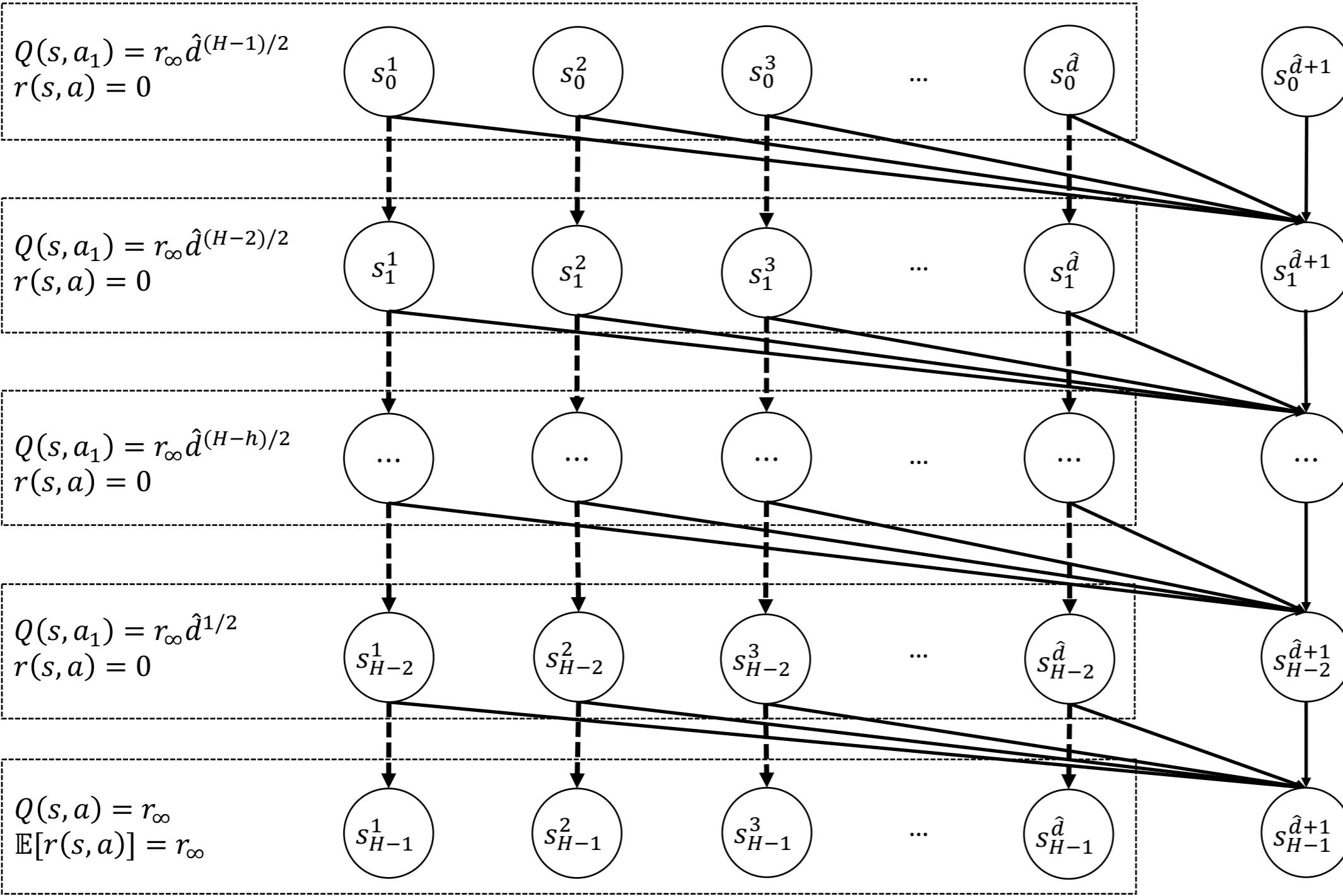


$$\phi(s_h^c, a_1) = e_c$$

$$\phi(s_h^c, a_2) = e_{c+\hat{d}}$$

$$\phi(s_h^{\hat{d}+1}, a) = (e_1 + e_2 + \dots + e_{\hat{d}})/\hat{d}^{1/2}$$

$\longrightarrow a_1$   
 $\dashrightarrow a_2$



$$Q(s, a_1) = r_\infty \hat{d}^{(H-1)/2}$$

$$r(s, a) = 0$$

$$Q(s, a_1) = r_\infty \hat{d}^{(H-2)/2}$$

$$r(s, a) = 0$$

$$Q(s, a_1) = r_\infty \hat{d}^{(H-h)/2}$$

$$r(s, a) = 0$$

$$Q(s, a_1) = r_\infty \hat{d}^{1/2}$$

$$r(s, a) = 0$$

$$Q(s, a) = r_\infty$$

$$\mathbb{E}[r(s, a)] = r_\infty$$

$$Q(s_0^{\hat{d}+1}, a) = r_\infty \hat{d}^{H/2}$$

$$r(s_0^{\hat{d}+1}, a) = r_\infty (\hat{d}^{H/2} - \hat{d}^{(H-1)/2})$$

$$Q(s_1^{\hat{d}+1}, a) = r_\infty \hat{d}^{(H-1)/2}$$

$$r(s_1^{\hat{d}+1}, a) = r_\infty (\hat{d}^{(H-1)/2} - \hat{d}^{(H-2)/2})$$

$$Q(s_h^{\hat{d}+1}, a) = r_\infty \hat{d}^{(H-h+1)/2}$$

$$r(s_h^{\hat{d}+1}, a) = r_\infty (\hat{d}^{(H-h+1)/2} - \hat{d}^{(H-h)/2})$$

$$Q(s_{H-2}^{\hat{d}+1}, a) = r_\infty \hat{d}$$

$$r(s_{H-2}^{\hat{d}+1}, a) = r_\infty (\hat{d} - \hat{d}^{1/2})$$

$$Q(s_{H-1}^{\hat{d}+1}, a) = r_\infty \hat{d}^{1/2}$$

$$r(s_{H-1}^{\hat{d}+1}, a) = r_\infty \hat{d}^{1/2}$$