Table 1: Ferminonic case $\wedge^4\mathbb{C}^9$

dominant 1-PS	Inequality	w
$(2,1,0,0,-1,-1,-2,-2,-3)$	$2\lambda_1+\lambda_2-2\lambda_3-\lambda_4-3\lambda_6-2\lambda_7-\lambda_8\leq 0$	$(0,1,4,8,3,7,2,6$
	$2\lambda_1+\lambda_2-2\lambda_3-\lambda_4-2\lambda_5-\lambda_6-3\lambda_8\leq 0$	$(0,1,6,8,3,5,2,4$
	$\lambda_1+2\lambda_2-2\lambda_3-\lambda_4-3\lambda_6-\lambda_7-2\lambda_8\leq 0$	$(1,0,4,8,3,6,2,7$
	$\lambda_1+2\lambda_2-3\lambda_4-\lambda_5-2\lambda_6-2\lambda_7-\lambda_8\leq 0$	$(1,0,2,8,4,7,5,6$
	$\lambda_1+2\lambda_2-2\lambda_3-\lambda_4-\lambda_5-2\lambda_6-3\lambda_8\leq 0$	$(1,0,6,8,3,4,2,5$
	$2\lambda_1+\lambda_2-3\lambda_4-2\lambda_5-\lambda_6-2\lambda_7-\lambda_8\leq 0$	$(0,1,2,8,5,7,4,6$
	$2\lambda_1-\lambda_2-\lambda_3+\lambda_5-3\lambda_6-2\lambda_7-2\lambda_8\leq 0$	$(0,4,3,8,1,2,6,7$
	$\lambda_1+2\lambda_2-3\lambda_4-2\lambda_5-\lambda_6-\lambda_7-2\lambda_8\leq 0$	$(1,0,2,8,5,6,4,7$
	$\lambda_1+2\lambda_2-\lambda_3-2\lambda_4-2\lambda_5-\lambda_6-3\lambda_8\leq 0$	$(1,0,6,8,2,5,3,4$
	$2\lambda_1+\lambda_3-3\lambda_4-\lambda_5-2\lambda_6-2\lambda_7-\lambda_8\leq 0$	$(0,2,1,8,4,7,5,6$
	$\lambda_1+2\lambda_2-\lambda_3-2\lambda_4-3\lambda_6-2\lambda_7-\lambda_8\leq 0$	$(1,0,4,8,2,7,3,6$
$(3,1,1,-1,-1,-1,-3,-3,-3)$	$3\lambda_1+\lambda_2-\lambda_3-3\lambda_4-3\lambda_5-3\lambda_6-\lambda_7-\lambda_8+\lambda_9\leq 0$	$(0,1,8,2,6,7,3,4$
	$3\lambda_1+\lambda_2-3\lambda_3-3\lambda_4-\lambda_5-\lambda_6-\lambda_7-3\lambda_8+\lambda_9\leq 0$	$(0,1,8,4,5,6,2,3$
$(1,1,1,-1,-1,-1,-1,-1,-1)$	$\lambda_1+\lambda_2-\lambda_3-\lambda_4-\lambda_5-\lambda_6-\lambda_7-\lambda_8+\lambda_9\leq 0$	$(0,1,8,2,3,4,5,6$
$(1,1,1,-1,-1,-1,-1,-1,-3)$	$\lambda_1+\lambda_2-\lambda_3-\lambda_4+\lambda_5-3\lambda_6-\lambda_7-\lambda_8-\lambda_9\leq 0$	$(0,1,4,2,3,6,7,8$
	$\lambda_1+\lambda_2+\lambda_3-3\lambda_4-\lambda_5-\lambda_6-\lambda_7-\lambda_8-\lambda_9\leq 0$	$(0,1,2,4,5,6,7,8$
	$\lambda_1-\lambda_2+\lambda_3-\lambda_4-\lambda_5+\lambda_6-\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(0,2,5,1,3,4,6,8$
	$\lambda_1+\lambda_2-\lambda_3-\lambda_4-\lambda_5-\lambda_6+\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(0,1,6,2,3,4,5,8$
	$\lambda_1-\lambda_2+\lambda_3-\lambda_4+\lambda_5-\lambda_6-3\lambda_7-\lambda_8-\lambda_9\leq 0$	$(0,2,4,1,3,5,7,8$
	$-\lambda_1+\lambda_2+\lambda_3-\lambda_4+\lambda_5-\lambda_6-\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(1,2,4,0,3,5,6,8$
	$\lambda_1-\lambda_2-\lambda_3+\lambda_4+\lambda_5-\lambda_6-\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(0,3,4,1,2,5,6,8$
$(3,-1,-1,-1,-1,-1,-1,-1,-1)$	$3\lambda_1-\lambda_2-\lambda_3-\lambda_4-\lambda_5-\lambda_6-\lambda_7-\lambda_8-\lambda_9\leq 0$	$(0,1,2,3,4,5,6,7$
$(2,1,0,0,-1,-1,-2,-3,-3)$	$\lambda_1+2\lambda_2-3\lambda_4-3\lambda_6-2\lambda_7-\lambda_8-\lambda_9\leq 0$	$(1,0,2,4,7,8,6,3$
	$2\lambda_1+\lambda_3-3\lambda_4-3\lambda_6-2\lambda_7-\lambda_8-\lambda_9\leq 0$	$(0,2,1,4,7,8,6,3$
	$\lambda_1+2\lambda_2-3\lambda_4-2\lambda_5-\lambda_6-3\lambda_8-\lambda_9\leq 0$	$(1,0,2,6,5,8,4,3$
	$\lambda_1-\lambda_3+2\lambda_5-3\lambda_6-3\lambda_7-2\lambda_8-\lambda_9\leq 0$	$(4,0,1,3,2,8,7,5$
	$\lambda_1+2\lambda_3-3\lambda_4-\lambda_5-3\lambda_7-2\lambda_8-\lambda_9\leq 0$	$(2,0,1,5,4,8,7,3$
	$\lambda_1+2\lambda_2-2\lambda_3-\lambda_4-3\lambda_6-3\lambda_8-\lambda_9\leq 0$	$(1,0,4,6,3,8,2,5$
	$\lambda_1-\lambda_2+2\lambda_5-3\lambda_6-2\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(4,0,2,3,1,8,6,5$
	$\lambda_2+2\lambda_3-3\lambda_4-2\lambda_6-\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(2,1,0,4,6,8,5,3$
	$\lambda_3-\lambda_4+2\lambda_5-3\lambda_6-2\lambda_7-3\lambda_8-\lambda_9\leq 0$	$(4,2,0,1,3,8,6,5$
	$\lambda_2+2\lambda_3-3\lambda_4-\lambda_6-3\lambda_7-2\lambda_8-\lambda_9\leq 0$	$(2,1,0,4,5,8,7,3$

	$\lambda_2 - \lambda_4 + 2\lambda_5 - 3\lambda_6 - 3\lambda_7 - 2\lambda_8 - \lambda_9 \leq 0$	$(4,1,0,2,3,8,7,5$
$(1,0,0,0,0,-1,-1,-1,-1)$	$\lambda_2 - \lambda_4 - \lambda_6 - \lambda_8 - \lambda_9 \leq 0$	$(1,0,2,4,6,3,5,7$
	$\lambda_1 - \lambda_4 - \lambda_5 - \lambda_8 - \lambda_9 \leq 0$	$(0,1,2,5,6,3,4,7$
	$\lambda_5 - \lambda_6 - \lambda_7 - \lambda_8 - \lambda_9 \leq 0$	$(4,0,1,2,3,5,6,7$
	$\lambda_1 - \lambda_3 - \lambda_6 - \lambda_8 - \lambda_9 \leq 0$	$(0,1,3,4,6,2,5,7$
	$\lambda_1 - \lambda_4 - \lambda_6 - \lambda_7 - \lambda_9 \leq 0$	$(0,1,2,4,7,3,5,6$
	$\lambda_3 - \lambda_4 - \lambda_7 - \lambda_8 - \lambda_9 \leq 0$	$(2,0,1,4,5,3,6,7$
	$\lambda_1 - \lambda_2 - \lambda_7 - \lambda_8 - \lambda_9 \leq 0$	$(0,2,3,4,5,1,6,7$
$(3,1,1,-1,-1,-1,-3,-3,-5)$	$3\lambda_1 + \lambda_2 - 3\lambda_3 - 3\lambda_4 - \lambda_5 - \lambda_6 + \lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,1,6,4,5,8,2,3$
	$-\lambda_1 + \lambda_2 + \lambda_3 - \lambda_4 + 3\lambda_5 - 5\lambda_6 - 3\lambda_7 - 3\lambda_8 - \lambda_9 \leq 0$	$(4,1,2,0,3,8,6,7$
	$3\lambda_1 + \lambda_2 + \lambda_3 - 5\lambda_4 - 3\lambda_5 - 3\lambda_6 - \lambda_7 - \lambda_8 - \lambda_9 \leq 0$	$(0,1,2,6,7,8,4,5$
	$\lambda_1 - \lambda_2 - \lambda_3 + \lambda_4 + 3\lambda_5 - 5\lambda_6 - 3\lambda_7 - 3\lambda_8 - \lambda_9 \leq 0$	$(4,0,3,1,2,8,6,7$
$(0,0,0,0,0,0,0,0,-1)$	$-\lambda_9 \leq 0$	$(0,1,2,3,4,5,6,7$
$(7,3,-1,-1,-1,-5,-5,-9,-9)$	$3\lambda_1 + 7\lambda_2 - \lambda_3 - 9\lambda_4 - \lambda_5 - 9\lambda_6 - 5\lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(1,0,2,4,8,6,7,3$
	$7\lambda_1 - \lambda_2 + 3\lambda_3 - 9\lambda_4 - 5\lambda_5 - \lambda_6 - 9\lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,2,1,5,8,4,7,3$
	$7\lambda_1 - 5\lambda_2 - \lambda_3 - \lambda_4 + 3\lambda_5 - 9\lambda_6 - 5\lambda_7 - 9\lambda_8 - \lambda_9 \leq 0$	$(0,4,2,3,8,1,6,5$
	$3\lambda_1 + 7\lambda_2 - 5\lambda_3 - 5\lambda_4 - \lambda_5 - 9\lambda_6 - \lambda_7 - 9\lambda_8 - \lambda_9 \leq 0$	$(1,0,4,6,8,2,3,5$
	$3\lambda_1 + 7\lambda_2 - \lambda_3 - 9\lambda_4 - 5\lambda_5 - 5\lambda_6 - \lambda_7 - 9\lambda_8 - \lambda_9 \leq 0$	$(1,0,2,6,8,4,5,3$
	$7\lambda_1 - \lambda_2 - 5\lambda_3 - \lambda_4 + 3\lambda_5 - 9\lambda_6 - 9\lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,4,1,3,8,2,7,5$
	$7\lambda_1 - \lambda_2 + 3\lambda_3 - 9\lambda_4 - \lambda_5 - 9\lambda_6 - 5\lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,2,1,4,8,6,7,3$
$(3,3,-1,-1,-1,-1,-5,-5,-5)$	$3\lambda_1 - \lambda_2 - \lambda_3 - \lambda_4 + 3\lambda_5 - 5\lambda_6 - 5\lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,4,1,2,3,8,5,6$
	$3\lambda_1 - \lambda_2 + 3\lambda_3 - 5\lambda_4 - \lambda_5 - \lambda_6 - 5\lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,2,1,4,5,8,3,6$
	$3\lambda_1 + 3\lambda_2 - \lambda_3 - 5\lambda_4 - \lambda_5 - 5\lambda_6 - \lambda_7 - 5\lambda_8 - \lambda_9 \leq 0$	$(0,1,2,4,6,8,3,5$
$(1,1,0,0,0,-1,-1,-2,-2)$	$\lambda_1 - \lambda_2 + \lambda_5 - 2\lambda_6 - 2\lambda_7 - \lambda_8 \leq 0$	$(0,4,2,3,8,1,7,5$
$(3,1,0,0,-1,-2,-2,-3,-4)$	$3\lambda_1 + \lambda_2 - 4\lambda_4 - 3\lambda_5 - 2\lambda_6 - 2\lambda_7 - \lambda_8 \leq 0$	$(0,1,2,8,7,5,6,4$
	$3\lambda_1 + \lambda_2 - 3\lambda_3 - 2\lambda_4 - 2\lambda_5 - \lambda_6 - 4\lambda_8 \leq 0$	$(0,1,6,8,5,3,4,2$
	$3\lambda_1 + \lambda_3 - 4\lambda_4 - 2\lambda_5 - 3\lambda_6 - 2\lambda_7 - \lambda_8 \leq 0$	$(0,2,1,8,7,4,6,5$
	$3\lambda_1 - 2\lambda_2 - \lambda_3 + \lambda_5 - 4\lambda_6 - 3\lambda_7 - 2\lambda_8 \leq 0$	$(0,4,3,8,2,1,7,6$
$(1,1,1,1,1,-3,-3,-3,-3)$	$\lambda_1 + \lambda_2 + \lambda_3 - 3\lambda_4 + \lambda_5 - 3\lambda_6 - 3\lambda_7 - 3\lambda_8 + \lambda_9 \leq 0$	$(0,1,2,4,8,3,5,6$