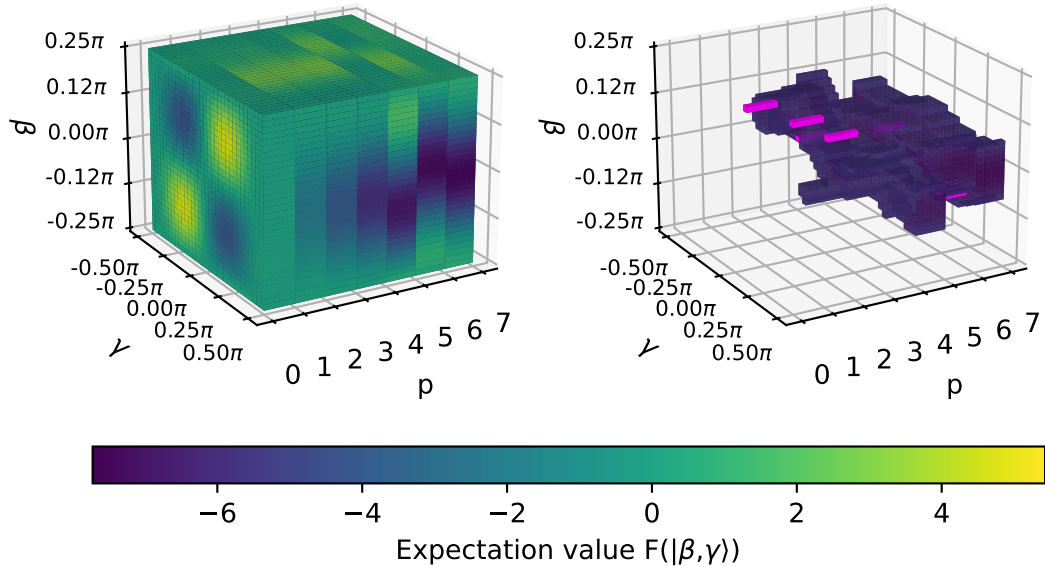


# Expectation Values for QAOA with increasing p for a 16 qubit problem instance, parameters optimized using the COBYLA method



**Best  $\beta$ :** [-0.6096480928369525, -0.49989333659635604, -0.3713473721614393, -0.035480651295674466, 0.20528972814890722, 0.1848123738564921, 0.0760062738771724]  $\{\backslash \backslash \gamma\}$   
**Best  $\gamma$ :** [0.35331334241684037, 0.7039308068641527, 0.8475925871650131, -0.7507962603500751, -1.3730810017960065, 1.2839302396947398, -0.9627461357775172]