

Table B.5: Formulas for $(SL(4, \mathbb{C}), SO(4, \mathbb{C}))$

Parameter for Q	Representative for Q	Formula for $[Y]$
$+(1, 4)(2, 3)$	$\langle e_1, e_2, e_3, e_4 \rangle$	$2(x_1x_2 + y_1y_2)(y_1 + y_2)(y_1 + y_3)$
$-(1, 4)(2, 3)$	$\langle e_1, e_3, e_2, e_4 \rangle$	$-2(x_1x_2 - y_1y_2)(y_1 + y_2)(y_1 + y_3)$
$+(1, 3)(2, 4)$	$\langle e_1, e_2, e_4, e_3 \rangle$	$2(x_1x_2 + y_1y_2)(y_1 + y_2)$
$-(1, 3)(2, 4)$	$\langle e_1, e_3, e_4, e_2 \rangle$	$-2(x_1x_2 - y_1y_2)(y_1 + y_2)$
$(1, 4)$	$\langle e_1, e_2 + e_3, e_2 - e_3, e_4 \rangle$	$2y_1(y_1 + y_2)(y_1 + y_3)$
$+(1, 2)(3, 4)$	$\langle e_1, e_4, e_2, e_3 \rangle$	$2(x_1x_2 + y_1^2 + y_1y_2 + y_1y_3)$
$-(1, 2)(3, 4)$	$\langle e_1, e_4, e_3, e_2 \rangle$	$-2(x_1x_2 - y_1^2 - y_1y_2 - y_1y_3)$
$(1, 3)$	$\langle e_1, e_2 + e_3, e_4, e_2 - e_3 \rangle$	$2y_1(y_1 + y_2)$
$(2, 4)$	$\langle e_2 + e_3, e_1, e_2 - e_3, e_4 \rangle$	$2(y_1 + y_2)(y_1 + y_2 + y_3)$
$(1, 2)$	$\langle e_1, e_4, e_2 + e_3, e_2 - e_3 \rangle$	$2y_1$
$(3, 4)$	$\langle e_2 + e_3, e_2 - e_3, e_1, e_4 \rangle$	$2(y_1 + y_2 + y_3)$
$(2, 3)$	$\langle e_2 + e_3, e_1, e_4, e_2 - e_3 \rangle$	$2(y_1 + y_2)$
id	$\langle e_1 + e_4, e_1 - e_4, e_2 + e_3, e_2 - e_3 \rangle$	1

Table B.6: Formulas for $(SL(4, \mathbb{C}), Sp(4, \mathbb{C}))$

Involution π	Formula for $[Y_\pi]$
$(1, 4)(2, 3)$	$(y_1 + y_2)(y_1 + y_3)$
$(1, 3)(2, 4)$	$y_1 + y_2$
$(1, 2)(3, 4)$	1

Table B.7: Formulas for $(SL(6, \mathbb{C}), Sp(6, \mathbb{C}))$

Involution π	Formula for $[Y_\pi]$
$(1, 6)(2, 4)(3, 5)$	$(y_1 + y_2)(y_1 + y_5)(y_1 + y_3)(y_1 + y_4)(y_2 + y_3)(y_2 + y_4)$
$(1, 5)(2, 6)(3, 4)$	$(y_1 + y_2)(y_1 + y_3)(y_1 + y_4)(y_2 + y_3)(y_2 + y_4)$
$(1, 6)(2, 4)(3, 5)$	$(y_1 + y_2)(y_1 + y_5)(y_1 + y_3)(y_1 + y_4)(y_2 + y_3)$
$(1, 4)(2, 6)(3, 5)$	$(y_1 + y_2)(y_1 + y_3)(y_2 + y_3)(y_1 + y_2 + y_4 + y_5)$
$(1, 5)(2, 4)(3, 6)$	$(y_1 + y_2)(y_1 + y_3)(y_1 + y_4)(y_2 + y_3)$
$(1, 6)(2, 3)(4, 5)$	$(y_1 + y_2)(y_1 + y_5)(y_1 + y_3)(y_1 + y_4)$
$(1, 4)(2, 5)(3, 6)$	$(y_1 + y_2)(y_1 + y_3)(y_2 + y_3)$
$(1, 3)(2, 6)(4, 5)$	$(y_1 + y_2)(y_1^2 + y_2^2 + \sum_{1 \leq i < j \leq 5} y_i y_j)$
$(1, 5)(2, 3)(4, 6)$	$(y_1 + y_2)(y_1 + y_3)(y_1 + y_4)$
$(1, 2)(3, 6)(4, 5)$	$(y_1 + y_2 + y_3 + y_4)(y_1 + y_2 + y_3 + y_5)$
$(1, 3)(2, 5)(4, 6)$	$(y_1 + y_2)(y_1 + y_2 + y_3 + y_4)$
$(1, 4)(2, 3)(5, 6)$	$(y_1 + y_2)(y_1 + y_3)$
$(1, 2)(3, 5)(4, 6)$	$y_1 + y_2 + y_3 + y_4$
$(1, 3)(2, 4)(5, 6)$	$y_1 + y_2$
$(1, 2)(3, 4)(5, 6)$	1