INO.	decay chain	final states	iTopo	nEvt	$_{ m nTot}$
0	$\psi' ightarrow \pi^0 \pi^0 J/\psi, \ J/\psi ightarrow \pi^- \pi^- \pi^0 \pi^+ \pi^+$	$\psi' ightarrow \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^- \pi^-$	54	153	153
1	$\psi' o \pi^0 h_c, \ h_c o \gamma \eta_c, \ \eta_c o K^- K_L \pi^+$	$\psi' o \gamma \pi^+ K_L \pi^0 K^-$	391	84	237
2	$h_c ightarrow \gamma \eta_c, \; \eta_c ightarrow K$	$\psi' ightarrow \gamma K^+\pi^+\pi^0\pi^0\pi^-K^-$	218	80	317
3	$h_c ightarrow$	$\psi' o \gamma K^+ K_L \pi^0 \pi^-$	309	22	394
4	$/\psi,\ J/\psi \to K^-\pi$	$\psi^\prime ightarrow K^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^- K^-$	210	73	467
2	$\psi' \to \pi^0 \pi^0 J/\psi, \ J/\psi \to \pi^- \pi^- \pi^0 \pi^0 \pi^+ \pi^+$	$\psi' \to \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^0 \pi^- \pi^-$	69	63	530
9	u	$\psi' ightarrow n \pi^+ \pi^0 ar{p}$	172	61	591
2	$h_c \to \gamma \eta_c, \ \eta_c \to \pi$	$\psi' ightarrow \gamma \pi^+ \pi^+ \pi^0 \pi^- \pi^-$	617	58	649
∞	$h_c \to \gamma \eta_c, \ \eta_c \to \bar{p}\pi$	$\psi' o \gamma n \pi^+ \pi^0 \bar{p}$	519	22	902
6	$/\psi$, .	$\psi' \to \pi^+ \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^- \pi^- \pi^-$	185	53	759
10	$/\psi, J/\psi \to e^-e^+$	$\psi' \rightarrow \pi^0 \pi^0 e^+ e^-$	196	52	811
11	$\psi' ightarrow \pi^0 \pi^0 J/\psi, \ J/\psi ightarrow b_1^- \pi^0 \pi^0 \pi^+, \ b_1^- ightarrow \pi^- \omega, \ \omega ightarrow \pi^- \pi^0 \pi^+$	1	124	51	862
12	π^+, b_1^-	$\psi' ightarrow \gamma \pi^+ \pi^+ \pi^0 \pi^0 \pi^- \pi^-$	718	51	913
13	$\psi, \ \eta \to \pi^0 \bar{\pi}^0 \pi^0, \ J/\psi$	$\psi' \to \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^0 \pi^- \pi^-$	645	49	962
14	$\psi' \to \pi^0 \pi^0 J/\psi, \ J/\psi \to \pi^- \eta b_1^+, \ \eta \to \gamma \gamma, \ b_1^+ \to \pi^+ \omega, \ \omega \to \pi^- \pi^0 \pi^+$	$\psi' o \gamma \gamma \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^- \pi^-$	173	49	1011
15	$J/\psi \to \pi^- \gamma \pi^0$	$\psi^\prime ightarrow \gamma \pi^+ \pi^0 \pi^0 \pi^0 \pi^0 \pi^-$	215	48	1059
16	F	$\psi' o \gamma \pi^+ \pi^+ \pi^+ \pi^0 \pi^- \pi^- \pi^-$	86	47	1106
17	$ ightarrow \pi^{-}\pi^{+}b_{1}^{0},\ b_{1}^{0} ightarrow \pi^{0}\omega,\ \omega ightarrow \pi^{-}\pi^{0}\pi^{+}$	$\psi^\prime ightarrow \gamma \pi^+ \pi^+ \pi^0 \pi^0 \pi^- \pi^-$	342	44	1150
18	$J/\psi \to b_1^- \pi^+ \eta, \ b_1^- \to \pi^- \omega, \ \eta$	$\psi' o \gamma \gamma \pi^+ \pi^+ \pi^0 \pi^0 \pi^0 \pi^- \pi^-$	585	43	1193
19	1	\uparrow	475	43	1236
20	$^{.0}b_{1}^{+},\ b_{1}^{+} \to \pi^{+}\omega,$	\uparrow	205	42	1278
21	$J/\psi \to \bar{n}\pi^+\Delta^-, \ \Delta^- \to \pi^- n$	$\psi' ightarrow n \pi^+ \pi^0 \pi^0 \pi^- ar{n}$	226	41	1319
22	$h_c o \gamma \eta_c, \ \eta_c o K^{*-} \pi^+ K$	$\psi' ightarrow \gamma K^+ \pi^+ K_L \pi^0 \pi^- \pi^-$	200	39	1358
23	$\rightarrow \gamma \eta_c, \ \eta_c \rightarrow \pi^- K_S K^+, \ K_S \rightarrow$	$\psi' ightarrow \gamma K^+ \pi^+ \pi^0 \pi^- \pi^-$	123	38	1396
24	$K^* \to \pi^- K^+, \Lambda$	$\psi' ightarrow n K^+ \pi^0 \pi^- ar{n}$	104	37	1433
25	$\psi' \to \pi^0 h_c, h_c \to \gamma \eta_c, \eta_c \to \bar{K}^* \pi^- K^{*+}, \bar{K}^* \to K^- \pi^+, K^{*+} \to K_L \pi^+$	$\psi' ightarrow \gamma \pi^+ \pi^+ K_L \pi^0 \pi^- K^-$	134	35	1468
56	$/\psi,\ J/\psi \to \bar{n}\pi^-\pi^+$	$\psi' ightarrow n \pi^+ \pi^0 \pi^0 \pi^- ar{n}$	369	35	1503
27	$\chi_{c2} o \pi^- \pi^+ b_1^0, \; b_1^0 o \pi^0 \omega, \; \omega o \pi^- \pi^0 \pi^+$	\uparrow	151	35	1538
28	$h_c \to \gamma \eta_c, \ \eta_c \to \rho^0 \rho^0, \ \rho^0 \to \pi^- \pi^+, \ \rho^0$	$\psi^\prime ightarrow \gamma \pi^+ \pi^+ \pi^0 \pi^- \pi^-$	250	35	1573
56	$h_c ightarrow \gamma \eta_c, \; \eta_c ightarrow ar{K}^* \pi^- K^+, \; ar{K}^* ightarrow 1$	$\psi' ightarrow \gamma K^+ \pi^+ \pi^0 \pi^- K^-$	79	35	1608

Table 1: