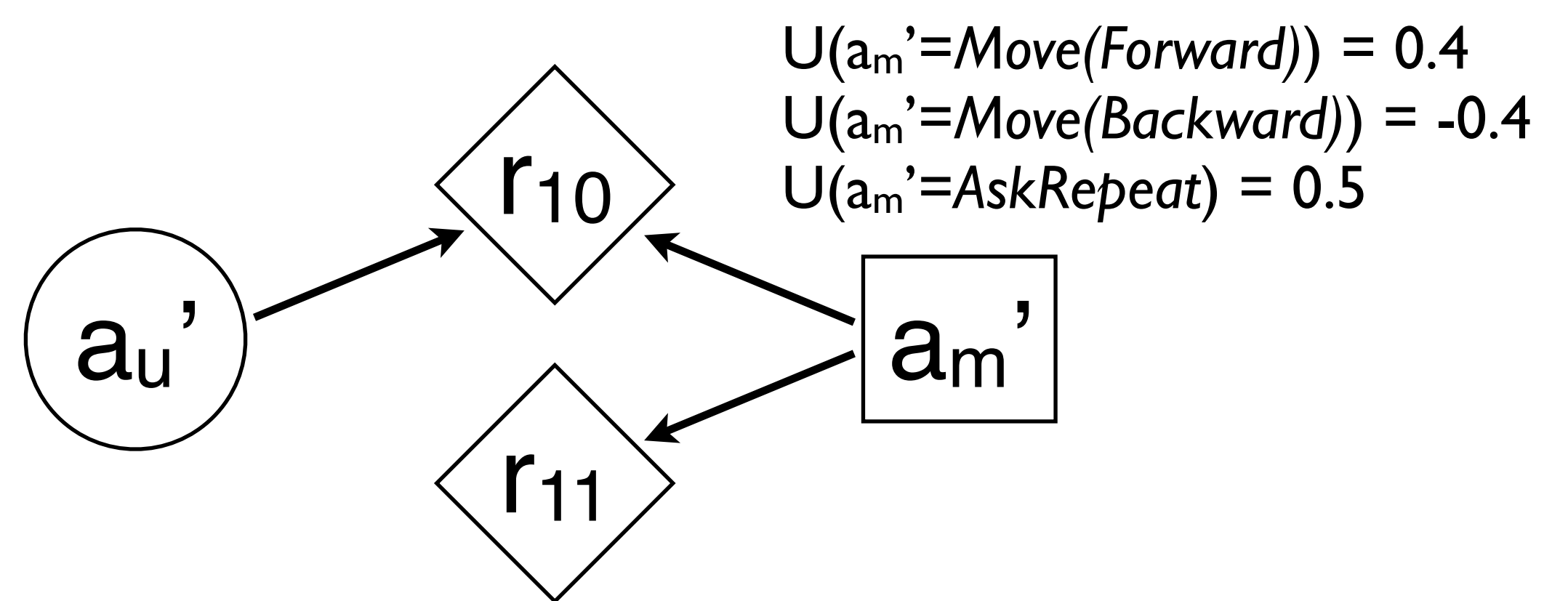
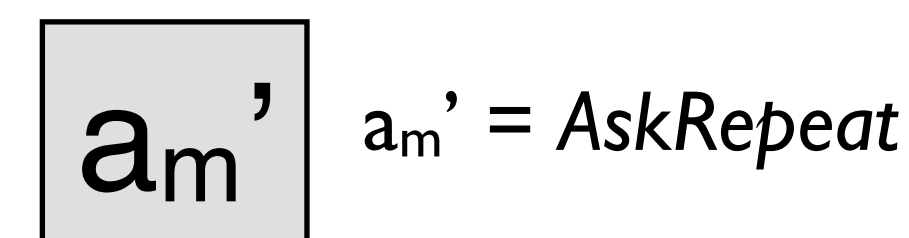
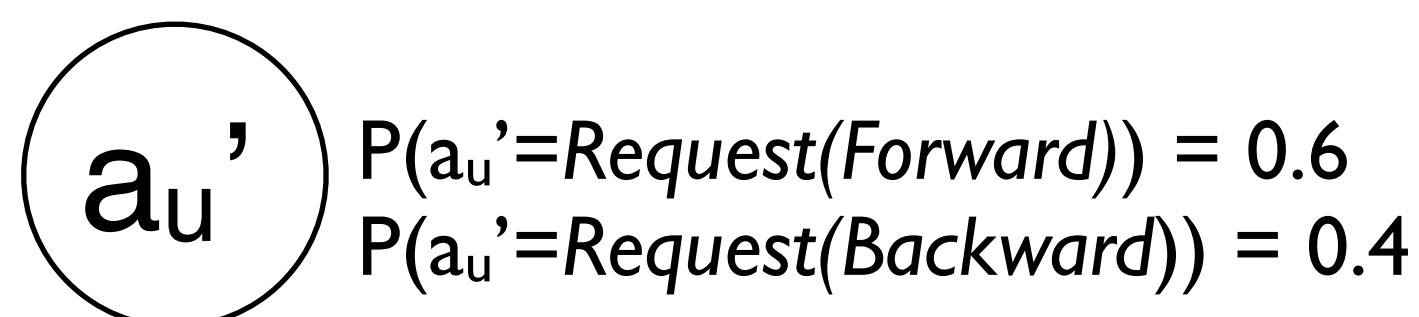


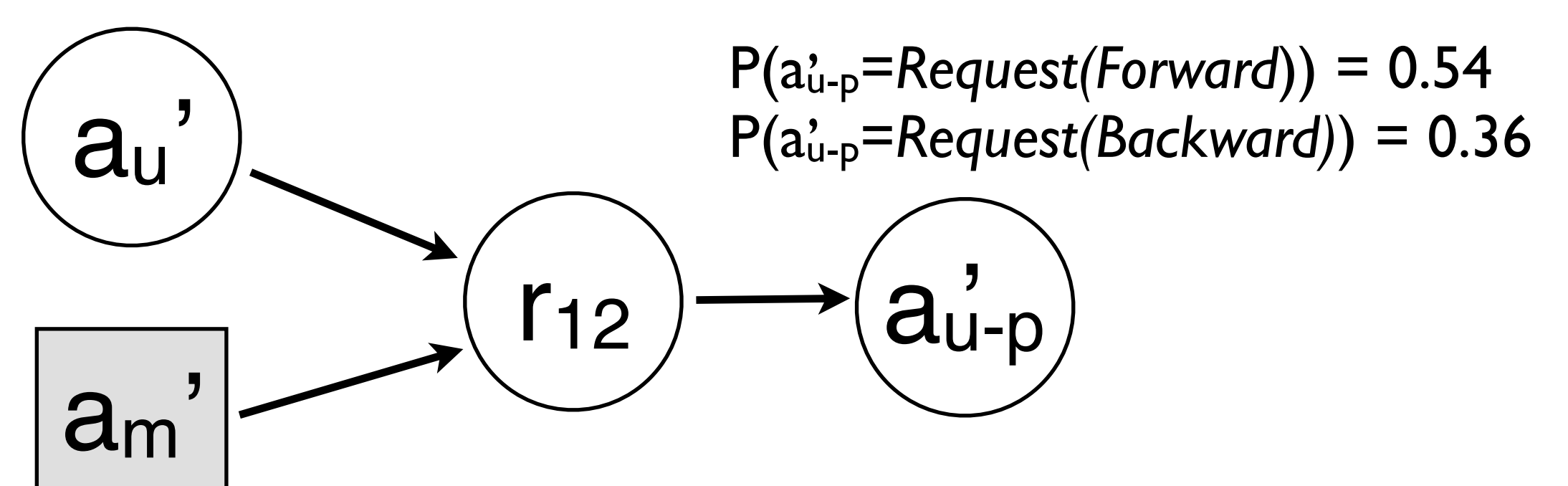
Step 1: insertion of new variable a_u



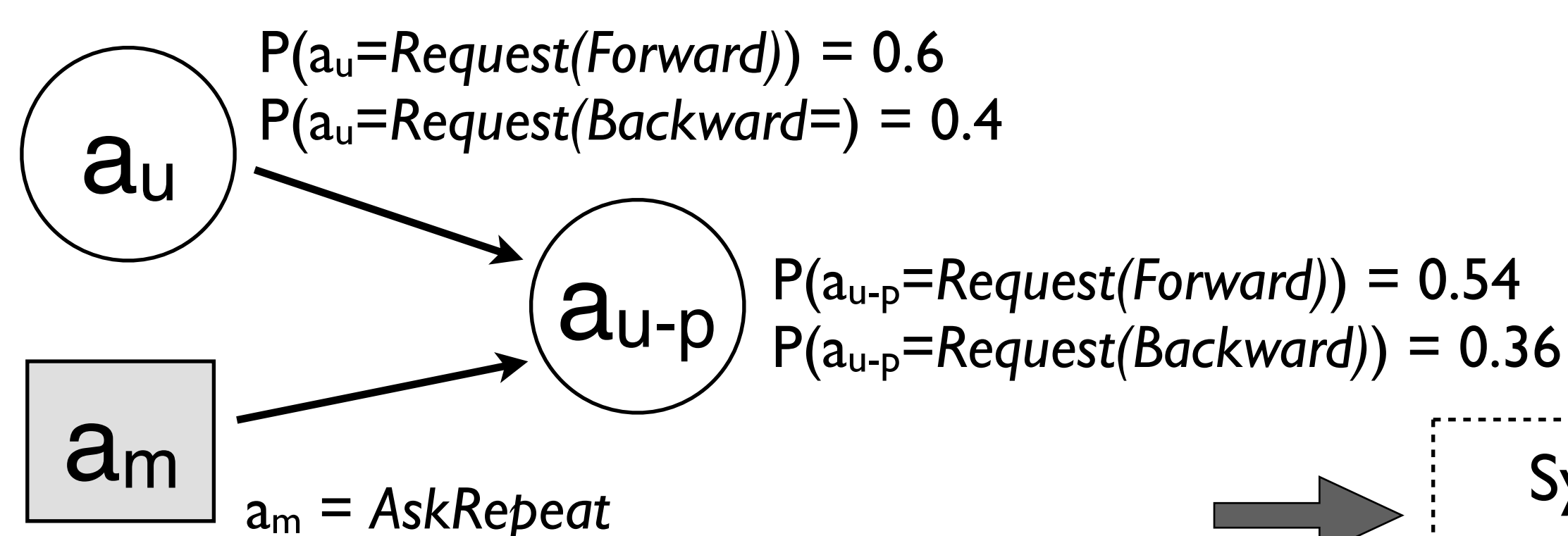
Step 2: triggering utility model m_l



Step 3: selection of optimal action

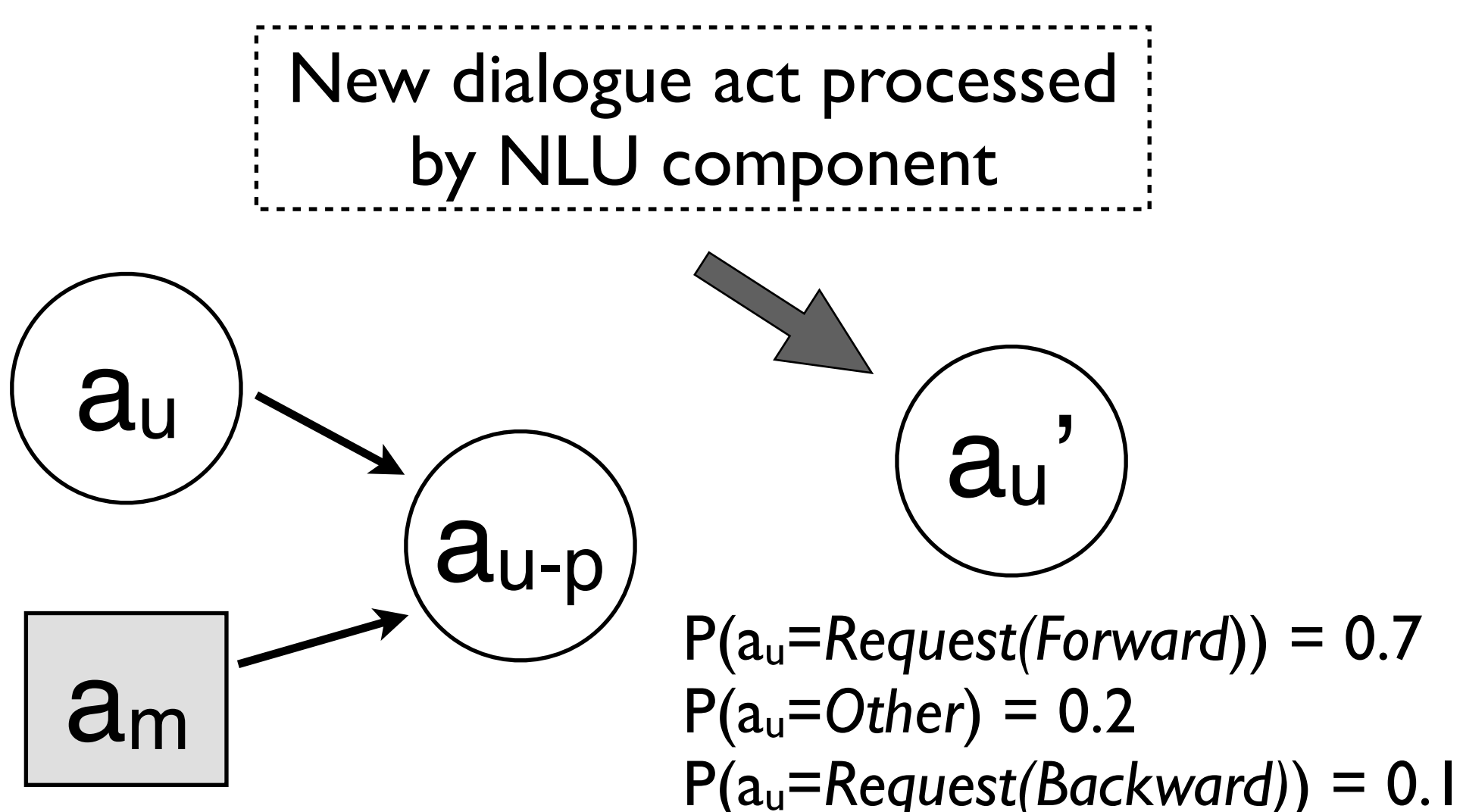


Step 4: triggering prediction model m_2

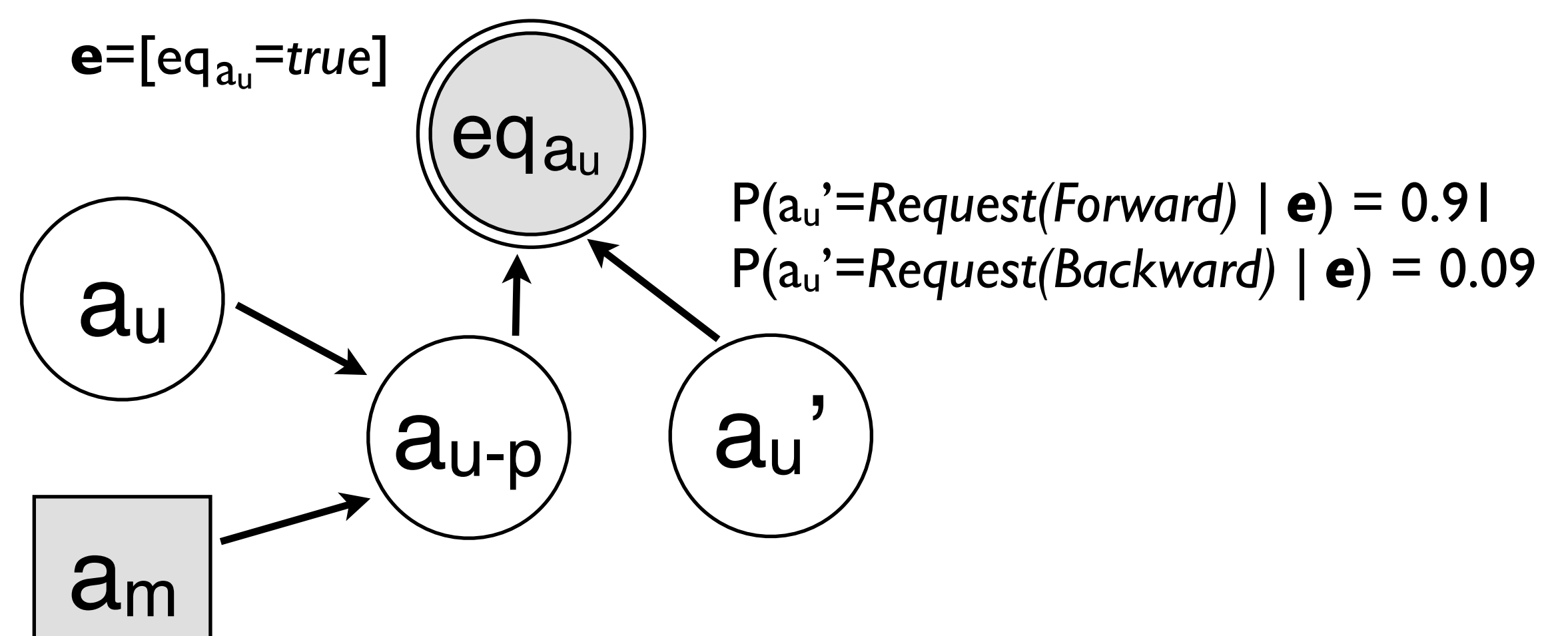


System action: AskRepeat
(forwarded to NLG)

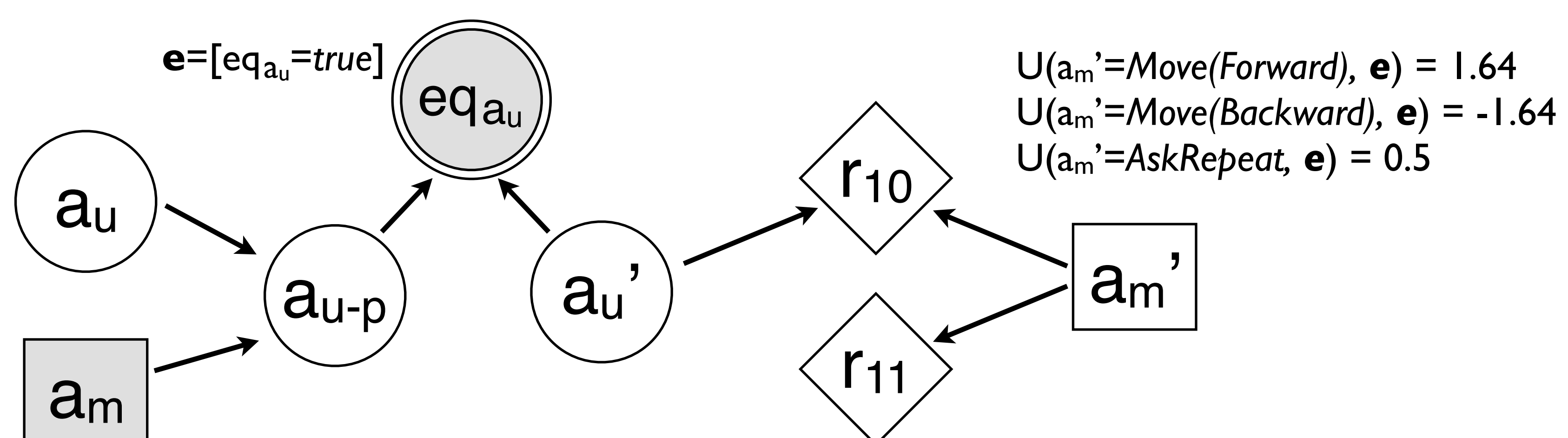
Step 5: state pruning



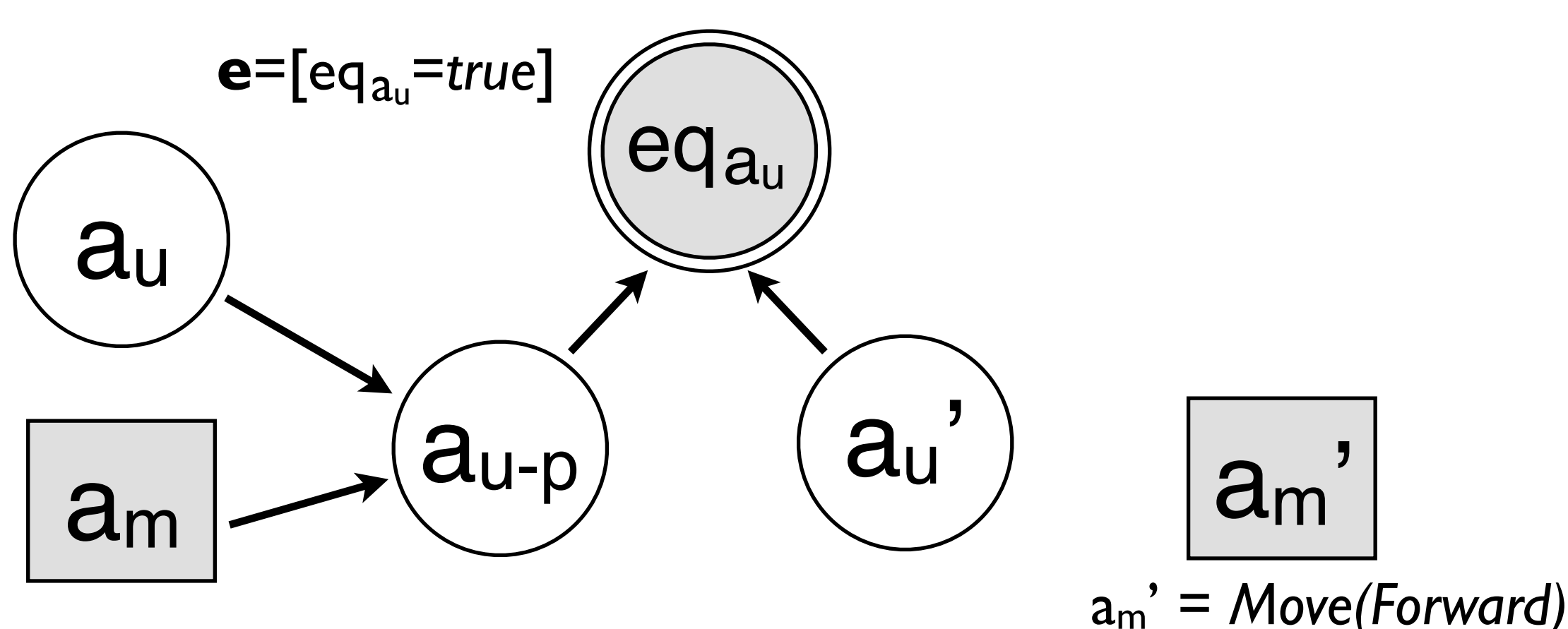
Step 6: insertion of new variable a_u



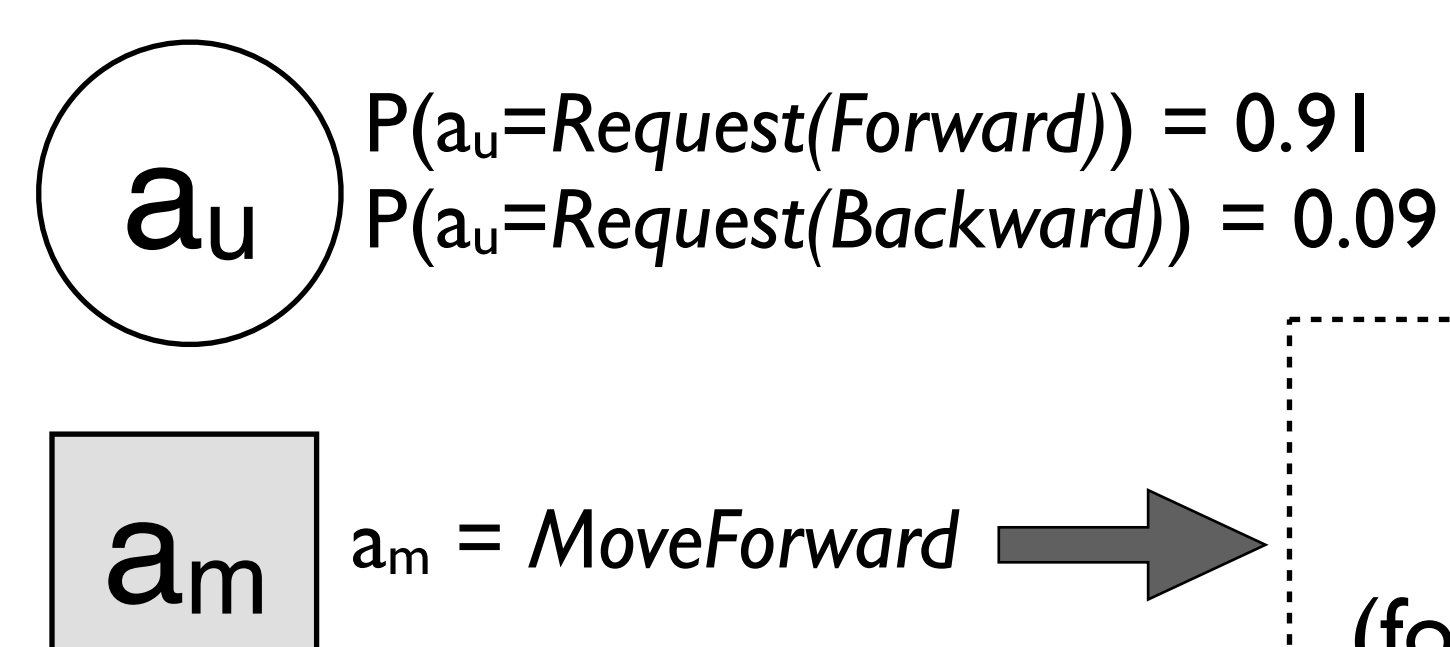
Step 7: insertion of equivalence node between prediction and observation



Step 8: triggering utility model m_l



Step 9: selection of optimal action



System action: MoveForward
(forwarded to NLG and motor control)

Step 10: state pruning