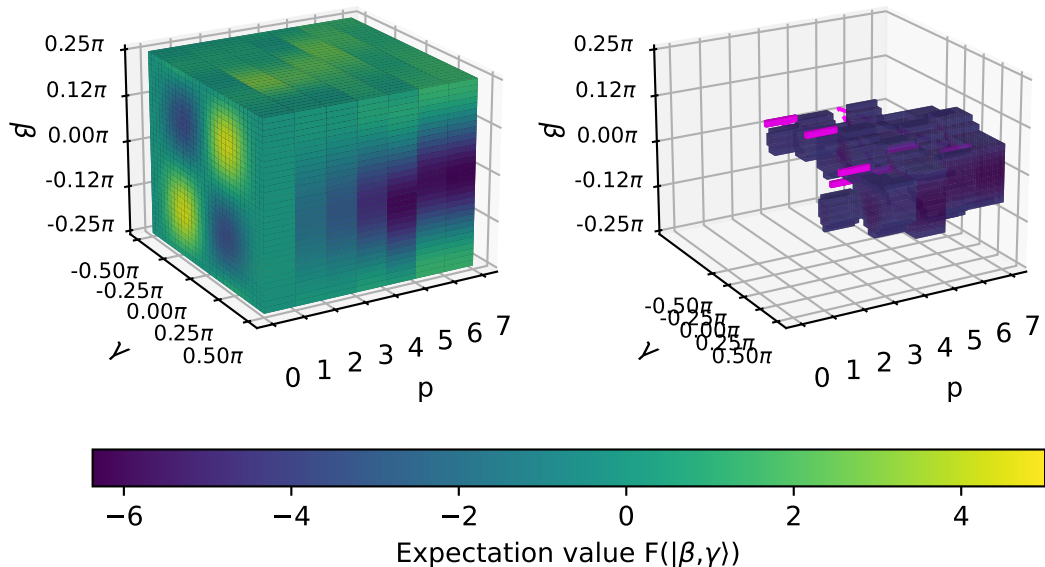


# Expectation Values for QAOA with increasing p for a 14 qubit problem instance, parameters optimized using the COBYLA method



**Best  $\beta$ :**  $[-0.5935087694799079, -0.5363817877628976, -0.16344012015761647, 0.1952423653974634, 0.10407711363619081, -0.04434431839748392, -0.0760062738771724]$   $\{\backslash\bf\backslash: \backslash\gamma\}\}$   
**Best  $\gamma$ :**  $[0.3706311451028059, 0.7527062416249363, 0.7867094878203237, -0.972290987801, -0.8334577399366445, 2.2964456237030375, 0.1520125477543448]$