

Table 1: Kronecker case in dimension $(4, 4, 4)$

dominant 1-PS	Inequality	w
$(0, 0, 0, 0) (0, 0, 0, 0) (1, 1, 1, 0) - 1$	$(0, 0, 0, 0) (0, 0, 0, 0) (1, 1, 1, 0) - 1$	$(0, 1, 2, 3) (0, 1, 2, 3) (0, 1, 2, 3)$
$(1, 0, 0, 0) (1, 1, 0, 0) (1, 1, 0, 0) - 2$	$(1, 0, 0, 0) (1, 1, 0, 0) (0, 0, 1, 1) - 2$	$(0, 1, 2, 3) (0, 1, 2, 3) (2, 3, 0, 1)$
	$(1, 0, 0, 0) (1, 0, 1, 0) (0, 1, 0, 1) - 2$	$(0, 1, 2, 3) (0, 2, 1, 3) (1, 3, 0, 2)$
	$(1, 0, 0, 0) (0, 1, 1, 0) (1, 0, 0, 1) - 2$	$(0, 1, 2, 3) (1, 2, 0, 3) (0, 3, 1, 2)$
	$(0, 1, 0, 0) (1, 0, 1, 0) (1, 0, 0, 1) - 2$	$(1, 0, 2, 3) (0, 2, 1, 3) (0, 3, 1, 2)$
	$(0, 0, 1, 0) (1, 1, 0, 0) (1, 0, 0, 1) - 2$	$(2, 0, 1, 3) (0, 1, 2, 3) (0, 3, 1, 2)$
$(1, 0, 0, 0) (1, 0, 0, 0) (1, 1, 1, 0) - 2$	$(1, 0, 0, 0) (1, 0, 0, 0) (0, 1, 1, 1) - 2$	$(0, 1, 2, 3) (0, 1, 2, 3) (1, 2, 3, 0)$
	$(1, 0, 0, 0) (0, 1, 0, 0) (1, 0, 1, 1) - 2$	$(0, 1, 2, 3) (1, 0, 2, 3) (0, 2, 3, 1)$
	$(1, 0, 0, 0) (0, 0, 1, 0) (1, 1, 0, 1) - 2$	$(0, 1, 2, 3) (2, 0, 1, 3) (0, 1, 3, 2)$
	$(1, 0, 0, 0) (0, 0, 0, 1) (1, 1, 1, 0) - 2$	$(0, 1, 2, 3) (3, 0, 1, 2) (0, 1, 2, 3)$
$(2, 1, 1, 0) (2, 1, 1, 0) (2, 1, 1, 0) - 4$	$(2, 1, 1, 0) (2, 0, 1, 1) (0, 1, 1, 2) - 4$	$(0, 1, 2, 3) (0, 2, 3, 1) (3, 1, 2, 0)$
	$(2, 1, 1, 0) (1, 1, 2, 0) (0, 1, 1, 2) - 4$	$(0, 1, 2, 3) (2, 0, 1, 3) (3, 1, 2, 0)$
	$(2, 1, 0, 1) (2, 1, 0, 1) (0, 1, 1, 2) - 4$	$(0, 1, 3, 2) (0, 1, 3, 2) (3, 1, 2, 0)$
	$(2, 1, 0, 1) (2, 0, 1, 1) (0, 1, 2, 1) - 4$	$(0, 1, 3, 2) (0, 2, 3, 1) (2, 1, 3, 0)$
	$(2, 1, 0, 1) (1, 2, 1, 0) (0, 1, 1, 2) - 4$	$(0, 1, 3, 2) (1, 0, 2, 3) (3, 1, 2, 0)$
	$(2, 1, 0, 1) (1, 2, 0, 1) (0, 1, 2, 1) - 4$	$(0, 1, 3, 2) (1, 0, 3, 2) (2, 1, 3, 0)$
	$(2, 1, 0, 1) (1, 2, 0, 1) (1, 0, 1, 2) - 4$	$(0, 1, 3, 2) (1, 0, 3, 2) (3, 0, 2, 1)$
	$(2, 1, 0, 1) (1, 1, 2, 0) (1, 0, 1, 2) - 4$	$(0, 1, 3, 2) (2, 0, 1, 3) (3, 0, 2, 1)$
	$(2, 0, 1, 1) (2, 0, 1, 1) (0, 2, 1, 1) - 4$	$(0, 2, 3, 1) (0, 2, 3, 1) (1, 2, 3, 0)$
	$(2, 0, 1, 1) (1, 2, 1, 0) (1, 0, 1, 2) - 4$	$(0, 2, 3, 1) (1, 0, 2, 3) (3, 0, 2, 1)$
	$(2, 0, 1, 1) (1, 2, 0, 1) (1, 0, 2, 1) - 4$	$(0, 2, 3, 1) (1, 0, 3, 2) (2, 0, 3, 1)$
	$(2, 0, 1, 1) (1, 1, 2, 0) (1, 1, 0, 2) - 4$	$(0, 2, 3, 1) (2, 0, 1, 3) (3, 0, 1, 2)$
$(2, 1, 0, 0) (2, 1, 0, 0) (2, 2, 1, 0) - 4$	$(2, 1, 0, 0) (2, 0, 0, 1) (0, 1, 2, 2) - 4$	$(0, 1, 2, 3) (0, 3, 1, 2) (2, 3, 1, 0)$
	$(2, 1, 0, 0) (0, 0, 1, 2) (1, 2, 2, 0) - 4$	$(0, 1, 2, 3) (3, 2, 0, 1) (1, 2, 0, 3)$
	$(2, 0, 1, 0) (2, 0, 1, 0) (0, 1, 2, 2) - 4$	$(0, 2, 1, 3) (0, 2, 1, 3) (2, 3, 1, 0)$
	$(2, 0, 1, 0) (2, 0, 0, 1) (0, 2, 1, 2) - 4$	$(0, 2, 1, 3) (0, 3, 1, 2) (1, 3, 2, 0)$
	$(2, 0, 1, 0) (0, 2, 0, 1) (2, 0, 1, 2) - 4$	$(0, 2, 1, 3) (1, 3, 0, 2) (0, 3, 2, 1)$
	$(2, 0, 1, 0) (0, 1, 2, 0) (1, 2, 0, 2) - 4$	$(0, 2, 1, 3) (2, 1, 0, 3) (1, 3, 0, 2)$
	$(2, 0, 1, 0) (0, 1, 0, 2) (1, 2, 2, 0) - 4$	$(0, 2, 1, 3) (3, 1, 0, 2) (1, 2, 0, 3)$
	$(2, 0, 1, 0) (0, 0, 1, 2) (2, 1, 2, 0) - 4$	$(0, 2, 1, 3) (3, 2, 0, 1) (0, 2, 1, 3)$
	$(0, 2, 1, 0) (2, 0, 0, 1) (2, 0, 1, 2) - 4$	$(1, 2, 0, 3) (0, 3, 1, 2) (0, 3, 2, 1)$
	$(2, 0, 0, 1) (2, 0, 0, 1) (0, 2, 2, 1) - 4$	$(0, 3, 1, 2) (0, 3, 1, 2) (1, 2, 3, 0)$
	$(2, 0, 0, 1) (0, 2, 0, 1) (2, 0, 2, 1) - 4$	$(0, 3, 1, 2) (1, 3, 0, 2) (0, 2, 3, 1)$
	$(2, 0, 0, 1) (0, 2, 0, 1) (2, 0, 2, 1) - 4$	$(0, 3, 1, 2) (1, 3, 0, 2) (0, 2, 3, 1)$

	$(2, 0, 0, 1) (0, 0, 2, 1) (2, 2, 0, 1) - 4$	$(0, 3, 1, 2) (2, 3, 0, 1) (0, 1, 3, 2)$
	$(2, 0, 0, 1) (1, 2, 0, 0) (1, 0, 2, 2) - 4$	$(0, 3, 1, 2) (1, 0, 2, 3) (2, 3, 0, 1)$
	$(2, 0, 0, 1) (1, 0, 2, 0) (1, 2, 0, 2) - 4$	$(0, 3, 1, 2) (2, 0, 1, 3) (1, 3, 0, 2)$
	$(2, 0, 0, 1) (1, 0, 0, 2) (1, 2, 2, 0) - 4$	$(0, 3, 1, 2) (3, 0, 1, 2) (1, 2, 0, 3)$
	$(2, 0, 0, 1) (0, 1, 2, 0) (2, 1, 0, 2) - 4$	$(0, 3, 1, 2) (2, 1, 0, 3) (0, 3, 1, 2)$
	$(2, 0, 0, 1) (0, 1, 0, 2) (2, 1, 2, 0) - 4$	$(0, 3, 1, 2) (3, 1, 0, 2) (0, 2, 1, 3)$
	$(2, 0, 0, 1) (0, 0, 1, 2) (2, 2, 1, 0) - 4$	$(0, 3, 1, 2) (3, 2, 0, 1) (0, 1, 2, 3)$
$(3, 2, 1, 0) (3, 2, 1, 0) (3, 2, 1, 0) - 6$	$(3, 2, 0, 1) (3, 0, 1, 2) (0, 1, 2, 3) - 6$	$(0, 1, 3, 2) (0, 3, 2, 1) (3, 2, 1, 0)$
	$(3, 2, 0, 1) (1, 2, 3, 0) (0, 1, 2, 3) - 6$	$(0, 1, 3, 2) (2, 1, 0, 3) (3, 2, 1, 0)$
	$(3, 0, 1, 2) (3, 0, 1, 2) (0, 2, 3, 1) - 6$	$(0, 3, 2, 1) (0, 3, 2, 1) (2, 1, 3, 0)$
	$(3, 0, 1, 2) (0, 1, 3, 2) (2, 3, 0, 1) - 6$	$(0, 3, 2, 1) (2, 3, 1, 0) (1, 0, 3, 2)$
	$(3, 0, 1, 2) (2, 3, 1, 0) (0, 1, 2, 3) - 6$	$(0, 3, 2, 1) (1, 0, 2, 3) (3, 2, 1, 0)$
	$(3, 0, 1, 2) (2, 3, 0, 1) (1, 0, 2, 3) - 6$	$(0, 3, 2, 1) (1, 0, 3, 2) (3, 2, 0, 1)$
	$(3, 0, 1, 2) (2, 0, 1, 3) (1, 2, 3, 0) - 6$	$(0, 3, 2, 1) (3, 0, 2, 1) (2, 1, 0, 3)$