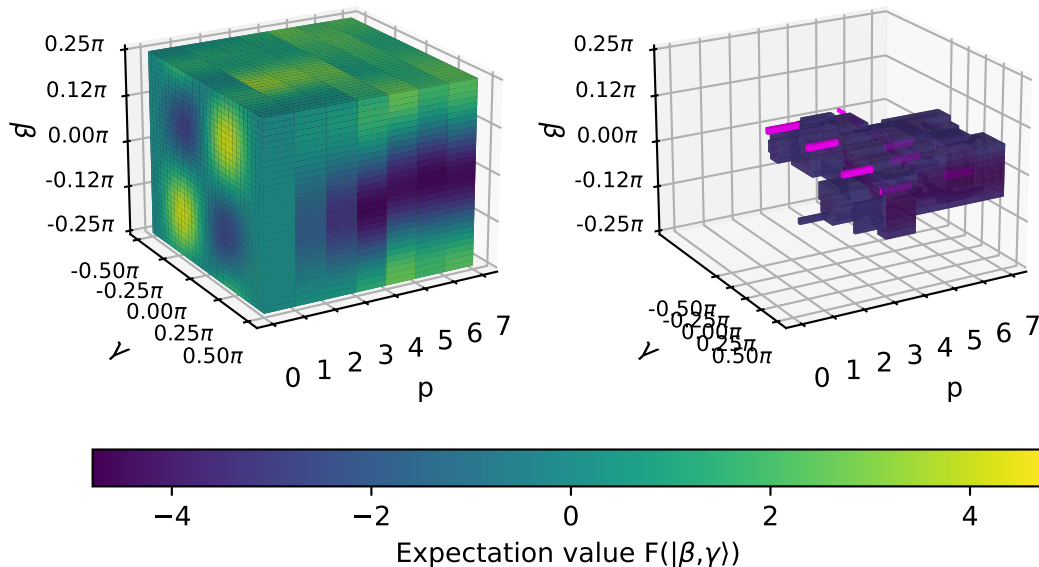# Expectation Values for QAOA with increasing p for a 12 qubit problem instance, parameters optimized using the COBYLA method

Expectation value F(|β,γ⟩)

Best β: [-0.5497224010610194, -0.41570240258659263, -0.19362473450422232, -0.019808568300150087, -0.10355987850101993, -0.03231438119975762, 0.12667712312862067]
Best γ: [0.3691621539669957, 0.7598668659779789, 0.9776729539151715, 1.3286375803816262, 0.30742893124494536, 1.9381013787874166, 0.1520125477543448]