**QAOA Performance Scaling**
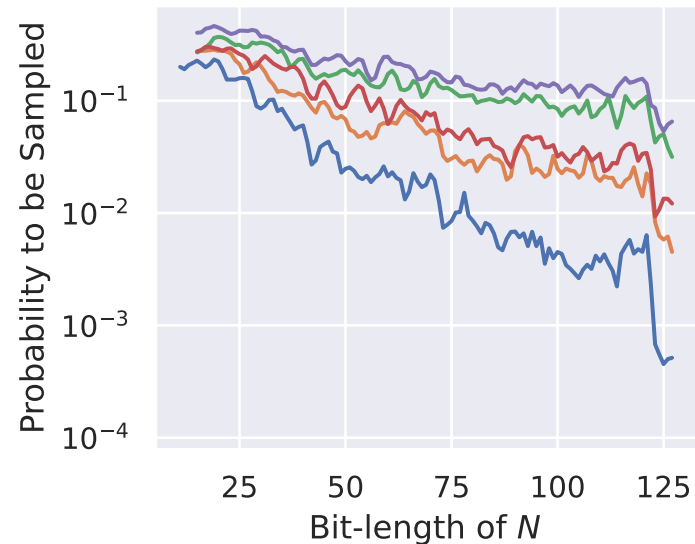
Improvement on $b_{op}$ | Best Solution in Neighbourhood

Probability to be Sampled

Bit-length of $N$

No. Ansatz Layers
- $p = 1$
- $p = 3$
- $p = 5$
- $p = 7$
- $p = 9$