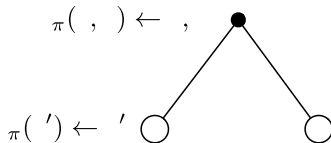


## Lecture 2: Markov Decision Processes

## └ Markov Decision Processes

## └ Bellman Expectation Equation

# Bellman Expectation Equation for $Q^\pi$



$$q_\pi(s, a) = \mathcal{R}_s^a + \gamma \sum_{s' \in \mathcal{S}} \mathcal{P}_{ss'}^a v_\pi(s')$$