

Table S-Coefficients (G, H) of X(\*) in ETC Part 17

X(*)	G(a, b, c)	H(a, b, c)
X(33300)	$(E+F)^4 - S^4$	$2(E+F)^2 S^2 - 6S^4$
X(33301)	$(E+F)^4 - (E+F)(E+3F)S^2$	$(E+F)^2 S^2 - 3S^4$
X(33302)	$(E+F)S^2 - abS^2 + 2abS_A S_B$	$-3(E+F)S^2 + abS^2$
X(33303)	$2EaS^2 + aS_A S^2 - 4(E+F)S_B S_C - 3abcS^2$	$-2(E+F)aS^2 - aS_A S^2 + 9abcS^2$
X(33304)	$2(E+F)^2 S^2 + S^4 + 2(E-3F)abS^2 + 12(E+F)abS_A S_B - 4abS_C S^2$	$-6(E+F)^2 S^2 - 3S^4 + 4(E+F)abS^2 - 2abS_C S^2$
X(33305)	$3FS^2 - abS_A S_B$	$-(E+F)S^2 + abS^2$
X(33306)	$2(E+F)F + 3S^2 - 2abS^2 F$	$-2(E+F)^2 + S^2 + 2abS_C S^2$
X(33307)	$4(E+F)^2 F + FS^2 - abS_A S_B - 4abS_C F$	$-4(E+F)^3 + 3(3E-F)S^2 + abS^2 + 4abS_C S^2$
X(33308)	$8(E+F)^3 F - 8(2E-F)FS^2 + S^4 - 4abS^2 FS^2 - 8abS_C S^2 F$	$-8(E+F)^3 + 8(E+F)(3E-F)S^2 - 3S^4 + 4abS_C S^2 + 8abS_C S^3$
X(33309)	$a(S_B - S_C)S^2 - abS_B S_C(S_B - S_C) + 3aS_A^2(S_B - S_C)$	$-3(a-b)S_C S^2$
X(33310)	$(E+F)(E+12F)S^2 + 4S^4 - 4(E+F)abS^2 - 4abS_C S^3 + 4\{(E+F)^2 - S^2\}abS_C$	$-10(E+F)^2 S^2 - 2S^4 + 4(E+F)abS^2 + 4abS_C S^2$
X(33311)	$(E+F)(2E-3F)S^2 + S^4 + 2(2E-3F)S^2 ab + 2\{4(E+F)^2 - 5S^2\}abS_C + 8abS_C S^3$	$-5(E+F)^2 S^2 - S^4 + 2(E+F)abS^2 + 2abS_C S^2$
X(33312)	$4(E+F)^2(E-3F)S^2 + (9E-4F)S^4 - \{3(E+F)(E+5F) + 13S^2\}S^2 ab + \{15(E+F)^2 + 14S^2\}abS_A S_B - \{9(E+F)^3 - (27E+8F)S^2\}abS_C - abS_C^2 S^2 + 9abS_C^4$	$-\{8(E+F)^3 + 21ES^2\}S^2 + \{3(E+F)^2 + 19S^2\}S^2 ab - 24S^2 abS_A S_B + 4S^2 abS_C S^2$
X(33313)	$FaS^2 - (E+F)aS_B S_C$	$(E+F)aS^2 - aS_A S^2$
X(33314)	$(E+F)(E-4F)$	$-2(E+F)^2 + 2S^2$
X(33315)	$2(E+F)FS^2 a - aS_A FS^2 - (E+F)^2 aS_B S_C$	$\{(E+F)^2 - 2S^2\}aS^2 - aS_A^2 S^2 + 2aS_B S_C S^2$

X(33316)	$(E+F)^2(E-6F)+2FS^2$	$-2(E+F)^3+3(E+2F)S^2$
X(33317)	$3(E+F)^2FS^2a_1-(E+F)^3a_2S_B$ $S_C-3(E+F)FS^2a_3a_4$ $+FS^2a_5a_6^2$	$\{(E+F)^3-3(E+F)S^2\}a_7S^2+3(E+F)$ $a_8S_B S_C S^2-a_9a_{10}^3S^2$
X(33318)	$(E-8F)(E+F)^3+(5E+8F)FS^2$	$-2(E+F)^4-2S^4+4(E+F)(E+3F)S^2$
X(33319)	$(E+F)^4(E-10F)+(E+F)(9E$ $+20F)FS^2-2FS^4$	$-2(E+F)^5+5(E+F)^2(E+4F)S^2$ $-5(E+2F)S^4$
X(33320)	$a_1a_2a_3S^2+2a_4a_5FS^2$ $+a_6a_7^3F$	$-a_8S^4-2a_9a_{10}^2S^2-a_{11}a_{12}^4$
X(33321)	$(E+F)^5F+S^6-(E-3F)FS^4$ $-(E+F)^2(2E-3F)FS^2$	$-(E+F)^6-S^6+3(6E^2+12EF+5F^2)S^4$ $+3(E+F)^3(E-F)S^2$
X(33322)	$a_1a_2a_3S^4+3a_4a_5FS^4$ $+3a_6a_7^3FS^2+a_8a_9^5F$	$-a_{10}S^6-3a_{11}a_{12}^2S^4-3a_{13}a_{14}^4S^2$ $-a_{15}a_{16}^6$
X(33323)	$(E+F)^7F+S^8-(E-4F)FS^6$ $-(E+F)(E-6F)F^2S^4$ $-(E+F)^4(3E-4F)FS^2$	$-(E+F)^8-S^8-4F^2S^6-2(E+F)^2(E^2-2EF+$ $3F^2)S^4+4(E+F)^5(E-F)S^2$
X(33324)	$6(E+F)^2F-(E+2F)S^2$	$2(E+F)^3-3(E+2F)S^2$
X(33325)	$(E+4F)S^2+2a_1a_2a_3$	$-4(E+F)S^2-2a_4a_5^2$
X(33326)	$(E+5F)a_1S^2-(E+F)a_2a_3a_4$ $+2a_5a_6S^2$	$-5(E+F)a_7S^2-a_8a_9S^2$
X(33327)	$(E+F)(E+12F)S^2+4a_1a_2FS^2$ $+4(E+F)a_3a_4a_5+4S^4$	$-10(E+F)^2S^2-4(E+F)a_6a_7^2$ $-4a_8a_9S^2-2S^4$
X(33328)	$\{(E+F)(E+18F)+3S^2\}a_1S^2$ $-\{(E+F)^2+3S^2\}a_2a_3a_4$ $+(5E+4F)S^2a_5a_6-a_7a_8^2S^2$	$-\{17(E+F)^2-4S^2\}S^2a_9$ $+6a_{10}a_{11}a_{12}S^2+7a_{13}a_{14}^2S^2$
X(33329)	$(E-2F)+a_1a_2$	$-2(E+F)-3a_3a_4$
X(33661)		
X(33662)		
X(33710)	$(E+F)FS^2+S^4+(E+F)^3a_1a_2$ $+(E-F)a_3a_4S^2$ $+(E+F)a_5a_6a_7a_8-a_9a_{10}^3$	$-(E+F)^2S^2-S^4-2(E+F)a_{11}a_{12}S^2$
X(33711)	$2(E+F)^2FS^2-3(E+2F)S^4+(E+$ $F)^4a_1a_2-2(E+F)Ea_3a_4S^2+2S$ $a_5a_6FS^2+(E+F)^2a_7a_8a_9$ $-a_{10}a_{11}a_{12}S^2-a_{13}a_{14}^4$	$-2(E+F)^3S^2+3(E+2F)S^4$ $-3(E+F)^2a_{15}a_{16}S^2+a_{17}a_{18}S^4$

X(33712)	$\$abS_A S_B (a^8 - b^8)\$$	$-\$ab(a^8 - b^8)S^2$
X(33713)	$\$aS_A (b^{10} S_B - c^{10} S_C)\$$	$-\$a(b^{10} - c^{10})S^2$
X(33714)	$\$aS_B S^4 - \$aS_C S^4$ $-2\$aS_B^2 S_C S^2 + 2\$aS_B S_C^2 S^2$ $+\$aS_B^3 S_C^2 - \$aS_B^2 S_C^3$	$\$aS_B^3 S^2 - \$aS_C^3 S^2 + \$aS_B^2 S_C S^2$ $-\$aS_B S_C^2$
X(33715)	$\$aS_B^2 S^2 - \$aS_C^2 S^2$ $-2\$aS_B^3 S_C S^2 + 2\$aS_B S_C^3 S^2$ $+\$aS_B^4 S_C^2 - \$aS_B^2 S_C^4$	$\$aS_B^4 + \$aS_B S_C^3 + 3\$aS_B^3 S_C$ $-\$aS_B^3 S_C - \$aS_C^4 - 3\$aS_B S_C^3$
X(33716)	$\$a^9 (b^2 - c^2) S_A^2 \$$	$-\$a^9 (b^2 - c^2) S^2$
X(33717)	$(E+F)^2 (E+4F) - 2(E+2F)S^2$	$-4(E+F)^3 + (3E+4F)S^2$
X(33718)	$(E+F)F\$aS_B - (E+F)F\$aS_C -$ $\$aS_A^2 S_B + \$aS_C S_A^2 \$,$	$-(E+F)^2 \$aS_B + (E+F)^2 \$aS_C \$$ $+\$aS_A^2 S_B - \$aS_C S_A^2 \$$
X(33719)	$\$a^3 S_A (b^6 S_B - c^6 S_C)\$$	$-\$a^3 (b^6 - c^6) S^2$
X(33720)	$\$ab(a^2 b^2)(a^4 - b^4) S_A S_B \$$	$-\$ab(a^2 b^2)(a^4 - b^4) S^2$
X(33721)	$\$ab(a^6 - b^6) a^2 b^2 S_A S_B \$$	$-\$ab(a^6 - b^6) a^2 b^2 S^2$
X(33722)	$\$a^5 b^4 (S_A^2 + S_B^2)\$$ $-\$a^5 c^4 (S_A^2 + S_C^2)\$,$	$2\$a^5 (b^4 - c^4) S^2$
X(33723)	$\$a^7 \{b^4 (S_A^2 + S_B^2) -$ $c^4 (S_C^2 + S_A^2)\}\$$	$2\$a^7 (b^4 - c^4) S^2$
X(33724)	$\$S_A a^5 (S_B b^6 - S_C c^6)\$$	$-\$a^5 (b^6 - c^6) S^2$
X(33725)		
X(33726)	$\$S_A a^5 (S_B b^{10} - S_C c^{10})\$$	$-\$a^5 (b^{10} - c^{10}) S^2$
X(33727)	$\$a^7 S_A (b^6 S_B - c^6 S_C)\$$	$-\$a^7 (b^6 - c^6) S^2$
X(33728)	$(E+F)^3 F + (E+2F)FS^2 + S^4$	$-(E+F)^4 - 2(E+F)FS^2 - S^4$
X(33729)	$\$ab(b^4 c^4) S_C S_A \$$ $-\$ab(c^4 a^4) S_B S_C \$$	$-\$ab(b^4 c^4) S^2 + \$ab(c^4 a^4) S^2$
X(33730)		
X(33731)	$\$abS_B FS^2 - \$abS_A FS^2$ $+\$abS_A S_C^3 - \$abS_B S_C^3 \$$	$(E+F)\$abS_A S^2 - (E+F)\$abS_B S^2$ $+\$abS_C S_A S^2 - \$abS_B S_C S^2$
X(33732)	$\$a(b^6 - c^6) S_B S_C \$$	$-\$a(b^6 - c^6) S^2$
X(33733)	$\$abS_C (a^6 S_A - b^6 S_B)\$$	$-\$ab(a^6 - b^6) S^2$
X(33734)	$(E+F)^4 + (E+F)FS^2$	$-(E+F)^2 S^2 + 5S^4$
X(33735)	$\$(a^3 b^3)(S_A - S_B) S^2$ $-\$a^3 b^3 (S_A - S_B) S_A S_B \$$	$-\$a^3 b^3 (S_A - S_B) S^2$
X(33736)	$(E+F)^2 \$a + (E+F)abc$	$-\$a S^2$

X(33737)	$\begin{aligned} & \$a^5(S_B-S_C)S_A^2\$+ \\ & \$a^5(S_B-S_C)\$S^2 \\ & -\$a^5(S_B-S_C)S_B S_C \$, \end{aligned}$	$- \$a^5(S_B-S_C)\$S^2$
X(33738)	$\begin{aligned} & \$a^7(S_B-S_C)\$S^2- \\ & \$a^7(S_B-S_C)S_B S_C \$ \\ & + \$a^7(S_B-S_C)S_A^2\$ \end{aligned}$	$- \$a^7(S_B-S_C)\$S^2$
X(33739)	$\begin{aligned} & 2(E+F)^5-2(E+F)^2(2E+3F)S^2 \\ & -(5E+2F)S^4 \end{aligned}$	$6(E+F)^3S^2-(E+2F)S^4$
X(33740)	$\begin{aligned} & (E+F)^3\$a\$-(2E+F)\$a\$S^2 \\ & +(E+F)^2abc-abcS^2 \\ & +(E+F)^2\$aS_A\$-\$aS_A\$S^2 \end{aligned}$	$2(E+F)\$a\$S^2+2abcS^2+2\$aS_A\$S^2$
X(33741)	$\$a^3(b^8-c^8)S_B S_C \$$	$-\$a^3(b^8-c^8)\$S^2$
X(33742)	$\begin{aligned} & (E+F)^5\$a\$-3(E+F)^3\$a\$S^2 \\ & +E\$a\$S^4+(E+F)^4abc \\ & -(E+F)(2E+3F)abcS^2 \\ & +(E+F)^4\$aS_A\$ \\ & -(E+F)(2E+3F)\$aS_A\$S^2, \end{aligned}$	$\begin{aligned} & 3(E+F)^3\$a\$S^2-(E+F)\$a\$S^4 \\ & +3(E+F)^2abcS^2-abcS^4 \\ & +3(E+F)^2\$aS_A\$S^2-\$aS_A\$S^4 \end{aligned}$
X(33743)	$\begin{aligned} & (E+F)^5+2(E+F)^3S^2+FS^4+3(E \\ & +F)^4\$ab\$+(E+F)(2E+3F)\$ab \\ & \$S^2+\$ab\$S^4-3E+F)^3\$abS_C\$ \\ & -3\$abS_C\$FS^2-(E+F)^2\$abS_A S_B \\ & \$+2\$abS_C^2\$S^2-\$abS_A S_B\$S^2+ \\ & \$abS_C^4\$, \end{aligned}$	$-ES^4-(E+F)^2\$ab\$S^2-\$ab\$S^4$
X(33744)	$\begin{aligned} & (E+F)^4+(E+F)(3E+F)S^2 \\ & +3(E+F)^3\$ab\$ -(E-5F)\$ab\$S^2 \\ & -2\$abS_C\$S^2+(E+F)\$abS_A S_B\$ \\ & -2\$abS_C^3\$, \end{aligned}$	$\begin{aligned} & -(E+F)^2S^2-S^4-(E+F)\$ab\$S^2 \\ & +\$abS_C\$S^2 \end{aligned}$
X(33745)	$\begin{aligned} & 2(E+F)^3+4(E+F)^2\$ab\$ \\ & -3(E+F)\$abS_C\$-\$abS_A S_B\$ \\ & +\$abS_C^2\$, \end{aligned}$	$2(E+F)S^2+\$ab\$S^2$
X(33746)	$\begin{aligned} & 2(E+F)^3\$a\$-2F\$a\$S^2 \\ & +4(E+F)^2abc-3abcS^2 \\ & +\$aS_A\$S^2-(E+F)\$aS_B S_C\$ \\ & +2\$aS_A^3\$, \end{aligned}$	$2(E+F)\$a\$S^2+abcS^2$
X(33747)	$\begin{aligned} & 2(E+F)^4-(E+F)(2E+3F)S^2 \\ & -S^4+4(E+F)^3\$ab\$-2(2E+3F) \end{aligned}$	$3(E+F)^2S^2-S^4+2(E+F)\$ab\$S^2$

$ \begin{aligned} & \mathbf{ab}S^2 - 3(E+F)^2\mathbf{ab}S_C \\ & + 3\mathbf{ab}S_C S^2 - (E+F)\mathbf{ab}S_A S_B \\ & + \mathbf{ab}S_C^3 \end{aligned} $	
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