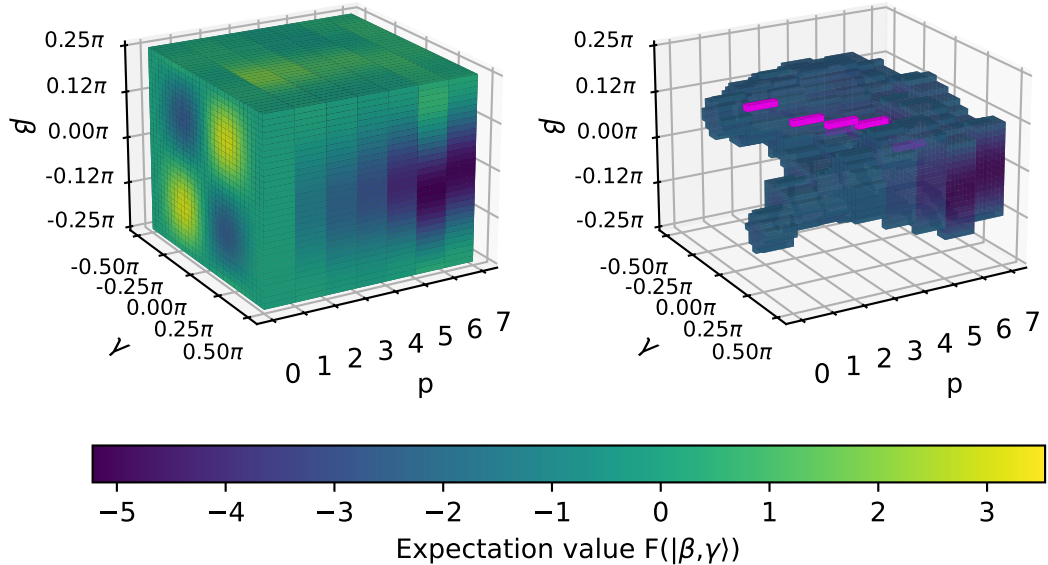**Expectation Values for QAOA with increasing p for a 10 qubit problem instance, parameters optimized using the COBYLA method**

Best β: [-0.596310344108451, -0.5210359200010016, -0.4847968918466101, -0.3969224278663653, -0.20173190386459178, 0.18886339268908842, 0.0760062738771724] ${\bf \: \gamma}}$: [0.3528231227193028, 0.6952333106418691, 0.797650023070837, 0.8178797624155..., 1.0786430189277363, -1.5629084105363131, -0.9627461357775172]