

[1] Á. G. Iñesta, G. Vardoyan, L. Scavuzzo, and S. Wehner, "Optimal entanglement distribution policies in homogeneous repeater chains with cutoffs," npj Quantum **References:** Information vol. 9, no. 1, p. 46, 2023.

[2] R. S. Sutton and A. G. Barto, Reinforcement learning: An introduction. MIT press, 2018.

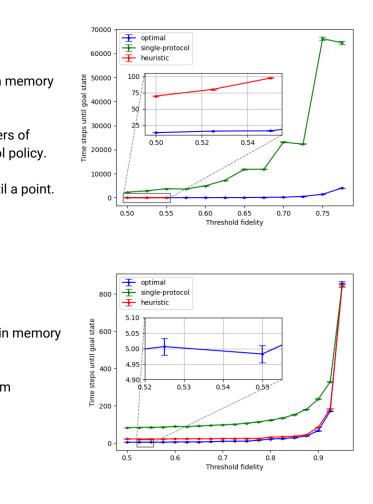
Results

In both cases, we use 7 protocols with probabilities and fidelities:

P = [0.025, 0.05, 0.075, 0.1, 0.2, 0.3, 0.4] **F** = [0.975, 0.95, 0.925, 0.9, 0.8, 0.7, 0.6]

We introduce a **heuristic**:

• Prefer protocols with higher fidelity for the first links · Prefer protocols with higher probability for the last



Conclusions and Future Work

• We computed the optimal policy and introduced a heuristic for the case when using

• The optimal policy performs significantly better than the single-protocol policy for the

Future work recommendations:

Test the findings in practical applications.