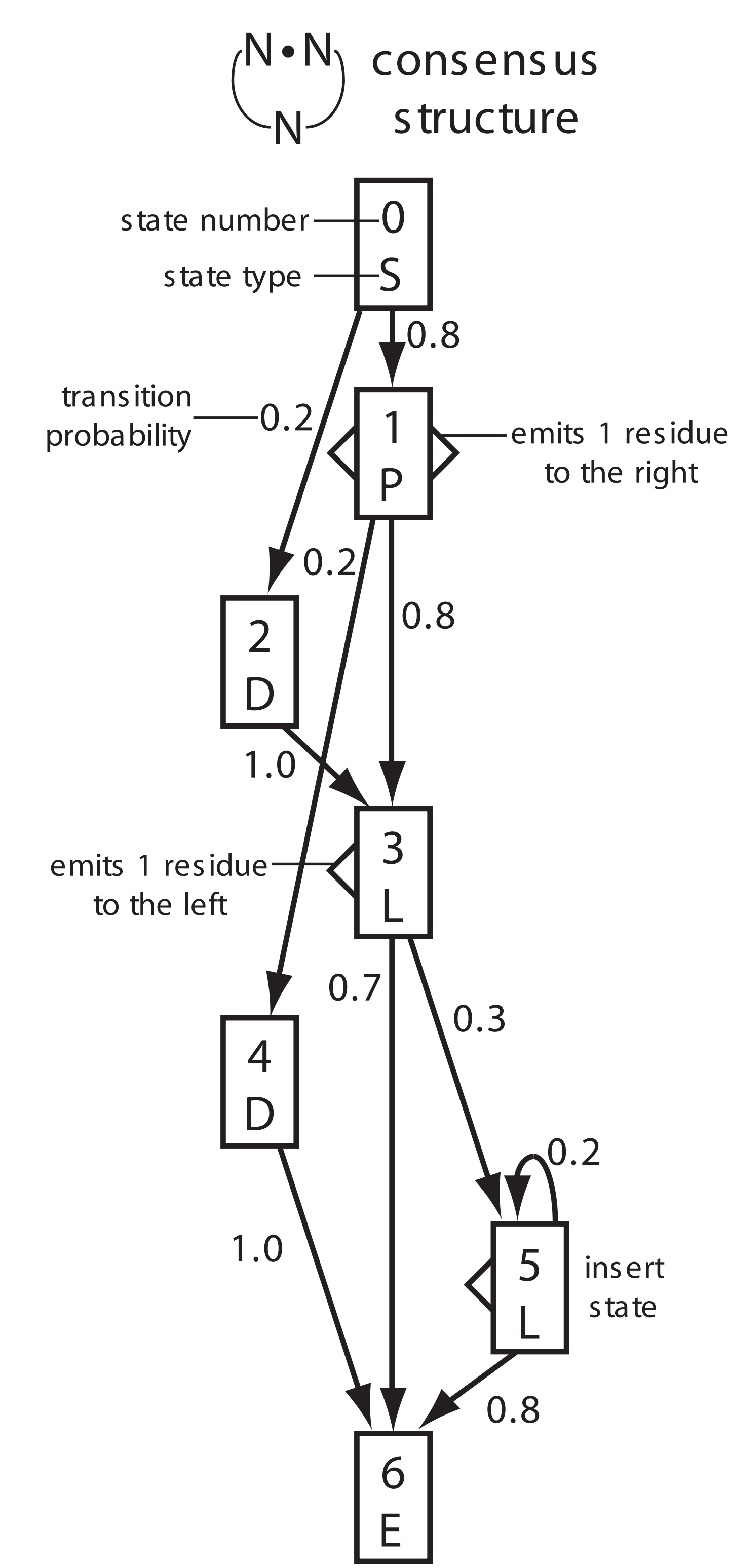
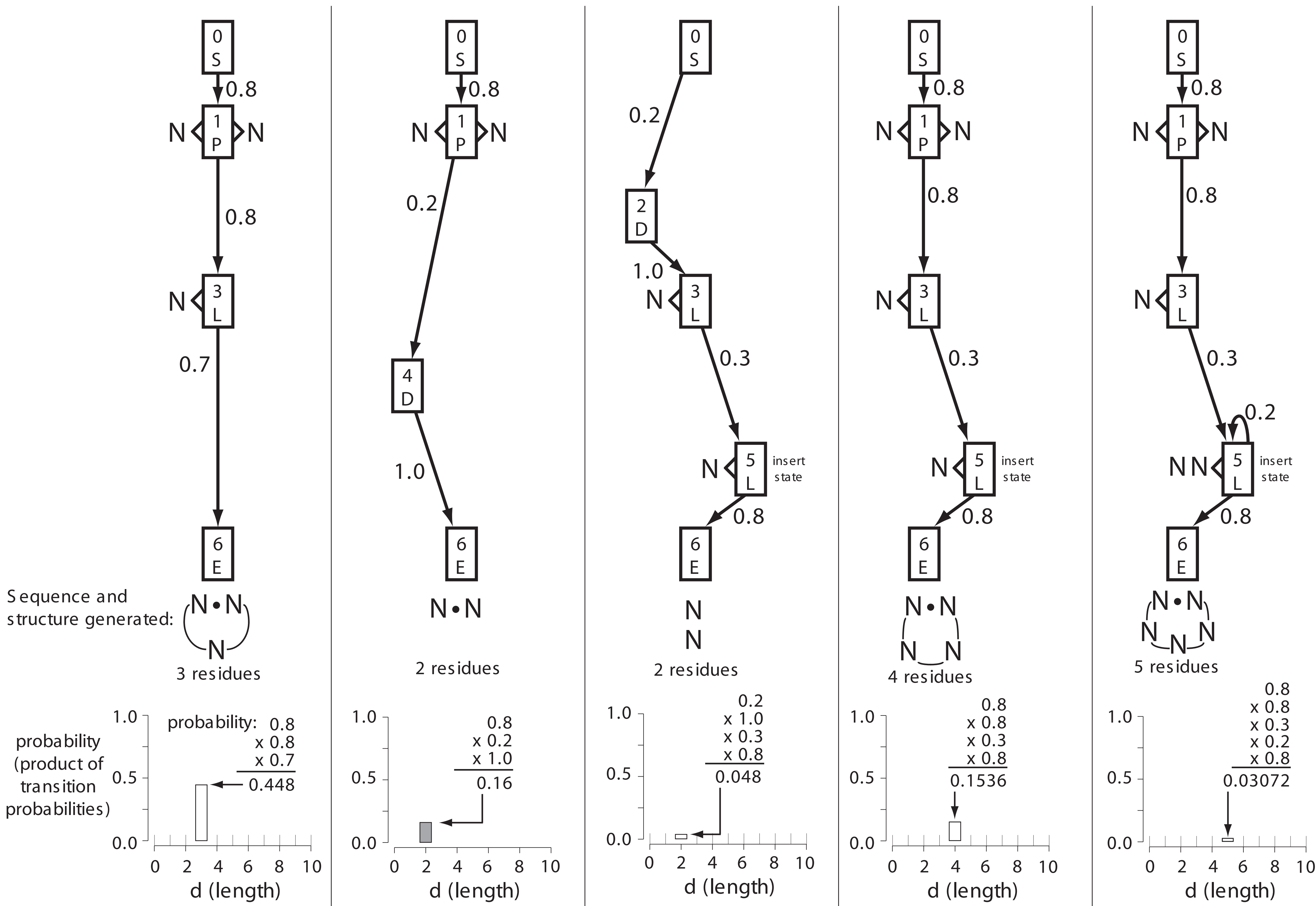


(A) A simplified, traceable CM:



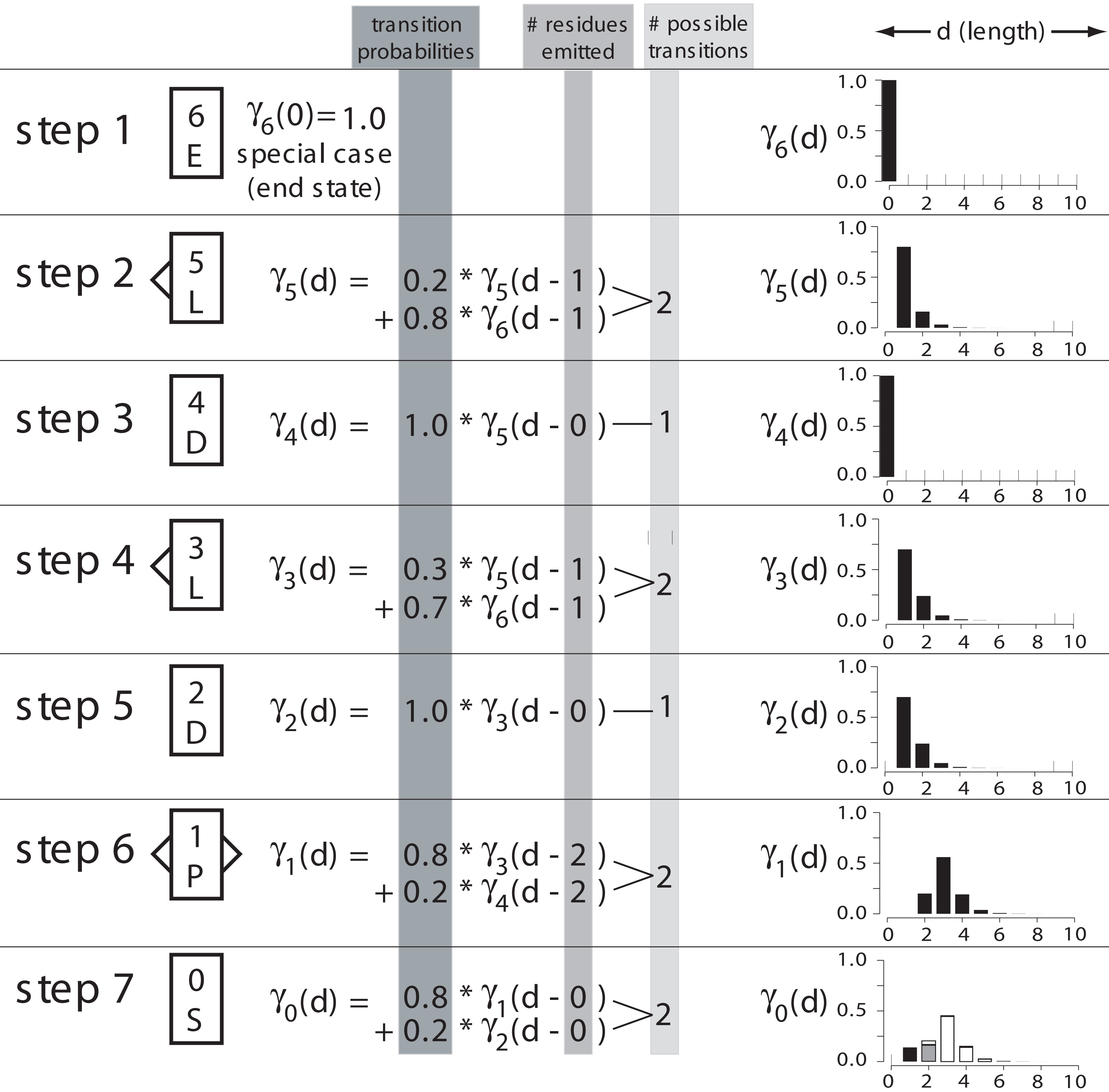
(B) Sequences generated from the CM with different probabilities:



(C) BOTTOM UP band calculation algorithm:

For all states v and lengths d, calculate the probability of generating a sequence of length d from v ( $\gamma_v(d)$ ).

For v = 6 to 0; d = 0 to 10:

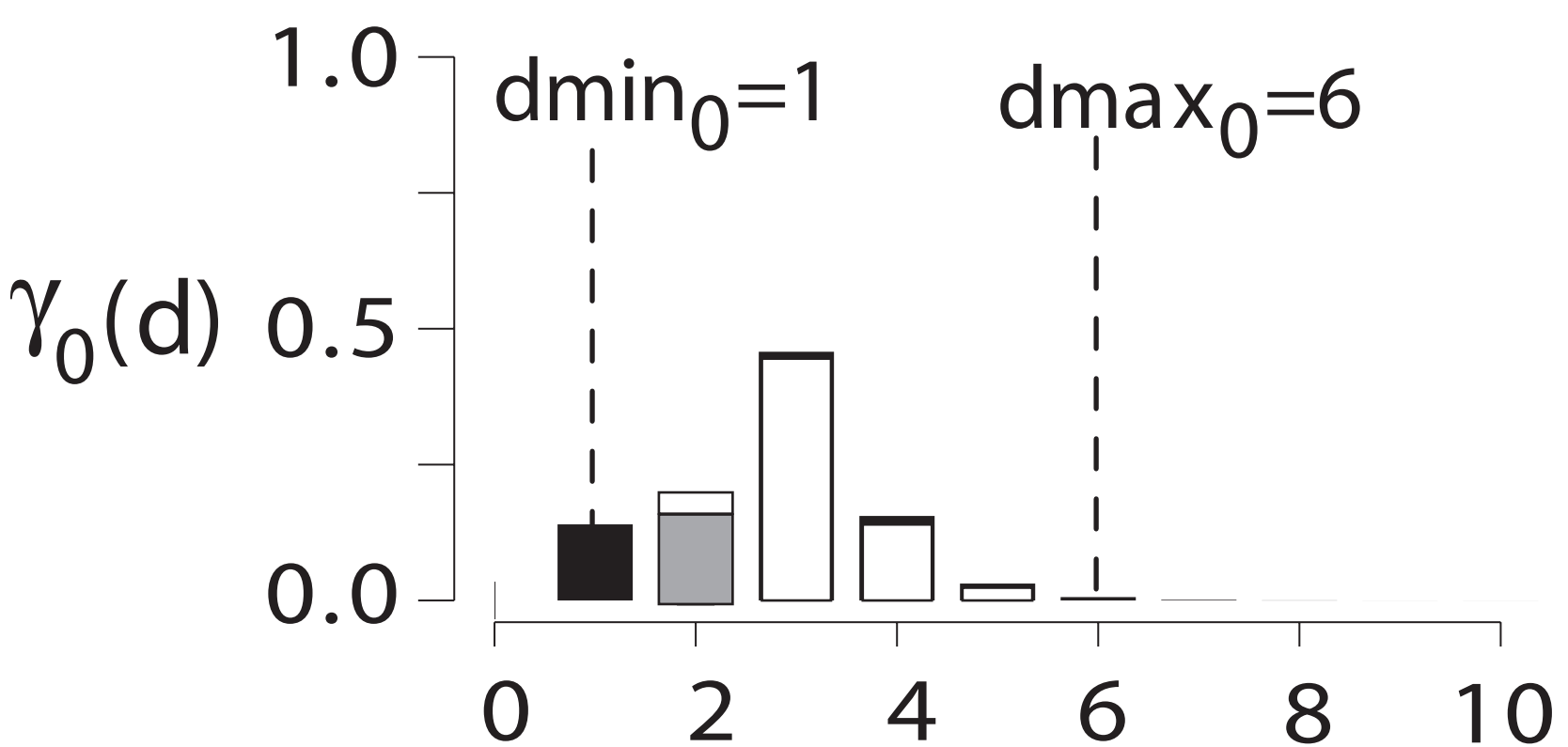


final step

Define band (dmin and dmax) on each state (only shown for state 0), such that:

$$\sum_{d=dmin}^{dmax} \gamma_v(d) \geq (1-bandp)$$

bandp is 0.01 for this example  
(in practice bandp  $\leq 10^{-6}$ )



(D) Bands for a tRNA CM:

