

Table S-Coefficients (G, H) of X(*) in ETC Part 5

X(*)	G(a, b, c)	H(a, b, c)
X(7411)	$2S^2 + 3abc\$a\$$	$-2S^2 - 4abc\$a\$$
X(7412)	$-2S^2 + abc\$a\$$	$2S^2$
X(7413)	$6(E+F)F\$a\$S^2 - 4\$a\S^4 $+2(E+F)\$aS_A\$S^2 + 2(E+F)^2\$aS_A^2\$$ $-6\$aS_A^2\$S^2 - 2\$aS_A^4\$ + 2\$aS_B^2S_C^2\$$	$-3(E+F)F\$a\$S^2 + (E+F)^3\$aS_A\$$ $-4(E+F)\$aS_A\$S^2 + (E+F)^2\$aS_A^2\$$ $+(E+F)^2\$aS_BS_C\$ - 2(E+F)\$aS_A^3\$$
X(7414)	$3FS^2 - 3F\$abS_C\$$	$(2E-F)S^2 + 2\$ab\S^2
X(7415)	$8(E+F)F\$a\$S^2 + 2\$a\$S^4 + (E+F)^3\$aS_A\$$ $-4(E+F)\$aS_A\$S^2 + 2\$aS_A\FS^2 $+3(E+F)^2\$aS_A^2\$ + 2\$aS_A^2\$S^2 - 2\$aS_A^2\$$ $S^2 + (E+F)^2\$aS_BS_C\$ + 2\$aS_BS_C\$S^2$ $+2\$aS_BS_C\$S^2 - 2(E+F)\$aS_A^3\$ - 2\$aS_A^4\$$	$2(E+F)^2\$a\$S^2 - 6\$a\$S^4 + 2(E+F)\$aS_A\S^2 $-4\$aS_A^2\S^2
X(7416)	$2(E+F)F\$a\$S^2 - 4\$a\$S^4 + (E-2F)abcS^2$ $+F\$aS_A\$S^2 + 2(E+F)^2\$aS_A^2\$$ $-5\$aS_A^2\$S^2 - 2\$aS_A^4\$$	$2(E+F)(2E+F)\$a\$S^2 - 5\$a\S^4 $-2(2E+F)abcS^2 + 2(E+F)^2\$aS_A\$$ $-8\$aS_A^2\$S^2 + \$aS_BS_C\$S^2 - 2\$aS_A^4\$$
X(7417)	$(E-8F)S^2$	$-2(E+F)^3 + 6(E+F)S^2$
X(7418)	$6(E+F)^2F - (3E-6F)S^2$	$3(E+F)^2(E-2F) + 2(E+F)S^2$
X(7419)	$2(E+F)^2(E-2F)\$a\$ - 3(3E-8F)\$a\$S^2$ $+2(E+F)(E-2F)\$aS_A\$ - 6\$aS_A\$S^2$ $+(E-2F)\$aS_BS_C\$ + 4(2E+5F)\$aS_A^2\$$ $-12\$aS_A^3\$$	$4(E+F)^3\$a\$ - 12(E+F)\$a\$S^2$ $+4(E+F)^2\$aS_A\$ - 6\$aS_A\$S^2$ $+2(E+F)\$aS_BS_C\$ - 8(E+F)\$aS_A^2\$$
X(7420)	$2(E+F)\$a\$S^2 + (E+F)(2E+3F)abc$ $-3abcS^2 - \$aS_A\$S^2 + (2E+3F)\$aS_A^2\$$	$(E-F)\$a\$S^2 - 2(E+F)^2abc + 4abcS^2$ $+\$aS_A\$S^2 - 2(E+F)\$aS_A^2\$$
X(7421)	$2(E+3F)\$a\$S^2 + 2(E+F)Fabc$ $+6abcS^2 + 4\$aS_A\$S^2 + 2F\$aS_A^2\$$	$(E-6F)\$a\$S^2 + (E+F)(E-2F)abc$ $-6abcS^2 - 4\$aS_A\$S^2 + (E-2F)\$aS_A^2\$$
X(7422)	$6(E+F)F - 2S^2$	$(E+F)(E-8F)$
X(7423)	$2(E+F)^2F\$a\$S^2 - (3E-8F)\$a\S^4 $-(E+F)(E-8F)abcS^2$ $+2\{(E+F)E-S^2\}\$aS_A\S^2 $+(E+8F)\$aS_A^2\$S^2 - 2(E+F)^2\$aS_A^3\$$	$(E+F)^2(2E+F)\$a\$S^2 - 2(3E+2F)\$a\S^4 $+2(E+F)^4abc - 6(E+F)^2abcS^2$ $+(E+F)^4\$aS_A\$ - 4(E+F)^2\$aS_A\$S^2$ $-2\$aS_A\$S^4 + 3(E+F)^3\$aS_A^2\$$ $-4(E+F)\$aS_A^2\$S^2 + (E+F)^3\$aS_BS_C\$$ $-2(E+F)^2\$aS_A^3\$ - 2\$aS_A^3\$S^2$
X(7424)	$(E^2 + 32EF + 9F^2 - 18S^2)\$a\$S^2$ $-(E+F)(E^2 - 28EF - 56F^2 + 10S^2)abc$	$-(4E^2 + 44EF + 40F^2 - 26S^2)\$a\$S^2 - 2\$a\$S^4$ $-(E+F)(6E^2 + 30EF + 24F^2 - 26S^2)abc$

	$\begin{aligned} & -(2E-34F)abcS^2 - (E+F)^2(E-8F)aS_A\$ \\ & - 4(E-13F)aS_A\$S^2 \\ & + (6E^2-21EF-12S^2)aS_A^2\$ \\ & - (E+F)(E-8F)aS_BS_C\$ + 2aS_BS_C\$S^2 \\ & - 2(E-17F)aS_A^3\$ - 2aS_A^4\$ - \\ & 36a\$F^2S^2 - 4(E+F)^2a\$S^2 + \\ & 40(E+F)F\$a\$S^2 \end{aligned}$	$\begin{aligned} & +(4E-50F)abcS^2 + 2(E-8F)aS_A\$S^2 \\ & - (6E^2+30EF+24F^2-24S^2)aS_A^2\$ \end{aligned}$
X(7425)	$\begin{aligned} & 6(E+F)F\$a\$S^2 - 4a\$S^4 \\ & + 2(E+F)aS_A\$S^2 \\ & + 2(E+F)^2aS_A^2\$ - 6aS_A^2\$S^2 \\ & - 2aS_A^4\$ + 2aS_B^2S_C^2\$ \end{aligned}$	$\begin{aligned} & 2(E+F)(2E+F)a\$S^2 - 2a\$S^4 \\ & + 2(E+F)^3abc - 2(E+F)abcS^2 \\ & + (E+F)^3aS_A\$ - 4(E+F)aS_A\$S^2 \\ & + 3(E+F)^2aS_A^2\$ - 2aS_A^2\$S^2 \\ & + (E+F)^2aS_BS_C\$ - 2(E+F)aS_A^3\$ \end{aligned}$
X(7426)	-E-10F	6E+6F
X(7427)		
X(7428)	$2F\$a\$S^2 - 2abcS^2 + (E+F)aS_A^2\$ - \$aS_A^3\$$	$-(E+F)a\$S^2 + 2abcS^2 - aS_A\S^2
X(7429)	$2F\$a\$S^2 + 6(E+F)Fabc - 2abc S^2 - 2(E-2F)aS_A^2\$ + 2aS_A^3\$$	$\begin{aligned} & (E-7F)a\$S + (E+F)(E-8F)abc \\ & - (E+F)^2aS_A\$ + 4aS_A\$S^2 - 9F\$aS_A^2\$ \\ & - (E+F)aS_BS_C\$ + 2aS_A^3\$ \end{aligned}$
X(7430)		
X(7431)		
X(7432)		
X(7433)		
X(7434)	$\begin{aligned} & (E+F)(E-17F)a\$S^2 + 9a\$S^4 \\ & - 5(E+F)aS_A\$S^2 - aS_BS_C\$S^2 \\ & - 6(E+F)^2aS_A^2\$ + 16aS_A^2\$S^2 \\ & + 6aS_A^4\$ - 6aS_B^2S_C^2\$ \end{aligned}$	$\begin{aligned} & - 2(E+F)^4a\$ + 6(E+F)^2a\$S^2 \\ & - 2(E+F)^3aS_A\$ + 3(E+F)aS_A\$S^2 \\ & - (E+F)^2aS_BS_C\$ + 4(E+F)^2aS_A^2\$ \end{aligned}$
X(7435)		
X(7436)	$\begin{aligned} & (E+F)(E-3F)F\$a\$S^2 + 4a\$FS^4 \\ & - 2(E+F)^3Fabc + 6(E+F)FS^2abc \\ & - (E+F)^3F\$aS_A\$ + 2(2E+F)F\$aS_A\$S^2 \\ & - 5(E+F)^2F\$aS_A^2\$ + 6aS_A^2\$FS^2 \\ & - (E+F)^2F\$aS_BS_C\$ - 2F\$aS_BS_C\$S^2 \\ & + 2(E+F)F\$aS_A^3\$ + 2F\$aS_A^4\$, \end{aligned}$	$\begin{aligned} & - 2(E+F)^2F\$a\$S^2 + (E-2F)a\$S^4 \\ & + (E+F)(E-8F)abcS^2 - 2(E+F)F\$aS_A\$S^2 \\ & + (E-2F)aS_A^2\$S^2 \end{aligned}$
X(7437)	$\begin{aligned} & 4(2E-F)FS^2 - 4S^4 + 4(E+F)^2(E+3F)ab\$ \\ & - 8(E+F)ab\$S^2 \end{aligned}$	$\begin{aligned} & 4(E+F)(2E+F)S^2 + 4S^4 - 8(E+F)^3ab\$ \\ & + 2(13E+5F)ab\$S^2 + 12(E+F)^2abS_C\$ \end{aligned}$

	$-6(E+F)(E+3F)\$abS_C\$ + 8\$abS_C\$S^2$ $-4(E+3F)\$abS_A\$S_B\$ + 2(E+3F)\$abS_C^2\$$	$-10\$abS_C\$S^2 + 8(E+F)\$abS_A\$S_B\$$ $-4(E+F)\$abS_C^2\$$
X(7438)		
X(7439)	$(E+F)^2(8E+5F)\$a\$S^2 - (3E-8F)\$a\S^4 $+2(E+F)^4abc - (E+F)(7E-2F)abcS^2$ $+(E+F)^4\$aS_A\$ - 2(E+F)(2E+3F)\$aS_A\$S^2 - 2\$aS_A\$S^4 + 3(E+F)^3\$aS_A^2\$$ $+(E+8F)S^2\$aS_A^2\$ + (E+F)^3\$aS_BS_C\$ - 2(E+F)\$aS_BS_C\$S^2 - 4(E+F)^2\$aS_A^3\$ + 2\$aS_A^5\$$	$2(E+F)^3\$a\$S^2 - 4(E+F)\$a\S^4 $+2(E+F)^2\$aS_A\$S^2 - 6(E+F)\$aS_A^2\S^2
X(7440)		
X(7441)	$5(E+F)F\$a\$S^2 - 4\$a\$S^4 + 2(E+F)^3abc$ $-6(E+F)abcS^2 + (E+F)^3\$aS_A\$ - 4(E+F)\$aS_A\$S^2 + 5(E+F)^2\$aS_A^2\$ - 6\$aS_A^2\$S^2 + (E+F)^2\$aS_BS_C\$ - 2(E+F)\$aS_A^3\$ - 2\$aS_A^4\$ + 2\$aS_B\$S_C\$^2\$$	$-2(E+F)^3abc + 6(E+F)abcS^2$ $+2(E+F)\$aS_A\$S^2 - 2(E+F)^2\$aS_A^2\$$
X(7442)	$2S^4 + 6abc\$a\$S^2 + 2E\$a\$^2S^2 + 8\$a\$^4S^2$ $-4abcE\$a\$^3 + 16abc\$a\5	$-2S^4 - 2abc\$a\$S^2 + 5E\$a\$^2S^2 \wedge 5\$a\$^4S^2$ $+10abcE\$a\$^3 - 12abc\$a\5
X(7443)		
X(7444)	$4(E+F)^2F\$a\$ - 6E\$a\$S^2$ $+4(E+F)F\$aS_A\$ - 2\$aS_A\$S^2$ $+2F\$aS_BS_C\$ + 4(E-F)\$aS_A^2\$ - 4\$aS_A^3\$$	$2(E+F)^2(E-2F)\$a\$ - (5E-4F)\$a\$S^2$ $+2(E+F)(E-2F)\$aS_A\$ - 2\$aS_A\$S^2$ $+(E-2F)\$aS_BS_C\$ - 4(E-2F)\$aS_A^2\$$
X(7445)		
X(7446)		
X(7447)	$4F\$a\$S^2 - 4abcS^2$ $+2(E+F)\$aS_A^2\$ - 2\$aS_A^3\$$	$-(4E+5F)\$a\$S^2 + 2(E+F)^2abc + 6abcS^2$ $+(E+F)^2\$aS_A\$ + 2\$aS_A\$S^2$ $+(E+F)\$aS_BS_C\$ - 3(E+F)\$aS_A^2\$$ $+4\$aS_A^3\$$
X(7448)		
X(7449)		
X(7450)		
X(7451)	$8S^2 - abc\$a\$$	$-12S^2 + abc\$a\$$
X(7452)	$2(2E-3F)F\$a\$S^2 + 2(E+F)(2E-F)Fabc$ $- 2FabcS^2 + 2(E-2F)F\$aS_A^2\$$	$(2E+F)F\$a\$S^2 - 2\$a\$S^4 + 2(E+F)^2Fabc$ $- 2EabcS^2 - (E+F)^2F\$aS_A\$ + 4F\$aS_A\$S^2$

	$+2F\$aS_A^3\$$	$+(E+F)F\$aS_A^2\$-2\$aS_A^2\S^2 $-(E+F)F\$aS_BS_C\$+2F\$aS_A^3\$$
X(7453)		
X(7454)	$3F\$aS^2-2(E+F)(E-2F)abc+4abcS^2$ $-(E+F)^2\$aS_A\$+6\$aS_A\S^2 $-(E+F)\$aS_BS_C\$-(5E-F)\$aS_A^2\$$ $+4\$aS_A^3\$$	$(E-8F)\$aS^2+3(E+F)(E-2F)abc-6abcS^2$ $-2\$aS_A\$ S^2+3(E-2F)\$aS_A^2\$$
X(7455)	$4(E+F)F\$aS^2-6\$aS^4+(13E-2FabcS^2$ $+(E+2F)\$aS_A\$S^2+4(E+F)^2\$aS_A^2\$$ $-8\$aS_A^2\$-4\$aS_A^4\$$	$-4(E+F)F\$aS^2+2\$aS^4-2(8E-F)abcS^2$ $+F\$aS_A\$S^2-4(E+F)^2\$aS_A^2\$+5\$aS_A^2\$$ $-2\$aS_BS_C\S^2
X(7456)	$4S^2-abc\$a\$$	$abc\$a\$$
X(7457)	$3(2E+F)\$aS^2-2(E+F)^2abc-14abcS^2$ $-(E+F)^2\$aS_A\$+(E+F)\$aS_A^2\$$ $-(E+F)\$aS_BS_C\$-2\$aS_A^3\$$	$-2(E+F)\$aS^2-2\$aS_A\$S^2+12abcS^2$
X(7458)		
X(7459)		
X(7460)	$2(2E-F)\$aS^2-4(E+F)^2 abc +8abcS^2$ $+2\$aS_A\$S^2-4(E+F)\$aS_A^2\$$	$(E-4F)\$aS^2+2(E+F)(E-F)abc-6abcS^2$ $-2\$aS_A\$S^2+2(E-F)\$aS_A^2\$$
X(7461)		
X(7462)	$2(E+F)(E-2F)\$aS^2-2\aS^4 $+2(E+F)^3abc-6(E+F)abcS^2$ $-2(E+F)\$aS_A\$S^2+2\$aS_A^4\$$ $-2\$aS_B^2S_C^2\$$	$-(E+F)(2E+F)\$aS^2+6\aS^4 $-2(E+F)^3abc+6(E+F)abcS^2$ $-(E+F)^3\$aS_A\$+4(E+F)\$aS_A\S^2 $-(E+F)^2\$aS_BS_C\$-3(E+F)^2\$aS_A^2\$$ $+6\$aS_A^2\$S^2+2(E+F)\$aS_A^3\$$
X(7463)		
X(7465)	$(E+F)(3E+2F)+(4E+3F)\$ab\$$ $-\$abS_C\$$	$-2(E+F)^2-2(E+F)\$ab\$$
X(7466)	$2FS^2+(E+F)F\$ab\$-F\$abS_C\$$	$-2(E+F)S^2-2(E+F)^2\$ab\$+2(E+F)\$abS_C\$$
X(7467)	$(E+F)^7+(E+F)^4(E+5F)S^2$ $-(E+F)(5E^2+EF-8F^2)S^4+3FS^6$	$-4(E+F)^7+3(E+F)^4(E-3F)S^2$ $+(E+F)^2(4E-3F) S +(E+F)S^6$
X(7468)	$3(E^3+E^2F+8EF^2+8F^3)-2(7E-11F)S^2$	$-6(E^3+6E^2F+9EF^2+4F^3)+2(16E-11F)S^2$
X(7469)		
X(7470)	$2(E+F)^5(E-2F)$ $-2(E+F)^2(2E^2-3EF+4F^2)S^2$ $-2(2E^2+4EF+2F^2)S^4$	$-3(E+F)^5(E-2F)+2S^6$ $+(E+F)^2(5E^2-8EF+14F^2)S^2$ $-(8E^2+EF-10F^2)S^4$

X(7471)	$2E^2 + 4EF - 8F^2 - 8S^2$	$-5E^2 - 37EF - 32F^2 + 24S^2$
X(7472)	$(E+F)^2(E-2F) - 2(2E-7F)S^2$	$-2(E+F)^3 + 9(E-2F)S^2$
X(7473)	$(E+F)(E+10F)F - 6FS^2$	$-6(E+F)^2F + (E+10F)S^2$
X(7474)	$E-2F+2\$ab\$$	$-2E+2F$
X(7475)	$4(E+F)(7E-2F)F\$a\S^2 $-2(7E-20F)\$a\$S^4 + 2(E+F)^3(E+4F)abc$ $-2(E+F)(7E-20F)abcS^2$ $+2(E-8F)\$aS_A\$FS^2 + 4(E+F)^2(E-2F)$ $\$aS_A^2\$ - 2(7E-20F)\$aS_A^2\$S^2 - 2(E-8F)$ $\$aS_A^2\$S^2 + 2(E-8F)\$aS_BS_C\$S^2 -$ $2(E-8F)\$aS_A^4\$$	$-6(E+F)^2(E+4F)\$a\$S^2 + 6(5E-4F)\$a\S^4 $-8(E+F)^4abc + 36(E+F)(E-2F)abcS^2$ $+2(E-8F)(E+F)\$aS_A\$S^2 - 8(E+F)^3\$aS_A^2\$$ $+6(5E-4F)\$aS_A^2\S^2
X(7476)	$3(E+F)(4E+9F)F\$a\$S^2 - 12F\$a\S^4 $+6(E+F)^3Fabc - 6(E+F)FabcS^2$ $-3(E+F)^3F\$aS_A\$ + 6(2E+F)F\$aS_A\$S^2$ $-3(E+F)^2F\$aS_A^2\$ - 6F\$aS_A\$S^2$ $-3(E+F)^2F\$aS_BS_C\$ - 6F\$aS_BS_C\$S^2$ $+6(E+F)F\$aS_A^3\$ + 6F\$aS_A^4\$]S^2$	$-2(E+F)^2(2E+5F)\$a\$S^2 + 9(E+2F)\$a\S^4 $-4(E+F)^4abc + 9(E+F)EabcS^2$ $-6(E+F)F\$aS_A\$S^2 - 4(E+F)^3\$aS_A^2\$$ $+9(E+3F)\$aS_A^2\S^2
X(7477)		
X(7478)		
X(7479)		
X(7480)	$(E^2 + 20EF - 8F^2)F - 8FS^2$	$-2(5E^2 + EF - 4F^2)F + 2(E+4F)S^2$
X(7481)	$2(E+F)^4(E+4F)\$a\$$ $-2(E+F)(6E^2 + 31EF - 56F^2)\$a\$S^2$ $+12(2E-7F)\$a\S^4 $+2(E+F)^3(E+4F)\$aS_A\$$ $-3(E+F)(5E-16F)\$aS_A\S^2 $+(E+F)^2(E+4F)\$aS_BS_C\$$ $-6(E-2F)\$aS_BS_C\S^2 $-2(E+F)^2(5E-16F)\$aS_A^2\$$ $+36(E-4F)\$aS_A^2\$S^2 + 6(E-8F)\$aS_A^4\$$	$-8(E+F)^5\$a\$ + (E+F)^2(13E+4F)\$a\$S^2$ $+(E+F)^2(35E-64F)\$a\S^4 $-12(4E-5F)\$a\$S^6 - 8(E+F)^4\$aS_A\$$ $+(E-8F)(E+F)\$aS_A\S^2 $+8(E+F)(4E-5F)\$aS_A\S^4 $-4(E+F)^3\$aS_BS_C\$ - 7(E-8F)\$aS_BS_C\$S^2$ $+4(4E-5F)\$aS_BS_C\$S^4 + 16(E+F)^3\$aS_A^2\$$ $+4(E-8F)\$aS_A^2\$S^2 - 16(4E-5F)\$aS_A^2\S^4
X(7482)	$6(E+F)^2F - 6FS^2$	$-4(E+F)^3 + 9ES^2$
X(7483)	$-F$	$E+2F$
X(7484)	$2E+F$	$-E-F$
X(7489)	$3abc\$a\$ + 4S^2$	$abc\$a\$ - 4S^2$
X(7490)	$4F$	$-\$a\2
X(7491)	$abc\$a\$ + 2S^2$	$-abc\$a\$ - 6S^2$

X(7497)	-\$a\$F	(2E+F)\$a\$+2abc
X(7498)	\$a\$ ² F	S ² +abc\$a\$
X(7501)	-2\$a\$F	(E+2F)\$a\$+abc
X(7504)	abc\$a\$+6S ²	2S ²
X(7508)	3abc\$a	-abc\$a\$-8S ²
X(7510)	F\$a\$ ²	-F\$a\$ ² +4abc\$a\$+4S ²
X(7511)	-F\$a\$	(2E+3F)\$a\$+2abc
X(7513)	-2F	4F-\$a\$ ²
X(7515)	abc\$a\$+S ²	-abc\$a\$-S ²
X(7518)	F\$a\$ ²	4abc\$a\$+4S ²
X(7520)	(E+2F)\$a\$+abc	-2(E+F)\$a\$-2abc
X(7521)	-2F\$a\$	(E+F)\$a\$+abc
X(7522)	-4F+\$a\$ ²	\$a\$ ²
X(7523)	(2E+F)\$a\$+2abc	- (E + F)\$a\$ - abc
X(7524)	-F\$a\$ ²	-F\$a\$ ²
X(7531)	2F\$a\$ ²	-F\$a\$ ² +2abc\$a\$+2S ²
X(7532)	F\$a\$ ² +abc\$a\$+S ²	abc\$a\$+S ²
X(7534)	F	F-\$a\$ ²
X(7535)	(E-F)\$a\$+abc	(E+F)\$a\$+abc
X(7536)	4F+\$a\$ ²	-\$a\$ ²
X(7537)	-2F\$a\$	E\$a\$+abc
X(7538)	-F\$a\$ ² +2abc+2S ²	-4abc\$a\$-4S ²
X(7540)	-E-4F	9E+12F
X(7541)	-F\$a\$ ²	-2F\$a\$ ² +2abc\$a\$+2S ²
X(7543)	4F	2F-\$a\$ ²
X(7546)	F	-F-\$a\$ ²
X(7547)	2F	E+6F
X(7548)	abc\$a\$+2S ²	2abc\$a\$+6S ²
X(7549)	(E+F)\$a\$+abc	-F\$a\$
X(7551)	2F\$a\$ ²	F\$a\$ ² +2abc\$a\$+2S ²
X(7554)	4F	-2F-\$a\$ ²
X(7555)	7E+16F	-13E-16F
X(7557)	E\$a\$+abc	2(E+F)\$a\$+2abc
X(7559)	F\$a\$	(E+3F)\$a\$+abc
X(7560)	\$a\$ ² +2F	-2\$a\$ ²

X(7561)	$(E+3F)a\$+abc$	$-(E+F)a\$-abc$
X(7562)	$(E-2F)a\$+abc$	$(3E+2F)a\$+3abc$
X(7563)	$2F$	$4F+a\2
X(7564)	$E+4F$	$5E+12F$
X(7565)	$E+4F$	$6E+12F$
X(7567)	$2abc\$a\$+2S^2$	$F\$a\2
X(7568)	$5E+12F$	$-3E-4F$
X(7570)	$9E+12F$	$4E+4F$
X(7572)	$F\$a\$^2+4abc\$a\$+4S^2$	$-2abc\$a\$-2S^2$
X(7573)	$2F -2\$a\2	$\$a\2
X(8727)	S^2	$2abc\$a\$+S^2$
X(8728)	$2abc\$a\$+S^2$	S^2
X(9715)	$E+3F$	$-2E-3F$
X(9832)	$(E+F)^2(E-2F)-(E+10F)S^2$	$-2(E+F)^3+6(E+F)S^2$
X(9855)	$(E+F)^2-9S^2$	$18S^2$