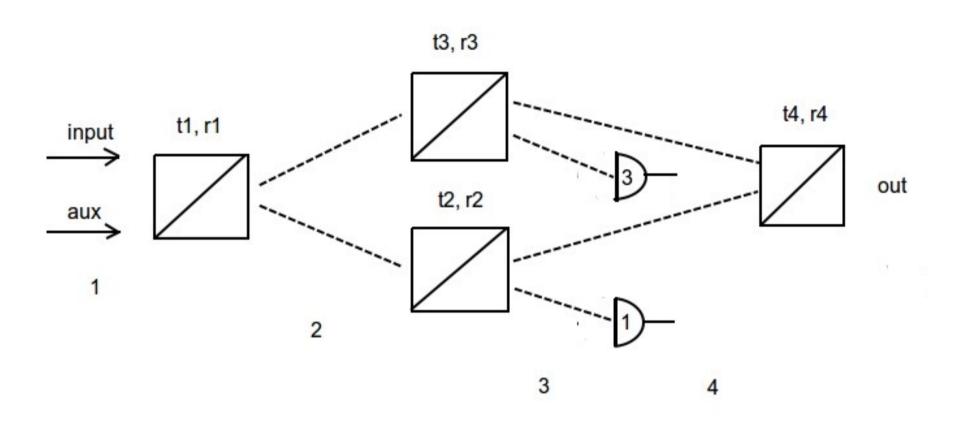
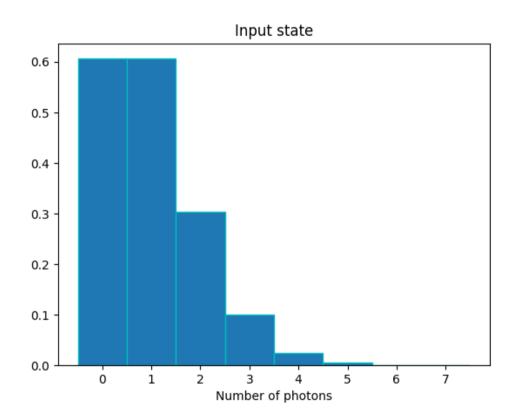
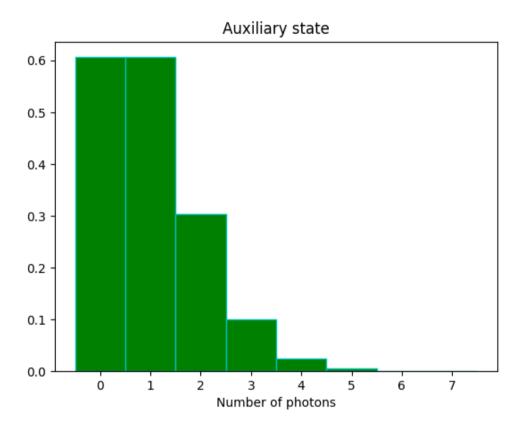
Setup.

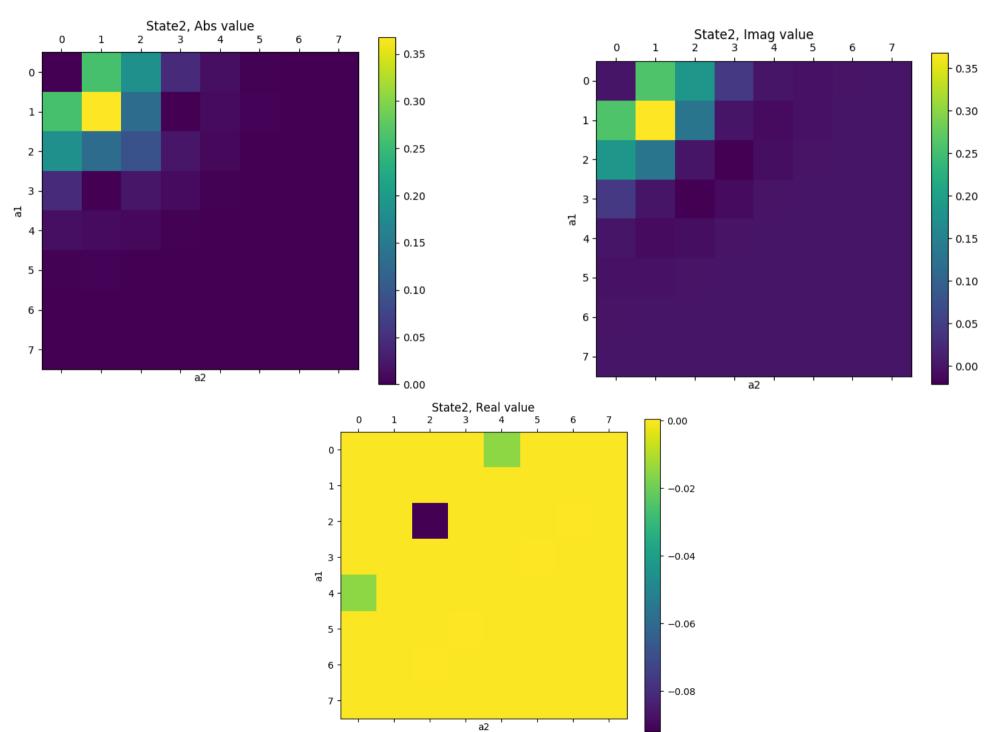


1) Input — coherent state. Aux — coherent state.

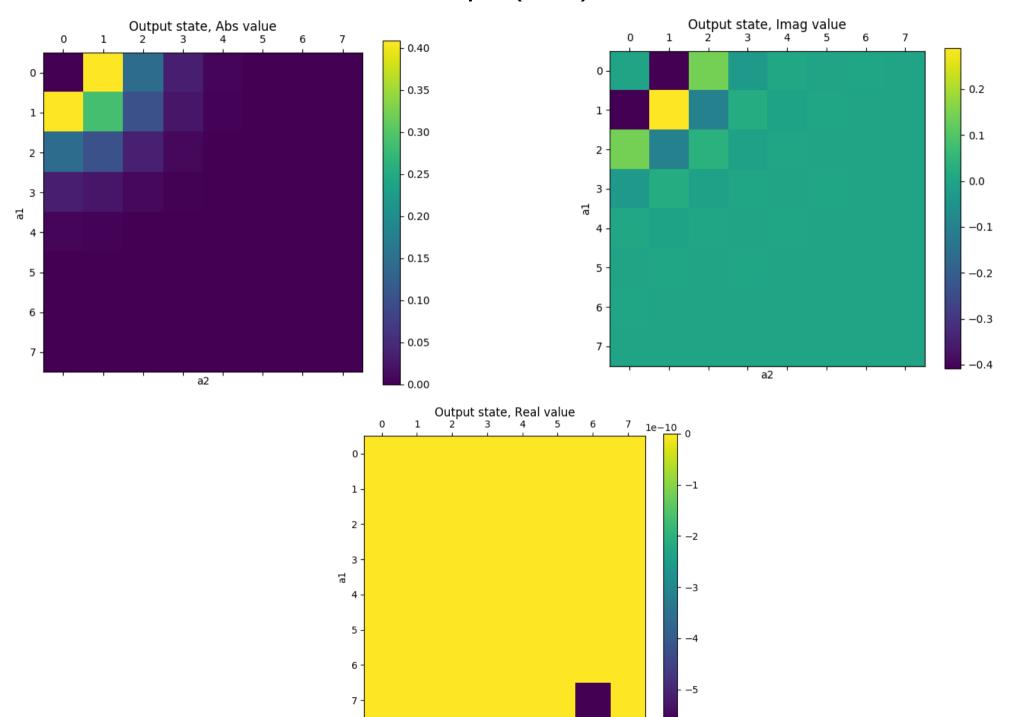




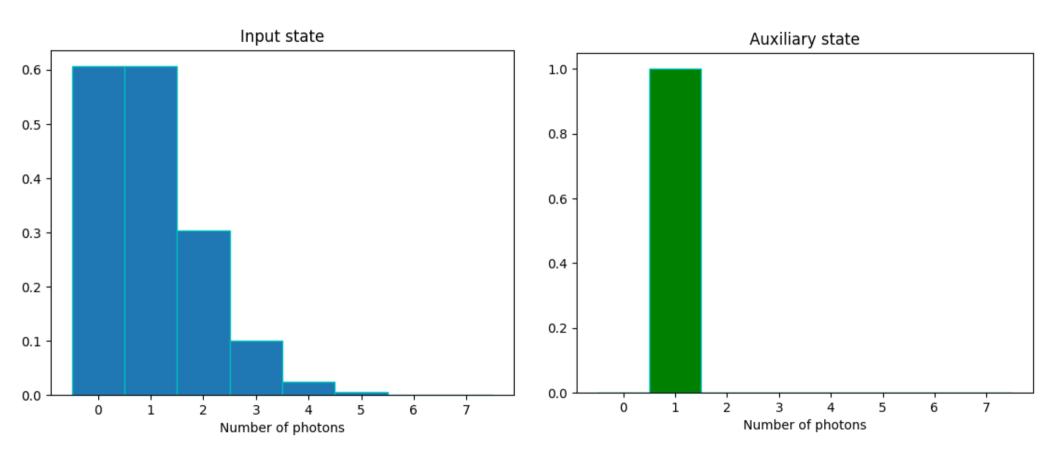
State in area2.



Output(final) state.



2) Input — coherent state. Aux — single photon.



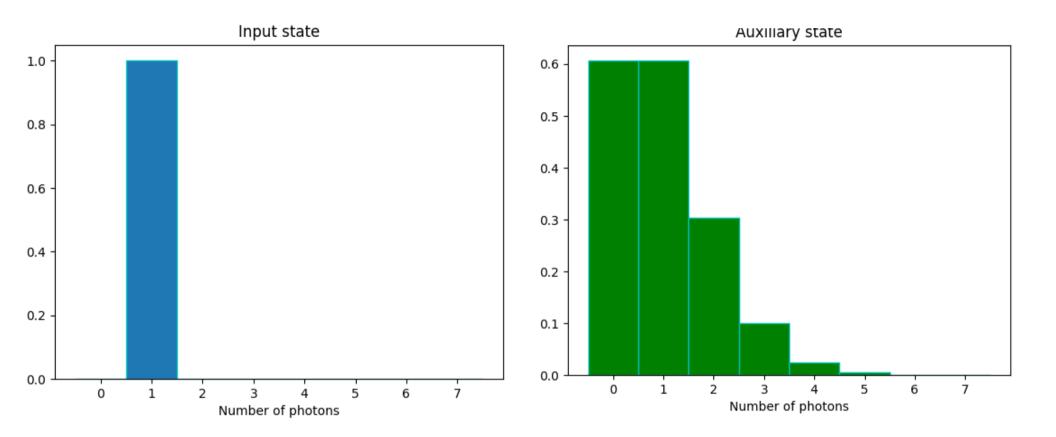
State in area2. State2, Abs value State2, Real value 1 6 7 1 7 6 0.4 0 -0.40 0 -1 -0.35 1 -- 0.3 0.30 2 -2 -- 0.25 3 -- 0.2 3 -0.20 4 -- 0.1 - 0.15 5 -5 -- 0.10 6 -6 -- 0.0 - 0.05 7 -7 -0.00 a2 a2 State2, Imag value 2 3 4 5 1 6 0.4 0 -1 -- 0.3 2 -3 -- 0.2 4 -5 -0.1 6 -7 -

Output(final) state. Output state, Abs value Output state, Imag value 0 1 0 -0 -0.1 0.4 1 -1 -0.0 2 -2 · - 0.3 - -0.1 3 -3 4 -4 - -0.2 - 0.2 5 -5 -- -0.3 6 -- 0.1 6 - -0.4 7 -7 a2 a2 Output state, Real value 2 3 4 5 0.000000 -0.0000051 -- -0.000010 2 - -0.000015 3 - -0.000020 - -0.000025 5 6 - -0.000030

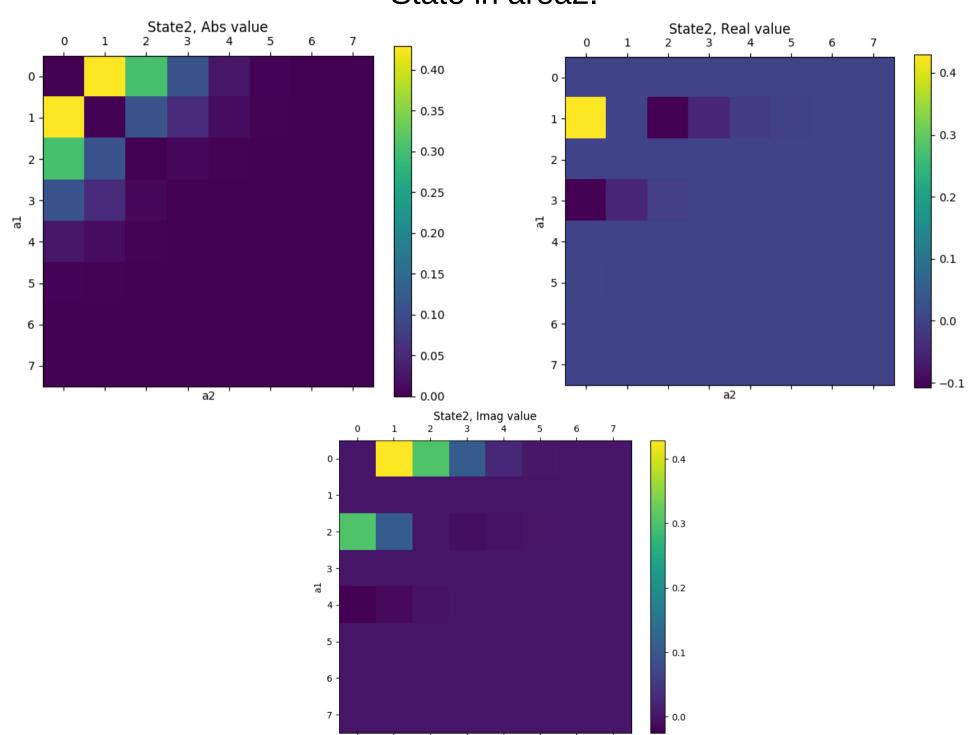
-0.000035

7 -

3) Aux — single photon. Input — coherent state.



State in area2.



Output(final) state.

