- ➢ **Qiskit Aer: Pulse simulation of a backend model**

- ➢ **Imports**

- ➢ **Construct model from backend**

- ➢ **Instantiate mock backend**

- ➢ **Manually override Hamiltonian parameters**

- ➢ **Generate model from backend**

- ➢ **Run Rabi experiments and fit π-pulse amplitude**

- ➢ **First, construct Rabi experiment schedules:**

- ➢ **Run the simulation:**

- ➢ **Generate the Rabi oscillation plot and find the π-pulse amplitude:**