



$$X \neq B_0 X_S$$

 $X \neq X_P A_0$ No conditions

#### $YA_1X = XA_1Y$ No constraints

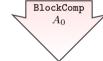
No conditions

No conditions

### $\frac{YA_1X = XB_0Y}{X \neq X_PA_0} \qquad \frac{YA_0X = XA_1Y}{X \neq B_0X_S}$

 $A_1 := A_0 B_0$ 

 $X \neq B_0 X_S$  $A_1 := A_0 B_0$ 



## $A_2 = A_3 B_0 A_4$ No constraints $A_2 := A_0^{i_1 + i_2 + 1}$

 $A_3 := A_0^{i_1}$  $A_4 := A_0^{i_2}$ 

### $A_2XA_3 = A_4XA_3B_0A_5$ $X \neq \varepsilon$

$$A_{2} := A_{0}^{i_{1}+i_{3}+1}$$

$$A_{3} := A_{0}^{i_{2}}$$

$$A_{4} := A_{0}^{i_{1}}$$

$$A_4 := A_0^{i_1} \\ A_5 := A_0^{i_3}$$

# $Y \neq \varepsilon$ $A_2 := A_0^{i_2}$ $A_3 := A_0^{i_1+i_3+1}$ $A_4 := A_0^{i_1}$ $A_5 := A_0^{i_3}$

 $A_2YA_3 = A_4B_0A_2YA_5$ 

$$A_{2}YA_{3}XA_{4} = A_{5}XA_{4}B_{0}A_{2}YA_{6}$$

$$Y \neq \varepsilon$$

$$X \neq \varepsilon$$

$$A_{2} := A_{0}^{i_{3}}$$

$$A_{3} := A_{0}^{i_{1}+i_{4}+1}$$

$$A_{4} := A_{0}^{i_{2}}$$

$$A_{5} := A_{0}^{i_{1}}$$

$$A_{6} := A_{0}^{i_{4}}$$