#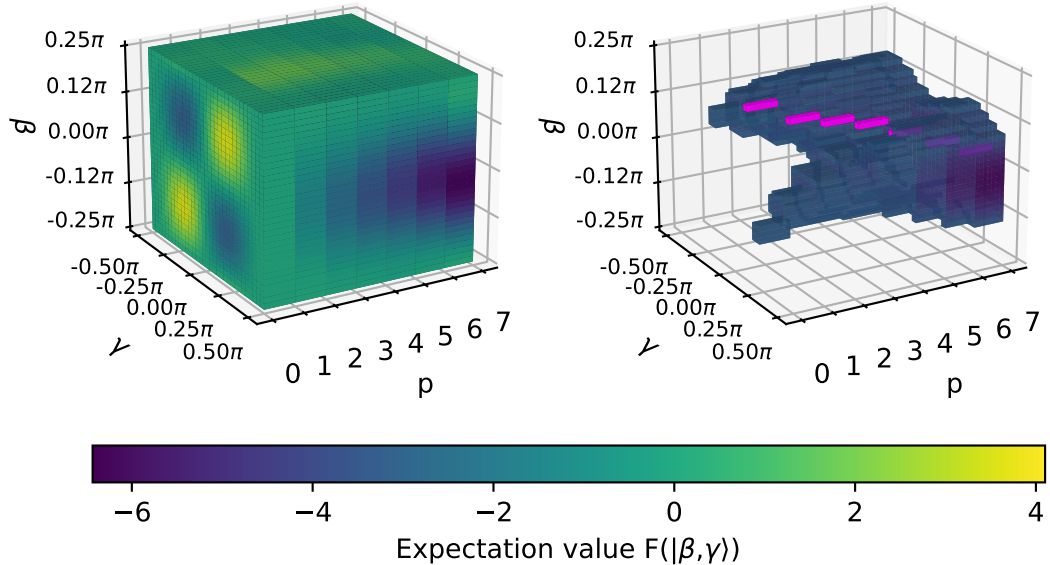 Expectation Values for QAOA with increasing p for a 12 qubit problem instance, parameters optimized using the COBYLA method

Expectation value F($|\beta,\gamma\rangle$)

Best β: [-0.6291818963615236, -0.5376923783719708, -0.4742826247959774, -0.4270581637744166, -0.33320321438953154, -0.20731273581737542, -0.12667712312862067]

Best γ: [0.32448644846280233, 0.6547536356023158, 0.7620345061519331, 0.828828331579688, 0.8938179422138881, 1.1322371376260671, 1.266771231286207]