

$$A_0X = XB_0$$

No constraints
No conditions

PairComp

$A_0 \ B_0$

$$A_0X = XB_0$$

$X \neq B_0X_S$
 $X \neq X_PA_0$
No conditions

$$A_1X = XA_1$$

No constraints
No conditions

$$A_1X = XB_0$$

$X \neq X_PA_0$
 $A_1 := A_0B_0$

$$A_0X = XA_1$$

$X \neq B_0X_S$
 $A_1 := A_0B_0$

Pick 1

$$A_0X = XB_0$$

$X \neq B_0X_S$
 $X \neq X_PA_0$
No conditions