ADAPT QAOA 2L **QAOA** 0.6 Mean(Grad) Mean(Grad) 0.6 0.5 0.4 0.4 0.2 0.3 0.0 5 15 20 3 10 6 9 12 15 Layers Layers **ADAPT VQE 2L** VQE 0.3 0.62 Mean(Grad) Mean(Grad) 4 0.60 0.2 0.58 0.56 0.54 0.1 0.52 0.50 0.0 2.0 2.5 3.0 100 200 300 400 1.0 1.5 0 Layers Layers