

Number	Final-State	Beams and types
1	$H(5) \rightarrow b(6) + \bar{b}(7)$	<i>pp-el</i>
2	$\gamma(6) + \gamma(7)$	<i>pp-el</i>
3	$g(6) + g(7)$	<i>pp-el</i>
4	$q(6) + \bar{q}(7)$	<i>pp-el</i>
5	$c(6) + \bar{c}(7)$	<i>pp-el</i>
6	$b(6) + \bar{b}(7)$	<i>pp-el</i>
7	$g(6) + g(7) + g(8)$	<i>pp-el</i>
8	$q(6) + \bar{q}(7) + g(8)$	<i>pp-el</i>
9	$\pi^+(6) + \pi^-(7)$	<i>pp-el</i>
10	$\pi_0^0(6) + \pi_0^0(7)$	<i>pp-el</i>
11	$K^+(6) + K^-(7)$	<i>pp-el</i>
12	$K_0(6) + K_0(7)$	<i>pp-el</i>
13	$\rho_0(6) + \rho_0(7)$	<i>pp-el</i>
14	$\eta(6) + \eta(7)$	<i>pp-el</i>
15	$\eta(6) + \eta'(7)$	<i>pp-el</i>
16	$\eta'(6) + \eta'(7)$	<i>pp-el</i>
17	$\phi(6) + \phi(7)$	<i>pp-el</i>
18	$J/\psi(6) \rightarrow \mu^+(8) + \mu^-(9) + J/\psi(7) \rightarrow \mu^+(10) + \mu^-(11)$	<i>pp-el</i>
19	$J/\psi(6) \rightarrow \mu^+(8) + \mu^-(9) + \psi_{2S}(7) \rightarrow \mu^+(10) + \mu^-(11)$	<i>pp-el</i>
20	$\psi_{2S}(6) \rightarrow \mu^+(8) + \mu^-(9) + \psi_{2S}(7) \rightarrow \mu^+(10) + \mu^-(11)$	<i>pp-el</i>
21	$\chi_{c0}(5) \rightarrow \gamma(6) + J/\psi(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
22	$\chi_{c1}(5) \rightarrow \gamma(6) + J/\psi(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
23	$\chi_{c2}(5) \rightarrow \gamma(6) + J/\psi(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
24	$\chi_{c0}(5) \rightarrow S(6) + S(7)$	<i>pp-el</i>
25	$\chi_{c1}(5) \rightarrow S(6) + S(7)$	<i>pp-el</i>
26	$\chi_{c2}(5) \rightarrow S(6) + S(7)$	<i>pp-el</i>
27	$\chi_{c1}(5) \rightarrow f(6) + \bar{f}(7)$	<i>pp-el</i>
28	$\chi_{c2}(5) \rightarrow f(6) + \bar{f}(7)$	<i>pp-el</i>
29	$\chi_{c0}(5) \rightarrow \pi^+(6) + \pi^-(7) + \pi^+(8) + \pi^-(9)$	<i>pp-el</i>
30	$\chi_{c1}(5) \rightarrow \pi^+(6) + \pi^-(7) + \pi^+(8) + \pi^-(9)$	<i>pp-el</i>
31	$\chi_{c2}(5) \rightarrow \pi^+(6) + \pi^-(7) + \pi^+(8) + \pi^-(9)$	<i>pp-el</i>
32	$\chi_{c0}(5) \rightarrow \pi^+(6) + \pi^-(7) + K^+(8) + K^-(9)$	<i>pp-el</i>
33	$\chi_{c1}(5) \rightarrow \pi^+(6) + \pi^-(7) + K^+(8) + K^-(9)$	<i>pp-el</i>
34	$\chi_{c2}(5) \rightarrow \pi^+(6) + \pi^-(7) + K^+(8) + K^-(9)$	<i>pp-el</i>
35	$\chi_{c0}(5) \rightarrow 3(\pi^+(6, 8, 10) + \pi^-(7, 9, 11))$	<i>pp-el</i>
36	$\chi_{c1}(5) \rightarrow 3(\pi^+(6, 8, 10) + \pi^-(7, 9, 11))$	<i>pp-el</i>
37	$\chi_{c2}(5) \rightarrow 3(\pi^+(6, 8, 10) + \pi^-(7, 9, 11))$	<i>pp-el</i>
38	$\eta_c(5)$	<i>pp-el</i>
39	$\chi_{b0}(5) \rightarrow \gamma(6) + \Upsilon_{1S}(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
40	$\chi_{b1}(5) \rightarrow \gamma(6) + \Upsilon_{1S}(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
41	$\chi_{b2}(5) \rightarrow \gamma(6) + \Upsilon_{1S}(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
42	$\chi_{b0}(5) \rightarrow S(6) + S(7)$	<i>pp-el</i>
43	$X(6) + Z(7) \rightarrow e^+(8) + e^-(9)$	<i>pp-el</i>
44	$\chi_{b2}(5) \rightarrow S(6) + S(7)$	<i>pp-el</i>
45	$\chi_{b1}(5) \rightarrow f(6) + \bar{f}(7)$	<i>pp-el</i>
46	$\chi_{b2}(5) \rightarrow f(6) + \bar{f}(7)$	<i>pp-el</i>
47	$\eta_b(5)$	<i>pp-el</i>
48	$\rho_0(5) \rightarrow \pi^+(6)\pi^-(7)$	<i>pp-el</i>
49	$\phi(5) \rightarrow K^+(6)K^-(7)$	<i>pp-el</i>
50	$J/\psi(5) \rightarrow \mu^+(6)\mu^-(7)$	<i>pp-el</i>
51	$\Upsilon_{1S}(5) \rightarrow \mu^+(6)\mu^-(7)$	<i>pp-el</i>
52	$\psi_{2S}(5) \rightarrow \mu^+(6)\mu^-(7)$	<i>pp-el</i>
53	$\psi_{2S}(5) \rightarrow J/\psi(6) \rightarrow \mu^+(9) + \mu^-(10) + \pi^+(7) + \pi^-(8)$	<i>pp-el</i>
54	Not documented	
55	$W^+ \rightarrow \nu_l(8) + l^+(9) + W^- \rightarrow \bar{\nu}_l(10) + l^-(11)$	<i>AA-el pp-dd pp-sda pp-el</i>
56	$e^+(6) + e^-(7)$	<i>AA-el pp-dd pp-sda pp-el</i>
57	$\mu^+(6) + \mu^-(7)$	<i>AA-el pp-dd pp-sda pp-el</i>
58	$\tau^+(6) + \tau^-(7)$	<i>AA-el pp-dd pp-sda pp-el</i>
59	$\gamma(6) + \gamma(7)$	<i>AA-el pp-el</i>
60	$H(5) \rightarrow b(6) + \bar{b}(6)$	<i>AA-el pp-el</i>
61	Not documented	
68	$a(5) \rightarrow \gamma(6) + \gamma(7)$	<i>AA-el pp-dd pp-sda pp-el</i>
69	$M(5) \rightarrow \gamma(6) + \gamma(7)$ (Dirac Coupling)	<i>AA-el pp-el</i>
70	$M(5) \rightarrow \gamma(6) + \gamma(7)$ (βg Coupling)	<i>AA-el pp-el</i>
71	$m(6) + \bar{m}(7)$ (Dirac Coupling)	<i>AA-el pp-el</i>
72	$m(6) + \bar{m}(7)$ (βg Coupling)	<i>AA-el pp-el</i>
73	$\tilde{\chi}^-(6) \rightarrow \tilde{\chi}_0^1(8) + \mu^-(9) + \bar{\nu}_\mu(10) + \tilde{\chi}^+(7) \rightarrow \tilde{\chi}_0^1(11) + \mu^+(12) + \nu_\mu(13)$	<i>AA-el pp-el</i>
74	$\tilde{\chi}^-(6) \rightarrow \tilde{\chi}_0^1(8) + \bar{u}(9) + d(10) + \tilde{\chi}^+(7) \rightarrow \tilde{\chi}_0^1(11) + u(12) + \bar{d}(13)$	<i>AA-el pp-el</i>
75	$\tilde{\chi}^-(6) \rightarrow \tilde{\chi}_0^1(8) + \mu^-(9) + \bar{\nu}_\mu(10) + \tilde{\chi}^+(7) \rightarrow \tilde{\chi}_0^1(11) + u(12) + \bar{d}(13)$	<i>AA-el pp-el</i>
76	$\tilde{l}^-(5) \rightarrow \tilde{\chi}_0^1(8) + \mu^-(9) + \tilde{l}^+(6) \rightarrow \tilde{\chi}_0^1(10) + \mu^+(11)$	<i>AA-el pp-el</i>
77	$\phi(5) \rightarrow \mu^+(6)\mu^-(7)$	<i>pp-el</i>
78	$J/\psi(5) \rightarrow e^+(6)e^-(7)$	<i>pp-el</i>
79	$\psi_{2S}(5) \rightarrow e^+(6)e^-(7)$	<i>pp-el</i>
82	$X(6) + \gamma(7)$	<i>pp-el</i>
83	$X(6) + Z(7) \rightarrow \mu^+(8) + \mu^-(9)$	<i>pp-el</i>
84	Not documented	<i>pp-el</i>