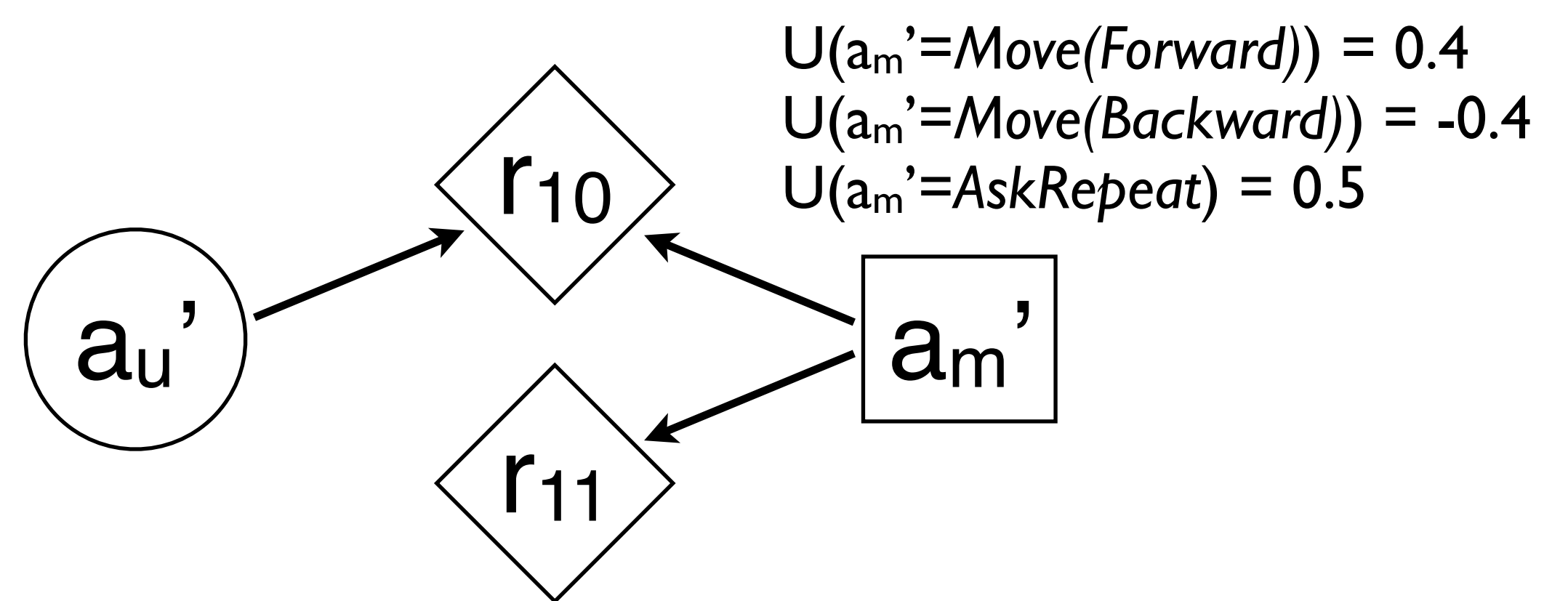
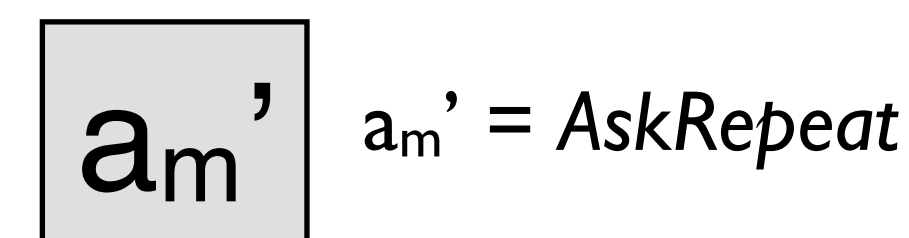
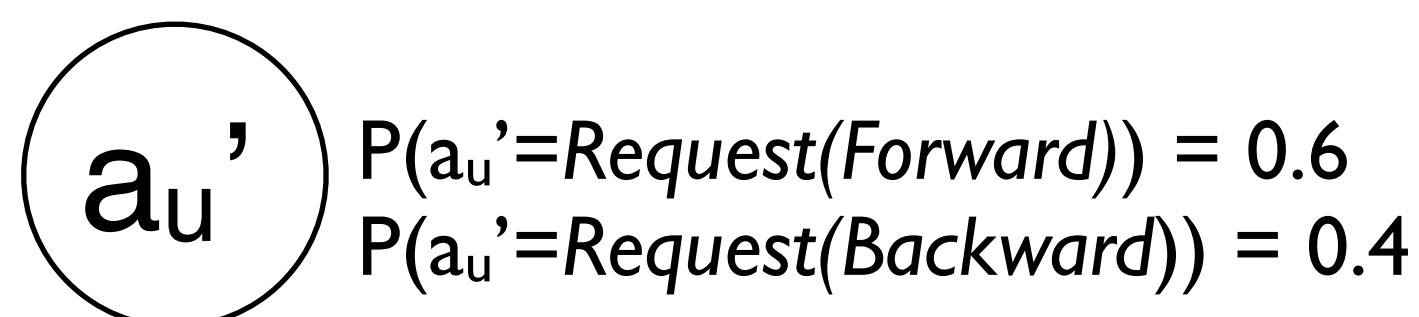


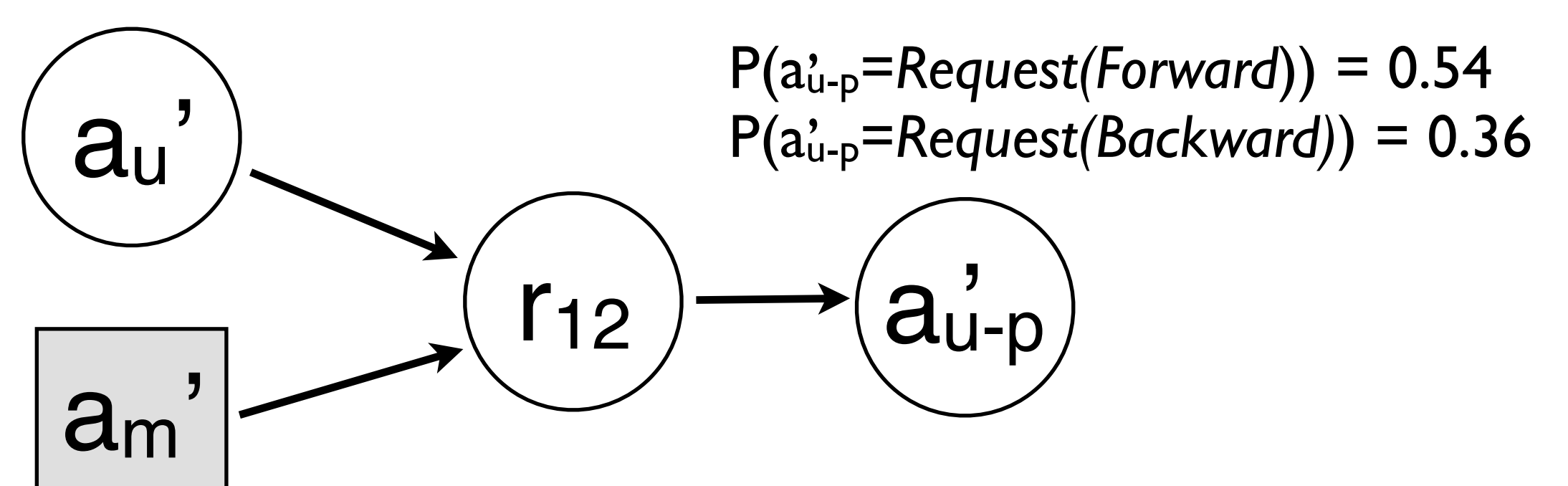
Step 1: insertion of new variable a_u



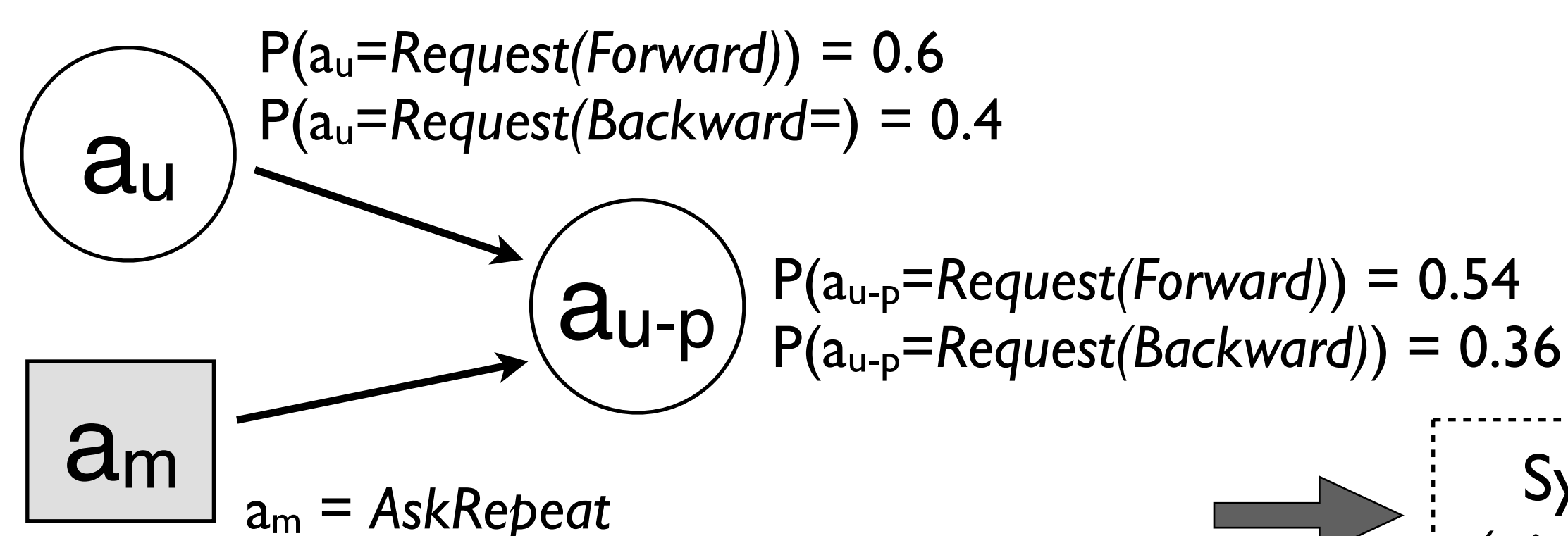
Step 2: triggering utility model m_I



Step 3: selection of optimal action

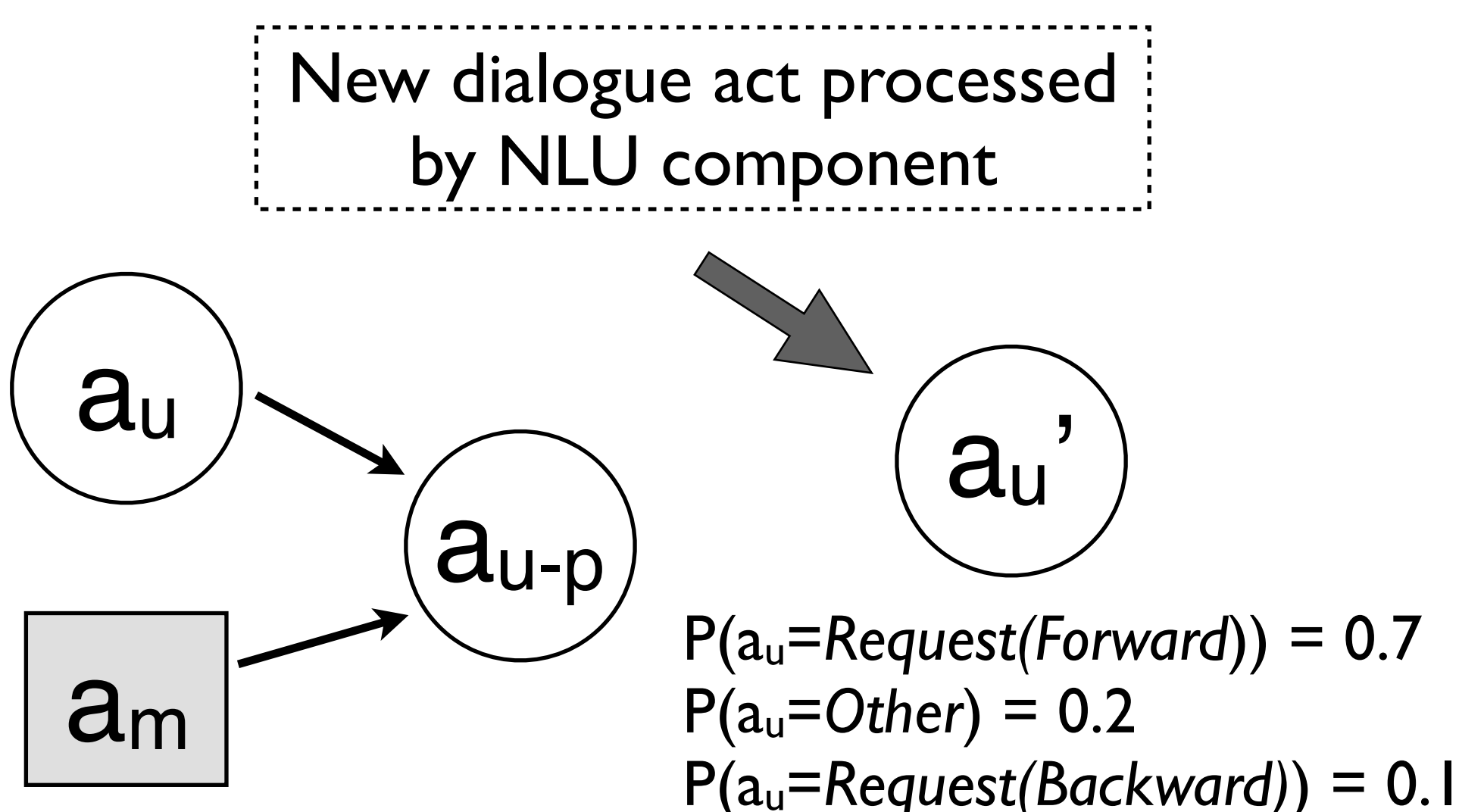


Step 4: triggering prediction model m_2

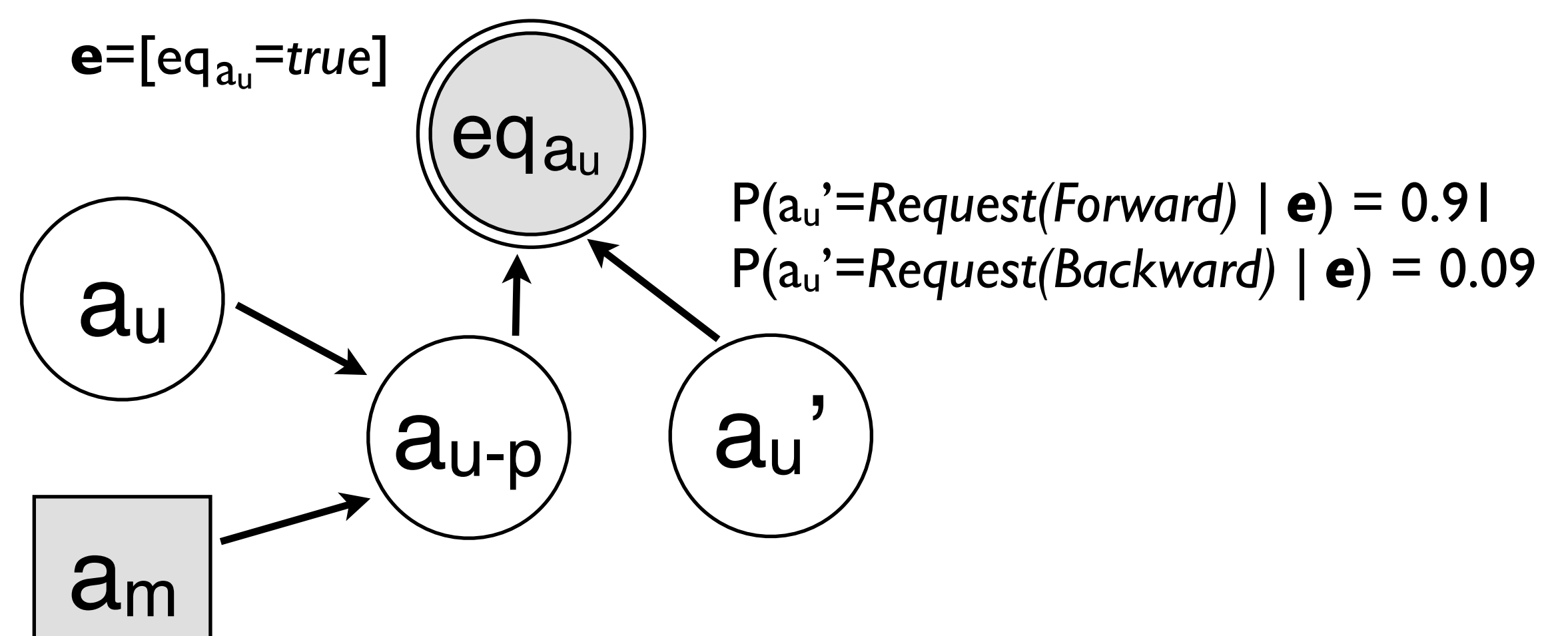


Step 5: state pruning

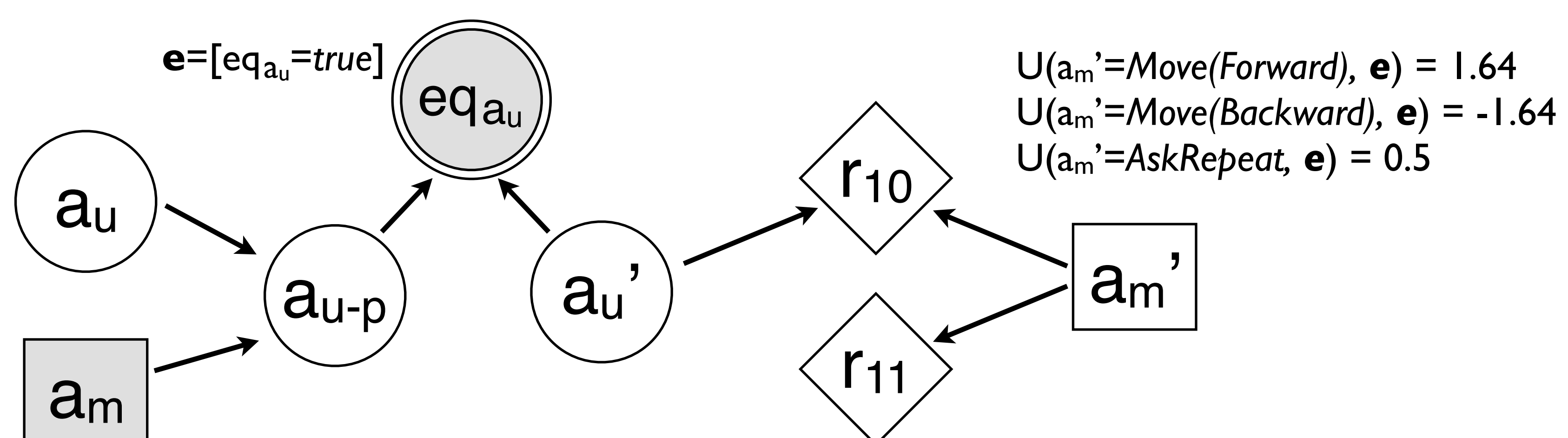
System response: AskRepeat
 (picked up by NLG component)



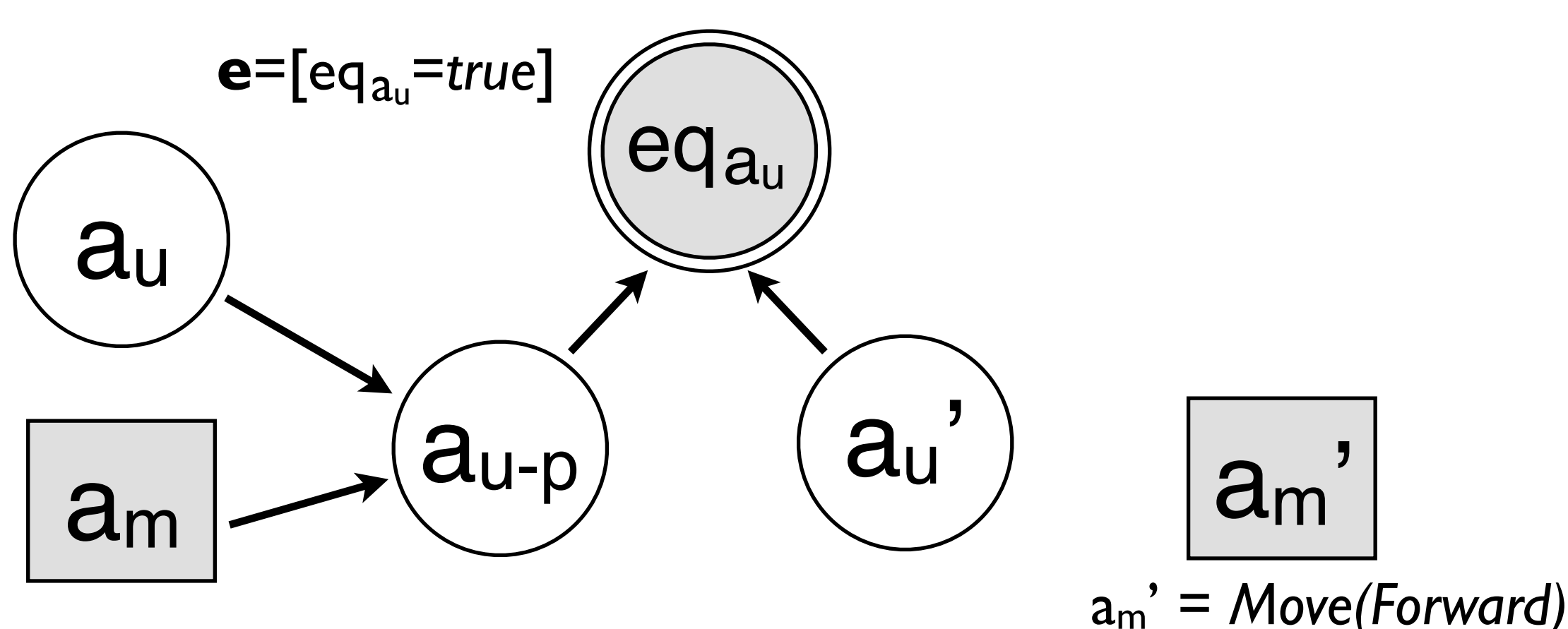
Step 6: insertion of new variable a_u



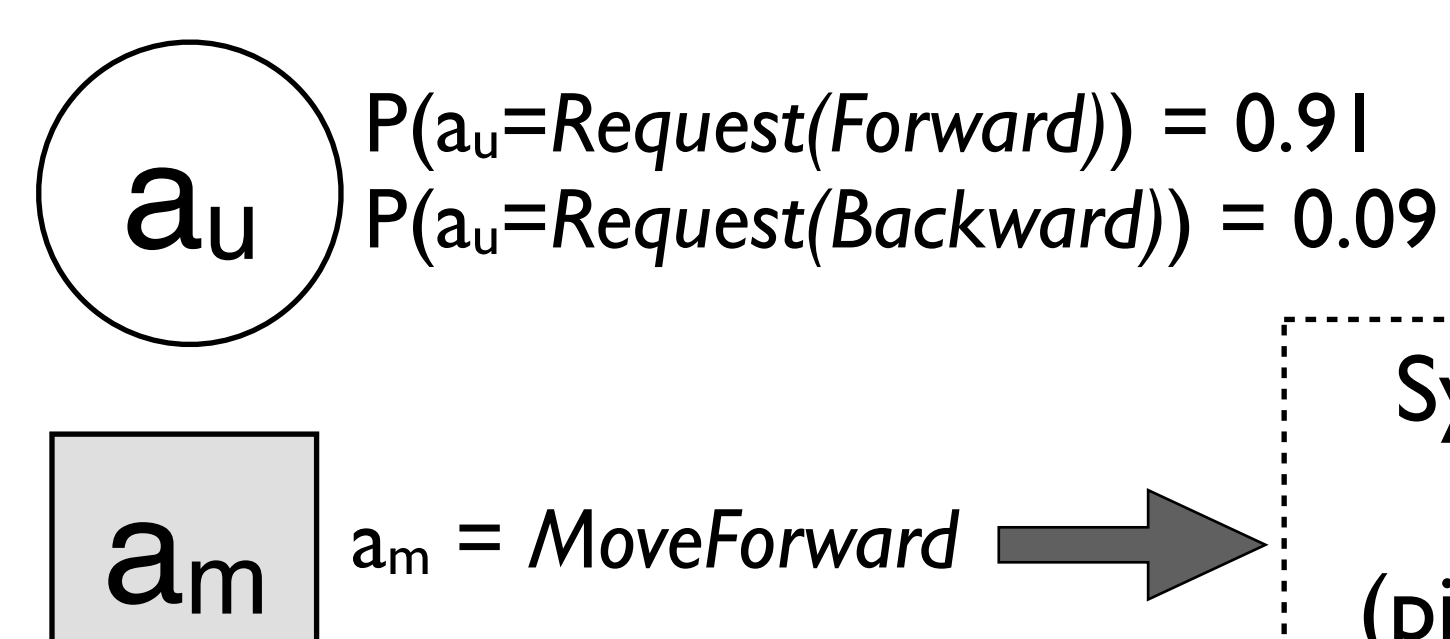
Step 7: insertion of equivalence node between prediction and observation



Step 8: triggering utility model m_I



Step 9: selection of optimal action



System response:
 MoveForward
 (picked up by NLG and motor control components)

Step 10: state pruning