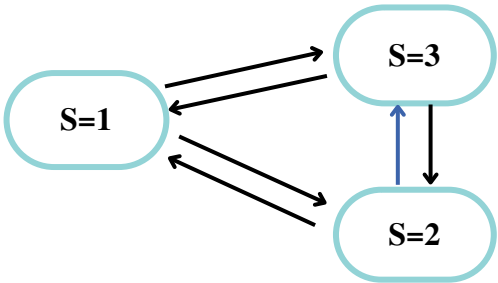
A **Hidden Semi-Markov Process**



B **Transition Probability Matrix & State-specific duration distributions**

From \ *To*	S=1	S=2	S=3
S=1	0	γ_{12}	γ_{13}
S=2	γ_{21}	0	γ_{23}
S=3	γ_{31}	γ_{32}	0

$$p_i(d) \sim \begin{cases} LogN(\mu_{[d]1}, \sigma^2_{[d]1}), \text{ for } S = 1 \\ LogN(\mu_{[d]2}, \sigma^2_{[d]2}), \text{ for } S = 2 \\ LogN(\mu_{[d]3}, \sigma^2_{[d]3}), \text{ for } S = 3 \end{cases}$$