

# QAOA Best Solution Quality Scaling

Abs. Improvement on  $b_{op}$

% Improvement on  $b_{op}$

No. Ansatz Layers

$p = 1$

$p = 3$

$p = 5$

$p = 7$

$p = 9$

$10^0$

$10^{-1}$

$10^{-2}$

$10^{-1}$

2

6

10

14

18

2

6

10

14

18

Lattice Dimension  $l \cdot \log_2 N / \log_2 \log_2 N$

Lattice Dimension  $l \cdot \log_2 N / \log_2 \log_2 N$