

trail plan

$$\rho = (1, 3, 4, 2, 3, 1)$$

probability robot visits 2nd node in planned trail

$$\pi[S_2(\rho) = 1] = \omega(1,3)\omega(3,4)$$

index of trail for first planned visit to node 4

$$n^*(\rho, 4) = 2$$

probability node 4 is not visited by this robot

$$\pi[T_4(\rho) = 0] = 1 - \omega(1,3)\omega(3,4)$$