

Midpoints X(k) not on Euler line

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Midpoints X(k) of X(i) and X(j) are shown as (i, j), where X(i), X(j) and X(k) are not on the Euler line. Barycentrics of X(k) are given by

$$X(k) \sim \{G(a, b, c)\}S^2 + \{H(a, b, c)\}S_B S_C + K(a, b, c) ::$$

1) Centers related to X(13)

X(k)	Midpoints of X(i) and X(j)	G(a,b,c)	H(a,b,c)	K(a,b,c)
X(13)	(396, 5318), (621, 3180)	$3\cot(\omega) + 3(3)^{1/2}$	$3(3)^{1/2}$	$-3S_A S$
X(15)	(616, 3180)	$\cot(\omega) + 3(3)^{1/2}$	$-(3)^{1/2}$	$-S_A S$
X(298)	(616, 621)	$(3)^{1/2}$	0	$3S_A S$
X(396)	(13, 15), (298, 3180)	$3\cot(\omega) + 2(3)^{1/2}$	0	$-3S_A S$
X(618)	(13, 616), (15, 298)	$3\cot(\omega) + 5(3)^{1/2}$	$-3(3)^{1/2}$	$3S_A S$
X(623)	(13, 298), (15, 621)	$\cot(\omega) + 3(3)^{1/2}$	$(3)^{1/2}$	$S_A S$
X(5478)	(5617, 13103)	$3\cot(\omega) + 3(3)^{1/2}$	$6\cot(\omega) + 9(3)^{1/2}$	$-3S_A S$
X(6669)	(13, 618), (396, 623)	$9\cot(\omega) + 7(3)^{1/2}$	$3(3)^{1/2}$	$-3S_A S$
X(6671)	(15, 623), (396, 618),	$3\cot(\omega) + 3(3)^{1/2}$	$-(3)^{1/2}$	$-S_A S$
X(6771)	(5617, 6770), (5473, 13103)	$6\cot(\omega) + 4(3)^{1/2}$	$-3\cot(\omega)$	$-3S_A S$
X(11542)	(13, 396), (15, 5318)	$2\cot(\omega) + 3(3)^{1/2}$	$(3)^{1/2}$	$-2S_A S$
	(13, 621)	$3\cot(\omega) + 3(3)^{1/2}$	$9(3)^{1/2}$	$3S_A S$
	(13, 623), (618, 5318)	$9\cot(\omega) + 5(3)^{1/2}$	$9(3)^{1/2}$	$-3S_A S$
	(13, 3180)	$3\cot(\omega) + 3(3)^{1/2}$	$(3)^{1/2}$	$-5S_A S$
	(13, 5318)	$6\cot(\omega) + 3(3)^{1/2}$	$9(3)^{1/2}$	$-6S_A S$
	(13, 5459)	$11\cot(\omega) + 5(3)^{1/2}$	$9(3)^{1/2}$	$-9S_A S$
	(13, 5478)	$3\cot(\omega) + 3(3)^{1/2}$	$2\cot(\omega) + 5(3)^{1/2}$	$-3S_A S$
	(13, 5611)	$6\cot(\omega) + 4(3)^{1/2}$	$3\cot(\omega)$	$-9S_A S$
	(13, 6669)	$21\cot(\omega) + 11(3)^{1/2}$	$15(3)^{1/2}$	$-15S_A S$
	(13, 6671), (6669, 11542)	$21\cot(\omega) + 13(3)^{1/2}$	$9(3)^{1/2}$	$-15S_A S$
	(13, 6770)	$3\cot(\omega) + 3(3)^{1/2}$	$-2\cot(\omega) + 3(3)^{1/2}$	$-3S_A S$
	(13, 6771)	$4\cot(\omega) + 2(3)^{1/2}$	$-\cot(\omega) + 2(3)^{1/2}$	$-3S_A S$
	(13, 7684), (396, 5478)	$9\cot(\omega) + 5(3)^{1/2}$	$6\cot(\omega) + 9(3)^{1/2}$	$-9S_A S$
	(13, 11542)	$12\cot(\omega) + 5(3)^{1/2}$	$9(3)^{1/2}$	$-12S_A S$

	(13, 13103)	$2\cot(\omega)$	$\cot(\omega)+4(3)^{1/2}$	$-3S_{AS}$
	(13, 13350), (396, 6771)	$12\cot(\omega)+8(3)^{1/2}$	$-3\cot(\omega)$	$-9S_{AS}$
	(15, 396)	$6\cot(\omega)+5(3)^{1/2}$	$-3(3)^{1/2}$	$-6S_{AS}$
	(15, 616)	$3\cot(\omega)+7(3)^{1/2}$	$-9(3)^{1/2}$	$3S_{AS}$
	(15, 618)	$9\cot(\omega)+11(3)^{1/2}$	$-9(3)^{1/2}$	$-3S_{AS}$
	(15, 3180)	$9\cot(\omega)+5(3)^{1/2}$	$-3(3)^{1/2}$	$-15S_{AS}$
	(15, 5459)	$11\cot(\omega)+9(3)^{1/2}$	$-3(3)^{1/2}$	$-9S_{AS}$
	(15, 5478), (396, 7684)	$9\cot(\omega)+7(3)^{1/2}$	$6\cot(\omega)+3(3)^{1/2}$	$-9S_{AS}$
	(15, 5611)	$2\cot(\omega)+2(3)^{1/2}$	$\cot(\omega)-2(3)^{1/2}$	$-3S_{AS}$
	(15, 6669)	$21\cot(\omega)+19(3)^{1/2}$	$-9(3)^{1/2}$	$-15S_{AS}$
	(15, 6671)	$7\cot(\omega)+7(3)^{1/2}$	$-5(3)^{1/2}$	$-5S_{AS}$
	(15, 6770)	$9\cot(\omega)+5(3)^{1/2}$	$-6\cot(\omega)-3(3)^{1/2}$	$-9S_{AS}$
	(15, 6771), (396, 13350)	$12\cot(\omega)+10(3)^{1/2}$	$-3\cot(\omega)-6(3)^{1/2}$	$-9S_{AS}$
	(15, 7684), (623, 5611)	$3\cot(\omega)+3(3)^{1/2}$	$2\cot(\omega)-(3)^{1/2}$	$-3S_{AS}$
	(15, 11542)	$4\cot(\omega)+3(3)^{1/2}$	$-(3)^{1/2}$	$-4S_{AS}$
	(15, 13350)	$4\cot(\omega)+4(3)^{1/2}$	$-\cot(\omega)-4(3)^{1/2}$	$-3S_{AS}$
	(298, 396), (616, 5318), (618, 623)	$3\cot(\omega)+4(3)^{1/2}$	0	$3S_{AS}$
	(298, 616)	$(3)^{1/2}$	$-(3)^{1/2}$	$2S_{AS}$
	(298, 618)	$\cot(\omega)+3(3)^{1/2}$	$-(3)^{1/2}$	$5S_{AS}$
	(298, 621)	$(3)^{1/2}$	$3(3)^{1/2}$	$6S_{AS}$
	(298, 623)	$3\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$15S_{AS}$
	(298, 5318), (396, 621)	$3\cot(\omega)+2(3)^{1/2}$	$6(3)^{1/2}$	$3S_{AS}$
	(298, 5459)	$5\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$9S_{AS}$
	(298, 5463)	$\cot(\omega)+5(3)^{1/2}$	$-3(3)^{1/2}$	$9S_{AS}$
	(298, 5473)	$3\cot(\omega)+7(3)^{1/2}$	$-6\cot(\omega)-9(3)^{1/2}$	$9S_{AS}$
	(298, 5478)	$3\cot(\omega)+5(3)^{1/2}$	$6\cot(\omega)+9(3)^{1/2}$	$9S_{AS}$
	(298, 5617)	$4(3)^{1/2}$	$3\cot(\omega)$	$9S_{AS}$
	(298, 6669)	$3\cot(\omega)+5(3)^{1/2}$	$(3)^{1/2}$	$7S_{AS}$
	(298, 6671)	$9\cot(\omega)+17(3)^{1/2}$	$-3(3)^{1/2}$	$21S_{AS}$
	(298, 6771)	$6\cot(\omega)+8(3)^{1/2}$	$-3\cot(\omega)$	$9S_{AS}$
	(298, 7684)	$3\cot(\omega)+7(3)^{1/2}$	$6\cot(\omega)+3(3)^{1/2}$	$9S_{AS}$
	(298, 11542)	$6\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$6S_{AS}$
	(298, 13350)	$6\cot(\omega)+10(3)^{1/2}$	$-3\cot(\omega)-6(3)^{1/2}$	$9S_{AS}$
	(396, 616)	$\cot(\omega)+2(3)^{1/2}$	$-2(3)^{1/2}$	S_{AS}

	(396, 3180)	$9\cot(\omega)+4(3)^{1/2}$	0	$-15S_{AS}$
	(396, 5459)	$11\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$-9S_{AS}$
	(396, 5611)	$6\cot(\omega)+5(3)^{1/2}$	$3\cot(\omega)-3(3)^{1/2}$	$-9S_{AS}$
	(396, 6669), (6671, 11542)	$7\cot(\omega)+5(3)^{1/2}$	$(3)^{1/2}$	$-5S_{AS}$
	(396, 6671)	$21\cot(\omega)+17(3)^{1/2}$	$-3(3)^{1/2}$	$-15S_{AS}$
	(396, 6770)	$9\cot(\omega)+4(3)^{1/2}$	$-6\cot(\omega)$	$-9S_{AS}$
	(396, 11542)	$12\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$-12S_{AS}$
	(396, 13103)	$6\cot(\omega)+(3)^{1/2}$	$3\cot(\omega)+9(3)^{1/2}$	$-9S_{AS}$
	(616, 618)	$3\cot(\omega)+13(3)^{1/2}$	$-15(3)^{1/2}$	$15S_{AS}$
	(616, 623)	$3\cot(\omega)+11(3)^{1/2}$	$-9(3)^{1/2}$	$15S_{AS}$
	(616, 5459), (618, 5463)	$5\cot(\omega)+11(3)^{1/2}$	$-9(3)^{1/2}$	$9S_{AS}$
	(616, 5463)	$\cot(\omega)+7(3)^{1/2}$	$-9(3)^{1/2}$	$9S_{AS}$
	(616, 5478), (618, 5617)	$\cot(\omega)+3(3)^{1/2}$	$2\cot(\omega)-(3)^{1/2}$	$3S_{AS}$
	(616, 5617)	$2(3)^{1/2}$	$\cot(\omega)-2(3)^{1/2}$	$3S_{AS}$
	(616, 5473)	$\cot(\omega)+3(3)^{1/2}$	$-2\cot(\omega)-5(3)^{1/2}$	$3S_{AS}$
	(616, 6669)	$9\cot(\omega)+23(3)^{1/2}$	$-21(3)^{1/2}$	$21S_{AS}$
	(616, 6671)	$9\cot(\omega)+25(3)^{1/2}$	$-27(3)^{1/2}$	$21S_{AS}$
	(616, 6771)	$2\cot(\omega)+4(3)^{1/2}$	$-\cot(\omega)-4(3)^{1/2}$	$3S_{AS}$
	(616, 7684)	$3\cot(\omega)+11(3)^{1/2}$	$6\cot(\omega)-9(3)^{1/2}$	$9S_{AS}$
	(616, 11542)	$6\cot(\omega)+11(3)^{1/2}$	$-9(3)^{1/2}$	$6S_{AS}$
	(616, 13350)	$6\cot(\omega)+14(3)^{1/2}$	$-3\cot(\omega)-18(3)^{1/2}$	$9S_{AS}$
	(618, 621)	$3\cot(\omega)+5(3)^{1/2}$	$9(3)^{1/2}$	$15S_{AS}$
	(618, 5473)	$3\cot(\omega)+5(3)^{1/2}$	$-4\cot(\omega)-7(3)^{1/2}$	$3S_{AS}$
	(618, 5611)	$9\cot(\omega)+11(3)^{1/2}$	$6\cot(\omega)-9(3)^{1/2}$	$-9S_{AS}$
	(618, 6669)	$15\cot(\omega)+17(3)^{1/2}$	$-3(3)^{1/2}$	$3S_{AS}$
	(618, 6671)	$15\cot(\omega)+19(3)^{1/2}$	$-9(3)^{1/2}$	$3S_{AS}$
	(618, 6770)	$5\cot(\omega)+3(3)^{1/2}$	$-4\cot(\omega)-(3)^{1/2}$	$-3S_{AS}$
	(618, 11542), (6669, 6671)	$9\cot(\omega)+8(3)^{1/2}$	0	$-3S_{AS}$
	(618, 13103)	$3\cot(\omega)+(3)^{1/2}$	$2\cot(\omega)+5(3)^{1/2}$	$-3S_{AS}$
	(621, 623)	$\cot(\omega)+(3)^{1/2}$	$5(3)^{1/2}$	$5S_{AS}$
	(621, 5318)	$\cot(\omega)$	$4(3)^{1/2}$	S_{AS}
	(621, 5459)	$5\cot(\omega)+3(3)^{1/2}$	$15(3)^{1/2}$	$9S_{AS}$
	(621, 5463)	$\cot(\omega)+3(3)^{1/2}$	$3(3)^{1/2}$	$9S_{AS}$
	(621, 5473)	$3\cot(\omega)+5(3)^{1/2}$	$-6\cot(\omega)-3(3)^{1/2}$	$9S_{AS}$
	(621, 5478)	$3\cot(\omega)+(3)^{1/2}$	$6\cot(\omega)+21(3)^{1/2}$	$9S_{AS}$

	(621, 5617)	$2(3)^{1/2}$	$3\cot(\omega)+6(3)^{1/2}$	$9S_{AS}$
	(621, 6669)	$9\cot(\omega)+7(3)^{1/2}$	$27(3)^{1/2}$	$21S_{AS}$
	(621, 6671)	$3\cot(\omega)+3(3)^{1/2}$	$7(3)^{1/2}$	$7S_{AS}$
	(621, 6771)	$6\cot(\omega)+4(3)^{1/2}$	$-3\cot(\omega)+12(3)^{1/2}$	$9S_{AS}$
	(621, 7684)	$\cot(\omega)+(3)^{1/2}$	$2\cot(\omega)+5(3)^{1/2}$	$3S_{AS}$
	(621, 11542)	$2\cot(\omega)+(3)^{1/2}$	$5(3)^{1/2}$	$2S_{AS}$
	(621, 13350)	$2\cot(\omega)+2(3)^{1/2}$	$-\cot(\omega)+2(3)^{1/2}$	$3S_{AS}$
	(623, 3180)	$15\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$-21S_{AS}$
	(623, 5318)	$3\cot(\omega)+(3)^{1/2}$	$5(3)^{1/2}$	$-S_{AS}$
	(623, 5463)	$5\cot(\omega)+9(3)^{1/2}$	$-3(3)^{1/2}$	$9S_{AS}$
	(623, 5473)	$9\cot(\omega)+13(3)^{1/2}$	$-12\cot(\omega)-15(3)^{1/2}$	$9S_{AS}$
	(623, 5617)	$3\cot(\omega)+7(3)^{1/2}$	$6\cot(\omega)+3(3)^{1/2}$	$9S_{AS}$
	(623, 6669)	$15\cot(\omega)+13(3)^{1/2}$	$9(3)^{1/2}$	$3S_{AS}$
	(623, 6671)	$5\cot(\omega)+5(3)^{1/2}$	$(3)^{1/2}$	S_{AS}
	(623, 6770)	$15\cot(\omega)+7(3)^{1/2}$	$-12\cot(\omega)+3(3)^{1/2}$	$-9S_{AS}$
	(623, 11542)	$3\cot(\omega)+2(3)^{1/2}$	$2(3)^{1/2}$	$-S_{AS}$
	(623, 13103)	$9\cot(\omega)+(3)^{1/2}$	$6\cot(\omega)+21(3)^{1/2}$	$-9S_{AS}$
	(3180, 5318)	$9\cot(\omega)+2(3)^{1/2}$	$6(3)^{1/2}$	$-15S_{AS}$
	(3180, 5459)	$17\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$-27S_{AS}$
	(3180, 5463)	$7\cot(\omega)+5(3)^{1/2}$	$-3(3)^{1/2}$	$-9S_{AS}$
	(3180, 5473)	$9\cot(\omega)+7(3)^{1/2}$	$-6\cot(\omega)-9(3)^{1/2}$	$-9S_{AS}$
	(3180, 5478)	$15\cot(\omega)+5(3)^{1/2}$	$6\cot(\omega)+9(3)^{1/2}$	$-27S_{AS}$
	(3180, 5611)	$9\cot(\omega)+5(3)^{1/2}$	$3\cot(\omega)-3(3)^{1/2}$	$-18S_{AS}$
	(3180, 5617)	$6\cot(\omega)+4(3)^{1/2}$	$3\cot(\omega)$	$-9S_{AS}$
	(3180, 6669)	$11\cot(\omega)+5(3)^{1/2}$	$(3)^{1/2}$	$-17S_{AS}$
	(3180, 6671)	$33\cot(\omega)+17(3)^{1/2}$	$-3(3)^{1/2}$	$-51S_{AS}$
	(3180, 6770)	$6\cot(\omega)+2(3)^{1/2}$	$-3\cot(\omega)$	$-9S_{AS}$
	(3180, 6771)	$18\cot(\omega)+8(3)^{1/2}$	$-3\cot(\omega)$	$-27S_{AS}$
	(3180, 7684)	$15\cot(\omega)+7(3)^{1/2}$	$6\cot(\omega)+3(3)^{1/2}$	$-27S_{AS}$
	(3180, 11542)	$18\cot(\omega)+7(3)^{1/2}$	$3(3)^{1/2}$	$-3S_{AS}$
	(3180, 13350)	$18\cot(\omega)+10(3)^{1/2}$	$-3\cot(\omega)-6(3)^{1/2}$	$-27S_{AS}$
	(5318, 5459)	$11\cot(\omega)+3(3)^{1/2}$	$15(3)^{1/2}$	$-9S_{AS}$
	(5318, 5478)	$9\cot(\omega)+(3)^{1/2}$	$6\cot(\omega)+21(3)^{1/2}$	$-9S_{AS}$
	(5318, 5611)	$2\cot(\omega)+(3)^{1/2}$	$\cot(\omega)+(3)^{1/2}$	$-3S_{AS}$
	(5318, 6669)	$21\cot(\omega)+7(3)^{1/2}$	$27(3)^{1/2}$	$-15S_{AS}$

	(5318, 6671)	$7\cot(\omega)+3(3)^{1/2}$	$7(3)^{1/2}$	$-5S_{AS}$
	(5318, 6770)	$9\cot(\omega)+2(3)^{1/2}$	$-6\cot(\omega)+6(3)^{1/2}$	$-9S_{AS}$
	(5318, 6771)	$12\cot(\omega)+4(3)^{1/2}$	$-3\cot(\omega)+12(3)^{1/2}$	$-9S_{AS}$
	(5318, 7684)	$3\cot(\omega)+(3)^{1/2}$	$2\cot(\omega)+5(3)^{1/2}$	$-3S_{AS}$
	(5318, 11542)	$4\cot(\omega)+(3)^{1/2}$	$5(3)^{1/2}$	$-4S_{AS}$
	(5318, 13103)	$6\cot(\omega)-(3)^{1/2}$	$3\cot(\omega)+15(3)^{1/2}$	$-9S_{AS}$
	(5318, 13350)	$4\cot(\omega)+2(3)^{1/2}$	$-\cot(\omega)+2(3)^{1/2}$	$-3S_{AS}$
	(5459, 5463)	$7\cot(\omega)+9(3)^{1/2}$	$-3(3)^{1/2}$	$3S_{AS}$
	(5459, 5473)	$11\cot(\omega)+13(3)^{1/2}$	$-12\cot(\omega)-15(3)^{1/2}$	$3S_{AS}$
	(5459, 5478)	$4\cot(\omega)+2(3)^{1/2}$	$3\cot(\omega)+6(3)^{1/2}$	$-3S_{AS}$
	(5459, 5611)	$11\cot(\omega)+9(3)^{1/2}$	$6\cot(\omega)-3(3)^{1/2}$	$-15S_{AS}$
	(5459, 5617), (5463, 5478)	$5\cot(\omega)+7(3)^{1/2}$	$6\cot(\omega)+3(3)^{1/2}$	$3S_{AS}$
	(5459, 6669)	$19\cot(\omega)+13(3)^{1/2}$	$9(3)^{1/2}$	$-9S_{AS}$
	(5459, 6671)	$19\cot(\omega)+15(3)^{1/2}$	$3(3)^{1/2}$	$-9S_{AS}$
	(5459, 6770)	$17\cot(\omega)+7(3)^{1/2}$	$-12\cot(\omega)+3(3)^{1/2}$	$-15S_{AS}$
	(5459, 6771)	$11\cot(\omega)+7(3)^{1/2}$	$-3\cot(\omega)+3(3)^{1/2}$	$-6S_{AS}$
	(5459, 7684)	$4\cot(\omega)+3(3)^{1/2}$	$3\cot(\omega)+3(3)^{1/2}$	$-3S_{AS}$
	(5459, 11542)	$11\cot(\omega)+6(3)^{1/2}$	$6(3)^{1/2}$	$-9S_{AS}$
	(5459, 13103)	$11\cot(\omega)+(3)^{1/2}$	$6\cot(\omega)+21(3)^{1/2}$	$-15S_{AS}$
	(5459, 13350)	$11\cot(\omega)+9(3)^{1/2}$	$-3\cot(\omega)-3(3)^{1/2}$	$-6S_{AS}$
	(5463, 5473)	$2\cot(\omega)+4(3)^{1/2}$	$-3\cot(\omega)-6(3)^{1/2}$	$3S_{AS}$
	(5463, 5611)	$4\cot(\omega)+6(3)^{1/2}$	$3\cot(\omega)-6(3)^{1/2}$	$-3S_{AS}$
	(5463, 5617)	$\cot(\omega)+5(3)^{1/2}$	$3\cot(\omega)-3(3)^{1/2}$	$6S_{AS}$
	(5463, 6669)	$13\cot(\omega)+19(3)^{1/2}$	$-9(3)^{1/2}$	$9S_{AS}$
	(5463, 6671)	$13\cot(\omega)+21(3)^{1/2}$	$-15(3)^{1/2}$	$9S_{AS}$
	(5463, 6770)	$7\cot(\omega)+5(3)^{1/2}$	$-6\cot(\omega)-3(3)^{1/2}$	$-3S_{AS}$
	(5463, 6771)	$8\cot(\omega)+10(3)^{1/2}$	$-3\cot(\omega)-6(3)^{1/2}$	$3S_{AS}$
	(5463, 7684)	$5\cot(\omega)+9(3)^{1/2}$	$6\cot(\omega)-3(3)^{1/2}$	$3S_{AS}$
	(5463, 13103)	$4\cot(\omega)+2(3)^{1/2}$	$3\cot(\omega)+6(3)^{1/2}$	$-3S_{AS}$
	(5463, 13350)	$8\cot(\omega)+12(3)^{1/2}$	$-3\cot(\omega)-12(3)^{1/2}$	$3S_{AS}$
	(5473, 5478)	$9\cot(\omega)+11(3)^{1/2}$	$-6\cot(\omega)-9(3)^{1/2}$	$3S_{AS}$
	(5473, 5611)	$6\cot(\omega)+8(3)^{1/2}$	$-3\cot(\omega)-12(3)^{1/2}$	$-3S_{AS}$
	(5473, 5617)	$3\cot(\omega)+7(3)^{1/2}$	$-3\cot(\omega)-9(3)^{1/2}$	$6S_{AS}$
	(5473, 6669)	$7\cot(\omega)+9(3)^{1/2}$	$-8\cot(\omega)-11(3)^{1/2}$	$3S_{AS}$
	(5473, 6671)	$21\cot(\omega)+29(3)^{1/2}$	$-24\cot(\omega)-39(3)^{1/2}$	$9S_{AS}$

(5473, 6770)	$9\cot(\omega)+7(3)^{1/2}$	$-12\cot(\omega)-9(3)^{1/2}$	$-3S_{AS}$
(5473, 6771)	$12\cot(\omega)+14(3)^{1/2}$	$-15\cot(\omega)-18(3)^{1/2}$	$3S_{AS}$
(5473, 7684)	$9\cot(\omega)+13(3)^{1/2}$	$-6\cot(\omega)-15(3)^{1/2}$	$3S_{AS}$
(5473, 13350)	$12\cot(\omega)+16(3)^{1/2}$	$-15\cot(\omega)-24(3)^{1/2}$	$3S_{AS}$
(5478, 5611)	$9\cot(\omega)+7(3)^{1/2}$	$12\cot(\omega)+3(3)^{1/2}$	$-15S_{AS}$
(5478, 5617)	$3\cot(\omega)+5(3)^{1/2}$	$12\cot(\omega)+9(3)^{1/2}$	$3S_{AS}$
(5478, 6669)	$5\cot(\omega)+3(3)^{1/2}$	$4\cot(\omega)+7(3)^{1/2}$	$-3S_{AS}$
(5478, 6671)	$15\cot(\omega)+11(3)^{1/2}$	$12\cot(\omega)+15(3)^{1/2}$	$-9S_{AS}$
(5478, 6770)	$15\cot(\omega)+5(3)^{1/2}$	$-6\cot(\omega)+9(3)^{1/2}$	$-15S_{AS}$
(5478, 6771)	$9\cot(\omega)+5(3)^{1/2}$	$3\cot(\omega)+9(3)^{1/2}$	$-6S_{AS}$
(5478, 7684)	$3\cot(\omega)+2(3)^{1/2}$	$6\cot(\omega)+6(3)^{1/2}$	$-3S_{AS}$
(5478, 11542)	$9\cot(\omega)+4(3)^{1/2}$	$6\cot(\omega)+12(3)^{1/2}$	$-9S_{AS}$
(5478, 13103)	$9\cot(\omega)-(3)^{1/2}$	$12\cot(\omega)+27(3)^{1/2}$	$-15S_{AS}$
(5478, 13350), (6771, 7684)	$9\cot(\omega)+7(3)^{1/2}$	$3\cot(\omega)+3(3)^{1/2}$	$-6S_{AS}$
(5611, 5617)	$3\cot(\omega)+5(3)^{1/2}$	$6\cot(\omega)-3(3)^{1/2}$	$-3S_{AS}$
(5611, 6669)	$21\cot(\omega)+19(3)^{1/2}$	$12\cot(\omega)-9(3)^{1/2}$	$-27S_{AS}$
(5611, 6671)	$7\cot(\omega)+7(3)^{1/2}$	$4\cot(\omega)-5(3)^{1/2}$	$-9S_{AS}$
(5611, 6770)	$9\cot(\omega)+5(3)^{1/2}$	$-3\cot(\omega)-3(3)^{1/2}$	$-12S_{AS}$
(5611, 6771)	$12\cot(\omega)+10(3)^{1/2}$	$3\cot(\omega)-6(3)^{1/2}$	$-15S_{AS}$
(5611, 7684)	$3\cot(\omega)+3(3)^{1/2}$	$4\cot(\omega)-(3)^{1/2}$	$-5S_{AS}$
(5611, 11542)	$4\cot(\omega)+3(3)^{1/2}$	$2\cot(\omega)-(3)^{1/2}$	$-6S_{AS}$
(5611, 13103)	$3\cot(\omega)+(3)^{1/2}$	$3\cot(\omega)+3(3)^{1/2}$	$-6S_{AS}$
(5611, 13350)	$4\cot(\omega)+4(3)^{1/2}$	$\cot(\omega)-4(3)^{1/2}$	$-5S_{AS}$
(5617, 6669)	$3\cot(\omega)+5(3)^{1/2}$	$4\cot(\omega)+(3)^{1/2}$	$3S_{AS}$
(5617, 6671)	$9\cot(\omega)+17(3)^{1/2}$	$12\cot(\omega)-3(3)^{1/2}$	$9S_{AS}$
(5617, 6771)	$6\cot(\omega)+8(3)^{1/2}$	$3\cot(\omega)$	$3S_{AS}$
(5617, 7684)	$3\cot(\omega)+7(3)^{1/2}$	$12\cot(\omega)+3(3)^{1/2}$	$3S_{AS}$
(5617, 13350)	$6\cot(\omega)+10(3)^{1/2}$	$3\cot(\omega)-6(3)^{1/2}$	$3S_{AS}$
(6669, 6770)	$11\cot(\omega)+5(3)^{1/2}$	$-8\cot(\omega)+(3)^{1/2}$	$-9S_{AS}$
(6669, 6771)	$7\cot(\omega)+5(3)^{1/2}$	$-2\cot(\omega)+(3)^{1/2}$	$-3S_{AS}$
(6669, 7684)	$15\cot(\omega)+13(3)^{1/2}$	$12\cot(\omega)+9(3)^{1/2}$	$-9S_{AS}$
(6669, 13103)	$7\cot(\omega)+(3)^{1/2}$	$4\cot(\omega)+13(3)^{1/2}$	$-9S_{AS}$
(6669, 13350)	$21\cot(\omega)+19(3)^{1/2}$	$-6\cot(\omega)-9(3)^{1/2}$	$-9S_{AS}$
(6671, 6770)	$33\cot(\omega)+17(3)^{1/2}$	$-24\cot(\omega)-3(3)^{1/2}$	$-27S_{AS}$
(6671, 6771)	$21\cot(\omega)+17(3)^{1/2}$	$-6\cot(\omega)-3(3)^{1/2}$	$-9S_{AS}$

	(6671, 7684)	$5\cot(\omega)+5(3)^{1/2}$	$4\cot(\omega)+(3)^{1/2}$	$-3S_{AS}$
	(6671, 13103)	$21\cot(\omega)+5(3)^{1/2}$	$12\cot(\omega)+33(3)^{1/2}$	$-27S_{AS}$
	(6671, 13350)	$7\cot(\omega)+7(3)^{1/2}$	$-2\cot(\omega)-5(3)^{1/2}$	$-3S_{AS}$
	(6770, 6771)	$18\cot(\omega)+8(3)^{1/2}$	$-15\cot(\omega)$	$-15S_{AS}$
	(6770, 7684)	$15\cot(\omega)+7(3)^{1/2}$	$-6\cot(\omega)+3(3)^{1/2}$	$-15S_{AS}$
	(6770, 11542)	$18\cot(\omega)+7(3)^{1/2}$	$-12\cot(\omega)+3(3)^{1/2}$	$-18S_{AS}$
	(6770, 13103)	$9\cot(\omega)+(3)^{1/2}$	$12\cot(\omega)+21(3)^{1/2}$	$-15S_{AS}$
	(6770, 13350)	$18\cot(\omega)+10(3)^{1/2}$	$-15\cot(\omega)-6(3)^{1/2}$	$-15S_{AS}$
	(6771, 11542)	$12\cot(\omega)+7(3)^{1/2}$	$-3\cot(\omega)+3(3)^{1/2}$	$-9S_{AS}$
	(6771, 13103)	$12\cot(\omega)+2(3)^{1/2}$	$3\cot(\omega)+18(3)^{1/2}$	$-15S_{AS}$
	(6771, 13350)	$6\cot(\omega)+5(3)^{1/2}$	$-3\cot(\omega)-3(3)^{1/2}$	$-3S_{AS}$
	(7684, 11542)	$3\cot(\omega)+2(3)^{1/2}$	$2\cot(\omega)+2(3)^{1/2}$	$-3S_{AS}$
	(7684, 13103)	$9\cot(\omega)+(3)^{1/2}$	$12\cot(\omega)+21(3)^{1/2}$	$-15S_{AS}$
	(7684, 13350)	$3\cot(\omega)+3(3)^{1/2}$	$\cot(\omega)-(3)^{1/2}$	$-2S_{AS}$
	(11542, 13103)	$12\cot(\omega)+(3)^{1/2}$	$6\cot(\omega)+21(3)^{1/2}$	$-18S_{AS}$
	(11542, 13350)	$4\cot(\omega)+3(3)^{1/2}$	$-\cot(\omega)-(3)^{1/2}$	$-3S_{AS}$
	(13103, 13350)	$12\cot(\omega)+4(3)^{1/2}$	$3\cot(\omega)+12(3)^{1/2}$	$-15S_{AS}$

2) Centers related to X(74)

X(k)	Midpoints of X(i) and X(j)	G(a,b,c)	H(a,b,c)	K(a,b,c)
X(74)	(125, 10990), (12317, 12383)	$2E-4F$	$-3E+6F$	$-2S_{AS}^2$
X(110)	(1495, 3292), (1511, 5609), (7728, 12121), (10620, 12308)	$-E-4F$	$2E+2F$	$2S_{AS}^2$
X(113)	(74, 146), (265, 399), (1495, 1531), (1511, 1539), (1514, 11064), (5609, 10113), (6053, 7687), (10733, 12383)	$-E-4F$	$3E-6F$	$2S_{AS}^2$
X(125)	(110, 3448), (7728, 10620), (10990, 13202), (10113, 12041), (10721, 12244), (12121, 12902)	$E-2F$	$-E-F$	$-S_{AS}^2$
X(265)	(74, 10733), (146, 12317)	$3E$	$-3E-12F$	$-4S_{AS}^2$
X(399)	(323, 12112), (146, 12383)	$-5E-8F$	$9E$	$8S_{AS}^2$
X(1495)	(74, 12112), (399, 3581)	$-E-4F$	$3E+3F$	S_{AS}^2

X(1511)	(74, 399), (265, 12383), (323, 3581), (1495, 10564), (5609, 12041)	-E-16F	3E+12F	4S _A S ²
X(1514)	(146, 3580), (1495, 13202), (1531, 1533)	-E-F	3E-6F	S _A S ²
X(1531)	(323, 10733)	0	-9F	S _A S ²
X(1539)	(113, 13202), (146, 265), (399, 10733),	-3E	9E-36F	4S _A S ²
X(1568)	(146, 13445)	-2F	-3F	S _A S ²
X(3292)	(110, 323)	-E-4F	E+F	3S _A S ²
X(3448)	(10620, 12902)	3E	-4E-4F	-4S _A S ²
X(3580)	(265, 3581), (12112, 12317)	E-2F	0	-2S _A S ²
X(5609)	(74, 12308), (110, 399), (146, 12121), (7728, 12383), (5655, 9143)	-7E-16F	13E+4F	12S _A S ²
X(5642)	(9140, 9143), (10272, 11694)	-E-10F	3E+3F	3S _A S ²
X(5655)	(110, 10706)	-7E-16F	15E-12F	12S _A S ²
X(5972)	(110, 125), (146, 10990), (3292, 3580), (5609,10264), (12121, 12295)	-6F	E+F	S _A S ²
X(6053)	(113, 399), (323, 1533), (12383, 13202)	-3E-6F	6E-3F	5S _A S ²
X(6699)	(74, 113), (1511, 10264), (3580, 10564)	3E-12F	-3E+6F	-2S _A S ²
X(6723)	(125, 5972)	2E-10F	-E-F	-S _A S ²
X(7687)	(74, 13202), (113, 265), (1531, 3580), (1539, 10264), (10721, 10990)	E-2F	-9F	-S _A S ²
X(7728)	(110, 10721), (12308, 12902)	-3E	7E-20F	4S _A S ²
X(10113)	(110, 12902), (125, 12295), (3448, 7728), (10620, 10721)	3E	-E-28F	-4S _A S ²
X(10264)	(74, 265), (399, 12317), (10990, 12295)	7E-8F	-9E	-8S _A S ²
X(10272)	(113, 1511), (125, 5609), (399, 10264), (6053, 6699)	-3E-24F	9E	8S _A S ²

X(10564)	(74, 323)	E-8F	-3E+6F	$2S_A S^2$
X(10620)	(3448, 12244)	7E-8F	-11E+16F	$-8S_A S^2$
X(10706)	(5655, 7728)	-4E-4F	9E-18F	$6S_A S^2$
X(10990)	(74, 12244)	3E-6F	-5E+13F	$-3S_A S^2$
X(11064)	(113, 10564), (125, 3292), (323, 3580),	-3F	0	$S_A S^2$
X(11694)	(1511, 5642), (9143, 10264)	-7E-88F	21E+48F	$24S_A S^2$
X(11801)	(125, 10113)	7E-8F	-5E-32F	$-8S_A S^2$
X(12041)	(110, 10620), (113, 10990), (3448, 12121), (7728, 12244)	5E-16F	-7E+20F	$-4S_A S^2$
X(12295)	(3448, 10721), (7728, 12902)	E+4F	E-26F	$-2S_A S^2$
X(12900)	(113, 6699), (1511, 7687), (6053, 10264)	E-20F	3E-6F	$2S_A S^2$
X(13202)	(146, 10733)	-E+2F	3E-15F	$S_A S^2$
X(13392)	(1511, 10272), (5642, 11694)	-5E-56F	15E+24F	$16S_A S^2$
	(74, 125), (113, 10620)	3E-6F	-4E+5F	$-3S_A S^2$
	(74, 1495), (74, 10564)	E-8F	9F	$-S_A S^2$
	(74, 1511), (5609, 10620)	7E-32F	-9E+36F	$-4S_A S^2$
	(74, 1514)	E-5F	0	$-S_A S^2$
	(74, 1531), (265, 10564)	2E-4F	-3E-3F	$-S_A S^2$
	(74, 1533)	-6F	3E+3F	$-S_A S^2$
	(74, 1539), (113, 10264), (265, 1511)	5E-16F	-3E-12F	$-4S_A S^2$
	(74, 1568)	2E-6F	-3E+3F	$-S_A S^2$
	(74, 2930)	-3E-21F	6E+24F	$7S_A S^2$
	(74, 3292)	E-8F	-2E+7F	$S_A S^2$
	(74, 3448), (265, 10620)	5E-4F	-7E+2F	$-6S_A S^2$
	(74, 3580)	3E-6F	-3E+6F	$-4S_A S^2$
	(74, 3581)	5E-16F	-3E+24F	$-8S_A S^2$
	(74, 5609)	E-32F	E+28F	$4S_A S^2$
	(74, 5642)	5E-22F	-6E+21F	$-3S_A S^2$
	(74, 5972)	4E-14F	-5E+13F	$-3S_A S^2$
	(74, 6053), (1511, 6699)	E-14F	9F	$S_A S^2$
	(74, 6699)	11E-28F	-15E+30F	$-10S_A S^2$
	(74, 6723)	10E-26F	-13E+23F	$-9S_A S^2$

(74, 7687), (6699, 10264)	5E-10F	-6E+3F	$-5S_A S^2$
(74, 9140)	11E-16F	-15E+12F	$-12S_A S^2$
(74, 9143)	-E-28F	3E+30F	$6S_A S^2$
(74, 10113)	11E-16F	-13E-4F	$-12S_A S^2$
(74, 10264)	15E-24F	-21E+24F	$-16S_A S^2$
(74, 10272)	13E-56F	-15E+48F	$-8S_A S^2$
(74, 10564)	5E-16F	-9E+18F	$-2S_A S^2$
(74, 10620)	11E-16F	-17E+28F	$-12S_A S^2$
(74, 10990), (125, 12244)	5E-10F	-9E+19F	$-5S_A S^2$
(74, 11064)	2E-7F	-3E+6F	$-S_A S^2$
(74, 11693)	31E-140F	-39E+150F	$-18S_A S^2$
(74, 11694)	41E-184F	-51E+192F	$-24S_A S^2$
(74, 11801)	23E-40F	-29E+16F	$-24S_A S^2$
(74, 12041), (1539, 12244)	13E-32F	-19E+44F	$-12S_A S^2$
(74, 12295), (10620, 13202)	5E-4F	-5E-14F	$-6S_A S^2$
(74, 12383)	-6F	9F	$S_A S^2$
(74, 12900)	17E-52F	-21E+42F	$-14S_A S^2$
(74, 12902), (7728, 12317) (10620, 10733)	9E	-11E-20E	$-12S_A S^2$
(74, 13392)	27E-120F	-33E+120F	$-16S_A S^2$
(74, 13393)	71E-88F	-101E+88F	$-80S_A S^2$
(74, 13445)	5E-8F	-9E+12F	$-4S_A S^2$
(110, 113)	-3E-12F	7E-2F	$6S_A S^2$
(110, 146), (399, 7728)	-2E-2F	4E-5F	$3S_A S^2$
(110, 1495)	-2E-8F	5E+5F	$3S_A S^2$
(110, 1511)	-5E-32F	11E+20F	$12S_A S^2$
(110, 1514)	-2E-5F	5E-4F	$3S_A S^2$
(110, 1531), (1511, 7728), (7728, 10564)	-E-4F	2E-7F	$3S_A S^2$
(110, 1533)	-3E-6F	8E-F	$3S_A S^2$
(110, 1539), (399, 10113)	-7E-16F	17E-28F	$12S_A S^2$
(110, 1568)	-E-6F	2E-F	$3S_A S^2$
(110, 2930)	-9E-21F	16E+16F	$15S_A S^2$
(110, 3292), (323, 1495), (399, 10564)	-2E-8F	3E+3F	$5S_A S^2$

(110, 5609), (399, 1511)	-11E-32F	21E+12F	20S _A S ²
(110, 5642), (125, 9143)	-4E-22F	9E+9F	9S _A S ²
(110, 5655)	-13E-40F	27E	24S _A S ²
(110, 5972), (5609, 6699)	-2E-14F	5E+5F	5S _A S ²
(110, 6053), (399, 5972)	-5E-14F	10E+F	9S _A S ²
(110, 6699)	-E-28F	5E+14F	6S _A S ²
(110, 6723)	-2E-26F	7E+7F	7S _A S ²
(110, 7687), (113, 5972), (125, 6053)	-E-10F	4E-5F	3S _A S ²
(110, 7728), (1539, 5609), (5655, 10706)	-5E-8F	11E-16F	8S _A S ²
(110, 9143)	-10E-28F	18E+18F	18S _A S ²
(110, 10113)	-E-16F	7E-20F	4S _A S ²
(110, 10272)	-11E-56F	25E+16F	24S _A S ²
(110, 10564)	-E-16F	E+F	6S _A S ²
(110, 10990)	2E-10F	-3E+15F	-S _A S ²
(110, 11064)	-E-7F	2E+2F	3S _A S ²
(110, 11693)	-23E-140F	51E+78F	54S _A S ²
(110, 11694)	-31E-184F	69E+96F	72S _A S ²
(110, 11801)	-E-40F	11E-16F	8S _A S ²
(110, 12041)	E-32F	E+28F	4S _A S ²
(110, 12112), (3581, 12308)	-5E-8F	11E+2F	6S _A S ²
(110, 12121)	-3E-24F	5E+32F	8S _A S ²
(110, 12244), (10620, 12121)	3E-12F	-5E+22F	-2S _A S ²
(110, 12295)	-E-4F	5E-22F	2S _A S ²
(110, 12317), (10733, 12244)	5E-4F	-7E+2F	-6S _A S ²
(110, 12383), (399, 12121)	-3E-12F	5E+14F	6S _A S ²
(110, 12900)	-7E-52F	19E+10F	18S _A S ²
(110, 13202), (399, 12295)	-2E-2F	5E-13F	3S _A S ²
(110, 13392)	-21E-120F	47E+56F	48S _A S ²
(110, 13393), (10264, 13392)	23E-88F	-21E+24F	-16S _A S ²
(113, 146)	-7E-4F	15E-30F	10S _A S ²
(113, 323)	-3E-12F	3E-6F	10S _A S ²
(113, 1495), (399, 3580), (1533, 10564)	-3E-12F	9E	4S _A S ²

	(113, 1514)	-3E-6F	9E-18F	$4S_{AS}^2$
	(113, 1531)	-E-4F	3E-24F	$4S_{AS}^2$
	(113, 1533), (146, 3581), (1511, 1531)	-5E-8F	15E-12F	$4S_{AS}^2$
	(113, 1539)	-5E-8F	15E-48F	$8S_{AS}^2$
	(113, 1568)	-E-8F	3E-12F	$4S_{AS}^2$
	(113, 2930)	-8E-17F	15E+6F	$13S_{AS}^2$
	(113, 3292)	-3E-12F	5E-4F	$8S_{AS}^2$
	(113, 3448), (125, 265)	5E-4F	-5E-14F	$-6S_{AS}^2$
	(113, 3580), (265, 1495), (1531, 3581)	E-8F	3E-6F	$-2S_{AS}^2$
	(113, 3581), (1495, 3580)	-6F	3E+3F	$-S_{AS}^2$
	(113, 5609)	-9E-24F	19E-8F	$16S_{AS}^2$
	(113, 5642), (265, 9143), (399, 9140)	-5E-32F	15E-12F	$12S_{AS}^2$
	(113, 5655), (5642, 10706)	-5E -14F	12E-15F	$9S_{AS}^2$
	(113, 6053), (399, 7687)	-4E-10F	9E-9F	$7S_{AS}^2$
	(113, 6723)	-18F	5E-13F	$3S_{AS}^2$
	(113, 7687), (265, 6053), (1539, 6699)	-6F	3E-15F	S_{AS}^2
	(113, 7728), (125, 146)	-2E -2F	5E-13F	$3S_{AS}^2$
	(113, 9140), (265, 5642)	7E-20F	-3E-30F	$-6S_{AS}^2$
	(113, 9143), (399, 5642)	-17E-44F	33E+6F	$30S_{AS}^2$
	(113, 10272)	-7E -40F	21E-24F	$16S_{AS}^2$
	(113, 10706)	-11E -20F	27E-54F	$18S_{AS}^2$
	(113, 10721)	-5E+4F	13E-50F	$6S_{AS}^2$
	(113, 10733), (265, 13202)	E+4F	3E-42F	$-2S_{AS}^2$
	(113, 11064), (1514, 10564)	-E-10F	3E-6F	$4S_{AS}^2$
	(113, 11693)	-14E-104F	42E-12F	$36S_{AS}^2$
	(113, 11694)	-19E-136F	57E-24F	$48S_{AS}^2$
	(113, 12112)	-9E-12F	21E-6F	$10S_{AS}^2$
	(113, 12121), (125, 12383)	-E-10F	2E+11F	$3S_{AS}^2$
	(113, 12244)	7E-20F	-11E+34F	$-6S_{AS}^2$
	(113, 12317), (10990, 12902),	11E-4F	-15E-6F	$-14S_{AS}^2$
	(113, 12383), (10990, 12308)	-5E-20F	9E+18F	$10S_{AS}^2$

	(113, 12900)	-3E-36F	15E-30F	10S _A S ²
	(113, 12902), (125, 10733), (265, 12295), (3448, 13202)	2E+2F	-E-19F	-3S _A S ²
	(113, 13392)	-13E-88F	39E-24F	32S _A S ²
	(113, 13393)	31E-56F	-29E-56F	-32S _A S ²
	(113, 13445)	5E-12F	-9E+6F	-2S _A S ²
	(125, 323)	-6F	-E-F	3S _A S ²
	(125, 399)	-3E-12F	7E-2F	6S _A S ²
	(125, 2930)	-5E-17F	10E+10F	9S _A S ²
	(125, 3448)	4E-2F	-5E-5F	-5S _A S ²
	(125, 3580), (1495, 3448)	2E-4F	-E-F	-3S _A S ²
	(125, 3581)	3E-12F	E+F	-6S _A S ²
	(125, 5655)	-E-28F	9E-18F	6S _A S ²
	(125, 6053)	-E-10F	4E-5F	3S _A S ²
	(125, 6699)	7E-20F	-7E+2F	-6S _A S ²
	(125, 6723)	6E-18F	-5E-5F	-5S _A S ²
	(125, 7728)	-E-4F	5E-22F	2S _A S ²
	(125, 9140)	8E-10F	-9E-9F	-9S _A S ²
	(125, 10264), (1511, 3448), (1539, 10620)	11E-16F	-13E-4F	-12S _A S ²
	(125, 10620)	9E-12F	-13E+14F	-10S _A S ²
	(125, 10706)	-E-10F	6E-21F	3S _A S ²
	(125, 10721)	-E+2F	4E-23F	S _A S ²
	(125, 11801)	15E-24F	-13E-40F	-16S _A S ²
	(125, 12041), (1539, 10990)	9E-24F	-11E+16F	-8S _A S ²
	(125, 12112)	-3E-6F	8E-F	3S _A S ²
	(125, 12121), (399, 10990)	E-20F	-E+26F	2S _A S ²
	(125, 12900)	9E-36F	-5E-14F	-6S _A S ²
	(125, 12902), (3448, 12295)	7E+4F	-7E-34F	-10S _A S ²
	(125, 12308)	-9E-12F	17E-10F	14S _A S ²
	(125, 13393)	55E-56F	-69E-24F	-64S _A S ²
	(125, 13445)	4E-6F	-7E+5F	-3S _A S ²
	(146, 323)	-2E-2F	3E-6F	4S _A S ²
	(146, 399)	-11E-8F	21E-24F	16S _A S ²
	(146, 1495)	-4E-4F	9E-9F	5S _A S ²

	(146, 1511), (399, 1539)	-13E-16F	27E-36F	20S _A S ²
	(146, 1514)	-4E-F	9E-18F	5S _A S ²
	(146, 1531), (3292, 10721)	-3E	6E-21F	5S _A S ²
	(146, 1533)	-5E-2F	12E-15F	5S _A S ²
	(146, 1539), (5609, 10721)	-15E	33E-84F	20S _A S ²
	(146, 1568)	-3E-2F	6E-15F	5S _A S ²
	(146, 2930)	-13E-13F	24E-12F	19S _A S ²
	(146, 3292)	-4E-4F	7E-11F	7S _A S ²
	(146, 5609)	-19E-16F	37E-44F	28S _A S ²
	(146, 5642)	-10E-10F	21E-33F	15S _A S ²
	(146, 5655)	-25E-16F	51E-84F	36S _A S ²
	(146, 5972), (6053, 7728)	-6E-6F	13E-23F	9S _A S ²
	(146, 6053)	-9E-6F	18E-27F	13S _A S ²
	(146, 6699)	-9E-12F	21E-42F	14S _A S ²
	(146, 6723)	-10E-10F	23E-49F	15S _A S ²
	(146, 7687)	-5E-2F	12E-33F	7S _A S ²
	(146, 7728)	-9E	19E-44F	12S _A S ²
	(146, 9140)	-2E-2F	6E-21F	3S _A S ²
	(146, 9143)	-8E-8F	15E-12F	12S _A S ²
	(146, 10113), (125, 10721), (1539, 7728)	-9E	23E-76F	12S _A S ²
	(146, 10264)	-5E-8F	15E-48F	8S _A S ²
	(146, 10272)	-27E-24F	57E-96F	40S _A S ²
	(146, 10564), (399, 1531), (3292, 7728)	-5E-8F	9E-18F	10S _A S ²
	(146, 10706)	-13E-4F	27E-54F	18S _A S ²
	(146, 10721)	-5E+4F	11E-34F	6S _A S ²
	(146, 11064)	-3E-3F	6E-12F	5S _A S ²
	(146, 11693)	-41E-68F	123E-174F	90S _A S ²
	(146, 11694)	-79E-88F	165E-240F	120S _A S ²
	(146, 11801)	-17E-8F	43E-128F	24S _A S ²
	(146, 12041)	-7E-16F	17E-28F	12S _A S ²
	(146, 12112)	-7E-4F	15E-12F	8S _A S ²
	(146, 12295), (7728, 13202)	-5E+4F	13E-50F	6S _A S ²
	(146, 12900)	-23E-20F	51E-102F	34S _A S ²

	(146, 13202)	-4E+2F	9E-27F	$5S_A S^2$
	(146, 13392)	-53E-56F	111E-168F	$90S_A S^2$
	(146, 13393)	-9E-24F	43E-200F	$16S_A S^2$
	(265, 323), (1531, 10564)	E-8F	-3E-12F	$4S_A S^2$
	(265, 1495)	E-8F	3E-6F	$-2S_A S^2$
	(265, 1511)	5E-16F	-3E-12F	$-4S_A S^2$
	(265, 1514)	E-2F	3E-24F	$-2S_A S^2$
	(265, 1531)	3E	-3E-30F	$-2S_A S^2$
	(265, 1533)	-E-4F	9E-18F	$-2S_A S^2$
	(265, 1539)	3E	3E-60F	$-4S_A S^2$
	(265, 1568)	3E-4F	-3E-18F	$-2S_A S^2$
	(265, 2930)	-4E-13F	9E	$7S_A S^2$
	(265, 3292)	E-8F	-E-10F	$2S_A S^2$
	(265, 3448)	9E	-11E-20F	$-12S_A S^2$
	(265, 3580)	5E-4F	-3E-12F	$-8S_A S^2$
	(265, 5609)	-E-16F	7E-20F	$4S_A S^2$
	(265, 6699), (7687, 10264)	9E-12F	-9E-18F	$-10S_A S^2$
	(265, 6723)	8E-10F	-7E-25F	$-9S_A S^2$
	(265, 7687)	4E-2F	-3E-21F	$-5S_A S^2$
	(265, 9140)	19E-8F	-21E-48F	$-24S_A S^2$
	(265, 10113), (1539, 3448)	9E	-7E-52F	$-12S_A S^2$
	(265, 10264)	13E-8F	-15E-24F	$-16S_A S^2$
	(265, 10272)	9E-24F	-3E-48F	$-8S_A S^2$
	(265, 10733)	5E+8F	-3E-48F	$-8S_A S^2$
	(265, 10990), (12244, 12295)	9E-12F	-13E+14F	$-10S_A S^2$
	(265, 11064)	3E-6F	-3E-12F	$-2S_A S^2$
	(265, 11693)	11E-34F	-6E-33F	$-6S_A S^2$
	(265, 11694)	29E-88F	-15E-96F	$-24S_A S^2$
	(265, 11801)	19E-8F	-17E-80F	$-24S_A S^2$
	(265, 12041)	11E-16F	-13E-4F	$-12S_A S^2$
	(265, 12112)	-5E-8F	15E-12F	$4S_A S^2$
	(265, 12308), (10721, 12383)	-2E-2F	4E-5F	$3S_A S^2$
	(265, 12900)	13E-20F	-9E-54F	$-14S_A S^2$
	(265, 12902), (3448, 10733), (10721, 12317)	2E+2F	-2E-11F	$-3S_A S^2$

	(265, 12244), (12121, 12317)	11E-16F	-17E+28F	-12S _A S ²
	(265, 13392)	19E-56F	-9E-72F	-16S _A S ²
	(265, 13393)	63E-24F	-77E-104F	-80S _A S ²
	(265, 13445)	9E-8F	-15E	-8S _A S ²
	(323, 399)	-7E-16F	9E	16S _A S ²
	(323, 1511)	-5E-32F	3E+12F	20S _A S ²
	(323, 1514)	-2E-5F	3E-6F	5S _A S ²
	(323, 1531)	-E-4F	-9F	5S _A S ²
	(323, 1539)	-7E-16F	9E-36F	20S _A S ²
	(323, 1568)	-E-6F	-3F	5S _A S ²
	(323, 2930)	-9E-21F	12E+12F	19S _A S ²
	(323, 3292)	-2E-8F	E+F	7S _A S ²
	(323, 5609)	-11E-32F	13E+4F	28S _A S ²
	(323, 5642)	-4E-22F	3E+3F	15S _A S ²
	(323, 5655)	-13E-40F	15E-12F	36S _A S ²
	(323, 5972)	-2E-14F	E+F	9S _A S ²
	(323, 6053)	-5E-14F	6E-3F	13S _A S ²
	(323, 6699)	-E-28F	-3E+6F	14S _A S ²
	(323, 6723)	-2E-26F	-E-F	15S _A S ²
	(323, 7687)	-E-10F	-9E	7S _A S ²
	(323, 7728)	-5E-8F	7E-20F	12S _A S ²
	(323, 9140)	E-8F	-3E-3F	3S _A S ²
	(323, 9143)	-10E-28F	12E+12F	24S _A S ²
	(323, 10113)	-E-16F	-E-28F	12S _A S ²
	(323, 10264)	3E-24F	-9E	8S _A S ²
	(323, 10272)	-11E-56F	9E	40S _A S ²
	(323, 10564)	-E-16F	-3E+6F	10S _A S ²
	(323, 10706)	-7E-16F	9E-18F	18S _A S ²
	(323, 10721)	-3E	5E-22F	6S _A S ²
	(323, 10990)	2E-10F	-5E+13F	S _A S ²
	(323, 11064)	-E-7F	0	5S _A S ²
	(323, 11693)	-23E-140F	15E+42F	90S _A S ²
	(323, 11694)	-31E-184F	21E+48F	120S _A S ²
	(323, 11801)	-E-40F	-5E-32F	24S _A S ²
	(323, 12041)	E-32F	-7E+20F	12S _A S ²

	(323, 12121)	-3E-24F	E+28F	12S _A S ²
	(323, 12295)	-E-4F	E-26F	6S _A S ²
	(323, 12317)	5E-4F	-9E	-4S _A S ²
	(323, 12383)	-3E-12F	3E+12F	8S _A S ²
	(323, 12900)	-7E-52F	3E-6F	34S _A S ²
	(323, 13202)	-2E-2F	3E-15F	5S _A S ²
	(323, 13392)	-21E-120F	15E+24F	80S _A S ²
	(323, 13393)	23E-88F	-53E-8F	16S _A S ²
	(323, 13445)	E-4F	-3E+3F	S _A S ²
	(399, 1495)	-7E-16F	15E+6F	10S _A S ²
	(399, 1514)	-7E-10F	15E-12F	10S _A S ²
	(399, 1533)	-9E-12F	21E-6F	10S _A S ²
	(399, 1568)	-5E-12F	9E-6F	10S _A S ²
	(399, 2930)	-12E-21F	21E+12F	19S _A S ²
	(399, 3292)	-7E-16F	11E+2F	14S _A S ²
	(399, 5609)	-17E-32F	31E+4F	28S _A S ²
	(399, 5655), (9143, 10706)	-11E-20F	21E-6F	18S _A S ²
	(399, 6053)	-8E-14F	15E-3F	13S _A S ²
	(399, 6699), (1511, 6053), (5609, 5972)	-7E-28F	15E+6F	14S _A S ²
	(399, 6723)	-8E-26F	17E-F	15S _A S ²
	(399, 9140)	-5E-32F	15E-12F	12S _A S ²
	(399, 9143)	-29E-56F	51E+24F	48S _A S ²
	(399, 10272)	-23E-56F	45E	30S _A S ²
	(399, 10706), (7728, 9143)	-23E-32F	45E-36F	36S _A S ²
	(399, 10721)	-9E	19E-44F	12S _A S ²
	(399, 11064)	-5E-14F	9E	10S _A S ²
	(399, 11801)	-13E-40F	31E-32F	24S _A S ²
	(399, 11693)	-50E-140F	96E+42F	90S _A S ²
	(399, 11694)	-67E-184F	129E+48F	120S _A S ²
	(399, 12041), (1539, 12121), (10113, 12383)	-5E-32F	11E+20F	12S _A S ²
	(399, 12112)	-13E-16F	27E	16S _A S ²
	(399, 12900)	-19E-52F	39E-6F	34S _A S ²
	(399, 13202)	-7E-4F	15E-30F	10S _A S ²

	(399, 12383)	-9E-24F	15E+24F	16S _A S ²
	(399, 13392)	-45E-120F	87E+24F	80S _A S ²
	(399, 13393)	-E-88F	19E-8F	16S _A S ²
	(399, 13445)	E-16F	-3E+12F	4S _A S ²
	(1495, 1511)	-5E-32F	15E+24F	8S _A S ²
	(1495, 1514), (1533, 11064)	-2E-5F	6E-3F	2S _A S ²
	(1495, 1533)	-3E-6F	9E	2S _A S ²
	(1495, 1539)	-7E-16F	21E-24F	8S _A S ²
	(1495, 1568)	-E-6F	3E	2S _A S ²
	(1495, 2930)	-9E-21F	18E+18F	13S _A S ²
	(1495, 3581)	-E-16F	9E+18F	-2S _A S ²
	(1495, 5609)	-11E-32F	25E+16F	16S _A S ²
	(1495, 5642)	-2E-11F	6E+6F	3S _A S ²
	(1495, 5655)	-13E-40F	33E+6F	18S _A S ²
	(1495, 5972)	-2E-14F	7E+7F	3S _A S ²
	(1495, 6053)	-5E-14F	12E+3F	7S _A S ²
	(1495, 6699)	-E-28F	9E+18F	2S _A S ²
	(1495, 6723)	-2E-26F	11E+11F	3S _A S ²
	(1495, 7687)	-E-10F	6E-3F	S _A S ²
	(1495, 7728)	-5E-8F	13E-14F	6S _A S ²
	(1495, 9140), (3580, 5642)	2E-16F	3E+3F	-3S _A S ²
	(1495, 9143)	-10E-28F	21E+21F	15S _A S ²
	(1495, 10264), (1511, 3580)	3E-24F	3E+12F	-4S _A S ²
	(1495, 10272)	-11E-56F	33E+24F	16S _A S ²
	(1495, 10620)	5E-16F	-5E+22F	-6S _A S ²
	(1495, 10706)	-7E-16F	18E-9F	9S _A S ²
	(1495, 10721)	-3E	8E-19F	3S _A S ²
	(1495, 10733), (3580, 13202)	0	3E-15F	-S _A S ²
	(1495, 10990)	E-5F	-E+8F	-S _A S ²
	(1495, 11064)	-E-7F	3E+3F	2S _A S ²
	(1495, 11693)	-23E-140F	69E+96F	36S _A S ²
	(1495, 11694)	-31E-184F	93E+120F	48S _A S ²
	(1495, 12112)	-5E-8F	12E+3F	5S _A S ²
	(1495, 12121)	-3E-24F	7E+34F	6S _A S ²
	(1495, 12244)	3E-12F	-4E+23F	-3S _A S ²

	(1495, 12317)	5E-4F	-6E+3F	-7S _A S ²
	(1495, 12383)	-3E-12F	6E+15F	5S _A S ²
	(1495, 12900)	-7E-52F	27E+18F	10S _A S ²
	(1495, 12902), (3580, 12295)	3E	E-26F	-6S _A S ²
	(1495, 13392)	-21E-120F	63E+72F	32S _A S ²
	(1495, 13393)	23E-88F	-5E+40F	-32S _A S ²
	(1495, 13445)	2E-8F	-3E+9F	-S _A S ²
	(1511, 1514)	-5E-20F	15E-12F	8S _A S ²
	(1511, 1533)	-9E-24F	27E	8S _A S ²
	(1511, 1568)	-E-24F	3E	8S _A S ²
	(1511, 2930)	-15E-42F	27E+36F	26S _A S ²
	(1511, 3292), (5609, 10564)	-5E-32F	7E+16F	16S _A S ²
	(1511, 3581)	E-32F	9E+36F	-4S _A S ²
	(1511, 5655)	-17E-80F	39E+12F	36S _A S ²
	(1511, 5972)	-E-28F	5E+14F	6S _A S ²
	(1511, 6723)	E-26F	2E+11F	3S _A S ²
	(1511, 9140), (5642, 10264)	17E-64F	-15E+12F	-12S _A S ²
	(1511, 9143)	-31E-112F	57E+84F	60S _A S ²
	(1511, 10564)	E-32F	-3E+24F	8S _A S ²
	(1511, 10620)	13E-32F	-19E+44F	-12S _A S ²
	(1511, 10706), (9143, 10113)	-19E-64F	45E-36F	36S _A S ²
	(1511, 10721)	9E-28F	3E+12F	8S _A S ²
	(1511, 10733), (10264, 13202)	3E	3E-60F	-4S _A S ²
	(1511, 10990)	11E-40F	-17E+64F	-8S _A S ²
	(1511, 11064)	-E-28F	3E+12F	8S _A S ²
	(1511, 11693)	19E-280F	57E+192F	72S _A S ²
	(1511, 11694)	-13E-184F	39E+120F	48S _A S ²
	(1511, 12112)	-17E-32F	39E+12F	20S _A S ²
	(1511, 12121), (12041, 12383)	-3E-48F	5E+68F	12S _A S ²
	(1511, 12244)	15E-48F	-25E+92F	-12S _A S ²
	(1511, 12317)	23E-16F	-33E+12F	-28S _A S ²
	(1511, 12383)	-9E-48F	15E+60F	20S _A S ²
	(1511, 12900)	-E-52F	9E+18F	10S _A S ²
	(1511, 12902), (10733, 12041), (10264, 12295)	9E	-7E-52F	-12S _A S ²

	(1511, 13202), (5609, 12295)	-5E-8F	15E-48F	$8S_A S^2$
	(1511, 13392)	-9E-120F	27E+72F	$32S_A S^2$
	(1511, 13393)	35E-88F	-41E+40F	$-32S_A S^2$
	(1511, 13445)	11E-32F	-21E+36F	$-4S_A S^2$
	(1514, 1531)	-E-F	3E-15F	$2S_A S^2$
	(1514, 1533)	-3E-3F	9E-9F	$2S_A S^2$
	(1514, 1539)	-7E-4F	21E-60F	$8S_A S^2$
	(1514, 1568)	-E-3F	3E-9F	$2S_A S^2$
	(1514, 2930)	-9E-15F	18E	$13S_A S^2$
	(1514, 3292)	-2E-5F	4E-5F	$4S_A S^2$
	(1514, 3448)	2E-F	-E-10F	$-3S_A S^2$
	(1514, 3580)	-3F	3E-6F	$-S_A S^2$
	(1514, 3581)	-E-10F	9E	$-2S_A S^2$
	(1514, 5609)	-11E-20F	25E-20F	$16S_A S^2$
	(1514, 5642)	-4E-13F	12E-15F	$6S_A S^2$
	(1514, 5655)	-13E-22F	33E-48F	$18S_A S^2$
	(1514, 5972)	-2E-8F	7E-11F	$3S_A S^2$
	(1514, 6053)	-5E-8F	12E-15F	$7S_A S^2$
	(1514, 6699)	-E-16F	9E-18F	$2S_A S^2$
	(1514, 6723)	-2E-14F	11E-25F	$3S_A S^2$
	(1514, 7687)	-E-4F	6E-21F	$S_A S^2$
	(1514, 7728)	-5E-2F	13E-32F	$6S_A S^2$
	(1514, 9140)	2E-7F	3E-24F	$-3S_A S^2$
	(1514, 9143)	-10E-19F	21E-6F	$15S_A S^2$
	(1514, 10264)	3E-12F	3E-24F	$-4S_A S^2$
	(1514, 10272)	-11E-32F	33E-48F	$16S_A S^2$
	(1514, 10620)	5E-10F	-5E+4F	$-6S_A S^2$
	(1514, 10706)	-7E-7F	18E-36F	$9S_A S^2$
	(1514, 10721)	-3E+3F	8E-28F	$3S_A S^2$
	(1514, 10733)	3F	3E-24F	$-S_A S^2$
	(1514, 10990)	2E-7F	-2E+7F	$-2S_A S^2$
	(1514, 11693)	-23E-86F	69E-66F	$36S_A S^2$
	(1514, 11694)	-31E-112F	93E-96F	$48S_A S^2$
	(1514, 12112)	-5E-5F	12E-6F	$5S_A S^2$
	(1514, 12121)	-3E-18F	7E+16F	$6S_A S^2$

(1514, 12244)	3E-9F	-4E+14F	-3S _A S ²
(1514, 12317)	5E-F	-6E-6F	-7S _A S ²
(1514, 12383)	-3E-9F	6E+6F	5S _A S ²
(1514, 12900)	-7E-28F	27E-54F	10S _A S ²
(1514, 12902)	3E+6F	E-44F	-6S _A S ²
(1514, 13202)	-2E+F	6E-21F	2S _A S ²
(1514, 13392)	-21E-72F	63E-72F	32S _A S ²
(1514, 13393)	23E-40F	-5E-104F	-32S _A S ²
(1514, 13445)	2E-5F	-3E	-S _A S ²
(1531, 1539)	-3E	9E-72F	8S _A S ²
(1531, 1568)	-F	-6F	S _A S ²
(1531, 2930)	-7E-13F	12E-6F	13S _A S ²
(1531, 3292)	-E-4F	E-8F	4S _A S ²
(1531, 3448)	3E	-4E-13F	-3S _A S ²
(1531, 5609), (1539, 3292)	-7E-16F	13E-32F	16S _A S ²
(1531, 5642)	-E-10F	3E-24F	6S _A S ²
(1531, 5655)	7E-16F	15E-66F	18S _A S ²
(1531, 5972)	-6F	E-17F	3S _A S ²
(1531, 6053)	-3E-6F	6E-21F	7S _A S ²
(1531, 6699)	3E-12F	-3E-30F	2S _A S ²
(1531, 6723)	2E-10F	-E-37F	3S _A S ²
(1531, 7687)	E-2F	-27F	S _A S ²
(1531, 7728), (10564, 10721)	-3E	7E-38F	6S _A S ²
(1531, 9140)	5E-4F	-6E-33F	-3S _A S ²
(1531, 9143), (3292, 10706)	-7E-16F	12E-15F	15S _A S ²
(1531, 10264)	7E-8F	-9E-36F	-4S _A S ²
(1531, 10272)	-3E-24F	9E-72F	16S _A S ²
(1531, 10620), (3448, 10564)	7E-8F	-11E-2F	-6S _A S ²
(1531, 10706)	-4E-4F	9E-45F	9S _A S ²
(1531, 10721)	-2E+4F	5E-31F	3S _A S ²
(1531, 10733)	E+4F	-27F	-S _A S ²
(1531, 10990)	3E-6F	-5E+4F	-2S _A S ²
(1531, 11064)	-3F	-9F	2S _A S ²
(1531, 11693)	-5E-68F	15E-120F	36S _A S ²
(1531, 11694)	-7E-88F	21E-168F	48S _A S ²

	(1531, 12112)	-4E-4F	9E-9F	$5S_A S^2$
	(1531, 12121)	-E-16F	E+10F	$6S_A S^2$
	(1531, 12244)	4E-8F	-7E+11F	$-3S_A S^2$
	(1531, 12317)	6E	-9E-9F	$-7S_A S^2$
	(1531, 12383)	-2E-8F	3E+3F	$5S_A S^2$
	(1531, 12900)	E-20F	3E-78F	$10S_A S^2$
	(1531, 12902)	5E+8F	-5E-50F	$-6S_A S^2$
	(1531, 13202)	-E+2F	3E-24F	$2S_A S^2$
	(1531, 13392)	-5E-56F	15E-120F	$32S_A S^2$
	(1531, 13393)	39E-24F	-53E-152F	$-32S_A S^2$
	(1531, 13445)	3E-4F	-6E-3F	$-S_A S^2$
	(1533, 1539)	-11E-8F	33E-48F	$8S_A S^2$
	(1533, 1568)	-E-2F	3E-3F	$S_A S^2$
	(1533, 2930)	-11E-17F	24E+6F	$13S_A S^2$
	(1533, 3292)	-3E-6F	7E-2F	$4S_A S^2$
	(1533, 3448)	E-2F	2E-7F	$-3S_A S^2$
	(1533, 3580)	-E-4F	6E-3F	$-S_A S^2$
	(1533, 3581)	-3E-12F	15E+6F	$-2S_A S^2$
	(1533, 5609)	-15E-24F	37E-8F	$16S_A S^2$
	(1533, 5642)	-7E-16F	21E-6F	$6S_A S^2$
	(1533, 5655)	-19E-28F	51E-30F	$18S_A S^2$
	(1533, 5972)	-4E-10F	13E-5F	$3S_A S^2$
	(1533, 6053)	-7E-10F	18E-9F	$7S_A S^2$
	(1533, 6699)	-5E-20F	21E-6F	$2S_A S^2$
	(1533, 6723)	-6E-18F	23E-13F	$3S_A S^2$
	(1533, 7687)	-3E-6F	12E-15F	$S_A S^2$
	(1533, 7728)	-7E-4F	19E-26F	$6S_A S^2$
	(1533, 9140)	-E-10F	12E-15F	$-3S_A S^2$
	(1533, 9143)	-13E-22F	30E+3F	$15S_A S^2$
	(1533, 10264)	-E-16F	15E-12F	$-4S_A S^2$
	(1533, 10272)	-19E-40F	57E-24F	$16S_A S^2$
	(1533, 10620)	3E-12F	E+10F	$-6S_A S^2$
	(1533, 10706)	-10E-10F	27E-27F	$9S_A S^2$
	(1533, 10721)	-4E+2F	11E-25F	$3S_A S^2$
	(1533, 10733)	-E+2F	6E-21F	$-S_A S^2$

(1533, 10990)	E-8F	E+10F	$-2S_A S^2$
(1533, 11693)	-41E-104F	123E-12F	$36S_A S^2$
(1533, 11694)	-55E-136F	165E-24F	$48S_A S^2$
(1533, 12112)	-6E-6F	15E-3F	$5S_A S^2$
(1533, 12121)	-5E-20F	13E+22F	$6S_A S^2$
(1533, 12244)	2E-10F	-E+17F	$-3S_A S^2$
(1533, 12317)	4E-2F	-3E-3F	$-7S_A S^2$
(1533, 12383)	-4E-10F	9E+9F	$5S_A S^2$
(1533, 13202)	-3E	9E-18F	$2S_A S^2$
(1533, 13392)	-37E-88F	111E-24F	$32S_A S^2$
(1533, 13393)	7E-56F	43E-56F	$-32S_A S^2$
(1533, 12900)	-15E-36F	51E-30F	$10S_A S^2$
(1533, 12902)	E+4F	7E-38F	$-6S_A S^2$
(1533, 13445)	E-6F	3E	$-S_A S^2$
(1539, 1568)	-3E-8F	9E-48F	$8S_A S^2$
(1539, 2930)	-17E-26F	33E-12F	$26S_A S^2$
(1539, 3580)	E-8F	9E-36F	$-4S_A S^2$
(1539, 3581)	-E-16F	15E-12F	$-4S_A S^2$
(1539, 5642)	-13E-40F	39E-96F	$24S_A S^2$
(1539, 5655)	-23E-32F	57E-132F	$36S_A S^2$
(1539, 5972), (6053, 10113), (6699, 7728)	-3E-12F	11E-34F	$6S_A S^2$
(1539, 6053)	-9E-12F	21E-42F	$14S_A S^2$
(1539, 6723)	-E-10F	8E-37F	$3S_A S^2$
(1539, 7687)	-E-4F	9E-54F	$2S_A S^2$
(1539, 9140)	11E-16F	3E-132F	$-12S_A S^2$
(1539, 9143), (5609, 10706)	-37E-64F	75E-60F	$60S_A S^2$
(1539, 10272)	-9E-24F	27E-72F	$16S_A S^2$
(1539, 10733)	E+16F	9E-108F	$-6S_A S^2$
(1539, 10564), (3292, 10113)	-E-16F	3E-24F	$8S_A S^2$
(1539, 10706)	-25E-16F	63E-180F	$36S_A S^2$
(1539, 10721)	-11E+16F	29E-124F	$12S_A S^2$
(1539, 11064)	-3E-12F	9E-36F	$8S_A S^2$
(1539, 11693)	-37E-136F	111E-240F	$72S_A S^2$
(1539, 11694)	-25E-88F	75E-168F	$48S_A S^2$

	(1539, 12112)	-19E-16F	45E-36F	20S _A S ²
	(1539, 12317)	21E	-27E-36F	-28S _A S ²
	(1539, 12383)	-11E-32F	21E+12F	20S _A S ²
	(1539, 12900)	-5E-20F	21E-78F	10S _A S ²
	(1539, 12902), (10113, 10733)	7E+16F	-E-100F	-12S _A S ²
	(1539, 13202)	-7E+8F	21E-96F	8S _A S ²
	(1539, 13392)	-17E-56F	51E-120F	32S _A S ²
	(1539, 13393)	27E-24F	-17E-152F	-32S _A S ²
	(1539, 13445)	9E-16F	-15E-12F	-4S _A S ²
	(1568, 2930)	-7E-17F	12E+6F	13S _A S ²
	(1568, 3292)	-E-6F	E-2F	4S _A S ²
	(1568, 3448)	3E-2F	-4E-7F	-3S _A S ²
	(1568, 3580)	E-4F	-3F	-S _A S ²
	(1568, 3581)	E-12F	3E+6F	-2S _A S ²
	(1568, 5609)	-7E-24F	13E-8F	16S _A S ²
	(1568, 5642)	-E-16F	3E-6F	6S _A S ²
	(1568, 5655)	-7E-28F	15E-30F	18S _A S ²
	(1568, 5972)	-10F	E-5F	3S _A S ²
	(1568, 6053)	-3E-10F	6E-9F	7S _A S ²
	(1568, 6699)	3E-20F	-3E-6F	2S _A S ²
	(1568, 6723)	2E-18F	-E-13F	3S _A S ²
	(1568, 7687)	E-6F	-15F	S _A S ²
	(1568, 7728)	-3E-4F	7E-26F	6S _A S ²
	(1568, 9140)	5E-10F	-6E-15F	-3S _A S ²
	(1568, 9143)	-7E-22F	12E+3F	15S _A S ²
	(1568, 10264)	7E-16F	-9E-12F	-4S _A S ²
	(1568, 10272)	-3E-40F	9E-24F	16S _A S ²
	(1568, 10564)	E-12F	-3E	4S _A S ²
	(1568, 10620)	7E-12F	-11E+10F	-6S _A S ²
	(1568, 10706)	-4E-10F	9E-27F	9S _A S ²
	(1568, 10721)	-2E+2F	5E-25F	3S _A S ²
	(1568, 10733)	E+2F	-21F	-S _A S ²
	(1568, 10990)	3E-8F	-5E+10F	-2S _A S ²
	(1568, 11064)	-5F	-3F	2S _A S ²
	(1568, 11693)	-5E-104F	15E-12F	36S _A S ²

(1568, 11694)	-7E-136F	21E-24F	48S _A S ²
(1568, 12112)	-4E-6F	9E-3F	5S _A S ²
(1568, 12121)	-E-20F	E+22F	6S _A S ²
(1568, 12244)	4E-10F	-7E+17F	-3S _A S ²
(1568, 12317)	6E-8F	-19E+8F	-16S _A S ²
(1568, 12383)	-2E-10F	3E+9F	5S _A S ²
(1568, 12900)	E-36F	3E-30F	10S _A S ²
(1568, 12902)	5E+4F	-5E-38F	-6S _A S ²
(1568, 13202)	-E	3E-18F	2S _A S ²
(1568, 13392)	-5E-88F	15E-24F	32S _A S ²
(1568, 13393)	39E-56F	-53E-56F	-32S _A S ²
(1568, 13445)	3E-6F	-6E+3F	-S _A S ²
(2930, 3292)	-9E-2F	-9E-3F	-7S _A S ²
(2930, 3448)	-E-13F	4E+4F	3S _A S ²
(2930, 3580)	-5E-17F	12E+12F	7S _A S ²
(2930, 3581)	-6E-21F	15E+24F	7S _A S ²
(2930, 5609)	-21E-42F	37E+28F	34S _A S ²
(2930, 5642)	-23E-59F	42E+42F	39S _A S ²
(2930, 5655)	-28E-55F	51E+24F	45S _A S ²
(2930, 5972)	-7E-19F	13E+13F	12S _A S ²
(2930, 6053)	-10E-19F	18E+9F	16S _A S ²
(2930, 6699)	-11E-38F	21E+30F	20S _A S ²
(2930, 6723)	-12E-36F	23E+23F	21S _A S ²
(2930, 7687)	-6E-15F	12E+3F	15S _A S ²
(2930, 7728)	-10E-13F	19E-8F	15S _A S ²
(2930, 9140)	-11E-47F	24E+24F	21S _A S ²
(2930, 9143)	-35E-71F	60E+60F	57S _A S ²
(2930, 10113)	-11E-26F	23E-4F	18S _A S ²
(2930, 10264)	-7E-34F	15E+24F	14S _A S ²
(2930, 10272)	-31E-76F	57E+48F	52S _A S ²
(2930, 10564)	-6E-21F	9E+18F	13S _A S ²
(2930, 10620)	-21F	E+28F	3S _A S ²
(2930, 10706)	-29E-47F	54E	45S _A S ²
(2930, 10721)	-11E-5F	22E-32F	15S _A S ²
(2930, 10733)	-5E-5F	12E-24F	7S _A S ²

	(2930, 10990)	-E-25F	2E+38F	5S _A S ²
	(2930, 11064)	-7E-19F	12E+12F	13S _A S ²
	(2930, 11693)	-68E-185F	123E+150F	117S _A S ²
	(2930, 11694)	-91E-244F	165E+192F	156S _A S ²
	(2930, 11801)	-21E-60F	43E+16F	36S _A S ²
	(2930, 12041)	-9E-42F	17E+44F	18S _A S ²
	(2930, 12121)	-8E-29F	13E+40F	15S _A S ²
	(2930, 12244)	E-29F	-2E+52F	3S _A S ²
	(2930, 12295)	-6E-9F	13E-14F	9S _A S ²
	(2930, 12317)	5E-13F	-6E+12F	-5S _A S ²
	(2930, 12900)	-27E-72F	51E+42F	46S _A S ²
	(2930, 12902)	-2E-5F	7E-20F	3S _A S ²
	(2930, 13202)	-9E-9F	18E-18F	13S _A S ²
	(2930, 13392)	-61E-160F	111E+120F	104S _A S ²
	(2930, 13393)	-17E-128F	43E+88F	40S _A S ²
	(2930, 13445)	-E-21F	24F	7S _A S ²
	(3292, 3448)	2E-4F	-3E-3F	-S _A S ²
	(3292, 3581)	-E-16F	5E+14F	2S _A S ²
	(3292, 5609)	-11E-32F	17E+8F	24S _A S ²
	(3292, 5642)	-4E-22F	6E+6F	12S _A S ²
	(3292, 5655)	-13E-40F	21E-6F	30S _A S ²
	(3292, 5972), (6053, 10564)	-2E-14F	3E+3F	7S _A S ²
	(3292, 6053)	-5E-14F	8E-F	11S _A S ²
	(3292, 6699)	-E-28F	E+10F	10S _A S ²
	(3292, 6723)	-2E-26F	3E+3F	11S _A S ²
	(3292, 7687)	-E-10F	2E-7F	5S _A S ²
	(3292, 7728)	-5E-8F	9E-18F	10S _A S ²
	(3292, 9140)	2E-16F	-3E-3F	3S _A S ²
	(3292, 9143)	-10E-28F	15E+15F	21S _A S ²
	(3292, 10264)	3E-24F	-5E+4F	4S _A S ²
	(3292, 10272)	-11E-56F	17E+8F	32S _A S ²
	(3292, 10564)	-E-16F	-E+8F	8S _A S ²
	(3292, 10620)	5E-16F	-9E+18F	-2S _A S ²
	(3292, 10733)	0	E-17F	S _A S ²
	(3292, 11064)	-E-7F	E+F	4S _A S ²

	(3292, 11693)	-23E-140F	33E+60F	72S _A S ²
	(3292, 11694)	-31E-184F	45E+72F	96S _A S ²
	(3292, 11801)	-E-40F	3E-24F	16S _A S ²
	(3292, 12041)	E-32F	-3E+24F	8S _A S ²
	(3292, 12112)	-5E-8F	10E+F	7S _A S ²
	(3292, 12121)	-3E-24F	3E+30F	10S _A S ²
	(3292, 12244)	3E-12F	-6E+21F	-S _A S ²
	(3292, 12295)	-E-4F	3E-24F	4S _A S ²
	(3292, 12317)	5E-4F	-8E+F	-5S _A S ²
	(3292, 12383)	-3E-12F	4E+13F	7S _A S ²
	(3292, 12900)	-7E-52F	11E+2F	26S _A S ²
	(3292, 12902), (10564, 10733)	3E	-3E-30F	-2S _A S ²
	(3292, 13202)	-E-F	2E-7F	2S _A S ²
	(3292, 13392)	-21E-120F	31E+40F	64S _A S ²
	(3292, 13445)	2E-8F	-5E+7F	S _A S ²
	(3448, 3580)	2E-F	-2E-2F	-3S _A S ²
	(3448, 3581)	7E-8F	-5E+4F	-12S _A S ²
	(3448, 5609), (6699, 7687)	5E-16F	-3E-12F	-4S _A S ²
	(3448, 5642)	8E-10F	-9E-9F	-9S _A S ²
	(3448, 5655)	11E-16F	-9E-36F	-12S _A S ²
	(3448, 5972)	6E-6F	-7E-7F	-7S _A S ²
	(3448, 6053)	3E-6F	-2E-11F	-3S _A S ²
	(3448, 6699)	15E-12F	-19E-10F	-18S _A S ²
	(3448, 6723)	14E-10F	-17E-17F	-17S _A S ²
	(3448, 7687)	7E-2F	-8E-17F	-9S _A S ²
	(3448, 9140)	14E-4F	-18E-18F	-18S _A S ²
	(3448, 10113)	15E	-17E-44F	-20S _A S ²
	(3448, 10264)	19E-8F	-25E-16F	-24S _A S ²
	(3448, 10272)	21E-24F	-23E-32F	-24S _A S ²
	(3448, 10620)	13E-8F	-19E+8F	-16S _A S ²
	(3448, 10706)	5E-4F	-3E-30F	-6S _A S ²
	(3448, 10990)	6E-6F	-9E+9F	-7S _A S ²
	(3448, 11064)	3E-3F	-4E-4F	-3S _A S ²
	(3448, 11693)	49E-68F	-57E-30F	-54S _A S ²
	(3448, 11694)	65E-88F	-75E-48F	-72S _A S ²

	(3448, 11801)	31E-8F	-37E-64F	-40S _A S ²
	(3448, 12041)	17E-16F	-23E+4F	-20S _A S ²
	(3448, 12308), (10721, 12121)	-5E-8F	11E-16F	8S _A S ²
	(3448, 12900)	25E-20F	-29E-38F	-30S _A S ²
	(3448, 12902)	11E+8F	-13E-40F	-16S _A S ²
	(3448, 13392)	43E-56F	-49E-40F	-48S _A S ²
	(3448, 13393)	87E-24F	-117E-72F	-112S _A S ²
	(3448, 13445)	3E-2F	-5E+F	-3S _A S ²
	(3580, 3581)	3E-12F	3E+12F	-8S _A S ²
	(3580, 5609)	-3E-24F	13E+4F	4S _A S ²
	(3580, 5972)	2E-10F	E+F	-3S _A S ²
	(3580, 6053)	-E-10F	6E-3F	S _A S ²
	(3580, 6699)	7E-20F	-3E+6F	-10S _A S ²
	(3580, 6723)	6E-18F	-E-F	-9S _A S ²
	(3580, 7687)	3E-6F	-9E	-5S _A S ²
	(3580, 9140)	8E-10F	-6E-6F	-12S _A S ²
	(3580, 9143)	-2E-11F	6E+6F	3S _A S ²
	(3580, 10113)	7E-8F	-E-28F	-12S _A S ²
	(3580, 10264)	11E-16F	-9E	-16S _A S ²
	(3580, 10272)	5E-40F	9E	-8S _A S ²
	(3580, 10620)	9E-12F	-11E+16F	-12S _A S ²
	(3580, 10733)	E+F	-9F	-2S _A S ²
	(3580, 10990)	4E-8F	-5E+13F	-5S _A S ²
	(3580, 11064)	E-5F	0	-S _A S ²
	(3580, 11693)	13E-104F	15E+42F	-18S _A S ²
	(3580, 11694)	17E-136F	21E+48F	-24S _A S ²
	(3580, 11801)	15E-24F	-5E-32F	-24S _A S ²
	(3580, 12041)	9E-24F	-7E+20F	-12S _A S ²
	(3580, 12112)	-3E-6F	9E	2S _A S ²
	(3580, 12244)	5E-10F	-7E+20F	-6S _A S ²
	(3580, 12308)	-9E-12F	19E-8F	12S _A S ²
	(3580, 12383)	-E-10F	3E+12F	2S _A S ²
	(3580, 12900)	9E-36F	3E-6F	-14S _A S ²
	(3580, 12902)	7E+4F	-5E-32F	-12S _A S ²
	(3580, 13392)	11E-88F	15E+24F	-16S _A S ²

	(3580, 13393)	55E-56F	-53E-8F	-80S _A S ²
	(3580, 13445)	2E-3F	-3E+3F	-2S _A S ²
	(3581, 5609)	-5E-32F	19E+28F	4S _A S ²
	(3581, 5642)	E-44F	15E+42F	-6S _A S ²
	(3581, 5972)	E-14F	4E+13F	-3S _A S ²
	(3581, 6053)	-2E-14F	9E+9F	S _A S ²
	(3581, 6699)	5E-28F	3E+3F	-10S _A S ²
	(3581, 6723)	4E-26F	5E+23F	-9S _A S ²
	(3581, 7687)	2E-10F	3E+3F	-5S _A S ²
	(3581, 9140)	13E-32F	-3E+24F	-24S _A S ²
	(3581, 9143)	-11E-56F	33E+60F	12S _A S ²
	(3581, 10113)	5E-16F	5E-4F	-12S _A S ²
	(3581, 10264)	9E-24F	-3E+24F	-16S _A S ²
	(3581, 10272)	E-56F	21E+48F	-8S _A S ²
	(3581, 10564)	E-8F	9E	-S _A S ²
	(3581, 10620)	2E-4F	-2E+7F	-3S _A S ²
	(3581, 10733)	3E	3E-24F	-8S _A S ²
	(3581, 10990)	7E-20F	-7E+38F	-10S _A S ²
	(3581, 11064)	E-14F	3E+12F	-2S _A S ²
	(3581, 11693)	4E-140F	42E+150F	-18S _A S ²
	(3581, 11694)	5E-184F	57E+192F	-24S _A S ²
	(3581, 11801)	11E-40F	7E+16F	-24S _A S ²
	(3581, 12041)	7E-32F	-E+44F	-12S _A S ²
	(3581, 12112)	-7E-16F	21E+12F	4S _A S ²
	(3581, 12244)	9E-24F	-11E+52F	-12S _A S ²
	(3581, 12295)	E-2F	2E-7F	-3S _A S ²
	(3581, 12383)	-3E-24F	9E+36F	4S _A S ²
	(3581, 12900)	5E-52F	15E+42F	-14S _A S ²
	(3581, 12902)	3E	-E-10F	-6S _A S ²
	(3581, 13202)	-E-4F	9E-18F	-2S _A S ²
	(3581, 13392)	3E-120F	39E+120F	-16S _A S ²
	(3581, 13393)	47E-88F	-29E+88F	-80S _A S ²
	(3581, 13445)	7E-16F	-9E+24F	-8S _A S ²
	(5609, 5642)	-25E-88F	51E+24F	48S _A S ²
	(5609, 5655)	-35E-80F	69E-12F	60S _A S ²

(5609, 5972)	-7E-28F	15E+6F	14S _A S ²
(5609, 6053)	-13E-28F	25E-2F	22S _A S ²
(5609, 6723)	-5E-26F	12E+3F	11S _A S ²
(5609, 7687)	-5E-20F	13E-14F	10S _A S ²
(5609, 7728)	-13E-16F	27E-36F	20S _A S ²
(5609, 9140)	-E-64F	15E-12F	12S _A S ²
(5609, 9143)	-49E-112F	87E+60F	84S _A S ²
(5609, 10272)	17E-56F	35E+8F	32S _A S ²
(5609, 10620)	7E-32F	-9E+36F	-4S _A S ²
(5609, 10733), (10721, 12041)	-3E	13E-68F	4S _A S ²
(5609, 11064)	-7E-28F	13E+4F	16S _A S ²
(5609, 11693)	-73E-280F	147E+120F	144S _A S ²
(5609, 11694)	-49E-184F	99E+72F	96S _A S ²
(5609, 11801)	-7E-40F	21E-24F	16S _A S ²
(5609, 12112)	-23E-32F	49E+4F	28S _A S ²
(5609, 12121)	-9E-48F	15E+60F	20S _A S ²
(5609, 12244)	9E-48F	-15E+84F	-4S _A S ²
(5609, 12317)	17E-16F	-23E+4F	-20S _A S ²
(5609, 12383)	-15E-48F	25E+52F	28S _A S ²
(5609, 12900)	-13E-52F	29E+2F	26S _A S ²
(5609, 12902)	3E	3E-60F	-4S _A S ²
(5609, 13202)	-11E-8F	25E-56F	16S _A S ²
(5609, 13392)	-33E-120F	67E+40F	64S _A S ²
(5609, 13445)	5E-32F	-11E+28F	4S _A S ²
(5642, 5655), (5972, 6053)	-3E-12F	7E-2F	6S _A S ²
(5642, 5972)	-2E-38F	9E+9F	9S _A S ²
(5642, 6053), (7687, 9143)	-11E-38F	24E-3F	21S _A S ²
(5642, 6699)	5E-76F	3E+30F	6S _A S ²
(5642, 6723)	2E-70F	9E+9F	9S _A S ²
(5642, 7687), (6053, 9140)	E-26F	6E-21F	3S _A S ²
(5642, 7728)	-11E-20F	27E-54F	18S _A S ²
(5642, 9140)	4E-14F	-3E-3F	-3S _A S ²
(5642, 9143)	-8E-26F	15E+15F	15S _A S ²
(5642, 10272)	-17E-152F	51E+24F	48S _A S ²
(5642, 10542)	E-44F	-3E+24F	12S _A S ²

(5642, 10620)	19E-44F	-27E+54F	-18S _A S ²
(5642, 10721)	-7E+2F	18E-63F	9S _A S ²
(5642, 10733), (9140, 13202)	2E+2F	3E-51F	-3S _A S ²
(5642, 10990), (10706, 12244)	8E-28F	-12E+42F	-6S _A S ²
(5642, 11064)	-E-19F	3E+3F	6S _A S ²
(5642, 11693)	-11E-128F	33E+60F	36S _A S ²
(5642, 12112)	-13E-22F	30E+3F	15S _A S ²
(5642, 12121)	-5E-68F	9E+90F	18S _A S ²
(5642, 12244)	11E-34F	-18E+63F	-9S _A S ²
(5642, 12317)	17E-10F	-24E+3F	-21S _A S ²
(5642, 12383)	-7E-34F	12E+39F	15S _A S ²
(5642, 12900)	-5E-140F	33E+6F	30S _A S ²
(5642, 12902), (9140, 12295)	13E+4F	-9E-90F	-18S _A S ²
(5642, 13202), (9143, 10733)	-4E-4F	12E-42F	6S _A S ²
(5642, 13392)	-31E-328F	93E+120F	96S _A S ²
(5642, 13393)	101E-232F	-111E-24F	-96S _A S ²
(5642, 13445)	8E-22F	-15E+21F	-3S _A S ²
(5655, 5972)	-7E-34F	18E-9F	15S _A S ²
(5655, 6053)	-16E-34F	33E-21F	27S _A S ²
(5655, 6699)	-5E-68F	21E-6F	18S _A S ²
(5655, 6723)	-8E-62F	27E-27F	21S _A S ²
(5655, 7687)	-4E-22F	15E-39F	9S _A S ²
(5655, 10113)	-5E-32F	27E-108F	12S _A S ²
(5655, 10272)	-37E-136F	87E-48F	72S _A S ²
(5655, 10564)	-2E-20F	3E+3F	9S _A S ²
(5655, 10620)	7E-20F	-9E+18F	-6S _A S ²
(5655, 10721)	-19E+8F	45E-144F	24S _A S ²
(5655, 10990)	11E-52F	-15E+66F	-6S _A S ²
(5655, 11064)	-7E-34F	15E-12F	18S _A S ²
(5655, 11693)	-26E-116F	60E+6F	54S _A S ²
(5655, 11694), (9143, 11801)	-35E-152F	81E	72S _A S ²
(5655, 11801)	-7E-88F	45E-144F	24S _A S ²
(5655, 12041)	E-80F	9E+36F	12S _A S ²
(5655, 12112)	-31E-40F	69E-12F	36S _A S ²
(5655, 12121)	-5E-32F	9E+36F	12S _A S ²

	(5655, 12244)	17E-64F	-27E+108F	-12S _A S ²
	(5655, 12295)	-2E-2F	9E-45F	3S _A S ²
	(5655, 12317)	29E-16F	-39E-12F	-36S _A S ²
	(5655, 12383)	-19E-64F	33E+60F	36S _A S ²
	(5655, 13202)	-13E-4F	33E-102F	18S _A S ²
	(5655, 13392)	-71E-296F	165E-24F	144S _A S ²
	(5655, 13393)	61E-200F	-39E-120F	-48S _A S ²
	(5655, 12900)	-25E-124F	69E-66F	54S _A S ²
	(5655, 12902)	4E+4F	-54F	-6S _A S ²
	(5972, 6723)	2E-22F	E+F	S _A S ²
	(5972, 7728)	-3E-6F	8E-19F	5S _A S ²
	(5972, 9140)	10E-26F	-9E-9F	-9S _A S ²
	(5972, 9143)	-14E-50F	27E+27F	27S _A S ²
	(5972, 10113)	3E-12F	E-26F	-2S _A S ²
	(5972, 10264)	7E-20F	-7E+2F	6S _A S ²
	(5972, 10272)	-3E-48F	13E+4F	12S _A S ²
	(5972, 10564)	E-14F	-2E+7F	3S _A S ²
	(5972, 10620)	7E-14F	-10E+17F	-7S _A S ²
	(5972, 10706)	-8E-26F	21E-33F	15S _A S ²
	(5972, 10721)	-4E+2F	11E-43F	5S _A S ²
	(5972, 10733), (6053, 12902), (7687, 12295)	2E+2F	E-35F	-3S _A S ²
	(5972, 10990)	6E-18F	-9E+27F	-5S _A S ²
	(5972, 11064)	-12F	E+F	3S _A S ²
	(5972, 11693)	-5E-122F	24E+51F	27S _A S ²
	(5972, 11694)	-7E-160F	33E+60F	36S _A S ²
	(5972, 11801)	7E-32F	-E-28F	-4S _A S ²
	(5972, 12041)	5E-28F	-5E+22F	-2S _A S ²
	(5972, 12112)	-8E-14F	19E+F	9S _A S ²
	(5972, 12121)	-E-22F	2E+29F	5S _A S ²
	(5972, 12244)	8E-22F	-13E-41F	-7S _A S ²
	(5972, 12295)	E-2F	2E-25F	-S _A S ²
	(5972, 12317)	12E-6F	-17E+F	-13S _A S ²
	(5972, 12383), (6053, 12121)	-4E-22F	7E+25F	9S _A S ²
	(5972, 12900)	E-44F	7E-2F	6S _A S ²

(5972, 12902)	5E+2F	-4E-31F	-7S _A S ²
(5972, 13202), (6053, 12295)	-2E-2F	7E-29F	3S _A S ²
(5972, 13392)	-5E-104F	23E+32F	24S _A S ²
(5972, 13393)	39E-72F	-45E	-40S _A S ²
(5972, 13445)	6E-14F	-11E+13F	-3S _A S ²
(6053, 6723)	-4E-22F	11E-7F	9S _A S ²
(6053, 9143)	-23E-50F	42E+15F	39S _A S ²
(6053, 10272)	-15E-48F	33E-12F	28S _A S ²
(6053, 10620)	4E-14F	-5E+13F	-3S _A S ²
(6053, 10706)	-17E-26F	36E-45F	27S _A S ²
(6053, 10721)	-7E+2F	16E-47F	9S _A S ²
(6053, 10733), (7687, 13202)	-E+2F	6E-39F	S _A S ²
(6053, 10990)	3E-18F	-4E+23F	-S _A S ²
(6053, 11064)	-3E-12F	6E-3F	7S _A S ²
(6053, 11693)	-32E-122F	69E+15F	63S _A S ²
(6053, 11694)	-43E-160F	93E+12F	84S _A S ²
(6053, 11801)	-5E-32F	19E-44F	12S _A S ²
(6053, 12041)	-E-28F	5E+14F	6S _A S ²
(6053, 12112)	-11E-14F	24E-3F	13S _A S ²
(6053, 12244)	5E-22F	-8E+37F	-3S _A S ²
(6053, 12317)	9E-6F	-23E+28F	-12S _A S ²
(6053, 12383)	-7E-22F	12E+21F	13S _A S ²
(6053, 12900)	-11E-44F	27E-18F	22S _A S ²
(6053, 13202)	-5E-2F	12E-33F	7S _A S ²
(6053, 13392)	-29E-104F	63E	56S _A S ²
(6053, 13393)	15E-72F	-5E-32F	-8S _A S ²
(6053, 13445)	3E-14F	-6E+9F	S _A S ²
(6699, 6723)	5E-22F	-12E-3F	-11S _A S ²
(6699, 7728)	-3E-12F	11E-34F	6S _A S ²
(6699, 9140)	29E-52F	-33E-6F	-30S _A S ²
(6699, 9143)	-19E-100F	39E+66F	42S _A S ²
(6699, 10272)	3E-48F	3E+12F	4S _A S ²
(6699, 10564)	5E-28F	-9E+18F	2S _A S ²
(6699, 10620)	17E-28F	-25E+38F	-18S _A S ²
(6699, 10706)	-7E-52F	27E-54F	18S _A S ²

	(6699, 10721)	-5E+4F	17E-82F	6S _A S ²
	(6699, 10733)	7E+4F	-3E-66F	-10S _A S ²
	(6699, 10990)	30E-72F	-46E+116F	-28S _A S ²
	(6699, 11064)	3E-24F	-3E+6F	2S _A S ²
	(6699, 11693)	17E-244F	3E+138F	18S _A S ²
	(6699, 11694)	11E-160F	3E+84F	12S _A S ²
	(6699, 11801)	13E-32F	-11E-20F	-12S _A S ²
	(6699, 12041)	4E-14F	-5E+13F	-3S _A S ²
	(6699, 12112)	-7E-10F	18E-9F	7S _A S ²
	(6699, 12121)	E-44F	-E+62F	6S _A S ²
	(6699, 12244)	19E-44F	-31E+86F	-18S _A S ²
	(6699, 12295)	5E-4F	-E-46F	-6S _A S ²
	(6699, 12308)	-19E-28F	35E-10F	30S _A S ²
	(6699, 12383)	-5E-44F	9E+54F	14S _A S ²
	(6699, 12900)	7E-44F	-3E+6F	-2S _A S ²
	(6699, 12902)	13E+4F	-13E-58F	-18S _A S ²
	(6699, 13202)	-E-4F	9E-54F	2S _A S ²
	(6699, 13392)	7E-104F	3E+48F	8S _A S ²
	(6699, 13393)	51E-72F	-65E+16F	-56S _A S ²
	(6699, 13445)	15E-28F	-27E+30F	-10S _A S ²
	(6723, 7687)	4E-14F	-E-19F	-3S _A S ²
	(6723, 7728)	-4E-10F	13E-41F	7S _A S ²
	(6723, 9140)	26E-46F	-27E-27F	-27S _A S ²
	(6723, 9143)	-22E-94F	45E+45F	45S _A S ²
	(6723, 10113)	5E-10F	-2E-29F	-5S _A S ²
	(6723, 10264)	9E-18F	-10E-10F	-9S _A S ²
	(6723, 10272)	E-44F	7E-2F	6S _A S ²
	(6723, 10564)	4E-26F	-7E+11F	3S _A S ²
	(6723, 10620)	16E-26F	-23E+31F	-17S _A S ²
	(6723, 10706)	-10E-46F	33E-75F	21S _A S ²
	(6723, 10721)	-6E+6F	19E-89F	7S _A S ²
	(6723, 10733)	6E+6F	-E-61F	-9S _A S ²
	(6723, 10990)	14E-34F	-21E+51F	-13S _A S ²
	(6723, 11064)	2E-22F	-E-F	3S _A S ²
	(6723, 11693)	8E-226F	21E+75F	27S _A S ²

(6723, 11694)	5E-148F	15E+42F	$18S_A S^2$
(6723, 11801)	11E-28F	-7E-34F	$-10S_A S^2$
(6723, 12041)	7E-26F	-8E+19F	$-5S_A S^2$
(6723, 12112)	-14E-26F	35E-F	$15S_A S^2$
(6723, 12121)	-42F	E+55F	$7S_A S^2$
(6723, 12244)	18E-42F	-29E+79F	$-17S_A S^2$
(6723, 12295)	4E-2F	E-53F	$-5S_A S^2$
(6723, 12308)	-20E-26F	37E-17F	$31S_A S^2$
(6723, 12383)	-6E-42F	11E+47F	$15S_A S^2$
(6723, 12902)	12E+6F	-11E-65F	$-17S_A S^2$
(6723, 13202)	-2E-2F	11E-61F	$3S_A S^2$
(6723, 13392)	3E-96F	11E+20F	$12S_A S^2$
(6723, 13393)	47E-64F	-57E-12F	$-52S_A S^2$
(6723, 13445)	14E-26F	-25E+23F	$-9S_A S^2$
(7687, 7728)	-2E-2F	7E-29F	$3S_A S^2$
(7687, 9140)	13E-14F	-12E-39F	$-15S_A S^2$
(7687, 10113)	5E-4F	-E-46F	$-6S_A S^2$
(7687, 10272)	E-32F	9E-36F	$4S_A S^2$
(7687, 10564)	2E-10F	-3E-3F	$S_A S^2$
(7687, 10620)	8E-10F	-11E-7F	$-9S_A S^2$
(7687, 10706)	-5E-14F	18E-63F	$9S_A S^2$
(7687, 10721)	-3E+6F	10E-53F	$3S_A S^2$
(7687, 10733)	3E+6F	-45F	$-5S_A S^2$
(7687, 10990)	7E-14F	-10E+17F	$-7S_A S^2$
(7687, 11064)	E-8F	-9F	$S_A S^2$
(7687, 11693)	4E-86F	15E-39F	$9S_A S^2$
(7687, 11694)	5E-112F	21E-60F	$12S_A S^2$
(7687, 11801)	11E-16F	-5E-68F	$-12S_A S^2$
(7687, 12041)	7E-20F	-7E+2F	$-6S_A S^2$
(7687, 12112)	-7E-10F	18E-9F	$7S_A S^2$
(7687, 12121)	-18F	E+19F	$3S_A S^2$
(7687, 12244)	9E-18F	-14E+31F	$-9S_A S^2$
(7687, 12308)	-10E-10F	19E-17F	$30S_A S^2$
(7687, 12900)	5E-28F	3E-42F	$-2S_A S^2$
(7687, 12902)	6E+6F	-5E-41F	$-9S_A S^2$

	(7687, 12383)	-3E-18F	6E+15F	$7S_A S^2$
	(7687, 13392)	3E-72F	15E-48F	$8S_A S^2$
	(7687, 13393)	47E-40F	-53E-80F	$-56S_A S^2$
	(7687, 13445)	7E-10F	-12E+3F	$-5S_A S^2$
	(7728, 10113)	-3E	13E-68F	$4S_A S^2$
	(7728, 10272)	-15E-24F	37E-80F	$24S_A S^2$
	(7728, 10564)	-E-4F	2E-7F	$3S_A S^2$
	(7728, 10706)	-17E-8F	39E-96F	$24S_A S^2$
	(7728, 10721)	-7E+8F	17E-64F	$8S_A S^2$
	(7728, 10990)	3E-12F	-3E+6F	$-2S_A S^2$
	(7728, 11064)	-3E-6F	7E-20F	$6S_A S^2$
	(7728, 11693)	-32E-68F	78E-138F	$54S_A S^2$
	(7728, 11694)	-43E-88F	105E-192F	$72S_A S^2$
	(7728, 11801)	-5E-8F	23E-112F	$8S_A S^2$
	(7728, 12041)	-E-16F	7E-20F	$4S_A S^2$
	(7728, 12112)	-11E-8F	25E-20F	$12S_A S^2$
	(7728, 12295)	-E+2F	4E-23F	$S_A S^2$
	(7728, 12900)	-11E-20F	31E-86F	$18S_A S^2$
	(7728, 13392)	-29E-56F	71E-136F	$48S_A S^2$
	(7728, 13393)	15E-24F	3E-168F	$-16S_A S^2$
	(9140, 10113)	29E-16F	-27E-108F	$-36S_A S^2$
	(9140, 10264)	41E-40F	-51E-24F	$-48S_A S^2$
	(9140, 10272)	31E-104F	-21E-48F	$-24S_A S^2$
	(9140, 10564)	13E-32F	-21E+6F	$-6S_A S^2$
	(9140, 10620)	31E-32F	-45E+36F	$-36S_A S^2$
	(9140, 10733)	4E+4F	-3E-30F	$-6S_A S^2$
	(9140, 10990)	14E-22F	-21E+33F	$-15S_A S^2$
	(9140, 11064)	5E-13F	-6E-6F	$-3S_A S^2$
	(9140, 11693)	25E-92F	-21E+6F	$-18S_A S^2$
	(9140, 11694)	11E-40F	-9E	$-8S_A S^2$
	(9140, 11801)	61E-56F	-63E-144F	$-72S_A S^2$
	(9140, 12041)	35E-64F	-45E+36F	$-36S_A S^2$
	(9140, 12112)	-7E-16F	21E-6F	$6S_A S^2$
	(9140, 12244)	17E-28F	-27E+54F	$-18S_A S^2$
	(9140, 12308)	-23E-32F	45E-36F	$36S_A S^2$

	(9140, 12383)	-E-28F	3E+30F	6S _A S ²
	(9140, 12900)	43E-92F	-15E-66F	-42S _A S ²
	(9140, 12902)	25E+16F	-27E-108F	-36S _A S ²
	(9140, 13392)	65E-232F	-51E-24F	-48S _A S ²
	(9140, 13393)	197E-136F	-255E-120F	-240S _A S ²
	(9140, 13445)	14E-16F	-24E+12F	-12S _A S ²
	(9143, 10272)	-65E-200F	123E+96F	120S _A S ²
	(9143, 10564)	-11E-56F	15E+42F	30S _A S ²
	(9143, 10721)	-13E-4F	27E-54F	18S _A S ²
	(9143, 10990)	2E-34F	-3E+51F	3S _A S ²
	(9143, 11064)	-7E-25F	12E+12F	15S _A S ²
	(9143, 11693)	-47E-164F	87E+114F	90S _A S ²
	(9143, 11694)	-21E-72F	39E+48F	40S _A S ²
	(9143, 12041)	-26E-224F	54E+216F	72S _A S ²
	(9143, 12112)	-19E-28F	39E+12F	24S _A S ²
	(9143, 12121)	-17E-80F	27E+108F	36S _A S ²
	(9143, 12295)	-11E-20F	27E-54F	18S _A S ²
	(9143, 12317)	11E-16F	-15E+12F	-12S _A S ²
	(9143, 12383)	-13E-40F	21E+48F	24S _A S ²
	(9143, 12900)	-53E-188F	105E+78F	102S _A S ²
	(9143, 13202)	-10E-10F	21E-33F	15S _A S ²
	(9143, 13392)	-146E-424F	237E+264F	240S _A S ²
	(9143, 13393)	5E-328F	33E+168F	48S _A S ²
	(9143, 13445)	2E-28F	-6E+30F	6S _A S ²
	(10113, 10264)	5E-4F	-5E-14F	-6S _A S ²
	(10113, 10620)	17E-16F	-23E+4F	-20S _A S ²
	(10113, 10706)	-7E-16F	33E-156F	12S _A S ²
	(10113, 10721)	-5E+16F	19E-116F	4S _A S ²
	(10113, 10620)	17E-16F	-23E+4F	-20S _A S ²
	(10113, 10990)	15E-24F	-21E+24F	-16S _A S ²
	(10113, 11801)	13E-8F	-7E-88F	-16S _A S ²
	(10113, 12112)	-13E-16F	35E-28F	12S _A S ²
	(10113, 12121)	E-32F	E+28F	4S _A S ²
	(10113, 12244), (10264, 10990), (10620, 12041)	19E-32F	-29E+52F	-20S _A S ²

	(10113, 12295)	5E+8F	E-80F	-8S _A S ²
	(10113, 12308)	-19E-16F	37E-44F	28S _A S ²
	(10113, 12900)	7E-20F	E-62F	-6S _A S ²
	(10113, 12902)	13E+16F	-11E-92F	-20S _A S ²
	(10113, 13393)	51E-24F	-57E-120F	-64S _A S ²
	(10113, 13445)	15E-16F	-25E-4F	-12S _A S ²
	(10264, 10272)	11E-40F	-9E	-8S _A S ²
	(10264, 10564)	9E-24F	-15E+12F	-4S _A S ²
	(10264, 10620)	21E-24F	-31E-32F	-24S _A S ²
	(10264, 10733)	11E+8F	-9E-72F	-16S _A S ²
	(10264, 11064)	7E-20F	-9E	-4S _A S ²
	(10264, 11693)	106E+416F	-102E+168F	-72S _A S ²
	(10264, 11694)	35E-136F	-33E+48F	-24S _A S ²
	(10264, 11801)	21E-24F	-23E-32F	-24S _A S ²
	(10264, 12041), (12244, 13202)	3E-6F	-4E+5F	-3S _A S ²
	(10264, 12112)	-9E-24F	27E	8S _A S ²
	(10264, 12244)	23E-40F	-37E+80F	-24S _A S ²
	(10264, 12308)	-15E-24F	29E-16F	24S _A S ²
	(10264, 12383)	-E-40F	3E+48F	8S _A S ²
	(10264, 12900)	15E-36F	-15E-6F	-14S _A S ²
	(10264, 12902)	17E+8F	-19E-64F	-24S _A S ²
	(10264, 13393)	67E-56F	-89E-8F	-80S _A S ²
	(10264, 13445)	19E-24F	-33E+24F	-16S _A S ²
	(10272, 10564)	E-56F	-3E+24E	16S _A S ²
	(10272, 10620)	25E-56F	-35E+64E	-24S _A S ²
	(10272, 10706)	-41E-104F	99E-144E	72S _A S ²
	(10272, 10721)	-19E+8F	49E-176E	24S _A S ²
	(10272, 10733)	5E+8F	9E-144F	-8S _A S ²
	(10272, 10990)	21E-72F	-31E+104F	-16S _A S ²
	(10272, 11064)	3E-48F	9E	16S _A S ²
	(10272, 11693)	-47E-488F	141E+168F	144S _A S ²
	(10272, 12112)	-35E-56F	81E	40S _A S ²
	(10272, 12121)	-7E-88F	13E+112F	24S _A S ²
	(10272, 12244)	29E-88F	-47E+160F	-24S _A S ²
	(10272, 12317)	45E-24F	-63E	-56S _A S ²

	(10272, 12383)	- 19E-88F	33E+96F	40S _A S ²
	(10272, 12900)	-E-22F	6E-3F	5S _A S ²
	(10272, 12902)	17E+8F	-11E-128F	-24S _A S ²
	(10272, 13202)	-11E-8F	33E-120F	16S _A S ²
	(10272, 13392)	-11E-104F	33E+24F	32S _A S ²
	(10272, 13393)	33E-72F	-35E-8F	-32S _A S ²
	(10272, 13445)	21E-56F	-39E+48F	-8S _A S ²
	(10564, 10620)	4E-8F	-7E+11E	-3S _A S ²
	(10564, 10706)	-5E-32F	9E-18E	18S _A S ²
	(10564, 10990)	7E-20F	-13E+32F	-4S _A S ²
	(10564, 11064)	E-14F	-3E+6E	4S _A S ²
	(10564, 11693)	4E-140F	-12E+96F	36S _A S ²
	(10564, 11694)	5E-184F	-15E+120F	48S _A S ²
	(10564, 12112)	-7E-16F	15E+6F	10S _A S ²
	(10564, 12121)	-12F	-E+17F	3S _A S ²
	(10564, 12244)	9E-24F	-17E+46F	-6S _A S ²
	(10564, 12317)	13E-8F	-21E+6F	-14S _A S ²
	(10564, 12383)	-3E-24F	3E+30F	10S _A S ²
	(10564, 12900)	5E-52F	-9E+18F	10S _A S ²
	(10564, 12902)	3E	-4E-13F	-3S _A S ²
	(10564, 13202)	-E-4F	3E-24F	4S _A S ²
	(10564, 13392)	3E-120F	-9E+72F	32S _A S ²
	(10564, 13393)	47E-88F	-77E+40F	-32S _A S ²
	(10564, 13445)	7E-16F	-15E+18F	-2S _A S ²
	(10620, 10706)	13E-32F	-15E+12E	-12S _A S ²
	(10620, 10990)	13E-20F	-21E+42F	-14S _A S ²
	(10620, 11064)	7E-14F	-11E+16E	-6S _A S ²
	(10620, 11693)	58E-140F	-84E+186F	-54S _A S ²
	(10620, 11694)	77E-184F	-111E+240F	-72S _A S ²
	(10620, 11801)	35E-40F	-49E+32F	-40S _A S ²
	(10620, 12244)	15E-24F	-25E+56E	-16S _A S ²
	(10620, 12295), (10733, 19990)	4E-2F	-5E-5F	-5S _A S ²
	(10620, 12900)	29E-52F	-41E+58F	-30S _A S ²
	(10620, 13392)	51E-120F	-73E+152F	-48S _A S ²
	(10620, 13393)	95E-88F	-141E+120F	-112S _A S ²

	(10620, 13445)	13E-16F	-23E+28F	-12S _A S ²
	(10706, 10721)	-10E+8F	24E-84E	12S _A S ²
	(10706, 10990)	5E-22F	-6E+21F	-3S _A S ²
	(10706, 11064)	-4E-13F	9E-18E	9S _A S ²
	(10706, 11693)	-58E-184F	138E-132F	108S _A S ²
	(10706, 11694)	-13E-40F	31E-32F	24S _A S ²
	(10706, 11801)	-11E-56F	57E-240F	24S _A S ²
	(10706, 12041)	-E-64F	15E-12F	12S _A S ²
	(10706, 12112)	-8E-8F	18E-9F	9S _A S ²
	(10706, 12121)	-11E-56F	21E+48F	24S _A S ²
	(10706, 12295)	-5E+4F	21E-114F	6S _A S ²
	(10706, 12317)	14E-4F	-18E-18F	-18S _A S ²
	(10706, 12383)	-5E-14F	9E+9F	9S _A S ²
	(10706, 12900)	-29E-92F	81E-162F	54S _A S ²
	(10706, 12902)	7E+16F	3E-132F	-12S _A S ²
	(10706, 13202)	-7E+2F	18E-63F	9S _A S ²
	(10706, 13392)	-79E-232F	189E-216F	144S _A S ²
	(10706, 13393)	53E-136F	-15E-312F	-48S _A S ²
	(10721, 11064)	-2E+F	5E-22E	3S _A S ²
	(10721, 11693)	-82E+8F	210E-708F	108S _A S ²
	(10721, 11694)	-55E+8F	141E-480F	72S _A S ²
	(10721, 11801)	-9E+24F	35E-208F	8S _A S ²
	(10721, 12112)	-3E	7E-11F	3S _A S ²
	(10721, 12295)	-3E+12F	11E-70F	2S _A S ²
	(10721, 12900)	-15E+12F	43E-182F	18S _A S ²
	(10721, 12902)	E+16F	5E-76F	-4S _A S ²
	(10721, 13202)	-3E+6F	8E-37F	3S _A S ²
	(10721, 13392)	-37E+8F	95E-328F	48S _A S ²
	(10721, 13393)	7E+40F	27E-360F	-16S _A S ²
	(10733, 11064)	E+F	-18F	-S _A S ²
	(10733, 11693)	13E+4F	15E-282F	-18S _A S ²
	(10733, 11694)	17E+8F	21E-384F	-24S _A S ²
	(10733, 11801)	15E+24F	-5E-176F	-24S _A S ²
	(10733, 12112)	-3E	9E-18F	2S _A S ²
	(10733, 12295)	3E+12F	E-62F	-6S _A S ²

	(10733, 12308)	-9E	19E-44F	$12S_A S^2$
	(10733, 12900)	9E+12F	3E-150F	$-14S_A S^2$
	(10733, 12902)	7E+16F	-5E-68F	$-12S_A S^2$
	(10733, 13202)	6F	3E-33F	$-S_A S^2$
	(10733, 12392)	11E+8F	15E-264F	$-16S_A S^2$
	(10733, 13393)	55E+40F	-53E-296F	$-80S_A S^2$
	(10733, 13445)	2E	-3E-6F	$-2S_A S^2$
	(10990, 11064)	3E-9F	-5E+13F	$-2S_A S^2$
	(10990, 11693)	49E-176F	-75E+276F	$-36S_A S^2$
	(10990, 11694)	65E-232F	-99E+360F	$-48S_A S^2$
	(10990, 11801)	31E-56F	-45E+72F	$-32S_A S^2$
	(10990, 12041)	17E-40F	-27E+72F	$-16S_A S^2$
	(10990, 12112)	-E-10F	4E+13F	$S_A S^2$
	(10990, 12121)	5E-28F	-9E+54F	$-2S_A S^2$
	(10990, 12244)	7E-14F	-12E+33F	$-7S_A S^2$
	(10990, 12383)	E-14F	-2E+25F	$S_A S^2$
	(10990, 12900)	25E-68F	-37E+98F	$-22S_A S^2$
	(10990, 13392)	43E-152F	-65E+232F	$-32S_A S^2$
	(10990, 13445)	6E-10F	-11E+19F	$-5S_A S^2$
	(10990, 13393)	87E-120F	-133E+200F	$-96S_A S^2$
	(11064, 11693)	-5E-122F	15E+42F	$36S_A S^2$
	(11064, 11694)	-7E-160F	21E+48F	$48S_A S^2$
	(11064, 12112)	-4E-7F	9E	$5S_A S^2$
	(11064, 12121)	-E-22F	E+28F	$6S_A S^2$
	(11064, 12244)	4E-11F	-7E+20F	$-3S_A S^2$
	(11064, 12317)	6E-3F	-9E	$-7S_A S^2$
	(11064, 12383)	-2E-11F	3E+12F	$5S_A S^2$
	(11064, 12900)	E-44F	3E-6F	$10S_A S^2$
	(11064, 12902)	5E+2F	-5E-32F	$-6S_A S^2$
	(11064, 13202)	-E-F	3E-15F	$2S_A S^2$
	(11064, 13392)	-5E-104F	15E+24F	$32S_A S^2$
	(11064, 13393)	39E-72F	-53E-8F	$-32S_A S^2$
	(11064, 13455)	3E-7F	-6E+6F	$-S_A S^2$
	(11693, 11694)	-41E-536F	123E+312F	$144S_A S^2$
	(11693, 12112)	-77E-140F	177E+42F	$90S_A S^2$

	(11693, 12121)	-28E-424F	48E+588F	108S _A S ²
	(11693, 12244)	67E-212F	-111E+402F	-54S _A S ²
	(11693, 12317)	103E-68F	-147E+42F	-126S _A S ²
	(11693, 12383)	-41E-212F	69E+258F	90S _A S ²
	(11693, 12900)	-11E-452F	87E+114F	90S _A S ²
	(11693, 12902)	20E+2F	-15E-123F	-27S _A S ²
	(11693, 13202)	-23E-32F	69E-228F	36S _A S ²
	(11693, 13392)	-85E-1048F	255E+552F	288S _A S ²
	(11693, 13393)	311E-760F	-357E+264F	-368S _A S ²
	(11693, 13445)	49E-140F	-93E+150F	-18S _A S ²
	(11964, 12112)	-103E-184F	237E+48F	120S _A S ²
	(11694, 12121)	-19E-280F	33E+384F	72S _A S ²
	(11694, 12244)	89E-280F	-147E+528F	-72S _A S ²
	(11694, 12317)	137E-88F	-195E+48F	-168S _A S ²
	(11694, 12383)	-55E-280F	93E+336F	120S _A S ²
	(11694, 12900)	-2E-74F	15E+15F	15S _A S ²
	(11694, 12902)	53E+8F	-39E-336F	-72S _A S ²
	(11694, 13202)	-31E-40F	93E-312F	48S _A S ²
	(11694, 13392)	-29E-344F	87E+168F	96S _A S ²
	(11694, 13393)	103E-248F	-117E+72F	-96S _A S ²
	(11694, 13445)	65E-184F	-123E+192F	-24S _A S ²
	(11801, 12041), (13392, 13393)	17E-40F	-19E+8F	-16S _A S ²
	(11801, 12112)	-25E-40F	67E-32F	24S _A S ²
	(11801, 12121)	3E-72F	-E+80F	8S _A S ²
	(11801, 12244)	39E-72F	-61E+128F	-40S _A S ²
	(11801, 12295)	11E+8F	-E-136F	-16S _A S ²
	(11801, 12308)	-37E-40F	71E-64F	56S _A S ²
	(11801, 12383)	-9E-72F	19E+64F	24S _A S ²
	(11801, 12900)	4E-14F	-E-19F	-3S _A S ²
	(11801, 12902)	27E+24F	-25E-160F	-40S _A S ²
	(11801, 13393)	53E-40F	-63E-72F	-64S _A S ²
	(11801, 13445)	31E-40F	-53E+16F	-24S _A S ²
	(12041, 12112)	-11E-32F	29E+20F	12S _A S ²
	(12041, 12121)	3E-48F	-5E+76F	4S _A S ²
	(12041, 12244)	21E-48F	-35E+100F	-20S _A S ²

	(12041, 12295)	7E-8F	-5E-32F	-8S _A S ²
	(12041, 12308)	-17E-32F	31E+4F	28S _A S ²
	(12041, 12900)	11E-52F	-11E+34F	-6S _A S ²
	(12041, 12902)	15E	-17E-44F	-20S _A S ²
	(12041, 13393)	59E-88F	-81E+72F	-64S _A S ²
	(12041, 13445)	17E-32F	-31E+44F	-12S _A S ²
	(12112, 12121)	-9E-24F	19E+28F	12S _A S ²
	(12112, 12295)	-7E-4F	19E-26F	6S _A S ²
	(12112, 12383)	-3E-6F	6E+6F	4S _A S ²
	(12112, 13202)	-5E-2F	12E-15F	5S _A S ²
	(12112, 13392)	-69E-120F	159E+24F	80S _A S ²
	(12112, 13393)	-25E-88F	91E-8F	16S _A S ²
	(12112, 13445)	-E-8F	3E+6F	2S _A S ²
	(12121, 12244)	7E-32F	-13E+68F	-4S _A S ²
	(12121, 12383)	-5E-32F	7E+52F	12S _A S ²
	(12121, 12900)	-3E-84F	7E+106F	18S _A S ²
	(12121, 13202), (12295, 12383)	-3E-12F	7E-2F	6S _A S ²
	(12121, 13392)	-13E-184F	23E+248F	48S _A S ²
	(12121, 13393)	31E-152F	-45E+216F	-16S _A S ²
	(12244, 12900)	33E-84F	-53E+154F	-30S _A S ²
	(12244, 12902)	13E-8F	-19E+8F	-16S _A S ²
	(12244, 12308)	-3E-24F	5E+32F	8S _A S ²
	(12244, 13445)	7E-12F	-13E+26F	-6S _A S ²
	(12244, 13392)	59E-184F	-97E+344F	-48S _A S ²
	(12244, 13393)	103E-152F	-165E+312F	-112S _A S ²
	(12295, 12308)	-5E-2F	10E-17F	7S _A S ²
	(12295, 12900)	5E-4F	7E-110F	-6S _A S ²
	(12295, 12902)	3E+6F	-2E-29F	-5S _A S ²
	(12295, 13393)	47E+8F	-45E-216F	-64S _A S ²
	(12295, 13445)	7E-4F	-11E-14F	-6S _A S ²
	(12308, 13393)	-49E-88F	99E-72F	80S _A S ²
	(12308, 13445)	-5E-16F	7E+4F	12S _A S ²
	(12317, 12900)	49E-20F	-69E-6F	-82S _A S ²
	(12317, 13202)	5E+2F	-6E-15F	-7S _A S ²
	(12317, 13392)	91E-56F	-129E+24F	-112S _A S ²

	(12383, 13392)	-37E-184F	63E+216F	80S _A S ²
	(12383, 13393)	7E-152F	-5E+184F	16S _A S ²
	(12383, 13445)	E-12F	-3E+18F	2S _A S ²
	(12900, 12112)	-31E-52F	75E-6F	34S _A S ²
	(12900, 12383)	-15E-84F	27E+90F	34S _A S ²
	(12900, 12902)	21E+12F	-17E-134F	-30S _A S ²
	(12900, 13202)	-7E-4F	27E-126F	10S _A S ²
	(12900, 13392)	3E-96F	21E+12F	20S _A S ²
	(12900, 13393)	41E-64F	-47E-20F	-44S _A S ²
	(12900, 13445)	25E-52F	-45E+42F	-14S _A S ²
	(12902, 13202)	3E+12F	E-62F	-6S _A S ²
	(12902, 13392)	35E+8F	-25E-232F	-48S _A S ²
	(12902, 13393)	79E+40F	-93E-264F	-112S _A S ²
	(12902, 13445)	11E	-17E-20F	-12S _A S ²
	(13202, 13392)	-21E-24F	63E-216F	32S _A S ²
	(13202, 13393)	23E+8F	-5E-248F	-32S _A S ²
	(13202, 13445)	2E-2F	-3E-9F	-S _A S ²
	(13392, 13445)	43E-120F	-81E+120F	-16S _A S ²
	(13393, 13445)	87E-88F	-149E+88F	-80S _A S ²

3) Centers related to X(1)

X(k)	Midpoints of X(i) and X(j)	G(a,b,c)	H(a,b,c)	K(a,b,c)
X(1)	(8, 145), (10, 3244), (40, 7982), (165, 11224), (946, 5882), (1125, 3635), (1385, 10222), (3616, 3623), (3632, 3633), (3655, 3656), (4297, 4301), (5603, 7967), (7991, 11531), (8148, 12702), (10246, 10247), (13464, 13607)	0	0	aS ²
X(8)	(1, 3632), (10, 3625), (40, 5881), (145, 3621), (3626, 4701), (3679, 4677), (4668, 4816),	\$a\$	0	-2aS ²

	(5691, 7991)			
X(10)	(1, 8), (551, 4669), (145, 3632), (944, 5881), (946, 11362), (962, 7991), (1125, 3626), (3241, 4677), (3244, 3625), (3616, 4668), (3621, 3633), (3634, 4691), (3635, 4701), (3636, 4746), (3828, 4745), (5587, 5657), (7982, 12245), (12699, 12702)	\$a\$	0	- aS ²
X(40)	(1, 7991), (10, 5493), (944, 12245)	\$a\$	-\$a\$	-aS ²
X(145)	(1, 3633)	-\$a\$	0	4aS ²
X(165)	(40, 3576), (7991, 11224), (10247, 12702)	2\$a\$	-2\$a\$	-aS ²
X(355)	(1, 5881), (40, 5691), (962, 12245), (1482, 12645), (3625, 4301), (3632, 7982)	\$a\$	\$a\$	-2aS ²
X(551)	(146, 4677), (1482, 3654), (1699, 5731), (3241, 3679), (3244, 4669), (3576, 5603), (3635, 4745), (5587, 7967), (5886, 10246)	\$a\$	0	3aS ²
X(944)	(3633, 7991)	0	-\$a\$	2aS ²
X(946)	(8, 7982), (10, 4301), (40, 962), (145, 5881), (355, 1482), (944, 5691), (1699, 5603), (3576, 9812), (6361, 9589), (11531, 12245)	0	\$a\$	aS ²
X(962)	(1, 9589), (5691, 11531)	-\$a\$	2\$a\$	2aS ²
X(1125)	(1, 10), (8, 3244), (40, 4301), (145, 3625), (355, 5882), (962, 5493), (1482, 11362), (3241, 4669), (3576, 3817), (3626, 3635), (5603, 10164), (5690, 10222), (5886, 10165),	\$a\$	0	aS ²

	(6684, 13464), (10175, 10246)			
X(1385)	(10, 5882), (40, 1482), (165, 10247), (355, 944), (946, 4297), (1483, 5690), (3241, 3654), (3244, 11362), (3576, 10246), (3579, 10222), (5731, 5886), (6684, 13607), (7982, 12702), (7991, 8148)	\$a\$	-\$a\$	2aS ²
X(1482)	(1, 7982), (40, 11531), (944, 962), (3244, 4301), (3633, 5881)	-\$a\$	\$a\$	4aS ²
X(1483)	(944, 1482), (3244, 5882)	-\$a\$	-\$a\$	8aS ²
X(3241)	(3633, 4677)	-\$a\$	0	6aS ²
X(3244)	(1, 145), (8, 3633), (944, 7982)	-\$a\$	0	5aS ²
X(3576)	(1, 165), (3817, 4297), (5657, 7967)	\$a\$	-\$a\$	aS ²
X(3579)	(1, 12702), (946, 5493), (1482, 7991), (4297, 11362), (6361, 12699)	3\$a\$	-3\$a\$	-2aS ²
X(3616)	(3617, 3623)	\$a\$	0	2aS ²
X(3617)	(1, 4816), (8, 3616)	3\$a\$	0	-4aS ²
X(3622)	(1, 3624)	\$a\$	0	4aS ²
X(3623)	(145, 3617)	-\$a\$	0	8aS ²
X(3625)	(1, 3621), (8, 3632), (5881, 12245)	3\$a\$	0	-7aS ²
X(3626)	(1, 3625), (8, 10), (355, 11362), (551, 4677), (3244, 3632), (3679, 4669), (4297, 5881), (4301, 12245), (5493, 5691), (5882, 12645)	3\$a\$	0	-5aS ²
X(3634)	(1, 3626), (8, 3635), (10, 1125), (551, 4745), (3244, 4701), (3536, 4691), (5690, 13464)	3\$a\$	0	-aS ²
X(3635)	(1, 3244), (10, 145), (944, 4301), (1482, 5882), (1483, 10222), (3625, 3633), (4297, 7982),	-\$a\$	0	7aS ²

	(5493, 11531)			
X(3636)	(1, 1125), (10, 3635), (145, 4701), (1385, 13464), (3241, 4745), (3244, 3626), (4301, 12512), (6684, 10222)	\$a\$	0	5aS ²
X(3654)	(40, 3679), (3241, 12245)	5\$a\$	-3\$a\$	-6aS ²
X(3655)	(5731, 7967)	\$a\$	-3\$a\$	6aS ²
X(3656)	(551, 4301), (3655, 12699), (3679, 7982), (5587, 11224), (7967, 9812)	-\$a\$	3\$a\$	6aS ²
X(3679)	(1, 4677), (10, 4669), (355, 3654)	2\$a\$	0	-3aS ²
X(3817)	(8, 11224), (165, 9812), (355, 10247), (946, 10175), (3656, 5790), (5587, 5603), (10175, 10247)	\$a\$	2\$a\$	aS ²
X(3828)	(1, 4669), (551, 3679), (946, 3654), (1125, 4745), (3244, 4677), (3656, 11362), (3817, 5657), (5587, 10164), (5790, 10165)	5\$a\$	0	-3aS ²
X(4297)	(40, 944), (145, 7991), (3244, 5493), (6361, 7982)	\$a\$	-2\$a\$	aS ²
X(4301)	(1, 962), (8, 11531), (145, 5881), (355, 8148), (1482, 12699), (9812, 11224)	-\$a\$	2\$a\$	3aS ²
X(4668)	(8, 3617)	4\$a\$	0	-7aS ²
X(4669)	(8, 3679), (551, 3625), (3241, 3632), (3655, 12645)	5\$a\$	0	-9aS ²
X(4677)	(3241, 3621), (3632, 3679)	4\$a\$	0	-9aS ²
X(4691)	(1, 4701), (8, 1125), (10, 3626), (3625, 3635), (3634, 4746), (3679, 4745)	5\$a\$	0	-7aS ²
X(4701)	(10, 3632)	5\$a\$	0	-11aS ²
X(4745)	(8, 551), (10, 3679), (3241, 3625), (3626, 3828)	7\$a\$	0	-9aS ²
X(4746)	(8, 3626), (3632, 3635)	7\$a\$	0	-13aS ²

X(5493)	(40, 6361)	3\$a\$	-4\$a\$	-3aS ²
X(5587)	(355, 5886), (1699, 3679), (4677, 11224)	\$a\$	\$a\$	-aS ²
X(5603)	(1, 1699), (962, 9778), (1482, 5790), (3656, 5886), (3679, 11224), (4301, 10164), (5731, 9812)	0	\$a\$	2aS ²
X(5657)	(8, 5731), (40, 5587), (165, 3679), (10165, 11362)	2\$a\$	-\$a\$	-2aS ²
X(5690)	(10, 11362), (40, 355), (944, 12645), (1482, 12245), (3625, 5882), (3654, 3679), (3655, 4677), (7991, 12699)	3\$a\$	-\$a\$	-4aS ²
X(5691)	(3632, 9589)	0	2\$a\$	-aS ²
X(5731)	(944, 5657), (3241, 9778)	\$a\$	-2\$a\$	2aS ²
X(5790)	(8, 5603), (3679, 5587), (3817, 4669)	3\$a\$	\$a\$	-4aS ²
X(5881)	(962, 3621), (3632, 5691)	\$a\$	\$a\$	-3aS ²
X(5882)	(1, 944), (40, 145), (3244, 4297), (3633, 12245), (6361, 11531)	0	-\$a\$	3aS ²
X(5886)	(1, 5587), (551, 3817), (946, 10165), (1699, 3576), (5790, 10247), (10172, 13464)	\$a\$	\$a\$	2aS ²
X(5901)	(10, 10222), (355, 1483), (946, 1385), (1125, 13464) (1482, 5690), (3579, 4301)	\$a\$	\$a\$	4aS ²
X(6684)	(1, 11362), (8, 5882), (40, 946), (165, 10175), (355, 4297), (551, 3654), (551, 10164), (1385, 5690), (3655, 4669), (4301, 12702), (5493, 12699), (5657, 10165)	2\$a\$	-\$a\$	-aS ²
X(7967)	(944, 5603), (3241, 5731)	0	-\$a\$	4aS ²
X(7982)	(1, 11531), (145, 962), (1482, 8148), (3633, 5691)	-\$a\$	\$a\$	3aS ²
X(7991)	(6361, 12245)	2\$a\$	-2\$a\$	-3aS ²

X(8148)	(7982, 11531)	-3\$a\$	3\$a\$	8aS ²
X(9778)	(5603, 6361)	3\$a\$	-4\$a\$	-2aS ²
X(9812)	(5691, 11224)	-\$a\$	4\$a\$	2aS ²
X(9955)	(355, 10222), (3579, 12699), (4301, 5690)	\$a\$	3\$a\$	2aS ²
X(9956)	(8, 10222), (355, 1385), (946, 5690), (3626, 13464)	3\$a\$	\$a\$	-2aS ²
X(10164)	(40, 5603), (1699, 9778), (3576, 5657), (3654, 10246), (3679, 5731)	3\$a\$	-2\$a\$	-aS ²
X(10165)	(1, 5657), (165, 5603), (3654, 10247), (3655, 5790), (3679, 7967), (5587, 5731)	2\$a\$	-\$a\$	aS ²
X(10171)	(10, 5603), (551, 5587), (1699, 10164), (5886, 10175)	3\$a\$	2\$a\$	aS ²
X(10172)	(10, 5886), (551, 5790), (946, 5657), (3828, 10171), (4669, 10247), (5587, 10165)	4\$a\$	\$a\$	-aS ²
X(10175)	(10, 3817), (40, 9812), (355, 10246), (1699, 5657), (3679, 5603), (5790, 5886)	2\$a\$	\$a\$	-aS ²
X(10222)	(1, 1482), (40, 8148), (145, 355), (944, 12699), (946, 3244), (3241, 3656), (3633, 12645), (4301, 5882), (11531, 12702), (10246, 11224)	-\$a\$	\$a\$	6aS ²
X(10246)	(1, 3576), (40, 11224), (3241, 5657), (3655, 5886), (5603, 5731), (5882, 10175)	\$a\$	-\$a\$	4aS ²
X(10247)	(165, 7982), (944, 9812), (3241, 5603), (3244, 3817), (3576, 11224)	-\$a\$	\$a\$	8aS ²
X(11224)	(145, 9812), (165, 11531), (8148, 10246)	-2\$a\$	2\$a\$	7aS ²
X(11362)	(1, 12245), (8, 40), (355, 12702), (944, 3632), (3625, 4297),	2\$a\$	-\$a\$	-3aS ²

	(4701, 12512), (5691, 6361)			
X(11531)	(3633, 9589)	-2\$a\$	2\$a\$	5aS ²
X(12245)	(3632, 7991)	2\$a\$	-\$a\$	-4aS ²
X(12512)	(1, 5493), (40, 4297), (3244, 7991), (4301, 6361), (5882, 12702)	3\$a\$	-\$a\$	-aS ²
X(12645)	(3632, 5881)	3\$a\$	\$a\$	-8aS ²
X(12699)	(40, 9589), (5691, 7982), (5881, 11531)	-\$a\$	3\$a\$	2aS ²
X(12702)	(8, 6361), (40, 7991)	3\$a\$	-3\$a\$	-4aS ²
X(13464)	(1, 946), (10, 1482), (355, 3244), (551, 3656), (3817, 10247), (4297, 12699), (7982, 11362)	0	\$a\$	3aS ²
X(13607)	(1, 5882), (145, 11362), (944, 946), (1385, 1483), (1482, 4297), (5493, 8148)	0	-\$a\$	5aS ²
	(1, 551), (10, 3241), (3244, 3679), (3635, 3828), (3817, 7967), (10165, 10247)	\$a\$	0	9aS ²
	(1, 1385), (10, 1483), (1125, 13607), (1482, 3579), (3244, 5690)	\$a\$	-\$a\$	6aS ²
	(1, 3241), (145, 3679), (551, 3244), (1482, 3655)	-\$a\$	0	9aS ²
	(1, 3579), (40, 10222), (1483, 11362), (5690, 5882), (12512, 13464)	3\$a\$	-3\$a\$	2aS ²
	(1, 3616), (145, 4816)	\$a\$	0	7aS ²
	(1, 3617)	3\$a\$	0	aS ²
	(1, 3634), (3244, 4746), (3635, 4691)	3\$a\$	0	7aS ²
	(1, 3817), (165, 4301), (551, 5603), (946, 10246), (3656, 10165), (4297, 9812)	\$a\$	2\$a\$	7aS ²
	(1, 3828), (551, 1125), (3241, 3626), (3635, 3679)	5\$a\$	0	9aS ²

(1, 4297), (10, 944), (40, 3244), (1483, 3579), (3635, 12512), (5493, 7982)	\$a\$	-2\$a\$	3a ²
(1, 4301), (10, 7982), (946, 1482) (962, 4297), (3817, 11224), (5882, 12699), (8148, 11362)	-\$a\$	2\$a\$	5a ²
(1, 4668)	2\$a\$	0	-a ²
(1, 4678)	5\$a\$	0	-a ²
(1, 4691), (10, 3636), (1125, 3634)	5\$a\$	0	a ²
(1, 4745), (551, 3828), (3635, 4669), (10165, 10171)	7\$a\$	0	3a ²
(1, 4746), (10, 3634), (3626, 3636)	7\$a\$	0	-5a ²
(1, 5603), (1699, 7967), (3241, 5587), (3656, 10246), (5657, 11224), (5886, 10247)	0	\$a\$	5a ²
(1, 5731), (165, 3241), (944, 5587), (3576, 7967), (3655, 10246), (5882, 10165), (9778, 11224)	\$a\$	-2\$a\$	5a ²
(1, 5790), (355, 7967), (551, 10175), (946, 10164), (1125, 10171), (3656, 5657), (3679, 10247), (3817, 10165), (5587, 10246), (9778, 12699)	3\$a\$	\$a\$	2a ²
(1, 5886), (1482, 5657), (1699, 3655), (3241, 5790), (3576, 3656), (3654, 11224)), (5603, 10246)	\$a\$	\$a\$	8a ²
(1, 6361)	2\$a\$	-3\$a\$	-a ²
(1, 6684), (10, 13607), (1125, 1385), (1483, 3626), (3635, 5690)	2\$a\$	-\$a\$	3a ²
(1, 7967), (944, 1699), (3241, 3576), (3244, 10164),	0	-\$a\$	7a ²

	(3655, 10247), (7982, 9778)			
	(1, 9588)	2\$a\$	-\$a\$	2aS ²
	(1, 9778), (40, 7967), (165, 5731), (4297, 10164)	3\$a\$	-4\$a\$	aS ²
	(1, 9812), (165, 962), (3817, 4301), (10246, 12699)	-\$a\$	4\$a\$	5aS ²
	(1, 9956), (1125, 5901), (1385, 9955)	3\$a\$	\$a\$	6aS ²
	(1, 10164), (10, 7967), (551, 3576), (1699, 4297), (3655, 10175), (3817, 5731), (4301, 9778), (5790, 5882), (10165, 10246)	3\$a\$	-2\$a\$	5aS ²
	(1, 10165), (551, 10246), (946, 5731), (3655, 3817), (5587, 5882), (7967, 10175), (10164, 10247), (10172, 13607)	2\$a\$	-\$a\$	7aS ²
	(1, 10175), (10, 10247), (551, 5886), (946, 3576), (3656, 10164), (3817, 10246), (5603, 10165), (11224, 11362)	2\$a\$	\$a\$	5aS ²
	(1, 10248)	-\$a\$	8\$a\$	9aS ²
	(1, 10595)	0	\$a\$	9aS ²
	(1, 10645), (8, 355), (946, 3625), (5691, 12702), (12245, 12699)	3\$a\$	\$a\$	-6aS ²
	(1, 12512), (40, 3635), (944, 3626), (1125, 4297), (3579, 13607)	3\$a\$	-4\$a\$	3aS ²
	(1, 12699), (8, 8148), (355, 7982), (946, 4301), (9812, 10247)	-\$a\$	3\$a\$	4aS ²
	(1, 13464), (946, 13607), (1125, 10222), (1482, 6684)	0	\$a\$	7aS ²
	(1, 13607), (1125, 1483), (1385, 3635), (3244, 6684), (5882, 13464)	0	-\$a\$	9aS ²

(8, 165), (4677, 5731), (7991, 9812)	5\$a\$	-2\$a\$	-7aS ²
(8, 946), (10, 355), (1482, 3625), (3244, 12645), (5881, 5882)	2\$a\$	\$a\$	-3aS ²
(8, 1385), (10, 5690), (355, 3579), (1483, 3625), (3626, 6684), (4701, 13607)	5\$a\$	-\$a\$	-6aS ²
(8, 1699), (5691, 9778), (5881, 7967)	3\$a\$	2\$a\$	-5aS ²
(8, 3576), (3679, 5657), (4669, 10164), (4677, 7967), (10175, 11362), (11224, 12245)	4\$a\$	-\$a\$	-5aS ²
(8, 3622)	4\$a\$	0	-5aS ²
(8, 3623)	2\$a\$	0	-aS ²
(8, 3655), (165, 5790)	7\$a\$	-3\$a\$	-6aS ²
(8, 3656), (946, 4669), (1482, 4677), (5587, 5790)	5\$a\$	3\$a\$	-6aS ²
(8, 4297), (10, 40), (944, 3625), (946, 12702), (3244, 12245), (3579, 5690), (4301, 7991)	3\$a\$	-2\$a\$	-3aS ²
(8, 4301), (355, 946), (3244, 5681), (3625, 7982), (4297, 5691), (11362, 12699)	\$a\$	2\$a\$	-aS ²
(8, 5493), (10, 7991), (4297, 12245), (11362, 12702)	5\$a\$	-4\$a\$	-7aS ²
(8, 5587), (4677, 5603), (5731, 5881)	4\$a\$	\$a\$	-7aS ²
(8, 5657), (3576, 4677)	5\$a\$	-\$a\$	-8aS ²
(8, 5691), (3621, 11531), (12645, 12699)	\$a\$	2\$a\$	-3aS ²
(8, 5881), (3621, 7982), (5691, 12245)	2\$a\$	\$a\$	-5aS ²
(8, 6684), (1385, 4701), (3626, 5690)	6\$a\$	-\$a\$	-9aS ²
(8, 7967), (40, 1699), (165, 5587), (3576, 3679)	3\$a\$	-\$a\$	-2aS ²

(8, 7991), (40, 12245), (3625, 5493), (5881, 6361)	3\$a\$	-2\$a\$	-5aS ²
(8, 9589), (962, 5691)	-\$a\$	4\$a\$	aS ²
(8, 9778), (1699, 7991), (5790, 12702), (7967, 12245)	3\$a\$	-2\$a\$	-4aS ²
(8, 9812), (165, 5691)	\$a\$	2\$a\$	-2aS ²
(8, 10246), (3817, 11362), (3654, 5587), (4669, 10165), (5657, 5790), (9812, 12702)	7\$a\$	-\$a\$	-8aS ²
(8, 10247), (10, 10175), (355, 3576), (1699, 3654), (3679, 5886)	5\$a\$	\$a\$	-4aS ²
(8, 10248)	3\$a\$	4\$a\$	-6aS ²
(8, 10595)	5\$a\$	\$a\$	-6aS ²
(8, 11362), (946, 12245), (4297, 12645)	4\$a\$	-\$a\$	-7aS ²
(8, 12245), (944, 3621), (5881, 7991), (12645, 12702)	3\$a\$	-\$a\$	-6aS ²
(8, 12512), (40, 3626), (3635, 12245), (4297, 4701)	7\$a\$	-4\$a\$	-9aS ²
(8, 12699), (1482, 5881), (7982, 12645)	\$a\$	3\$a\$	-2aS ²
(8, 12702), (355, 7991)	5\$a\$	-3\$a\$	-8aS ²
(8, 13464), (355, 6684)	4\$a\$	\$a\$	-5aS ²
(8, 13607), (10, 6684), (1125, 5690), (1385, 3626), (1483, 4701), (5657, 10172), (11362, 13464)	4\$a\$	-\$a\$	-3aS ²
(10, 165), (40, 3817), (3654, 10165), (4669, 5731), (5493, 9812), (5657, 10164), (10246, 11362)	7\$a\$	-4\$a\$	-5aS ²
(10, 962), (946, 12699), (3244, 5691), (3625, 11531), (5493, 9589)	-\$a\$	4\$a\$	3aS ²
(10, 1699), (3817, 5587)	3\$a\$	4\$a\$	-aS ²

(10, 3576), (165, 3817), (551, 5657), (4669, 7967), (10247, 11362)	5\$a\$	-2\$a\$	-aS ²
(10, 3579), (1385, 11362)	5\$a\$	-3\$a\$	-4aS ²
(10, 3616), (3244, 4816)	7\$a\$	0	-aS ²
(10, 3622)	9\$a\$	0	aS ²
(10, 3654)	8\$a\$	-3\$a\$	-9aS ²
(10, 3655), (3241, 11362), (3576, 10165), (3679, 5882), (5731, 10175)	4\$a\$	-3\$a\$	3aS ²
(10, 3656), (3654, 4301), (3817, 5886), (5603, 10175)	2\$a\$	3\$a\$	3aS ²
(10, 5587), (355, 10165), (3679, 3817), (4669, 5603), (5790, 10175)	5\$a\$	2\$a\$	-5aS ²
(10, 5657), (3576, 4699), (3654, 10175), (3679, 10164), (5886, 11362)	7\$a\$	-2\$a\$	-7aS ²
(10, 5691), (962, 3625), (4301, 5881)	\$a\$	4\$a\$	-3aS ²
(10, 5731), (165, 551), (3576, 10164), (4297, 5587)	5\$a\$	-4\$a\$	aS ²
(10, 5790), (355, 10164), (1699, 11362), (3626, 10171), (3679, 10175), (4669, 5886)	6\$a\$	\$a\$	-7aS ²
(10, 5881), (946, 12645)	3\$a\$	2\$a\$	-7aS ²
(10, 6361), (40, 5493), (4297, 7991)	5\$a\$	-6\$a\$	-5aS ²
(10, 8148), (946, 7982), (962, 5882), (1482, 4301), (3244, 12699)	-2\$a\$	3\$a\$	7aS ²
(10, 9589)	-3\$a\$	8\$a\$	5aS ²
(10, 9778), (40, 10164), (1699, 5493)	9\$a\$	-8\$a\$	-7aS ²
(10, 9812)	\$a\$	8\$a\$	aS ²

	(10, 9955)	5\$a\$	3\$a\$	-2aS ²
	(10, 9956), (3626, 5901), (5690, 9955)	7\$a\$	\$a\$	-6aS ²
	(10, 10164)	6\$a\$	-2\$a\$	-4aS ²
	(10, 10165), (355, 5731), (3654, 5603), (3679, 10246), (5657, 5886), (6684, 10172), (10164, 10175)	5\$a\$	-\$a\$	-2aS ²
	(10, 10171), (1125, 5790), (3828, 10175), (4745, 5886)	9\$a\$	2\$a\$	-5aS ²
	(10, 10246), (165, 946), (3576, 10175), (5886, 10164)	4\$a\$	-\$a\$	aS ²
	(10, 10595)	5\$a\$	2\$a\$	3aS ²
	(10, 11531), (946, 8148), (962, 3244), (4301, 7982)	-3\$a\$	4\$a\$	9aS ²
	(10, 12245), (40, 3625), (5493, 5881)	5\$a\$	-2\$a\$	-9aS ²
	(10, 12512), (40, 1125), (944, 4701), (3579, 6684), (3626, 4297)	5\$a\$	-4\$a\$	-3aS ²
	(10, 12465), (355, 3625), (5881, 11362)	4\$a\$	\$a\$	-9aS ²
	(10, 12699), (355, 4301), (962, 11362), (3625, 8148), (5691, 5882), (9812, 10175)	0	3\$a\$	aS ²
	(10, 12702), (40, 11362), (355, 5493), (946, 7991), (5882, 12245)	4\$a\$	-3\$a\$	-5aS ²
	(10, 13464), (355, 13607), (946, 6684), (3626, 10222), (5886, 10172), (5901, 9956)	2\$a\$	\$a\$	aS ²
	(40, 165), (3817, 5493), (5657, 9778), (6361, 9812), (10246, 12702)	5\$a\$	-5\$a\$	-4aS ²
	(40, 551), (165, 10164), (3679, 4297), (3817, 9778)	7\$a\$	-6\$a\$	-3aS ²

(40, 1385), (4297, 5690), (6684, 12512), (10222, 12702)	5\$a\$	-5\$a\$	-2aS ²
(40, 1483), (944, 5690), (1385, 4297), (3579, 5882), (12512, 13607)	3\$a\$	-5\$a\$	4aS ²
(40, 3241), (165, 7967), (551, 4297), (944, 3679), (3576, 5731)	2\$a\$	-3\$a\$	3aS ²
(40, 3579), (1385, 12702), (7991, 10222)	7\$a\$	-7\$a\$	-6aS ²
(40, 3616), (944, 4816)	6\$a\$	-5\$a\$	-3aS ²
(40, 3617)	8\$a\$	-5\$a\$	-9aS ²
(40, 3621)	4\$a\$	-\$a\$	-9aS ²
(40, 3622)	8\$a\$	-7\$a\$	-3aS ²
(40, 3623), (944, 4668)	4\$a\$	-5\$a\$	3aS ²
(40, 3624)	9\$a\$	-7\$a\$	-6aS ²
(40, 3632)	3\$a\$	-\$a\$	-6aS ²
(40, 3633), (145, 944)	-\$a\$	-\$a\$	6aS ²
(40, 3636), (3634, 12512), (4297, 4691)	9\$a\$	-8\$a\$	-3aS ²
(40, 5657), (3679, 9778), (5886, 12702)	5\$a\$	-4\$a\$	-5aS ²
(40, 5690), (1483, 12245), (3579, 11362)	7\$a\$	-5\$a\$	-8aS ²
(40, 5731), (3576, 9778)	4\$a\$	-5\$a\$	-aS ²
(40, 5882), (944, 11362), (1482, 5493), (3244, 12702)	2\$a\$	-3\$a\$	aS ²
(40, 5886), (3576, 3654)	7\$a\$	-5\$a\$	-4aS ²
(40, 5901), (9956, 12512)	9\$a\$	-7\$a\$	-4aS ²
(40, 6684), (5690, 12512), (12702, 13565)	6\$a\$	-5\$a\$	-5aS ²
(40, 9778), (1699, 6361), (5493, 10164), (7967, 7991)	6\$a\$	-7\$a\$	-5aS ²
(40, 9955), (3579, 9956)	9\$a\$	-5\$a\$	-6aS ²
(40, 10165), (5731, 11362),	8\$a\$	-7\$a\$	-5aS ²

	(9778, 10175)			
	(40, 10175), (3576, 11362), (3654, 10164)	8\$a\$	-5\$a\$	-7aS ²
	(40, 10246), (5886, 9778)	7\$a\$	-7\$a\$	-2aS ²
	(40, 10247), (165, 10246), (3655, 5657), (3656, 9778), (4297, 10175), (11224, 12702)	5\$a\$	-5\$a\$	2aS ²
	(40, 10248)	6\$a\$	\$a\$	-5aS ²
	(40, 10595)	5\$a\$	-4\$a\$	-aS ²
	(40, 12512), (1125, 5493), (3635, 7991)	7\$a\$	-8\$a\$	-5aS ²
	(40, 12702), (355, 6361), (5493, 11362)	5\$a\$	-5\$a\$	-6aS ²
	(40, 13464), (1125, 3579), (11362, 13607)	4\$a\$	-3\$a\$	-aS ²
	(40, 13607), (4297, 6684)	4\$a\$	-5\$a\$	aS ²
	(145, 946), (1482, 3244), (4297, 8148), (5882, 7982)	-2\$a\$	\$a\$	9aS ²
	(145, 4297), (944, 3244)	-\$a\$	-2\$a\$	9aS ²
	(145, 5493), (944, 4297)	\$a\$	-4\$a\$	5aS ²
	(145, 5731)	-\$a\$	-\$a\$	7aS ²
	(145, 6361)	\$a\$	-3\$a\$	2aS ²
	(145, 7982), (944, 11531)	-2\$a\$	\$a\$	7aS ²
	(145, 9589)	-3\$a\$	4\$a\$	7aS ²
	(145, 9778), (944, 7967)	0	-2\$a\$	5aS ²
	(145, 11531), (962, 3633)	-3\$a\$	2\$a\$	9aS ²
	(145, 12702)	\$a\$	-3\$a\$	4aS ²
	(165, 944)	2\$a\$	-5\$a\$	5aS ²
	(165, 3632)	4\$a\$	-\$a\$	-8aS ²
	(165, 3654), (5603, 12702), (5790, 9778)	9\$a\$	-7\$a\$	-8aS ²
	(165, 3655), (4297, 10165), (9778, 10247)	5\$a\$	-7\$a\$	4aS ²
	(165, 3656), (551, 10165), (3576, 5886), (3655, 5587),	3\$a\$	-\$a\$	4aS ²

	(5657, 10247), (5790, 7967)			
	(165, 5657), (944, 4677), (3656, 12702), (4297, 4669), (5587, 9778), (10164, 10246)	4\$a\$	-3\$a\$	-3aS ²
	(165, 5882), (4297, 10246)	4\$a\$	-7\$a\$	7aS ²
	(165, 7991)	4\$a\$	-4\$a\$	-5aS ²
	(165, 9589), (962, 9812)	-2\$a\$	5\$a\$	4aS ²
	(165, 9778), (3241, 7991), (3655, 12702)	5\$a\$	-6\$a\$	-3aS ²
	(165, 10165), (946, 9778), (4297, 5790), (7967, 11362), (10171, 12512)	6\$a\$	-5\$a\$	-aS ²
	(165, 12699), (946, 3817), (1699, 5886), (3656, 5587)	\$a\$	5\$a\$	4aS ²
	(165, 13464), (6684, 10246)	8\$a\$	-5\$a\$	5aS ²
	(355, 551), (946, 3679), (3656, 4669), (3817, 5790)	4\$a\$	3\$a\$	-3aS ²
	(355, 962), (1482, 5691), (5881, 8148), (9589, 12702), (11531, 12645)	-\$a\$	5\$a\$	2aS ²
	(355, 1125), (946, 3626), (1482, 4701)	3\$a\$	2\$a\$	-3aS ²
	(355, 1699)	3\$a\$	7\$a\$	-4aS ²
	(355, 3241), (551, 946), (1482, 3679), (1699, 10246), (5587, 10247), (5603, 5886)	\$a\$	3\$a\$	6aS ²
	(355, 3616), (1482, 4816)	7\$a\$	5\$a\$	-6aS ²
	(355, 3622)	9\$a\$	7\$a\$	-6aS ²
	(355, 3623), (1482, 4668)	3\$a\$	5\$a\$	6aS ²
	(355, 3626), (946, 4701), (3635, 12645)	5\$a\$	2\$a\$	-9aS ²
	(355, 3634), (946, 4746)	7\$a\$	4\$a\$	-9aS ²
	(355, 3635), (946, 1125), (1482, 3626), (3656, 3828), (5901, 9955), (12512, 12699)	\$a\$	2\$a\$	3aS ²

(355, 3636), (946, 4691)	5\$a\$	4\$a\$	-3aS ²
(355, 3817), (9812, 11362)	4\$a\$	5\$a\$	-5aS ²
(355, 5587)	5\$a\$	5\$a\$	-8aS ²
(355, 5603), (1699, 5790)	3\$a\$	5\$a\$	-2aS ²
(355, 5690), (3625, 10222), (4701, 13464)	5\$a\$	\$a\$	-8aS ²
(355, 5691), (962, 12645), (5881, 12699)	\$a\$	5\$a\$	-4aS ²
(355, 5881), (3621, 8148)	3\$a\$	3\$a\$	-8aS ²
(355, 9589)	-3\$a\$	9\$a\$	4aS ²
(355, 9955)	5\$a\$	7\$a\$	-6aS ²
(355, 10175), (1699, 4669), (3625, 10224)	5\$a\$	4\$a\$	-7aS ²
(355, 10595)	5\$a\$	7\$a\$	-2aS ²
(355, 11224), (1699, 3656), (3576, 12699), (4301, 10175), (9812, 10246)	-\$a\$	7\$a\$	8aS ²
(355, 11531), (962, 1482), (7982, 12699)	-3\$a\$	5\$a\$	8aS ²
(355, 12512), (3654, 3828), (4701, 5882); (5690, 6684)	5\$a\$	-2\$a\$	-5aS ²
(355, 13464)	2\$a\$	3\$a\$	-aS ²
(551, 1699), (946, 5886), (3656, 10175), (3817, 5603), (4301, 5657), (4669, 11224)	\$a\$	4\$a\$	5aS ²
(551, 5731), (3655, 10165), (4297, 5603), (7967, 10164)	3\$a\$	-4\$a\$	7aS ²
(551, 6684), (1385, 3828), (3576, 10172), (3679, 13607)	8\$a\$	-3\$a\$	3aS ²
(551, 9778), (4297, 5657)	7\$a\$	-8\$a\$	-aS ²
(551, 9812), (4301, 5587), (10165, 12699)	-\$a\$	8\$a\$	7aS ²
(551, 10171), (1125, 5886), (4745, 10247)	5\$a\$	2\$a\$	7aS ²
(551, 10172), (5603, 6684)	6\$a\$	\$a\$	5aS ²

(551, 11362)	7\$a\$	-3\$a\$	-6a ²
(551, 12669)	-2\$a\$	9\$a\$	9a ²
(944, 1125), (3244, 12512), (3635, 4297)	\$a\$	-4\$a\$	9a ²
(944, 3576)	\$a\$	-4\$a\$	7a ²
(944, 3579)	3\$a\$	-7\$a\$	6a ²
(944, 3617)	3\$a\$	-5\$a\$	6a ²
(944, 3633)	-2\$a\$	-\$a\$	9a ²
(944, 4669), (5731, 10164)	5\$a\$	-6\$a\$	3a ²
(944, 4678)	5\$a\$	-7\$a\$	6a ²
(944, 4691), (3636, 4297)	5\$a\$	-8\$a\$	9a ²
(944, 4746), (3634, 4297), (3636, 12512)	7\$a\$	-8\$a\$	3a ²
(944, 5493), (3244, 6361)	3\$a\$	-6\$a\$	a ²
(944, 5731)	\$a\$	-5\$a\$	8a ²
(944, 5790), (1482, 9778), (3576, 3655), (5731, 10246), (5882, 10164)	3\$a\$	-5\$a\$	8a ²
(944, 5882)	0	-3\$a\$	7a ²
(944, 6684), (1483, 12512), (4297, 13607)	2\$a\$	-5\$a\$	7a ²
(944, 7991), (4297, 5493)	2\$a\$	-3\$a\$	-a ²
(944, 9589), (962, 7982), (8148, 12699)	-2\$a\$	3\$a\$	5a ²
(944, 9778)	3\$a\$	-7\$a\$	4a ²
(944, 12512)	3\$a\$	-8\$a\$	7a ²
(946, 962), (4301, 12699)	-2\$a\$	5\$a\$	5a ²
(946, 1699), (4301, 5790), (9812, 10165), (10164, 12699)	0	7\$a\$	5a ²
(946, 3616)	2\$a\$	5\$a\$	9a ²
(946, 3617)	6\$a\$	5\$a\$	-3a ²
(946, 3632)	4\$a\$	\$a\$	-9a ²
(946, 3634), (1482, 4746)	3\$a\$	4\$a\$	3a ²
(946, 3635), (1125, 1482), (10222, 13464)	-\$a\$	2\$a\$	9a ²

(946, 3636), (1482, 4691)	\$a\$	4\$a\$	9a ²
(946, 3656), (4669, 7982)	-\$a\$	6\$a\$	9a ²
(946, 3828), (3656, 4745), (3817, 10171)	5\$a\$	6\$a\$	3a ²
(946, 4668)	8\$a\$	5\$a\$	-9a ²
(946, 4745), (3626, 3656), (5587, 10171)	7\$a\$	6\$a\$	-3a ²
(946, 5587), (1699, 10175)	2\$a\$	5\$a\$	a ²
(946, 5603), (3656, 3817)	0	5\$a\$	7a ²
(946, 5691)	0	5\$a\$	-a ²
(946, 5790)	3\$a\$	4\$a\$	-a ²
(946, 5881), (3625, 12699), (4301, 12645), (5691, 11362)	2\$a\$	3\$a\$	-5a ²
(946, 5901), (9955, 13464)	\$a\$	5\$a\$	8a ²
(946, 6361), (4297, 12702), (5882, 7991)	4\$a\$	-5\$a\$	-3a ²
(946, 9588)	8\$a\$	3\$a\$	a ²
(946, 9589)	-4\$a\$	9\$a\$	7a ²
(946, 9955)	\$a\$	7\$a\$	6a ²
(946, 9956)	3\$a\$	5\$a\$	2a ²
(946, 10171), (1125, 1699)	3\$a\$	8\$a\$	7a ²
(946, 10172), (5587, 13464)	4\$a\$	7\$a\$	5a ²
(946, 10222), (1385, 4301), (5690, 7982)	-\$a\$	3\$a\$	8a ²
(946, 12512)	3\$a\$	-\$a\$	a ²
(946, 13464), (4301, 6684)	0	3\$a\$	5a ²
(962, 1125), (4701, 11531)	-3\$a\$	8\$a\$	9a ²
(962, 1699), (9589, 9778)	-3\$a\$	8\$a\$	7a ²
(962, 3241), (3679, 11531)	-2\$a\$	3\$a\$	6a ²
(962, 3576)	-2\$a\$	5\$a\$	7a ²
(962, 3579), (1385, 12699)	-\$a\$	5\$a\$	6a ²
(962, 3616), (4816, 11531)	-2\$a\$	5\$a\$	6a ²
(962, 3617)	-\$a\$	5\$a\$	3a ²
(962, 3622)	-3\$a\$	7\$a\$	9a ²
(962, 3623), (4668, 11531)	-3\$a\$	5\$a\$	9a ²

	(962, 3626)	-\$a\$	8\$a\$	3aS ²
	(962, 3632)	\$a\$	2\$a\$	-3aS ²
	(962, 3679), (1699, 9812), (3241, 5691)	-\$a\$	6\$a\$	3aS ²
	(962, 3654), (4677, 8148), (5886, 9812)	-\$a\$	9\$a\$	6aS ²
	(962, 4301), (4297, 9589)	-3\$a\$	6\$a\$	7aS ²
	(962, 4677)	\$a\$	6\$a\$	-3aS ²
	(962, 4678)	-\$a\$	7\$a\$	3aS ²
	(962, 4701), (1125, 5691)	\$a\$	8\$a\$	-3aS ²
	(962, 5587)	-2\$a\$	7\$a\$	5aS ²
	(962, 5603)	-3\$a\$	7\$a\$	8aS ²
	(962, 5657), (5603, 9812), (5886, 12699)	-\$a\$	5\$a\$	4aS ²
	(962, 5690), (1483, 5691)	-\$a\$	7\$a\$	4aS ²
	(962, 5731), (1699, 11224), (3241, 9812), (5587, 7982)	-\$a\$	2\$a\$	4aS ²
	(962, 5881), (9589, 12245)	0	3\$a\$	-aS ²
	(962, 6684), (12699, 13464)	-2\$a\$	7\$a\$	7aS ²
	(962, 9589)	-3\$a\$	6\$a\$	5aS ²
	(962, 12512), (1125, 4301), (3626, 7982)	-\$a\$	4\$a\$	7aS ²
	(962, 12699), (5691, 8148)	-3\$a\$	7\$a\$	6aS ²
	(1125, 3576), (4745, 7967)	7\$a\$	-4\$a\$	7aS ²
	(1125, 3817), (3828, 5603), (5886, 10171), (9812, 12512)	5\$a\$	4\$a\$	5aS ²
	(1125, 4691)	7\$a\$	0	5aS ²
	(1125, 5687), (3817, 3828), (4745, 5603)	7\$a\$	4\$a\$	-aS ²
	(1125, 5882), (1385, 13607), (1482, 12512)	\$a\$	-2\$a\$	7aS ²
	(1125, 9955), (9956, 13464)	3\$a\$	3\$a\$	4aS ²
	(1125, 10164), (1699, 12512), (3576, 3828), (3626, 7967)	9\$a\$	-4\$a\$	aS ²
	(1125, 10165), (1385, 10172),	7\$a\$	-2\$a\$	5aS ²

	(3576, 10171), (3828, 10246)			
	(1125, 10172), (1385, 5587)	7\$a\$	\$a\$	2aS ²
	(1125, 10175), (3626, 10246), (3828, 5886)	7\$a\$	2\$a\$	aS ²
	(1125, 12699), (4701, 8148)	-\$a\$	6\$a\$	5aS ²
	(1125, 12702), (11362, 12512)	7\$a\$	-6\$a\$	-7aS ²
	(1385, 3634), (1483, 4746), (3636, 6684), (4691, 13607)	5\$a\$	-2\$a\$	3aS ²
	(1385, 3817)	5\$a\$	\$a\$	8aS ²
	(1385, 4746), (3634, 5690), (4691, 6684)	9\$a\$	-2\$a\$	-9aS ²
	(1385, 5493)	9\$a\$	-9\$a\$	-4aS ²
	(1385, 5691)	\$a\$	7\$a\$	-2aS ²
	(1385, 5790), (1699, 3579)	9\$a\$	-\$a\$	-2aS ²
	(1385, 5882), (3244, 3579), (4297, 10222)	\$a\$	-3\$a\$	8aS ²
	(1385, 5901), (9956, 13607)	3\$a\$	-\$a\$	8aS ²
	(1385, 6684), (3579, 13464), (3626, 5882), (3635, 11362), (3655, 4745), (5690, 13607)	3\$a\$	-2\$a\$	aS ²
	(1385, 9956), (5901, 6684)	5\$a\$	-\$a\$	2aS ²
	(1385, 10164), (5690, 7967)	9\$a\$	-7\$a\$	4aS ²
	(1385, 10165)	7\$a\$	-5\$a\$	8aS ²
	(1385, 10171), (5790, 13607), (10164, 13464), (10172, 10246)	6\$a\$	-\$a\$	7aS ²
	(1385, 10175), (5690, 10247)	7\$a\$	-\$a\$	4aS ²
	(1482, 3632)	3\$a\$	\$a\$	-6aS ²
	(1482, 3656), (5603, 11224)	-2\$a\$	3\$a\$	9aS ²
	(1482, 4669), (1699, 10165)	2\$a\$	3\$a\$	3aS ²
	(1482, 10247), (3576, 7982)	-\$a\$	\$a\$	5aS ²
	(1483, 4691), (3634, 13607)	3\$a\$	-2\$a\$	9aS ²
	(1483, 5493)	5\$a\$	-9\$a\$	2aS ²
	(1483, 5881)	3\$a\$	3\$a\$	-4aS ²
	(1483, 6684)	\$a\$	-2\$a\$	7aS ²
	(1483, 7991)	7\$a\$	-9\$a\$	-4aS ²

(1483, 12645)	5\$a\$	\$a\$	-8a ²
(1699, 3624)	3\$a\$	7\$a\$	5a ²
(1699, 3632)	3\$a\$	\$a\$	-7a ²
(1699, 3817), (3679, 4301), (9812, 10164)	\$a\$	6\$a\$	3a ²
(1699, 3828)	5\$a\$	8\$a\$	a ²
(1699, 4668)	6\$a\$	5\$a\$	-8a ²
(1699, 4677), (3576, 5881), (10247, 12645)	2\$a\$	\$a\$	-4a ²
(1699, 4745)	7\$a\$	8\$a\$	-5a ²
(1699, 5690)	9\$a\$	5\$a\$	-8a ²
(1699, 5691)	0	4\$a\$	-a ²
(1699, 5881)	3\$a\$	5\$a\$	-8a ²
(1699, 6684), (3817, 10172), (5790, 13464)	6\$a\$	5\$a\$	a ²
(1699, 9588)	6\$a\$	4\$a\$	-a ²
(1699, 9589)	-3\$a\$	7\$a\$	5a ²
(1699, 10172)	4\$a\$	9\$a\$	3a ²
(1699, 10245)	2\$a\$	5\$a\$	7a ²
(1699, 11531)	-3\$a\$	4\$a\$	8a ²
(3241, 3617)	2\$a\$	0	9a ²
(3241, 4668), (3623, 3679)	7\$a\$	0	9a ²
(3241, 4678)	4\$a\$	0	9a ²
(3241, 5881)	2\$a\$	3\$a\$	-3a ²
(3244, 3654), (3656, 4297), (7967, 10165)	2\$a\$	-3\$a\$	9a ²
(3576, 4297), (5493, 11224)	5\$a\$	-8\$a\$	5a ²
(3576, 5691), (5881, 11224)	\$a\$	5\$a\$	-2a ²
(3576, 7991)	7\$a\$	-7\$a\$	-8a ²
(3576, 10245)	5\$a\$	-4\$a\$	7a ²
(3579, 3634)	9\$a\$	-6\$a\$	-5a ²
(3579, 3635), (4297, 13464), (5882, 6684), (10222, 12512)	2\$a\$	-3\$a\$	5a ²
(3579, 3636)	7\$a\$	-6\$a\$	a ²
(3579, 3656), (3654, 10222)	7\$a\$	-3\$a\$	6a ²

	(3579, 5603)	9\$a\$	-5\$a\$	2aS ²
	(3579, 5691), (5881, 10222)	3\$a\$	5\$a\$	-6aS ²
	(3579, 9812)	5\$a\$	7\$a\$	2aS ²
	(3579, 9955)	7\$a\$	-3\$a\$	-2aS ²
	(3579, 12512), (5493, 13464), (12702, 13607)	6\$a\$	-7\$a\$	-3aS ²
	(3616, 3617)	2\$a\$	0	-aS ²
	(3616, 5587)	8\$a\$	5\$a\$	aS ²
	(3616, 5731)	4\$a\$	-5\$a\$	8aS ²
	(3616, 10595)	\$a\$	\$a\$	6aS ²
	(3617, 5603)	9\$a\$	5\$a\$	-2aS ²
	(3617, 5882)	6\$a\$	-5\$a\$	7aS ²
	(3617, 7967)	9\$a\$	-5\$a\$	8aS ²
	(3621, 5691)	3\$a\$	2\$a\$	-9aS ²
	(3621, 9589)	\$a\$	4\$a\$	-5aS ²
	(3622, 3624)	3\$a\$	0	5aS ²
	(3622, 4678)	6\$a\$	0	-4aS ²
	(3622, 10248)	0	4\$a\$	3aS ²
	(3623, 4678)	9\$a\$	0	8aS ²
	(3623, 5881)	4\$a\$	5\$a\$	-7aS ²
	(3623, 11362), (4668, 5882)	8\$a\$	-5\$a\$	aS ²
	(3624, 5691)	\$a\$	7\$a\$	-3aS ²
	(3625, 5691)	3\$a\$	4\$a\$	-9aS ²
	(3625, 9589)	-\$a\$	8\$a\$	-aS ²
	(3626 4301), (4701, 7982)	\$a\$	4\$a\$	aS ²
	(3626, 5603), (3817, 4745), (3828, 5587), (5790, 10171)	9\$a\$	4\$a\$	-7aS ²
	(3626, 5691)	3\$a\$	8\$a\$	-9aS ²
	(3626, 12699)	\$a\$	6\$a\$	-aS ²
	(3632, 4297)	5\$a\$	-2\$a\$	-9aS ²
	(3632, 4301)	3\$a\$	2\$a\$	-7aS ²
	(3632, 5882)	4\$a\$	-\$a\$	-7aS ²
	(3632, 6361)	4\$a\$	-3\$a\$	-7aS ²
	(3632, 8148)	\$a\$	3\$a\$	-2aS ²
	(3632, 11224)	2\$a\$	\$a\$	-4aS ²

(3632, 12245)	4\$a\$	-\$a\$	-9aS ²
(3632, 12699)	3\$a\$	3\$a\$	-8aS ²
(3633, 3679)	-2\$a\$	0	9aS ²
(3633, 6361)	0	-3\$a\$	5aS ²
(3633, 11531)	-2\$a\$	\$a\$	6aS ²
(3634, 5901), (3636, 9956)	4\$a\$	\$a\$	3aS ²
(3634, 6684), (3636, 5690), (4746, 13607)	7\$a\$	-2\$a\$	-3aS ²
(3634, 9955)	4\$a\$	3\$a\$	aS ²
(3634, 9956), (4691, 5901)	6\$a\$	\$a\$	-3aS ²
(3634, 13464), (4691, 10222)	3\$a\$	2\$a\$	5aS ²
(3635, 3654), (3655, 3828), (3656, 12512), (4745, 5882), (5731, 10171)	7\$a\$	-6\$a\$	9aS ²
(3635, 4746)	5\$a\$	0	aS ²
(3635, 5493), (4297, 12512)	5\$a\$	-8\$a\$	aS ²
(3635, 5881), (4301, 4701), (5691, 12512)	3\$a\$	4\$a\$	-5aS ²
(3636, 5901)	2\$a\$	\$a\$	9aS ²
(3635, 5691)	-\$a\$	8\$a\$	3aS ²
(3635, 12702)	5\$a\$	-6\$a\$	-aS ²
(3636, 9955)	2\$a\$	3\$a\$	7aS ²
(3636, 11362)	9\$a\$	-4\$a\$	-7aS ²
(3653, 3817)	8\$a\$	3\$a\$	9aS ²
(3653, 3655)	2\$a\$	-3\$a\$	6aS ²
(3653, 5790)	7\$a\$	0	-3aS ²
(3653, 5886)	2\$a\$	0	3aS ²
(3653, 12699)	-\$a\$	6\$a\$	6aS ²
(3654, 3817), (3679, 10165), (4669, 10246), (5603, 11362), (5657, 10175), (5790, 10164)	6\$a\$	-\$a\$	-5aS ²
(3654, 4297), (3656, 5493)	8\$a\$	-9\$a\$	-3aS ²
(3654, 12702), (4669, 5493)	7\$a\$	-6\$a\$	-9aS ²
(3655, 4297)	4\$a\$	-9\$a\$	9aS ²
(3655, 6684)	8\$a\$	-9\$a\$	9aS ²

(3655, 10164), (4297, 5886), (5657, 5882), (5731, 10165)	4\$a\$	-5\$a\$	5aS ²
(3656, 6684), (4745, 10222)	4\$a\$	3\$a\$	9aS ²
(3656, 10247), (5657, 7982)	-\$a\$	2\$a\$	7aS ²
(3656, 12645)	4\$a\$	3\$a\$	-9aS ²
(3656, 12699), (4677, 11531)	-\$a\$	3\$a\$	3aS ²
(3679, 5691)	\$a\$	3\$a\$	-3aS ²
(3679, 6361)	8\$a\$	-9\$a\$	-9aS ²
(3679, 7991)	4\$a\$	-3\$a\$	-6aS ²
(3679, 9589)	-2\$a\$	6\$a\$	3aS ²
(3679, 9812), (5691, 5731)	\$a\$	4\$a\$	-aS ²
(3679, 10222), (3828, 13464), (3679, 10245)	5\$a\$	3\$a\$	6aS ²
(3679, 13464), (10172, 10175)	8\$a\$	3\$a\$	-3aS ²
(3817, 6684)	8\$a\$	\$a\$	-aS ²
(3828, 5731), (5603, 12512)	9\$a\$	-8\$a\$	5aS ²
(3828, 10165), (4745, 10246), (10164, 10171)	9\$a\$	-2\$a\$	-aS ²
(3828, 10172), (5603, 5690)	9\$a\$	\$a\$	-4aS ²
(4297, 5882), (6361, 8148)	\$a\$	-3\$a\$	4aS ²
(4297, 5901)	5\$a\$	-7\$a\$	8aS ²
(4297, 6361)	5\$a\$	-8\$a\$	-3aS ²
(4297, 9955)	5\$a\$	-5\$a\$	6aS ²
(4297, 9956)	7\$a\$	-7\$a\$	2aS ²
(4301, 4746)	3\$a\$	8\$a\$	-aS ²
(4301, 4677)	5\$a\$	6\$a\$	-9aS ²
(4301, 4691)	\$a\$	8\$a\$	5aS ²
(4301, 5691)	-\$a\$	6\$a\$	aS ²
(4301, 13464), (12699, 13607)	-2\$a\$	5\$a\$	9aS ²
(4668, 5691)	2\$a\$	5\$a\$	-6aS ²
(4668, 7982)	-\$a\$	5\$a\$	8aS ²
(4668, 10595)	4\$a\$	\$a\$	-3aS ²
(4668, 11224)	\$a\$	5\$a\$	7aS ²
(4669, 9812)	3\$a\$	8\$a\$	-5aS ²
(4669, 12699)	2\$a\$	9\$a\$	-3aS ²

(4677, 5691)	2\$a\$	3\$a\$	-6aS ²
(4677, 7991)	5\$a\$	-3\$a\$	-9aS ²
(4677, 9812), (5603, 5881)	3\$a\$	4\$a\$	-7aS ²
(4691, 5882)	5\$a\$	-4\$a\$	5aS ²
(4691, 9955)	6\$a\$	3\$a\$	-5aS ²
(4691, 9956), (4746, 5901)	8\$a\$	\$a\$	-9aS ²
(4691, 13464), (4746, 10222)	5\$a\$	2\$a\$	-aS ²
(4701, 12699)	3\$a\$	6\$a\$	-7aS ²
(4745, 12512)	8\$a\$	-6\$a\$	-6aS ²
(4746, 5882)	7\$a\$	-4\$a\$	-aS ²
(4816, 5691)	3\$a\$	5\$a\$	-9aS ²
(4816, 7982)	\$a\$	5\$a\$	2aS ²
(4816, 11224)	4\$a\$	5\$a\$	-2aS ²
(5493, 6684)	8\$a\$	-9\$a\$	-7aS ²
(5493, 7991)	7\$a\$	-8\$a\$	-9aS ²
(5493, 10702), (6361, 11362)	6\$a\$	-7\$a\$	-7aS ²
(5493, 13607)	6\$a\$	-9\$a\$	-aS ²
(5587, 5691)	\$a\$	7\$a\$	-4aS ²
(5587, 5881)	2\$a\$	2\$a\$	-5aS ²
(5587, 6361), (5731, 7991)	7\$a\$	-8\$a\$	-7aS ²
(5587, 9812), (5691, 7967), (5790, 12699)	0	5\$a\$	aS ²
(5587, 10172)	8\$a\$	5\$a\$	-5aS ²
(5587, 10175)	6\$a\$	3\$a\$	-3aS ²
(5587, 10245)	5\$a\$	2\$a\$	aS ²
(5587, 10595)	5\$a\$	8\$a\$	7aS ²
(5603, 5691)	0	7\$a\$	-aS ²
(5603, 7991)	6\$a\$	-5\$a\$	-7aS ²
(5603, 10171)	3\$a\$	6\$a\$	9aS ²
(5603, 10172), (10175, 13464)	4\$a\$	5\$a\$	7aS ²
(5603, 10245)	\$a\$	\$a\$	5aS ²
(5657, 5691)	2\$a\$	5\$a\$	-5aS ²
(5657, 6361)	4\$a\$	-5\$a\$	-4aS ²
(5657, 10245)	4\$a\$	-2\$a\$	-aS ²
(5657, 10595)	5\$a\$	-\$a\$	aS ²

(5657, 12699)	\$a\$	7\$a\$	2aS ²
(5657, 13607), (5731, 10172)	8\$a\$	-7\$a\$	7aS ²
(5657, 13464), (5886, 6684)	8\$a\$	-\$a\$	aS ²
(5690, 5691)	3\$a\$	7\$a\$	-8aS ²
(5690, 5901), (6684, 9956)	7\$a\$	-\$a\$	-4aS ²
(5691, 5881)	\$a\$	3\$a\$	-4aS ²
(5691, 6684)	2\$a\$	7\$a\$	-5aS ²
(5691, 9588)	2\$a\$	6\$a\$	-5aS ²
(5691, 9589)	-\$a\$	3\$a\$	aS ²
(5691, 10222)	-\$a\$	9\$a\$	2aS ²
(5691, 13607)	0	7\$a\$	aS ²
(5691, 13464)	0	9\$a\$	-aS ²
(5731, 11224)	-\$a\$	0	9aS ²
(5790, 12645)	3\$a\$	\$a\$	-7aS ²
(5881, 9812)	2\$a\$	7\$a\$	-7aS ²
(5881, 13607)	4\$a\$	3\$a\$	-7aS ²
(5881, 13464)	4\$a\$	5\$a\$	-9aS ²
(5882, 6361)	4\$a\$	-7\$a\$	-aS ²
(5882, 9589)	-4\$a\$	7\$a\$	9aS ²
(5882, 12512)	3\$a\$	-6\$a\$	5aS ²
(5901, 11362)	9\$a\$	-3\$a\$	-8aS ²
(6361, 7967)	3\$a\$	-5\$a\$	-aS ²
(6361, 7991)	4\$a\$	-5\$a\$	-5aS ²
(6361, 10595)	5\$a\$	-7\$a\$	-3aS ²
(6361, 11224)	4\$a\$	-7\$a\$	aS ²
(6361, 12702)	7\$a\$	-9\$a\$	-8aS ²
(6684, 10171)	9\$a\$	-\$a\$	-2aS ²
(6684, 11362)	6\$a\$	-3\$a\$	-7aS ²
(6684, 12702), (7991, 13464)	8\$a\$	-7\$a\$	-9aS ²
(6684, 12699)	0	5\$a\$	3aS ²
(7967, 9778)	3\$a\$	-5\$a\$	2aS ²
(7967, 10245)	\$a\$	-2\$a\$	8aS ²
(7982, 9589)	-3\$a\$	5\$a\$	6aS ²
(7991, 11362)	6\$a\$	-5\$a\$	-9aS ²
(7991, 12245)	4\$a\$	-3\$a\$	-7aS ²

	(9588, 10248)	3\$a\$	6\$a\$	-aS ²
	(9778, 10248)	9\$a\$	-2\$a\$	-4aS ²
	(9589, 11224)	-4\$a\$	7\$a\$	8aS ²
	(9589, 11362)	-2\$a\$	7\$a\$	3aS ²
	(9589, 11531)	-2\$a\$	3\$a\$	4aS ²
	(9589, 12645)	-\$a\$	9\$a\$	-2aS ²
	(10595, 12245)	5\$a\$	-2\$a\$	-8aS ²

4) Centers related to X(98)

X(k)	Midpoints of X(i) and X(j)	G(a,b,c)	H(a,b,c)	K(a,b,c)
X(98)	(115, 10991), (147, 5984)	$\cot^2(\omega)-2$	$-\cot^2(\omega)+1$	$-S_A^2$
X(99)	(114, 10992), (6054, 12117), (6781, 7813)	-1	2	S_A^2
X(114)	(98, 147), (10732, 13172)	-1	$\cot^2(\omega)-1$	S_A^2
X(115)	(99, 148), (316, 385), (6033, 12188), (7840, 11054), (9862, 10722)	$\cot^2(\omega)-2$	-2	$-S_A^2$
X(187)	(99, 385), (115, 6781), (8591, 11054)	$\cot^2(\omega)-4$	4	$-S_A^2$
X(316)	(148, 7779)	1	-4	S_A^2
X(325)	(99, 316), (115, 7813), (187, 7845), (385, 7779), (7799, 7809)	0	-1	S_A^2
X(620)	(99, 115), (147, 10991), (187, 325), (230, 6390), (316, 6781), (385, 7813), (6055, 8724), (6321, 10992)	$\cot^2(\omega)-4$	2	S_A^2
X(625)	(115, 325), (187, 316), (385, 7845)	$\cot^2(\omega)-2$	-4	S_A^2
X(671)	(316, 11054)	$2\cot^2(\omega)-3$	-6	$-3S_A^2$
X(2482)	(671, 8591), (9880, 10992), (11632, 13188)	$\cot^2(\omega)-6$	6	$3S_A^2$

X(5461)	(114, 11632),	$5\cot^2(\omega)-12$	-6	$-3S_A^2$
X(6033)	(99, 10722)	$-\cot^2(\omega)+1$	$3\cot^2(\omega)-5$	$2S_A^2$
X(6036)	(98, 114), (148, 10992), (620, 11623), (2482, 11632), (6033, 10991)	$2\cot^2(\omega)-5$	$-\cot^2(\omega)+1$	$-S_A^2$
X(6054)	(6033, 8724), (10722, 12117)	$-\cot^2(\omega)$	$3\cot^2(\omega)-3$	$3S_A^2$
X(6055)	(148, 12117), (8724, 12188)	$4\cot^2(\omega)-9$	$-3\cot^2(\omega)+3$	$-3S_A^2$
X(6321)	(98, 10723)	$\cot^2(\omega)-1$	$\cot^2(\omega)-7$	$-2S_A^2$
X(6390)	(99, 325), (187, 7813), (6781, 7845), (10992, 13449)	-1	1	$2S_A^2$
X(6721)	(114, 6036)	$2\cot^2(\omega)-7$	$\cot^2(\omega)-1$	S_A^2
X(6722)	(114, 11623), (115, 620), (230, 625)	$3\cot^2(\omega)-8$	-2	$-S_A^2$
X(7809)	(114, 6036)	1	-6	$3S_A^2$
X(7813)	(99, 7779)	$-\cot^2(\omega)+2$	-2	$5S_A^2$
X(7845)	(316, 7779)	$-\cot^2(\omega)+4$	-8	$5S_A^2$
X(8724)	(99, 6054)	$-\cot^2(\omega)-3$	$3\cot^2(\omega)+3$	$6S_A^2$
X(9880)	(148, 6054)	$2\cot^2(\omega)-3$	$3\cot^2(\omega)-15$	$-3S_A^2$
X(10991)	(98, 9862), (99, 5984)	$3\cot^2(\omega)-6$	$-4\cot^2(\omega)+6$	$-3S_A^2$
X(10992)	(99, 13172)	-3	$-\cot^2(\omega)+9$	$3S_A^2$
X(11623)	(98, 115), (114, 12188)	$3\cot^2(\omega)-6$	$-2\cot^2(\omega)$	$-3S_A^2$
X(11632)	(98, 671), (8596, 13172)	$5\cot^2(\omega)-9$	$-3\cot^2(\omega)-3$	$-6S_A^2$
X(12042)	(99, 12188), (114, 10991), (6033, 9862), (8724, 11177)	$3\cot^2(\omega)-7$	$-3\cot^2(\omega)+5$	$-2S_A^2$
	(98, 148), (6321, 12188), (8596, 12117), (9862, 10723)	$2\cot^2(\omega)-3$	$-\cot^2(\omega)-3$	$-3S_A^2$
	(98, 187)	$3\cot^2(\omega)-8$	$-2\cot^2(\omega)+6$	$-3S_A^2$
	(98, 230)	$3\cot^2(\omega)-7$	$-2\cot^2(\omega)+3$	$-3S_A^2$
	(98, 385), (2080, 12188)	$2\cot^2(\omega)-5$	$-\cot^2(\omega)+3$	$-3S_A^2$
	(98, 2080)	$3\cot^2(\omega)-9$	$-\cot^2(\omega)+7$	$-4S_A^2$
	(98, 5984)	$4\cot^2(\omega)-7$	$-5\cot^2(\omega)+5$	$-5S_A^2$
	(98, 6321)	$3\cot^2(\omega)-5$	$-\cot^2(\omega)-5$	$-4S_A^2$
	(98, 7813)	$\cot^2(\omega)-2$	$-2\cot^2(\omega)$	$3S_A^2$
	(98, 7779)	1	$-\cot^2(\omega)-3$	$3S_A^2$
	(98, 7840)	$2\cot^2(\omega)-3$	$-3\cot^2(\omega)-3$	$3S_A^2$

(98, 7845)	$\cot^2(\omega)$	$-2\cot^2(\omega)-6$	$3S_A^2$
(98, 12188), (5984, 6033), (6321, 9862)	$5\cot^2(\omega)-9$	$-5\cot^2(\omega)+3$	$-6S_A^2$
(98, 13172)	$\cot^2(\omega)-4$	$-2\cot^2(\omega)+8$	S_A^2
(98, 13188), (115, 10992), (6321, 13172), (8591, 11632)	$\cot^2(\omega)-5$	$-\cot^2(\omega)+7$	$2S_A^2$
(98, 13449)	$2\cot^2(\omega)-3$	$-\cot^2(\omega)+5$	$-S_A^2$
(99, 114)	$-3\cot^2(\omega)$	$\cot^2(\omega)+3$	$3S_A^2$
(99, 147), (6033, 13188), (10722, 13172)	$-\cot^2(\omega)$	$2\cot^2(\omega)$	$3S_A^2$
(99, 187), (325, 6781)	$\cot^2(\omega)-6$	8	S_A^2
(99, 230), (187, 6390)	$\cot^2(\omega)-5$	5	S_A^2
(99, 625), (620, 6390)	$\cot^2(\omega)-6$	4	$5S_A^2$
(99, 6033), (6054, 8724), (7779, 9301)	$-\cot^2(\omega)-1$	$3\cot^2(\omega)-1$	$4S_A^2$
(99, 6036)	$2\cot^2(\omega)-9$	$-\cot^2(\omega)+9$	$3S_A^2$
(99, 6390)	-3	5	$4S_A^2$
(99, 7799)	-2	3	$3S_A^2$
(99, 7809)	-1	0	$3S_A^2$
(99, 7813)	$-\cot^2(\omega)$	2	$7S_A^2$
(99, 7840)	$-\cot^2(\omega)$	0	$9S_A^2$
(99, 7845), (187, 7779), (325, 7813)	$-\cot^2(\omega)+2$	-4	$7S_A^2$
(99, 7925)	$\cot^2(\omega)-8$	8	$7S_A^2$
(99, 9166)	$2\cot^2(\omega)-9$	6	$3S_A^2$
(99, 9862)	$2\cot^2(\omega)-5$	$-3\cot^2(\omega)+7$	$-S_A^2$
(99, 9880), (115, 8724)	$2\cot^2(\omega)-9$	$3\cot^2(\omega)-3$	$3S_A^2$
(99, 11054)	$2\cot^2(\omega)-6$	3	$-3S_A^2$
(99, 12243)	$4\cot^2(\omega)-9$	$-3\cot^2(\omega)+3$	$6S_A^2$
(99, 13188), (6033, 13172), (8591, 8724)	$-\cot^2(\omega)-3$	$\cot^2(\omega)+9$	$6S_A^2$
(99, 13449), (114, 325), (2080, 7845)	-1	$\cot^2(\omega)-3$	$3S_A^2$
(114, 147), (10722, 10992)	$-2\cot^2(\omega)+1$	$5\cot^2(\omega)-5$	$5S_A^2$
(114, 148)	$2\cot^2(\omega)-3$	$\cot^2(\omega)-9$	$3S_A^2$

(114, 316)	1	$\cot^2(\omega)-9$	$-3S_A^2$
(114, 385), (115, 2080), (6321, 6781)	$2\cot^2(\omega)-7$	$\cot^2(\omega)+3$	$-3S_A^2$
(114, 620)	$\cot^2(\omega)-6$	$2\cot^2(\omega)$	$3S_A^2$
(114, 625)	$\cot^2(\omega)-4$	$2\cot^2(\omega)-6$	$3S_A^2$
(114, 2080)	$\cot^2(\omega)-6$	$2\cot^2(\omega)+4$	$-S_A^2$
(114, 2482), (671, 13188), (2080, 7840), (6321, 8591)	$\cot^2(\omega)-9$	$3\cot^2(\omega)+3$	$6S_A^2$
(114, 6033), (115, 147)	$-\cot^2(\omega)$	$4\cot^2(\omega)-6$	$3S_A^2$
(114, 6054), (147, 6055), (2482, 6033)	$-2\cot^2(\omega)-3$	$9\cot^2(\omega)-9$	$9S_A^2$
(114, 6321), (10722, 10991)	$\cot^2(\omega)-2$	$2\cot^2(\omega)-8$	$-S_A^2$
(114, 6390)	-2	$\cot^2(\omega)$	$3S_A^2$
(114, 7779)	$-2\cot^2(\omega)+5$	$\cot^2(\omega)-9$	$9S_A^2$
(114, 7799)	-5	$3\cot^2(\omega)-3$	$9S_A^2$
(114, 7813), (316, 13188), (2080, 7779), (7840, 8724)	$-\cot^2(\omega)+1$	$\cot^2(\omega)-3$	$6S_A^2$
(114, 8724), (2482, 6054)	$-\cot^2(\omega)-6$	$6\cot^2(\omega)$	$9S_A^2$
(114, 9301)	$\cot^2(\omega)-8$	$4\cot^2(\omega)+6$	$-3S_A^2$
(114, 9862)	$4\cot^2(\omega)-9$	$-5\cot^2(\omega)+9$	$-3S_A^2$
(114, 13188), (6033, 10992)	$-\cot^2(\omega)-2$	$2\cot^2(\omega)+4$	$5S_A^2$
(114, 13449)	0	$\cot^2(\omega)-4$	S_A^2
(115, 187), (325, 385)	$\cot^2(\omega)-3$	1	$-S_A^2$
(115, 230)	$2\cot^2(\omega)-5$	-1	$-2S_A^2$
(115, 385)	$3\cot^2(\omega)-8$	2	$-5S_A^2$
(115, 625)	$3\cot^2(\omega)-6$	-8	$-S_A^2$
(115, 6033), (6054, 9880)	-1	$3\cot^2(\omega)-7$	S_A^2
(115, 6036)	$4\cot^2(\omega)-9$	$-\cot^2(\omega)-3$	$-3S_A^2$
(115, 6321), (671, 9880)	$2\cot^2(\omega)-3$	$\cot^2(\omega)-9$	$-3S_A^2$
(115, 6390)	$2\cot^2(\omega)-6$	-2	$2S_A^2$
(115, 7799)	$3\cot^2(\omega)-8$	-6	$3S_A^2$
(115, 7845), (316, 325)	1	-5	$2S_A^2$
(115, 9301)	$2\cot^2(\omega)-9$	$3\cot^2(\omega)+5$	$-5S_A^2$
(115, 12188), (6321, 10991)	$4\cot^2(\omega)-7$	$-3\cot^2(\omega)-1$	$-5S_A^2$
(115, 13188), (2080, 7813),	-3	$\cot^2(\omega)+3$	$3S_A^2$

	(2482, 8724), (8591, 9880)			
	(147, 187)	$-\cot^2(\omega)-2$	$4\cot^2(\omega)$	$3S_A^2$
	(147, 230)	$-\cot^2(\omega)-1$	$4\cot^2(\omega)-3$	$3S_A^2$
	(147, 316)	$-\cot^2(\omega)+2$	$2\cot^2(\omega)-6$	$3S_A^2$
	(147, 325)	$-\cot^2(\omega)+1$	$2\cot^2(\omega)-3$	$3S_A^2$
	(147, 620)	$-3\cot^2(\omega)$	$8\cot^2(\omega)-6$	$9S_A^2$
	(147, 2080)	$-\cot^2(\omega)-3$	$5\cot^2(\omega)+1$	$2S_A^2$
	(147, 6033)	$-3\cot^2(\omega)+3$	$7\cot^2(\omega)-9$	$9S_A^2$
	(147, 6036)	$-2\cot^2(\omega)-1$	$7\cot^2(\omega)-7$	$7S_A^2$
	(147, 6054)	$-4\cot^2(\omega)+3$	$9\cot^2(\omega)-9$	$9S_A^2$
	(147, 6390)	$-2\cot^2(\omega)+1$	$4\cot^2(\omega)-3$	$6S_A^2$
	(147, 6781)	$-\cot^2(\omega)-4$	$4\cot^2(\omega)+6$	$3S_A^2$
	(147, 7779)	$-\cot^2(\omega)+2$	$\cot^2(\omega)-3$	$3S_A^2$
	(147, 7799)	$-3\cot^2(\omega)+2$	$6\cot^2(\omega)-6$	$9S_A^2$
	(147, 7813)	$-3\cot^2(\omega)+4$	$4\cot^2(\omega)-6$	$9S_A^2$
	(147, 7840)	$-2\cot^2(\omega)+3$	$3\cot^2(\omega)-6$	$6S_A^2$
	(147, 8591)	$-2\cot^2(\omega)$	$3\cot^2(\omega)+3$	$6S_A^2$
	(147, 8859)	$-2\cot^2(\omega)-3$	$9\cot^2(\omega)-6$	$6S_A^2$
	(147, 10722)	$-2\cot^2(\omega)+3$	$5\cot^2(\omega)-9$	$3S_A^2$
	(147, 10992)	$-2\cot^2(\omega)-1$	$3\cot^2(\omega)+5$	$7S_A^2$
	(147, 11054)	$\cot^2(\omega)-6$	$6\cot^2(\omega)-6$	$-3S_A^2$
	(147, 11623)	$-\cot^2(\omega)-2$	$6\cot^2(\omega)-8$	$5S_A^2$
	(147, 12043)	$-\cot^2(\omega)-3$	$5\cot^2(\omega)-3$	$6S_A^2$
	(147, 12117), (6054, 8591), (8724, 13188)	$-2\cot^2(\omega)-3$	$3\cot^2(\omega)+9$	$9S_A^2$
	(147, 12243)	$\cot^2(\omega)-3$	$3\cot^2(\omega)-9$	$9S_A^2$
	(147, 13172)	$-\cot^2(\omega)-1$	$\cot^2(\omega)+5$	$4S_A^2$
	(147, 13188)	$-3\cot^2(\omega)+1$	$5\cot^2(\omega)+1$	$8S_A^2$
	(148, 187)	$3\cot^2(\omega)-6$	-4	$-5S_A^2$
	(148, 230)	$3\cot^2(\omega)-5$	-7	$-5S_A^2$
	(148, 316)	$\cot^2(\omega)$	-8	$-S_A^2$
	(148, 325)	$\cot^2(\omega)-1$	-5	$-S_A^2$
	(148, 385), (671, 11054)	$\cot^2(\omega)-2$	-1	$-2S_A^2$
	(148, 2080)	$3\cot^2(\omega)-7$	$\cot^2(\omega)-3$	$-6S_A^2$
	(148, 5984)	$2\cot^2(\omega)-3$	$-2\cot^2(\omega)$	$-3S_A^2$

(148, 6781)	$3\cot^2(\omega)-8$	2	$-5S_A^2$
(148, 9301)	$3\cot^2(\omega)-9$	$3\cot^2(\omega)-1$	$-8S_A^2$
(148, 9862)	$3\cot^2(\omega)-5$	$-3\cot^2(\omega)+1$	$-4S_A^2$
(148, 10991)	$5\cot^2(\omega)-8$	$-4\cot^2(\omega)-2$	$-7S_A^2$
(148, 11177)	$4\cot^2(\omega)-6$	$-3\cot^2(\omega)-3$	$-6S_A^2$
(148, 12188)	$5\cot^2(\omega)-7$	$-3\cot^2(\omega)-7$	$-8S_A^2$
(187, 2080)	$2\cot^2(\omega)-9$	$\cot^2(\omega)+9$	$-3S_A^2$
(187, 6033), (7845, 9301)	-3	$3\cot^2(\omega)-1$	S_A^2
(187, 6321)	$2\cot^2(\omega)-5$	$\cot^2(\omega)-3$	$-3S_A^2$
(187, 7840), (325, 2482)	$\cot^2(\omega)-6$	0	$9S_A^2$
(187, 10991)	$2\cot^2(\omega)-5$	$-2\cot^2(\omega)+5$	$-2S_A^2$
(187, 12188)	$4\cot^2(\omega)-9$	$-3\cot^2(\omega)+5$	$-5S_A^2$
(187, 13188)	-5	$\cot^2(\omega)+9$	$3S_A^2$
(230, 316)	$\cot^2(\omega)-1$	-7	S_A^2
(230, 325)	$\cot^2(\omega)-3$	-1	S_A^2
(230, 385)	$3\cot^2(\omega)-9$	5	$-5S_A^2$
(230, 2080)	$2\cot^2(\omega)-8$	$\cot^2(\omega)+6$	$-3S_A^2$
(230, 6033)	-2	$3\cot^2(\omega)-4$	S_A^2
(230, 6054)	$\cot^2(\omega)-9$	$6\cot^2(\omega)-3$	$3S_A^2$
(230, 6321)	$2\cot^2(\omega)-4$	$\cot^2(\omega)-6$	$-3S_A^2$
(230, 7779), (6390, 7845)	$-\cot^2(\omega)+3$	-7	$7S_A^2$
(230, 7809)	$3\cot^2(\omega)-7$	-9	$3S_A^2$
(230, 7813), (325, 6390)	-1	-1	$4S_A^2$
(230, 7840)	$\cot^2(\omega)-3$	-9	$9S_A^2$
(230, 7845), (316, 6390)	1	-7	$4S_A^2$
(230, 10991)	$4\cot^2(\omega)-9$	$-4\cot^2(\omega)+7$	$-4S_A^2$
(230, 13188)	-4	$\cot^2(\omega)+6$	$3S_A^2$
(316, 5984)	$3\cot^2(\omega)-4$	$-4\cot^2(\omega)$	$-3S_A^2$
(316, 7809)	2	-9	$3S_A^2$
(316, 8591), (2482, 7813)	$-\cot^2(\omega)$	0	$9S_A^2$
(316, 9301), (385, 6033)	$\cot^2(\omega)-5$	$3\cot^2(\omega)-1$	$-2S_A^2$
(316, 9862)	$2\cot^2(\omega)-3$	$-3\cot^2(\omega)+1$	$-S_A^2$
(316, 10991)	$3\cot^2(\omega)-4$	$-4\cot^2(\omega)-2$	$-S_A^2$
(316, 10992)	-1	$-\cot^2(\omega)+1$	$5S_A^2$
(316, 11177)	$5\cot^2(\omega)-6$	$-6\cot^2(\omega)-6$	$-3S_A^2$

(316, 12117)	$\cot^2(\omega)-3$	$-3\cot^2(\omega)+3$	$6S_A^2$
(316, 12188)	$3\cot^2(\omega)-3$	$-3\cot^2(\omega)-7$	$-2S_A^2$
(316, 13172)	-1	$-\cot^2(\omega)+3$	$3S_A^2$
(325, 620), (625, 6390)	$\cot^2(\omega)-4$	-2	$5S_A^2$
(325, 625)	$\cot^2(\omega)-2$	-8	$5S_A^2$
(325, 5984)	$3\cot^2(\omega)-5$	$-4\cot^2(\omega)+3$	$-3S_A^2$
(325, 6033)	$-\cot^2(\omega)+1$	$3\cot^2(\omega)-7$	$4S_A^2$
(325, 6036)	$2\cot^2(\omega)-5$	$-\cot^2(\omega)-3$	$3S_A^2$
(325, 6054)	$-\cot^2(\omega)$	$3\cot^2(\omega)-6$	$6S_A^2$
(325, 6055)	$4\cot^2(\omega)-9$	$-3\cot^2(\omega)-3$	$3S_A^2$
(325, 6721)	$2\cot^2(\omega)-7$	$\cot^2(\omega)-9$	$9S_A^2$
(325, 7779), (7813, 7845)	$-\cot^2(\omega)+3$	-5	$5S_A^2$
(325, 7799)	-1	-3	$6S_A^2$
(325, 7809)	1	-9	$6S_A^2$
(325, 7840), (2482, 7845)	$-\cot^2(\omega)+3$	-9	$9S_A^2$
(325, 7925)	$\cot^2(\omega)-3$	-7	$7S_A^2$
(325, 8591)	$-\cot^2(\omega)-3$	9	$9S_A^2$
(325, 9301)	$\cot^2(\omega)-7$	$3\cot^2(\omega)+5$	$-2S_A^2$
(325, 9862)	$2\cot^2(\omega)-4$	$-3\cot^2(\omega)+4$	$-S_A^2$
(325, 10722)	$-\cot^2(\omega)+2$	$3\cot^2(\omega)-8$	$2S_A^2$
(325, 10991)	$3\cot^2(\omega)-6$	$-4\cot^2(\omega)+4$	$-S_A^2$
(325, 10992), (13172, 13449)	-3	$-\cot^2(\omega)+7$	$5S_A^2$
(325, 11054)	$4\cot^2(\omega)-9$	-3	$-6S_A^2$
(325, 11177)	$5\cot^2(\omega)-9$	$-6\cot^2(\omega)+3$	$-3S_A^2$
(325, 11623)	$3\cot^2(\omega)-6$	$-2\cot^2(\omega)-4$	S_A^2
(325, 12042)	$3\cot^2(\omega)-7$	$-3\cot^2(\omega)+1$	$2S_A^2$
(325, 12188), (10991, 13449)	$3\cot^2(\omega)-5$	$-3\cot^2(\omega)-1$	$-2S_A^2$
(325, 12243)	$4\cot^2(\omega)-6$	$-3\cot^2(\omega)-6$	$6S_A^2$
(325, 13172)	-2	$-\cot^2(\omega)+6$	$3S_A^2$
(325, 13188)	$-\cot^2(\omega)-1$	$\cot^2(\omega)+3$	$6S_A^2$
(325, 13449)	1	$\cot^2(\omega)-9$	$3S_A^2$
(385, 5984)	$2\cot^2(\omega)-4$	$-2\cot^2(\omega)+3$	$-3S_A^2$
(385, 6054)	$2\cot^2(\omega)-9$	$3\cot^2(\omega)+3$	$-3S_A^2$
(385, 6321)	$3\cot^2(\omega)-7$	$\cot^2(\omega)-3$	$-6S_A^2$
(385, 6390)	$2\cot^2(\omega)-7$	5	$-2S_A^2$

(385, 7809)	$3\cot^2(\omega)-8$	0	$-3S_A^2$
(385, 7925)	$3\cot^2(\omega)-9$	4	$-4S_A^2$
(385, 8596)	$4\cot^2(\omega)-6$	-9	$-9S_A^2$
(385, 9862)	$3\cot^2(\omega)-7$	$-3\cot^2(\omega)+7$	$-4S_A^2$
(385, 10722)	-1	$3\cot^2(\omega)-5$	$-S_A^2$
(385, 10723)	$\cot^2(\omega)-2$	$2\cot^2(\omega)-6$	$-3S_A^2$
(385, 11177)	$4\cot^2(\omega)-9$	$-3\cot^2(\omega)+6$	$-6S_A^2$
(385, 13449)	$2\cot^2(\omega)-5$	$\cot^2(\omega)-3$	$-3S_A^2$
(620, 625)	$\cot^2(\omega)-3$	-1	S_A^2
(620, 6033)	$-\cot^2(\omega)-2$	$6\cot^2(\omega)-8$	$5S_A^2$
(625, 11623)	$2\cot^2(\omega)-4$	$-\cot^2(\omega)-2$	$-S_A^2$
(625, 12042)	$4\cot^2(\omega)-9$	$-3\cot^2(\omega)+1$	$-S_A^2$
(625, 13188)	$-\cot^2(\omega)-4$	$2\cot^2(\omega)+6$	$9S_A^2$
(2080, 6321), (6054, 11054)	$\cot^2(\omega)-3$	$\cot^2(\omega)-1$	$-2S_A^2$
(2080, 9301)	$\cot^2(\omega)-6$	$2\cot^2(\omega)+6$	$-3S_A^2$
(2080, 10242)	$\cot^2(\omega)-3$	$\cot^2(\omega)-2$	$-S_A^2$
(2080, 12355)	$4\cot^2(\omega)-9$	$3\cot^2(\omega)-9$	$-9S_A^2$
(2080, 13118)	-3	$\cot^2(\omega)+5$	S_A^2
(2080, 13449)	$\cot^2(\omega)-4$	$2\cot^2(\omega)-2$	$-S_A^2$
(2482, 6390)	$\cot^2(\omega)-9$	9	$9S_A^2$
(2482, 7799)	$\cot^2(\omega)-8$	6	$9S_A^2$
(2482, 7809)	$\cot^2(\omega)-4$	-6	$9S_A^2$
(2482, 12243)	$3\cot^2(\omega)-6$	$-2\cot^2(\omega)$	$3S_A^2$
(5984, 7813)	$5\cot^2(\omega)-8$	$-8\cot^2(\omega)+6$	$-3S_A^2$
(5984, 7840)	$4\cot^2(\omega)-6$	$-6\cot^2(\omega)+3$	$-3S_A^2$
(5984, 7845)	$5\cot^2(\omega)-6$	$-8\cot^2(\omega)$	$-3S_A^2$
(5984, 9862)	$5\cot^2(\omega)-9$	$-7\cot^2(\omega)+9$	$-6S_A^2$
(5984, 10722)	$2\cot^2(\omega)-3$	$-\cot^2(\omega)-3$	$-3S_A^2$
(5984, 10723)	$3\cot^2(\omega)-4$	$-2\cot^2(\omega)-4$	$-5S_A^2$
(5984, 13449)	$6\cot^2(\omega)-9$	$-7\cot^2(\omega)+1$	$-7S_A^2$
(6033, 6036)	-3	$5\cot^2(\omega)-9$	$3S_A^2$
(6033, 6390)	$-\cot^2(\omega)$	$3\cot^2(\omega)-4$	$4S_A^2$
(6033, 6781), (7813, 9301)	-5	$3\cot^2(\omega)+5$	S_A^2
(6033, 7813)	$-2\cot^2(\omega)+3$	$3\cot^2(\omega)-7$	$7S_A^2$
(6033, 9301)	-3	$3\cot^2(\omega)+1$	$-S_A^2$

(6033, 12042)	$\cot^2(\omega)-5$	$3\cot^2(\omega)-5$	$2S_A^2$
(6036, 6390)	$2\cot^2(\omega)-7$	$-\cot^2(\omega)+3$	$3S_A^2$
(6036, 7813)	-1	$-\cot^2(\omega)-3$	$9S_A^2$
(6054, 7799)	$-\cot^2(\omega)-1$	$3\cot^2(\omega)-3$	$6S_A^2$
(6054, 7809)	$-\cot^2(\omega)-1$	$3\cot^2(\omega)-9$	$6S_A^2$
(6054, 7840)	$-2\cot^2(\omega)+3$	$3\cot^2(\omega)-9$	$9S_A^2$
(6054, 12243)	$\cot^2(\omega)-2$	-2	$2S_A^2$
(6055, 7809)	$4\cot^2(\omega)-7$	$-3\cot^2(\omega)-9$	$3S_A^2$
(6055, 7840)	$2\cot^2(\omega)-3$	$-3\cot^2(\omega)-9$	$9S_A^2$
(6055, 12243)	$4\cot^2(\omega)-7$	$-3\cot^2(\omega)-1$	S_A^2
(6321, 7813), (7840, 9880)	1	$\cot^2(\omega)-9$	$3S_A^2$
(6321, 9301)	$\cot^2(\omega)-4$	$2\cot^2(\omega)$	$-3S_A^2$
(6321, 12042)	$5\cot^2(\omega)-9$	$-\cot^2(\omega)-9$	$-6S_A^2$
(6321, 13188)	-1	$\cot^2(\omega)-1$	S_A^2
(6390, 7813)	$-\cot^2(\omega)+1$	-1	$7S_A^2$
(6390, 9301)	$\cot^2(\omega)-8$	$3\cot^2(\omega)+8$	$-S_A^2$
(6390, 11623)	$3\cot^2(\omega)-8$	$-2\cot^2(\omega)+2$	S_A^2
(6390, 12042)	$3\cot^2(\omega)-9$	$-3\cot^2(\omega)+7$	$2S_A^2$
(6390, 12188)	$3\cot^2(\omega)-6$	$-3\cot^2(\omega)+2$	$-2S_A^2$
(6390, 13188)	$-\cot^2(\omega)-2$	$\cot^2(\omega)+6$	$6S_A^2$
(6390, 13449)	0	$\cot^2(\omega)-6$	$3S_A^2$
(6781, 7779)	$-\cot^2(\omega)$	2	$7S_A^2$
(6781, 10722)	$-\cot^2(\omega)-2$	$6\cot^2(\omega)-4$	S_A^2
(6781, 10723)	$\cot^2(\omega)-4$	$4\cot^2(\omega)-6$	$-3S_A^2$
(6781, 10991)	$\cot^2(\omega)-3$	$-\cot^2(\omega)+4$	$-S_A^2$
(7779, 7840)	$-2\cot^2(\omega)+6$	-9	$9S_A^2$
(7779, 8591)	$-2\cot^2(\omega)+3$	0	$9S_A^2$
(7779, 9862)	$\cot^2(\omega)-1$	$-3\cot^2(\omega)+1$	$2S_A^2$
(7779, 10991)	$\cot^2(\omega)$	$-4\cot^2(\omega)-2$	$5S_A^2$
(7779, 11177)	$\cot^2(\omega)$	$-3\cot^2(\omega)-3$	$3S_A^2$
(7779, 12188)	$\cot^2(\omega)+1$	$-3\cot^2(\omega)-7$	$4S_A^2$
(7779, 13172)	$-\cot^2(\omega)+1$	$-\cot^2(\omega)+3$	$6S_A^2$
(7799, 7840)	$-\cot^2(\omega)+2$	-6	$9S_A^2$
(7799, 9166)	$2\cot^2(\omega)-6$	-3	$3S_A^2$
(7799, 11054)	$2\cot^2(\omega)-5$	0	$-3S_A^2$

(7809, 8591)	$-\cot^2(\omega)-2$	6	$9S_A^2$
(7809, 11054)	$2\cot^2(\omega)-4$	-3	$-3S_A^2$
(7809, 12117)	$\cot^2(\omega)-5$	$-3\cot^2(\omega)+9$	$6S_A^2$
(7813, 9862)	$3\cot^2(\omega)-6$	$-6\cot^2(\omega)+8$	S_A^2
(7813, 10991)	$\cot^2(\omega)-2$	$-2\cot^2(\omega)+2$	S_A^2
(7813, 10992)	$-\cot^2(\omega)-1$	$-\cot^2(\omega)+7$	$8S_A^2$
(7813, 11623)	$\cot^2(\omega)-2$	$-2\cot^2(\omega)-4$	$7S_A^2$
(7813, 11632)	$2\cot^2(\omega)-3$	$-3\cot^2(\omega)-9$	$9S_A^2$
(7813, 12042)	$\cot^2(\omega)-3$	$-3\cot^2(\omega)+1$	$8S_A^2$
(7813, 12188)	$2\cot^2(\omega)-3$	$-3\cot^2(\omega)-1$	S_A^2
(7813, 13188)	$-2\cot^2(\omega)+1$	$\cot^2(\omega)+3$	$9S_A^2$
(7813, 13449)	$-\cot^2(\omega)+3$	$\cot^2(\omega)-9$	$6S_A^2$
(7840, 8591)	$-\cot^2(\omega)$	3	$6S_A^2$
(7840, 11632)	$\cot^2(\omega)-1$	$-\cot^2(\omega)-5$	$2S_A^2$
(7840, 12117)	$-\cot^2(\omega)$	$-\cot^2(\omega)+3$	$3S_A^2$
(7840, 12243)	$\cot^2(\omega)-1$	$-\cot^2(\omega)-3$	$3S_A^2$
(7845, 9862)	$3\cot^2(\omega)-4$	$-6\cot^2(\omega)+2$	S_A^2
(7845, 10991)	$\cot^2(\omega)-1$	$-2\cot^2(\omega)-1$	S_A^2
(7845, 10992)	$-\cot^2(\omega)+1$	$-\cot^2(\omega)+1$	$8S_A^2$
(7845, 13172)	$-\cot^2(\omega)$	$-2\cot^2(\omega)+6$	$9S_A^2$
(7845, 13188)	$-2\cot^2(\omega)+3$	$\cot^2(\omega)-3$	$9S_A^2$
(8591, 10722)	$-4\cot^2(\omega)+3$	$9\cot^2(\omega)-9$	$9S_A^2$
(8591, 12117)	-3	$-\cot^2(\omega)+9$	$3S_A^2$
(8591, 12243)	$\cot^2(\omega)-3$	$-\cot^2(\omega)+3$	$3S_A^2$
(8596, 12243)	$3\cot^2(\omega)-3$	$-\cot^2(\omega)-9$	$-3S_A^2$
(9301, 10242)	$2\cot^2(\omega)-9$	$5\cot^2(\omega)-1$	$-5S_A^2$
(9301, 10722)	$-\cot^2(\omega)-3$	$9\cot^2(\omega)-7$	$-2S_A^2$
(9301, 10723)	$\cot^2(\omega)-5$	$7\cot^2(\omega)-9$	$-6S_A^2$
(9301, 13349)	$\cot^2(\omega)-6$	$4\cot^2(\omega)$	$-3S_A^2$
(9862, 12243)	$5\cot^2(\omega)-9$	$-6\cot^2(\omega)+6$	$-S_A^2$
(9862, 13449)	$4\cot^2(\omega)-7$	$-5\cot^2(\omega)+3$	$-3S_A^2$
(9880, 13188)	$-\cot^2(\omega)-6$	$6\cot^2(\omega)$	$9S_A^2$
(10242, 12117)	$3\cot^2(\omega)-9$	$-5\cot^2(\omega)+7$	$8S_A^2$
(10242, 13188)	$-\cot^2(\omega)$	$2\cot^2(\omega)-4$	$7S_A^2$
(10722, 13188)	$-3\cot^2(\omega)+3$	$7\cot^2(\omega)-9$	$6S_A^2$

	(10723, 10992)	-1	$3\cot^2(\omega)-7$	S_A^2
	(12117, 13449)	$2\cot^2(\omega)-9$	$-3\cot^2(\omega)+9$	$9S_A^2$
	(12188, 13449)	$3\cot^2(\omega)-4$	$-2\cot^2(\omega)-6$	$-3S_A^2$
	(12243, 13172)	$2\cot^2(\omega)-6$	$-3\cot^2(\omega)+9$	$3S_A^2$
	(13118, 13449)	$-\cot^2(\omega)$	$2\cot^2(\omega)-2$	$5S_A^2$