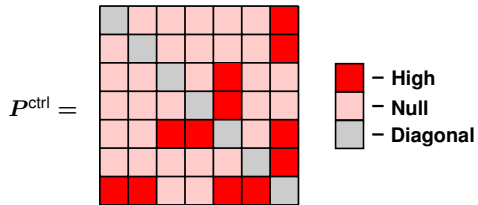


$$P_{ak}^{\text{ctrl}} = \begin{cases} \rho^{\text{hi}} + \varepsilon_{ak} & A_{ak} = 1 \\ \rho^{\text{lo}} + \varepsilon_{ak} & A_{ak} = 0 \end{cases}$$



$$P_{ak}^{\text{case}} = \begin{cases} b^{\text{int}} + \varepsilon_{ak} & A_{ak} = 1 \text{ \& } (i \in F \text{ or } j \in F) \\ P_{ak}^{\text{ctrl}} & \text{otherwise} \end{cases}$$

