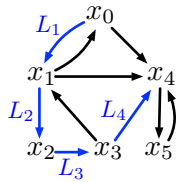
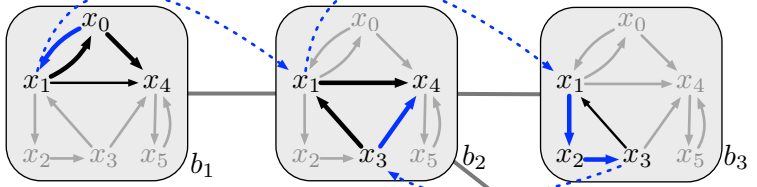
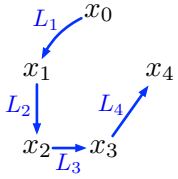
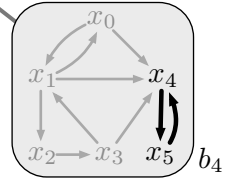
a)

$\rho =$ 

$(T, \mathbf{v}, \mathbf{t}) =$ 

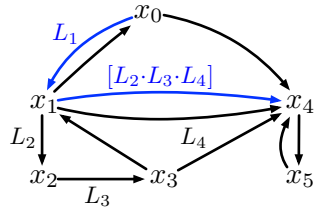
The path 

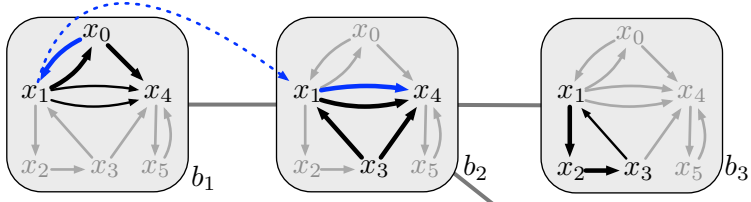
induces $\binom{b_1}{x_0}\binom{b_1}{x_1}\binom{b_2}{x_1}\binom{b_3}{x_1}\binom{b_3}{x_2}\binom{b_3}{x_3}\binom{b_2}{x_3}\binom{b_2}{x_4}$.

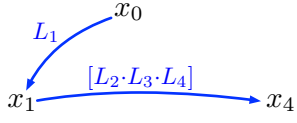


(tagged atoms are **emphasized**)

b)

$\rho' =$ 

$(T, \mathbf{v}, \mathbf{t}') =$ 

The path 

induces $\binom{b_1}{x_0}\binom{b_1}{x_1}\binom{b_2}{x_1}\binom{b_2}{x_4}$.