

**Example 12.22** Consider  $n = 4$ . Let

$$K_1 = (\emptyset, \{1, 2, 3\}, \{4\}), \quad K_2 = (\emptyset, \{1, 2, 4\}, \{3\})$$

$$K_3 = (\emptyset, \{1, 2\}, \{3, 4\}), \quad K_4 = (\emptyset, \{1, 3\}, \{2, 4\})$$

and let  $\Pi_1 = \{K_1, K_2\}$  and  $\Pi_2 = \{K_3, K_4\}$ .