Table 1: Ferminonic case $\wedge^3\mathbb{C}^8$

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