

$$A_0X = XB_0$$

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

BlockComp

A_0

$$A_2 = A_3B_0$$

No constraints
 $A_2 := A_0^{i_1+1}$
 $A_3 := A_0^{i_1}$

$$A_2XA_3 = A_4XA_3B_0$$

$X \neq \varepsilon$
 $A_2 := A_0^{i_1+1}$
 $A_3 := A_0^{i_2}$
 $A_4 := A_0^{i_1}$