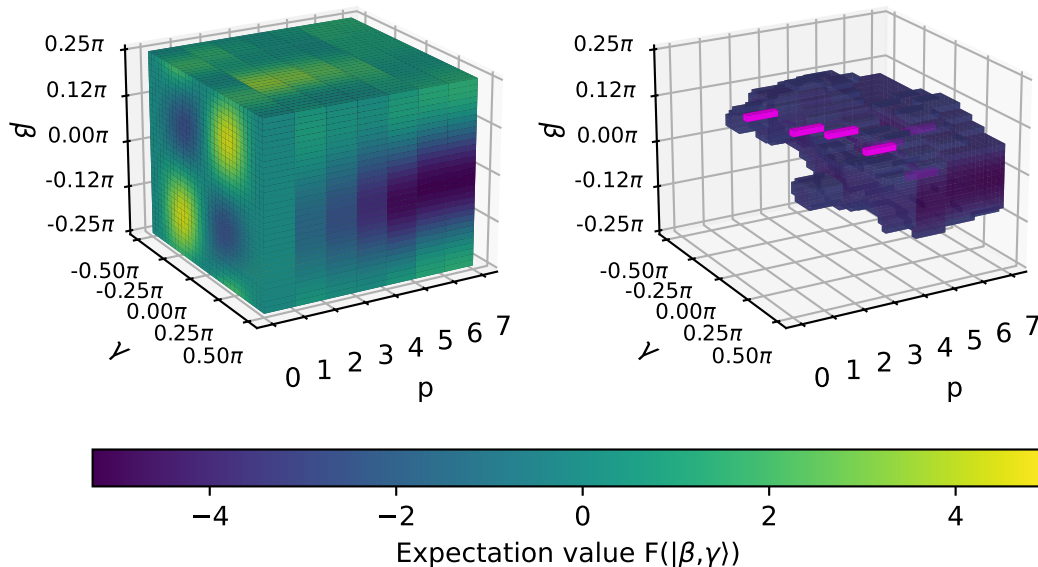Expectation Values for QAOA with increasing p for a 12 qubit problem instance, parameters optimized using the COBYLA method

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

Best β: [-0.5764799433281117, -0.4855427763810747, -0.39973108232534965, -0.2627906292564225, -0.09121234910437406, 0.0025190341546154336, -0.0760062738771724]
Best γ: [0.37295886656185473, 0.7797575797028622, 0.8529769638982393, 1.0363093624730608, 1.3120602690230914, -0.22544689647360186, -0.1520125477543448]