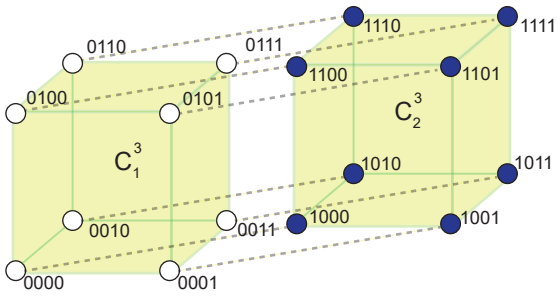
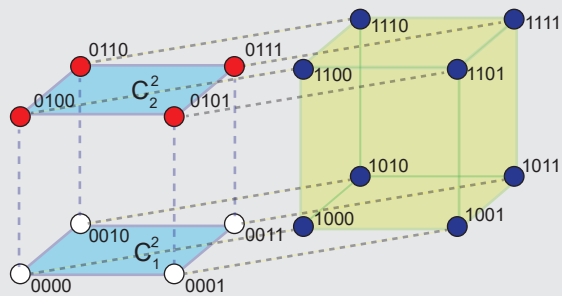
k = 4, P = 5 (decimal) = 0101 (binary)

(a) NCF: $\overline{x}_4 \wedge (\ldots)$ **0** 1 0 1

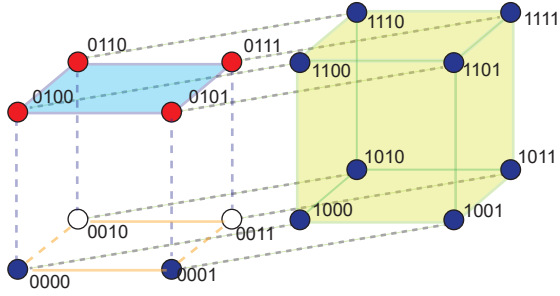


(b) NCF: $\overline{x}_4 \wedge (x_3 \vee (\ldots))$ 0 **1** 0 1

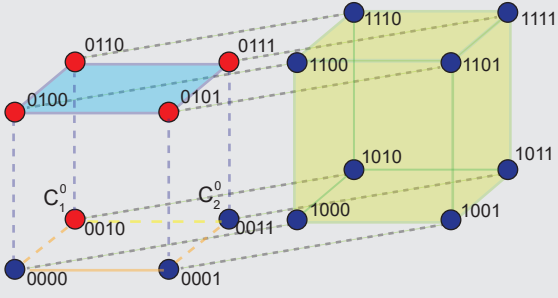


GS: Since $2^2 < 5 \leq 2^3$, color in red the 2^2 vertices of C_2^2.
$5 - 2^1$ (=1) vertex remains.

(c) NCF: $\overline{x}_4 \wedge (x_3 \vee (x_2 \wedge (\ldots)))$ 0 1 **0** 1



(d) NCF: $\overline{x}_4 \wedge (x_3 \vee (x_2 \wedge (\overline{x}_1)))$ 0 1 0 **1**



GS: Color in red a vertex of C_2^2 (in this case vertex 0010)

NCF: Nested Canalyzing Function GS: Good set ●: 1/GS vertex ●: 0/GS vertex ○: Undefined/GS vertex →: NCF sequence →: GS sequence