^{*-}\bar{D}^{*-}D_s^+$	123	1	124
125	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^-K^0K^+D^+D^{*0}$	124	1	125
126	$e^+e^- \rightarrow \mu^+\mu^-\nu_\mu\bar{\nu}_\mu D^{*+}D_1'^-$	125	1	126
127	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\bar{D}^{*-}D_2^{*+}D_s^-$	126	1	127
128	$e^+e^- \rightarrow e^-\bar{\nu}_e K^*D^+D^-\bar{D}^{*+}$	127	1	128
129	$e^+e^- \rightarrow e^+\nu_e\pi^+D^0D_s^-D_1'^-$	128	1	129
130	$e^+e^- \rightarrow e^-\bar{\nu}_e D^{*+}D^{*-}a_1^+$	129	1	130
131	$e^+e^- \rightarrow \rho^-\eta\eta K^0K^+D^+\bar{D}^{*-}$	130	1	131
132	$e^+e^- \rightarrow \rho^0\pi^-\rho^-\omega D^+D^+$	131	1	132
133	$e^+e^- \rightarrow e^+\nu_e\bar{D}^{*-}D_2^{*-}D_s^+$	132	1	133
134	$e^+e^- \rightarrow \pi^+\pi^-\rho^+\bar{D}^{*-}D_2^{*+}D_s^-$	133	1	134
135	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu\pi^0\omega K^+D^{*+}D_s^{*-}$	134	1	135
136	$e^+e^- \rightarrow \rho^0\pi^-D^{*+}D_s^{*+}D_1'^-$	135	1	136
137	$e^+e^- \rightarrow \pi^0\rho^0\rho^0\pi^-\pi^-\rho^+\rho^+\eta\omega K^0D^+D^-$	136	1	137
138	$e^+e^- \rightarrow \pi^0\pi^0K^+D^{*0}D_s^{*-}n\bar{n}$	137	1	138
139	$e^+e^- \rightarrow e^+\nu_e K^+D^-\Delta^+\bar{\Sigma}_c^{*-}$	138	1	139
140	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^-\pi^-\rho^+\rho^-\eta K^0K^*K^+K^{*-}\bar{D}^{*-}$	139	1	140
141	$e^+e^- \rightarrow \mu^+\nu_\mu\pi^0\rho^0\pi^-D^+\bar{D}^{*-}$	140	1	141
142	$e^+e^- \rightarrow \pi^+\pi^-\rho^-D^+D^-D_s^{*+}\gamma$	141	1	142
143	$e^+e^- \rightarrow \rho^+D^{*+}n\bar{\Sigma}_c^-D_1'^-$	142	1	143
144	$e^+e^- \rightarrow \mu^-\bar{\nu}_\mu K^*K^-D^+D^{*+}$	143	1	144
145	$e^+e^- \rightarrow \pi^0\pi^+\pi^+\pi^+\pi^-\pi^-\omega D^{*+}\bar{D}^{*-}$	144	1	145
146	$e^+e^- \rightarrow \pi^+\pi^+K^0\bar{K}^*K^-D^-D^{*+}\bar{D}^{*-}$	145	1	146
147	$e^+e^- \rightarrow \rho^0\pi^+\rho^-K^{*-}D_2^{*+}\eta_c$	146	1	147
148	$e^+e^- \rightarrow \rho^0\pi^+\pi^+\rho^-D^-D_s^{*-}D_1^+$	147	1	148
149	$e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^+\pi^-\pi^-D^+D^-$	148	1	149
150	$e^+e^- \rightarrow \tau^+\nu_\tau\pi^0\omega K^*K^-D^+D_0^{*-}$	149	1	150
151	$e^+e^- \rightarrow e^+e^-\nu_e\bar{\nu}_e\pi^+\pi^-D^{*+}\bar{D}^{*-}$	150	1	151
152	$e^+e^- \rightarrow \rho^0\eta K^0\bar{D}^{*-}J/\psi\bar{\Sigma}^0\Sigma^+$	151	1	152
153	$e^+e^- \rightarrow e^-\bar{\nu}_e\rho^0\rho^0\rho^+D^{*+}\bar{D}^{*-}$	152	1	153
154	$e^+e^- \rightarrow \pi^+K^-K^{*+}D^-\chi_{c1}$	153	1	154
155	$e^+e^- \rightarrow e^-\bar{\nu}_e K^{*+}D^-\bar{D}_2^{*+}\bar{D}^0$	154	1	155
156	$e^+e^- \rightarrow \pi^-\pi^-\rho^+\rho^+D^-\bar{D}^{*+}$	155	1	156
157	$e^+e^- \rightarrow e^+\nu_e\pi^0\rho^0\rho^-D^{*+}\bar{D}^{*-}\gamma$	156	1	157
158	$e^+e^- \rightarrow \pi^0\rho^0\pi^+\pi^+\pi^+\pi^-\pi^-\eta\omega D^-\bar{D}^{*-}$	157	1	158
159	$e^+e^- \rightarrow e^-\bar{\nu}_e\pi^-K^0D^+D^+\bar{D}^{*0}$	158	1	159
160	$e^+e^- \rightarrow e^-\bar{\nu}_e\mu^+\nu_\mu D^{*+}D_1^-$	159	1	160

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
161	$e^+e^- \rightarrow \rho^0 \pi^- K^0 K^+ D^- D^{*+}$	160	1	161
162	$e^+e^- \rightarrow \pi^0 \pi^0 \pi^- \omega D^+ D^{*+} D_s^-$	161	1	162
163	$e^+e^- \rightarrow \pi^+ \omega D^{*+} \bar{D}^{*-} D_s^-$	162	1	163
164	$e^+e^- \rightarrow \pi^0 D^+ \Sigma_c^0 \Xi_c^0 D_{s1}^{\prime-}$	163	1	164
165	$e^+e^- \rightarrow \pi^0 \rho^0 \rho^- \eta \omega D^{*+} \bar{D}^{*0}$	164	1	165
166	$e^+e^- \rightarrow \rho^- D^+ D^{*-} \Delta^- \Delta^0$	165	1	166
167	$e^+e^- \rightarrow \tau^- \bar{\nu}_\tau \rho^- D^{*+} p \Sigma_c^0$	166	1	167
168	$e^+e^- \rightarrow \pi^+ \bar{K}^0 K^{*-} D^{*0} \bar{D}^{*0} J/\psi$	167	1	168
169	$e^+e^- \rightarrow \pi^0 \pi^+ \pi^- \pi^- \pi^- K^{*+} D^{*+} \bar{D}^0 \bar{D}^{*0}$	168	1	169
170	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \pi^+ \pi^- \pi^- \pi^- \eta K^+ K^+ D^- D_s^{*-}$	169	1	170
171	$e^+e^- \rightarrow \pi^0 \pi^0 \pi^+ \pi^+ \pi^- \rho^- K^0 D^- \bar{D}^0 \Delta^0 \Sigma^+$	170	1	171
172	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^+ \rho^- \rho^- \omega D^{*+} \bar{D}^{*-}$	171	1	172
173	$e^+e^- \rightarrow \pi^0 \pi^+ \pi^+ K^- D^- \bar{D}^{*-} D_{s1}^{\prime+}$	172	1	173
174	$e^+e^- \rightarrow \rho^0 \rho^- \eta K^* D^- D^{*+} D^{*+}$	173	1	174
175	$e^+e^- \rightarrow \pi^0 \pi^0 \pi^+ \rho^- \omega K^0 K^0 K^- K^- D^+ D^{*+} \gamma$	174	1	175
176	$e^+e^- \rightarrow \tau^+ \nu_\tau \pi^0 \bar{D}^{*-} \bar{n} \Sigma_c^0$	175	1	176
177	$e^+e^- \rightarrow e^- \bar{\nu}_e \rho^- D^- D^{*+} \Delta^0 \Delta^{++}$	176	1	177
178	$e^+e^- \rightarrow \pi^0 \pi^0 \pi^0 \pi^+ K^{*-} D^- \bar{D}^{*0} \bar{n} p$	177	1	178
179	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu D^+ D^{*+} \Delta^- \bar{n}$	178	1	179
180	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^0 \pi^+ \bar{D}^{*-} \bar{D}^0 D_s^{*-}$	179	1	180
181	$e^+e^- \rightarrow \mu^+ \nu_\mu X_u^- K^* \Lambda \Xi_c^{*0}$	180	1	181
182	$e^+e^- \rightarrow \pi^0 \rho^0 \pi^+ \pi^+ \pi^- \rho^- \omega D^+ \bar{D}^{*-}$	181	1	182
183	$e^+e^- \rightarrow \pi^- \eta D^{*+} D^{*+} D_{s1}^{\prime-}$	182	1	183
184	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^0 \pi^+ \pi^- \rho^- D^{*+} D_1^{\prime-}$	183	1	184
185	$e^+e^- \rightarrow \mu^+ \nu_\mu \pi^0 \omega D^- \bar{D}^{*-} \Delta^- \Delta^0$	184	1	185
186	$e^+e^- \rightarrow e^+ \nu_e \omega \bar{K}^0 K^* K^* \bar{D}^{*-}$	185	1	186
187	$e^+e^- \rightarrow \mu^+ \mu^- \nu_\mu \bar{\nu}_\mu D^{*+} D_2^{*-}$	186	1	187
188	$e^+e^- \rightarrow \mu^- \bar{\nu}_\mu \pi^+ \pi^- \rho^+ \rho^- D^{*+} \bar{D}^0$	187	1	188
189	$e^+e^- \rightarrow e^- \bar{\nu}_e \bar{D}^{*-} D_2^{*+} D_{s1}^{\prime+}$	188	1	189
190	$e^+e^- \rightarrow \pi^0 \pi^+ \rho^+ \eta \eta K^{*-} \bar{D}^{*-}$	189	1	190
191	$e^+e^- \rightarrow \rho^0 \pi^+ \pi^- \pi^- \rho^+ K^* D^{*+} \Delta^+ \bar{\Sigma}_c^{*-}$	190	1	191
192	$e^+e^- \rightarrow e^+ \nu_e \rho^0 \rho^- D^- D^{*+}$	191	1	192
193	$e^+e^- \rightarrow \rho^0 \pi^- \rho^+ K^0 K^* D^+ \bar{D}^{*-}$	192	1	193
194	$e^+e^- \rightarrow e^+ \nu_e K^{*-} D^- D^{*+} \bar{D}^0$	193	1	194
195	$e^+e^- \rightarrow \pi^0 D^+ D_s^{*-} J/\psi K_1^0$	194	1	195
196	$e^+e^- \rightarrow K^* D^+ D^- \bar{D}^{*-} \Delta^- \Delta^0$	195	1	196
197	$e^+e^- \rightarrow \pi^0 \pi^- \eta D^{*0} \bar{D}^{*0} D_s^{*+} \Delta^0 \Delta^0$	196	1	197
198	$e^+e^- \rightarrow \rho^0 \pi^+ \omega \bar{D}^{*-} \bar{D}^0 n \bar{n}$	197	1	198
199	$e^+e^- \rightarrow \mu^+ \nu_\mu \rho^0 \pi^+ \pi^- \rho^+ \omega \bar{D}^{*-} \bar{D}^{*-}$	198	1	199
200	$e^+e^- \rightarrow e^- \bar{\nu}_e \pi^+ \pi^+ \pi^+ \pi^- \pi^- D^- D^0$	199	1	200

index	event initial-final states	iEvtIFSts	nEvts	nCmltEvts
-------	----------------------------	-----------	-------	-----------