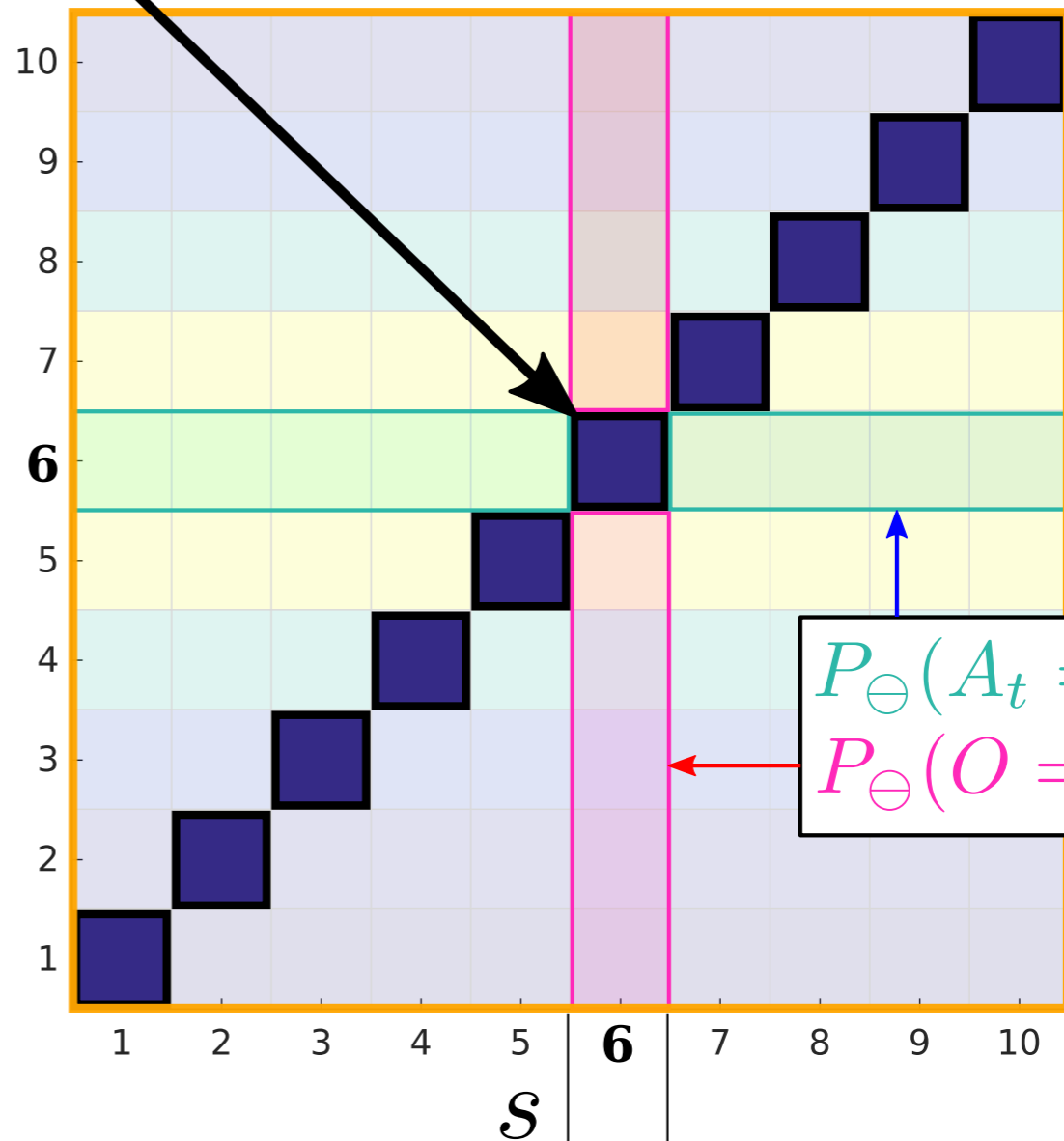
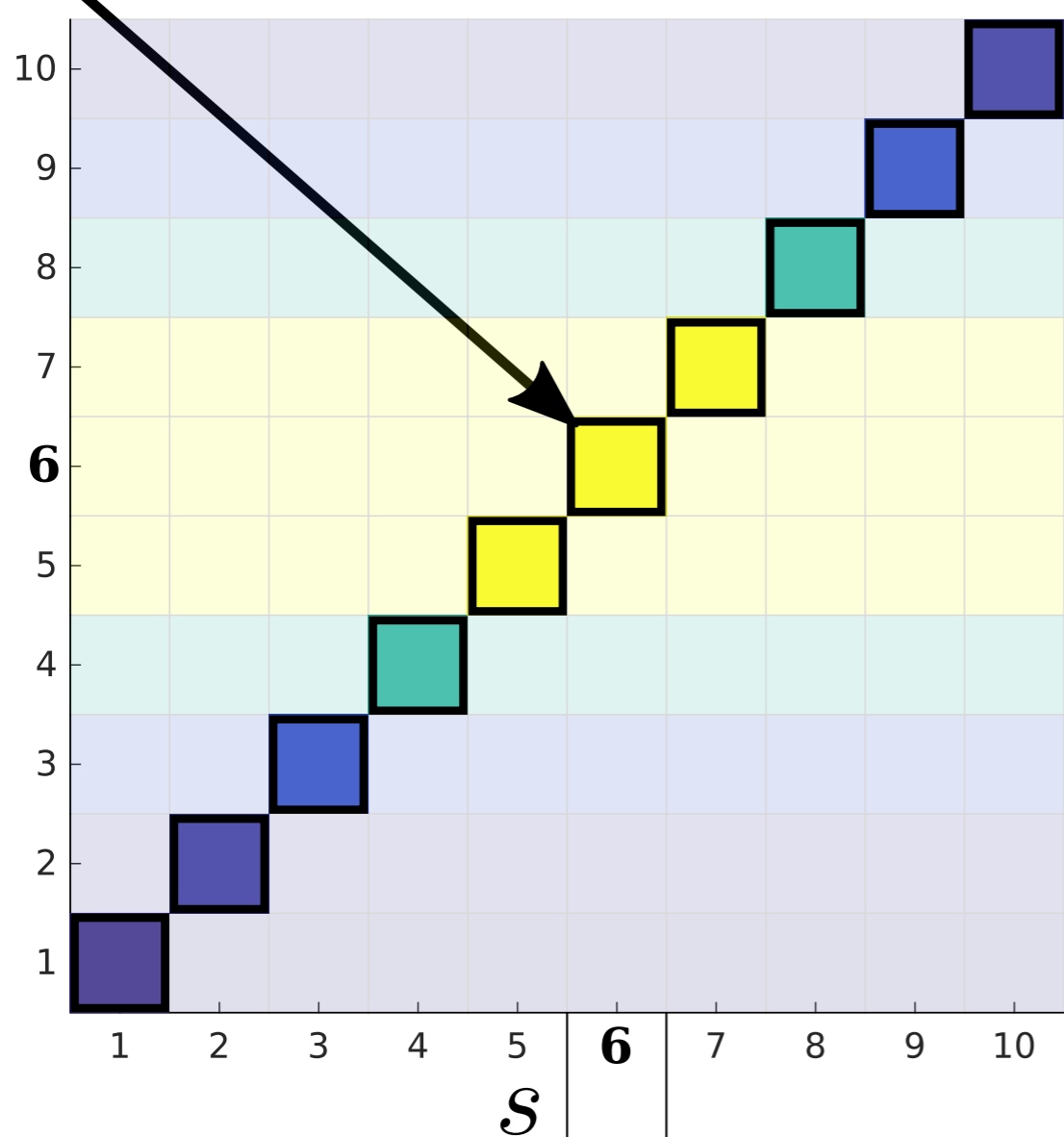


$t - 1$  $t$ 

$$P(A_t, O | Y_{0:t}; \theta_a^*, \theta_o^*, \Psi_{0:t}, \alpha_{0:t})$$

$$P_{\cap}(O = 6 | Y_{0:t-1}; \theta_a^*, \theta_o^*, \bar{\Psi}_{0:t}, \alpha_{0:t})$$

$$P_{\cap}(O = 6 | Y_{0:t}; \theta_a^*, \theta_o^*, \Psi_{0:t}, \alpha_{0:t})$$



$$P_{\ominus}(A_t = 6 | Y_{0:t})$$

$$P_{\ominus}(O = 6 | Y_{0:t})$$

