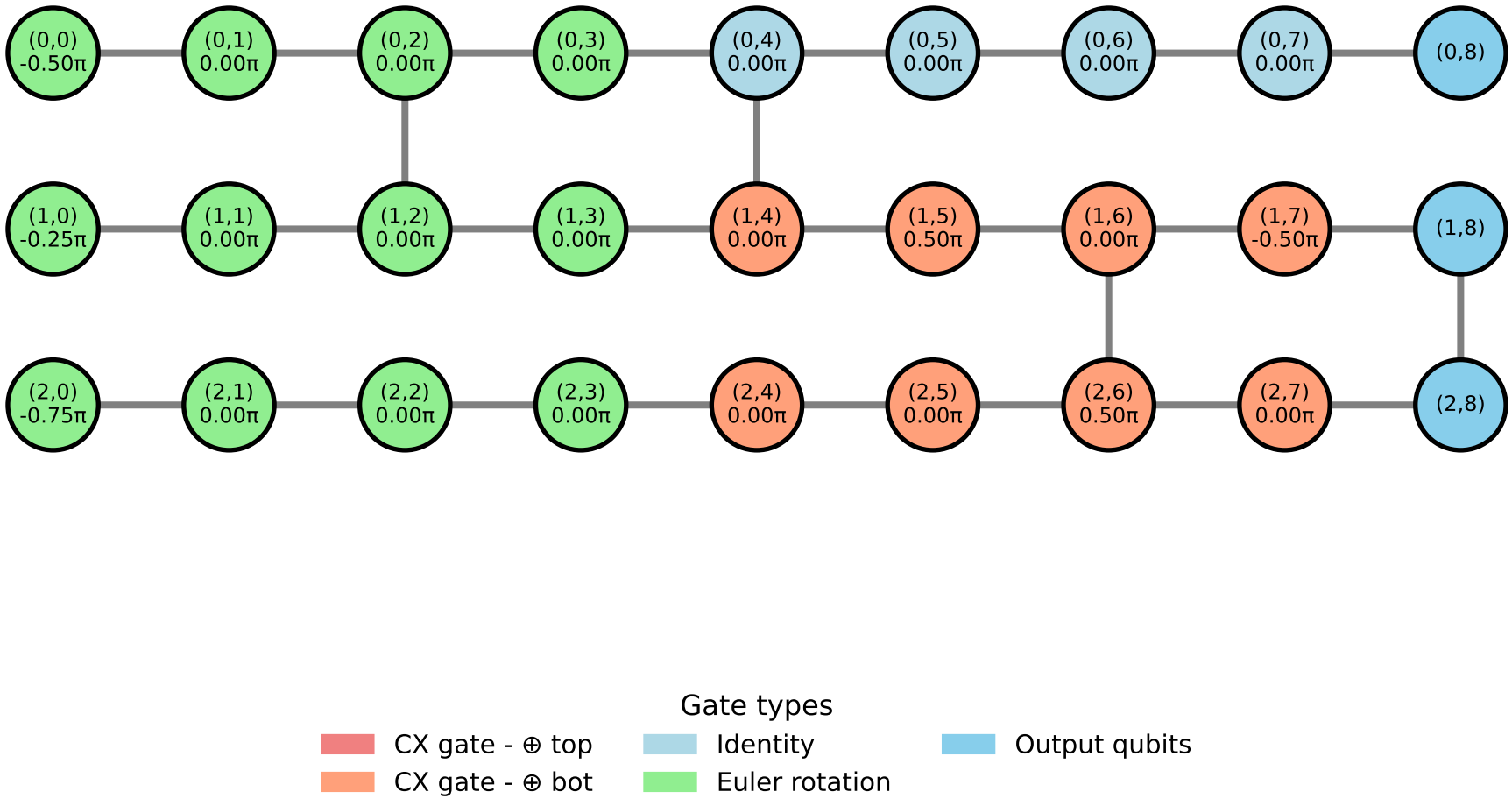Brickwork_Graph_test_system_shift