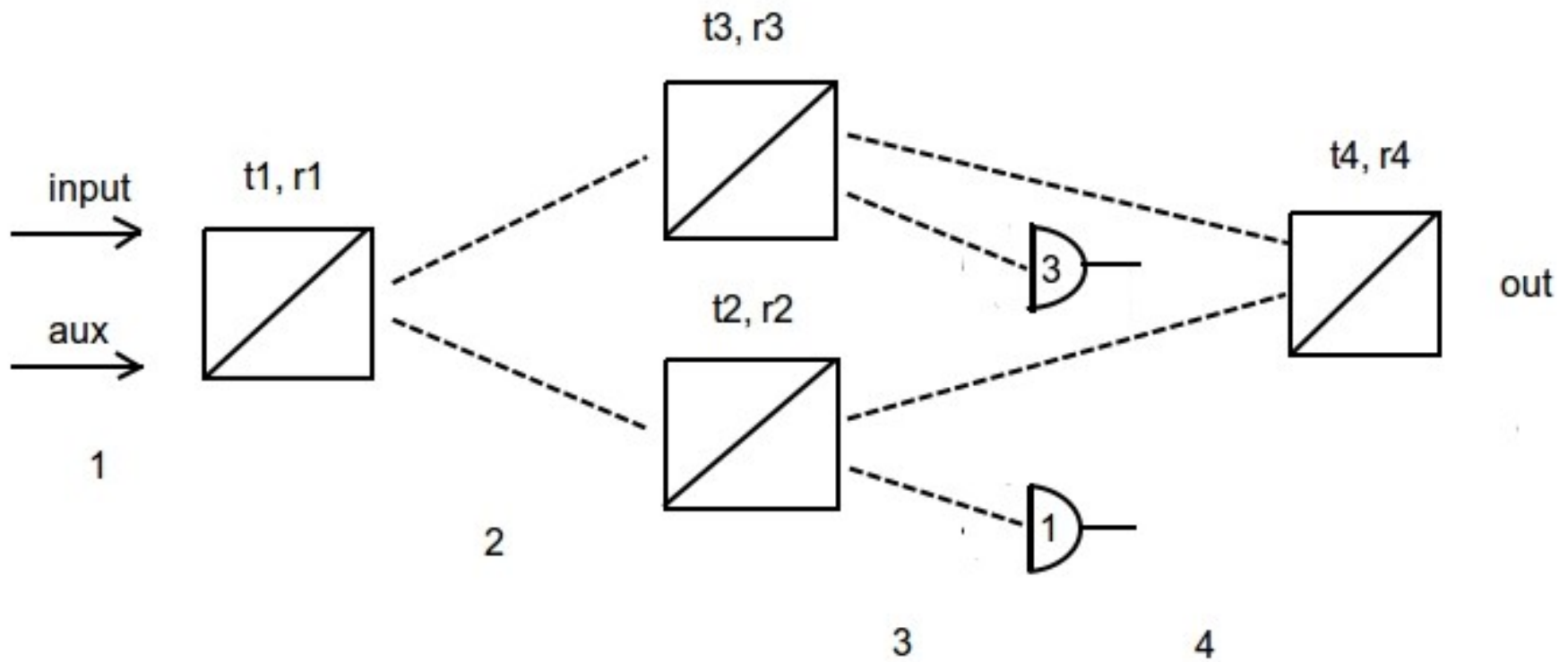
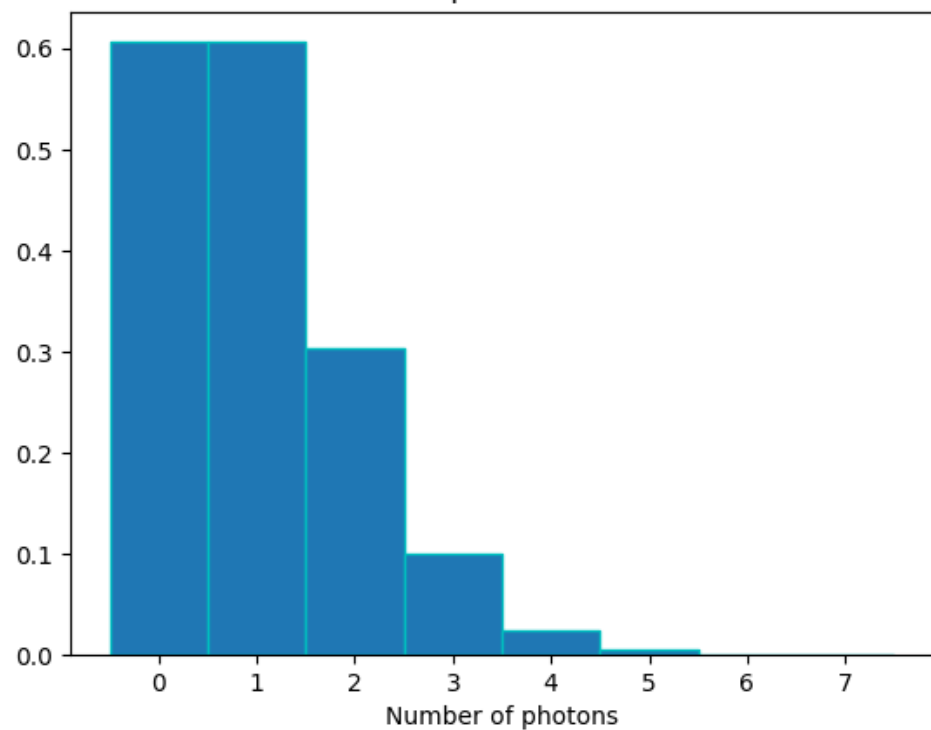


Setup.

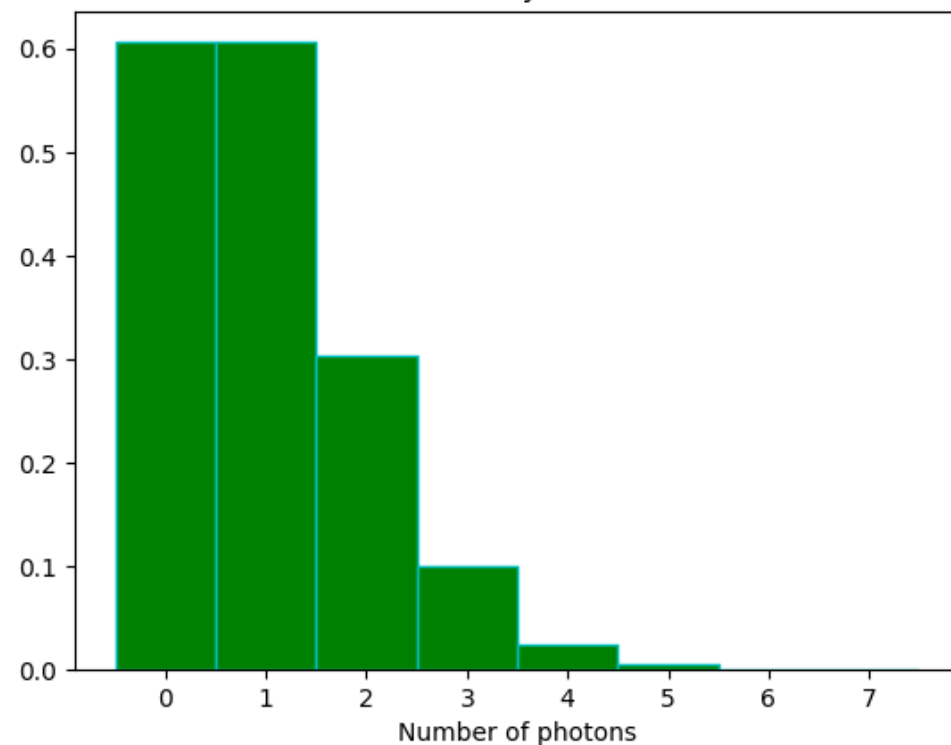


1) Input — coherent state. Aux — coherent state.

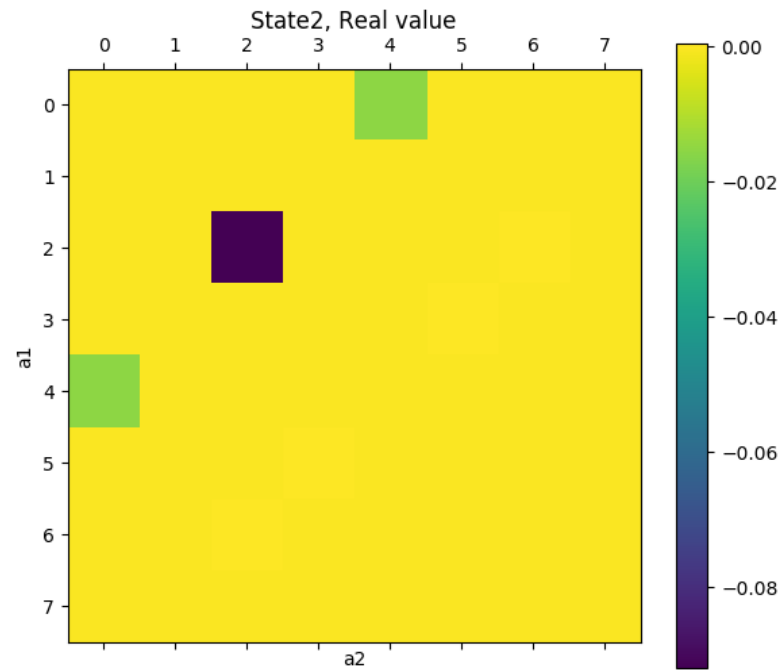
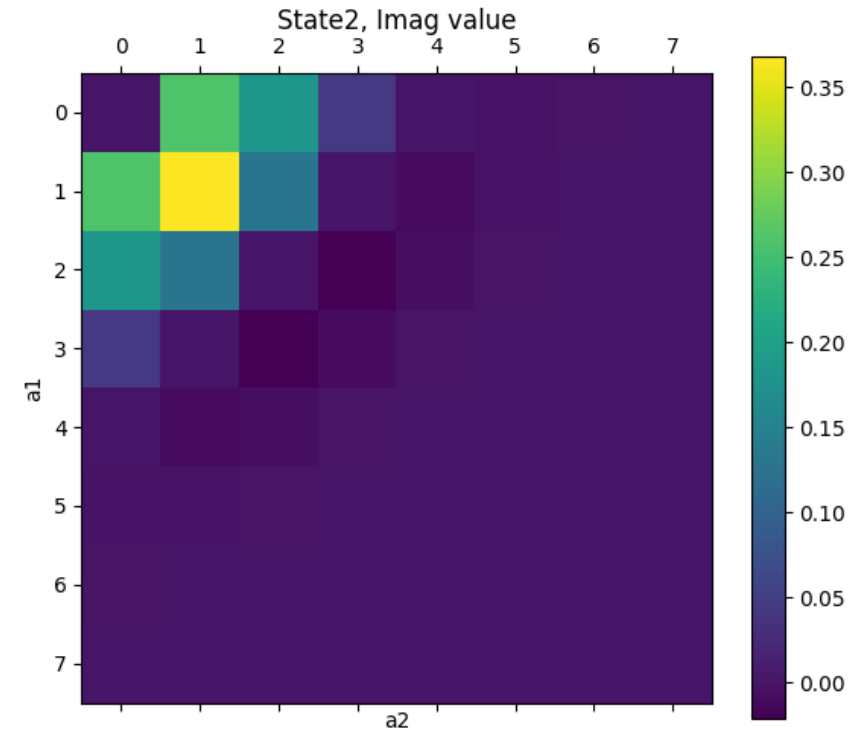
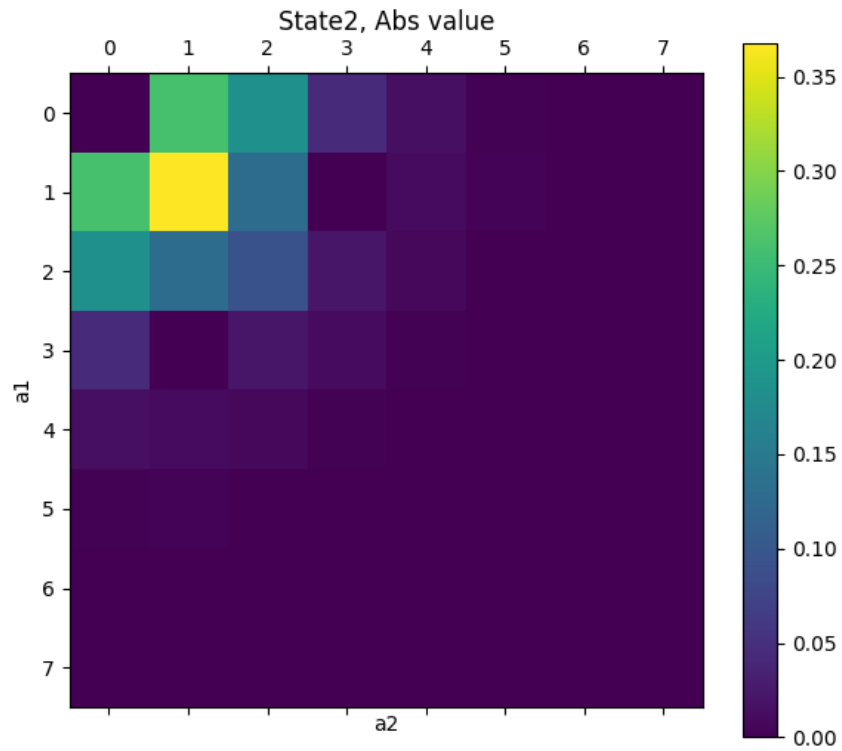
Input state



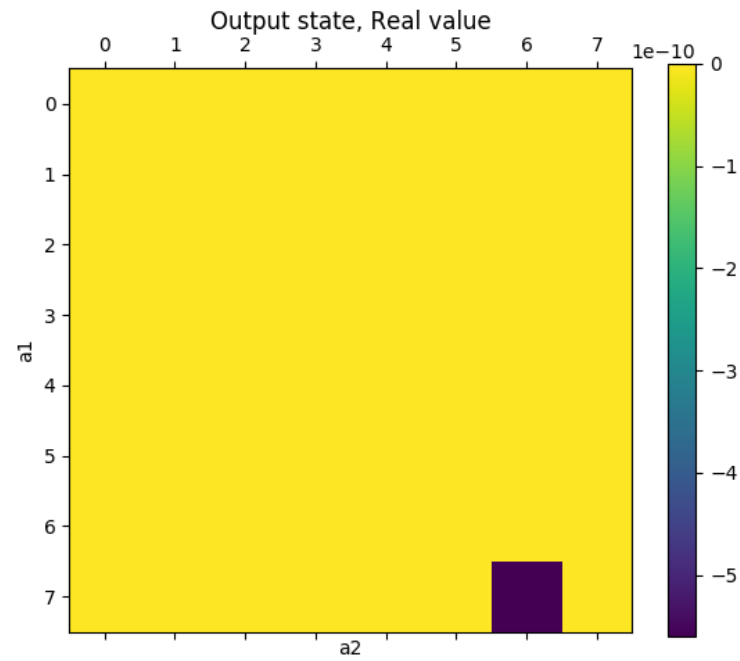
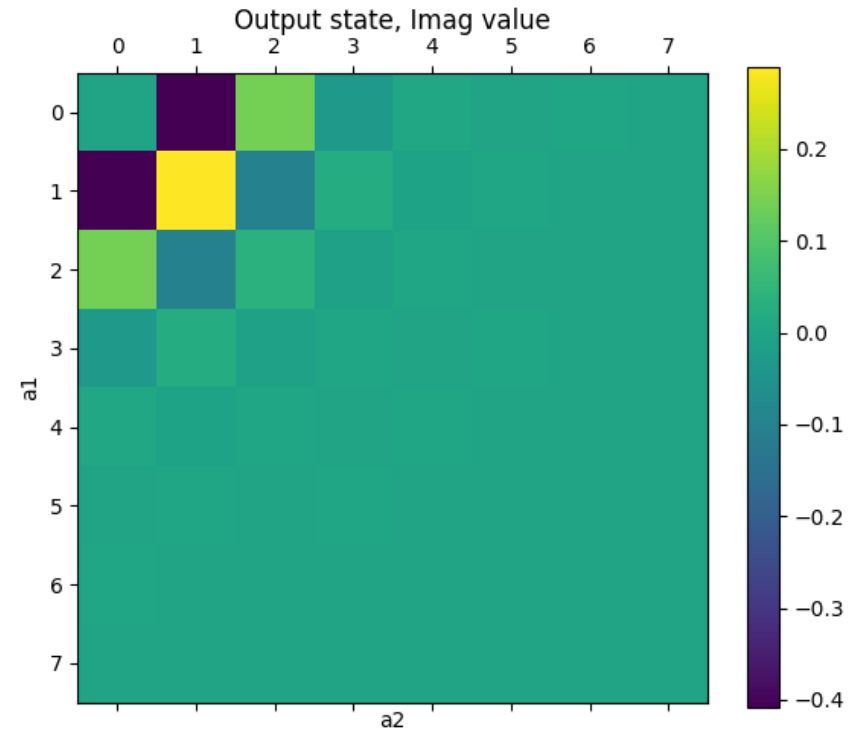
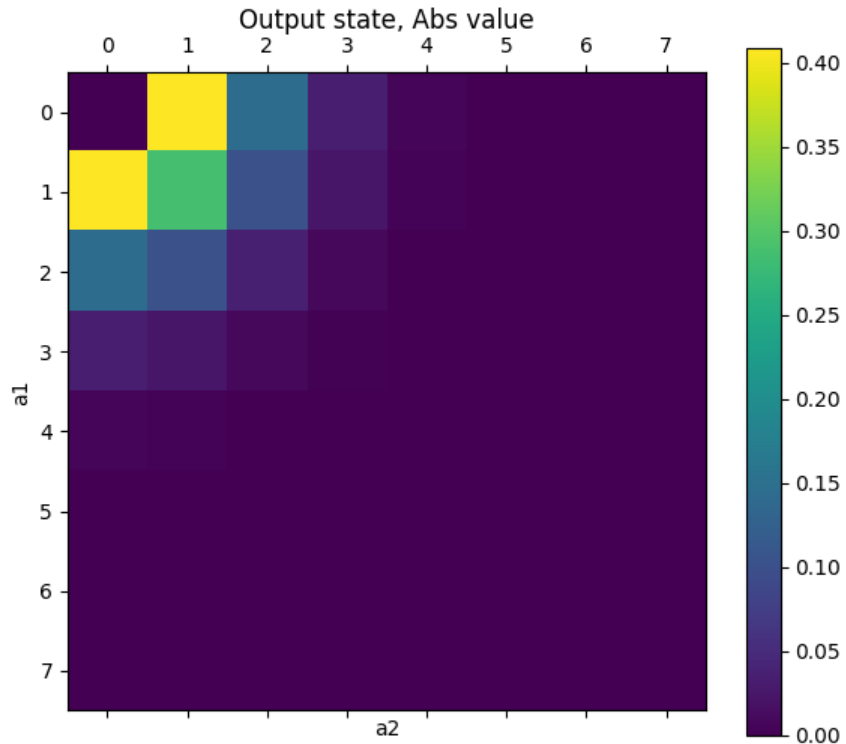
Auxiliary state



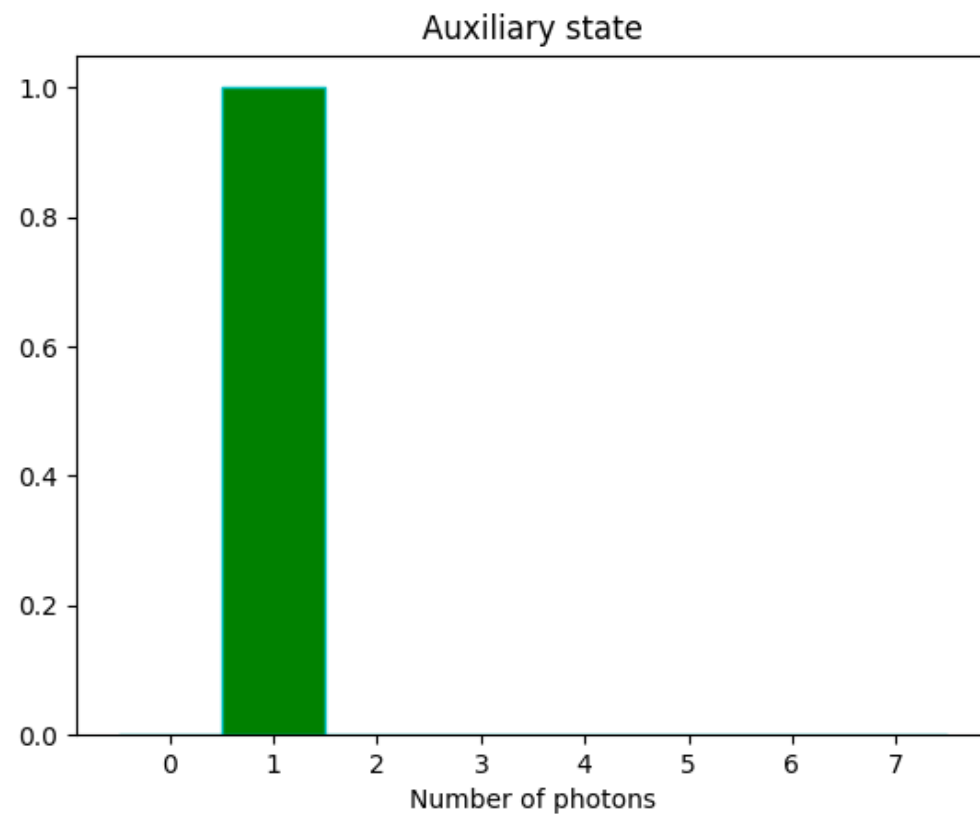
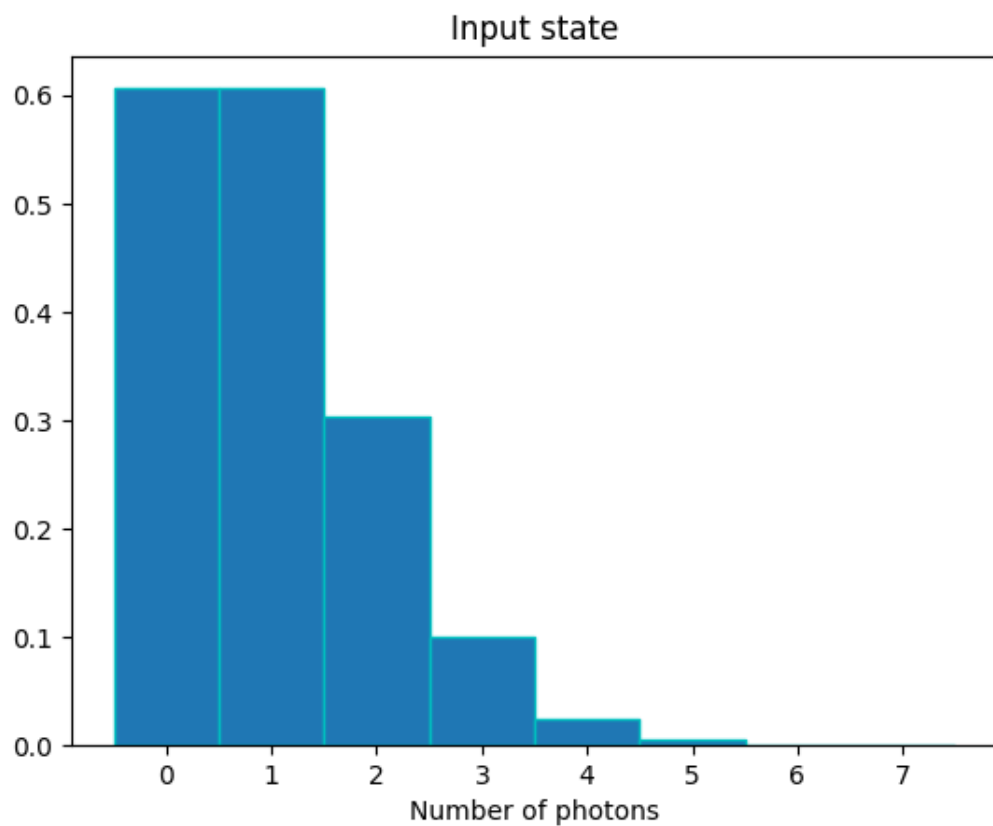
State in area2.



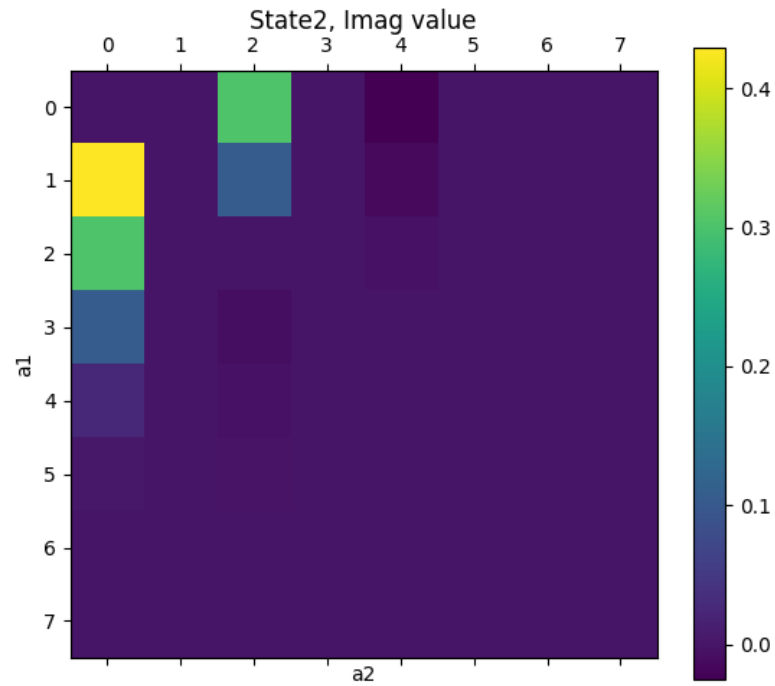
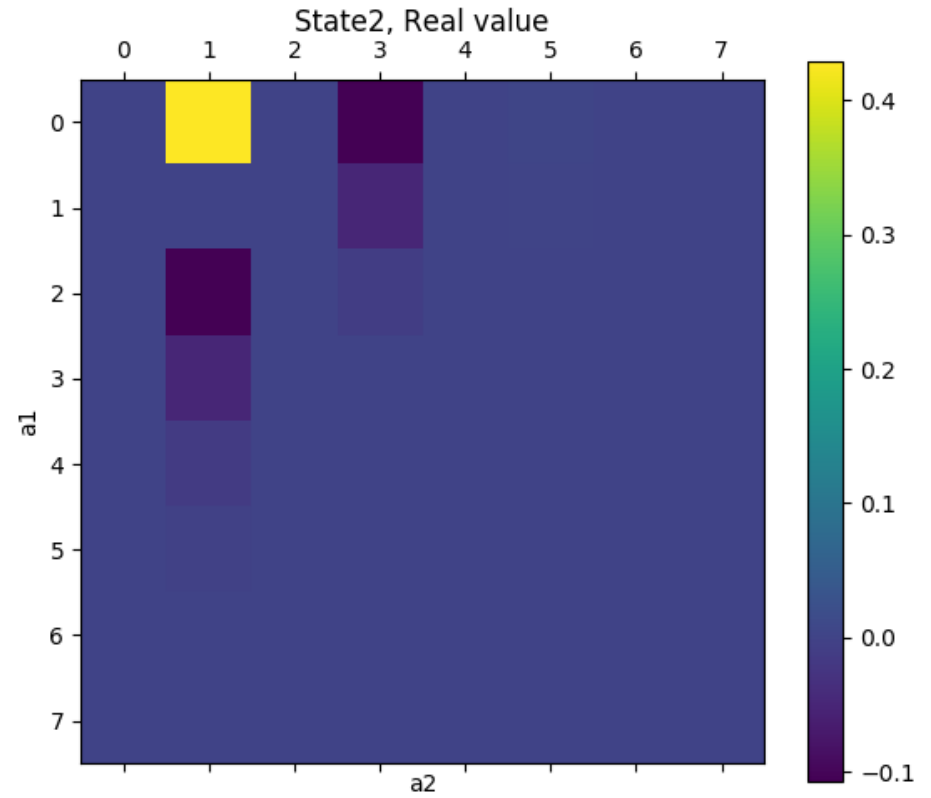
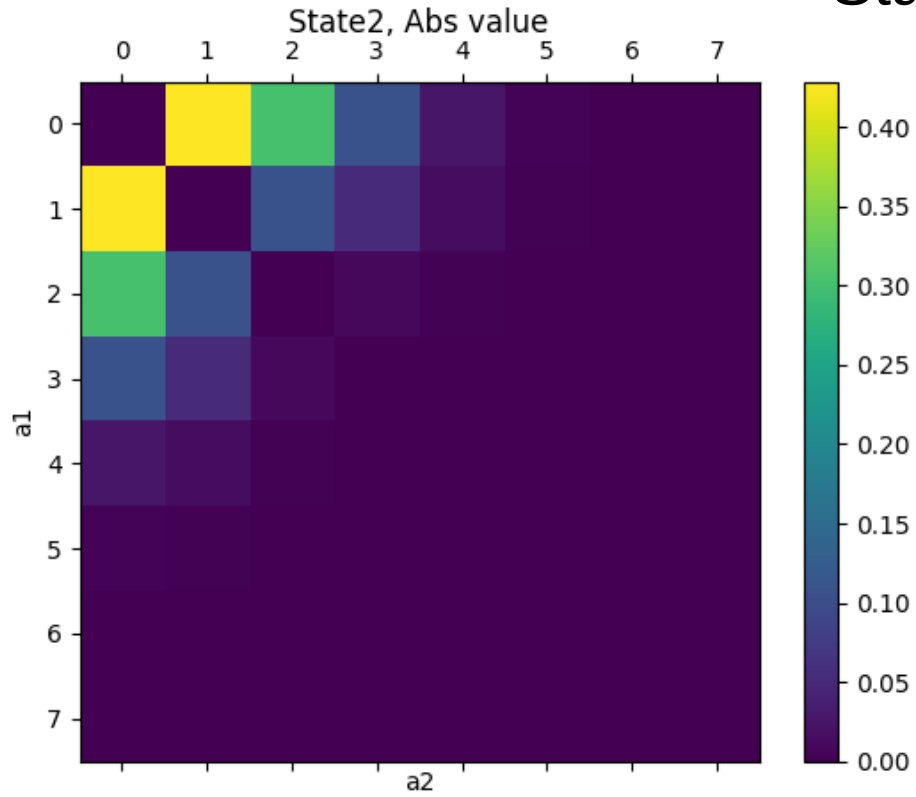
Output(final) state.



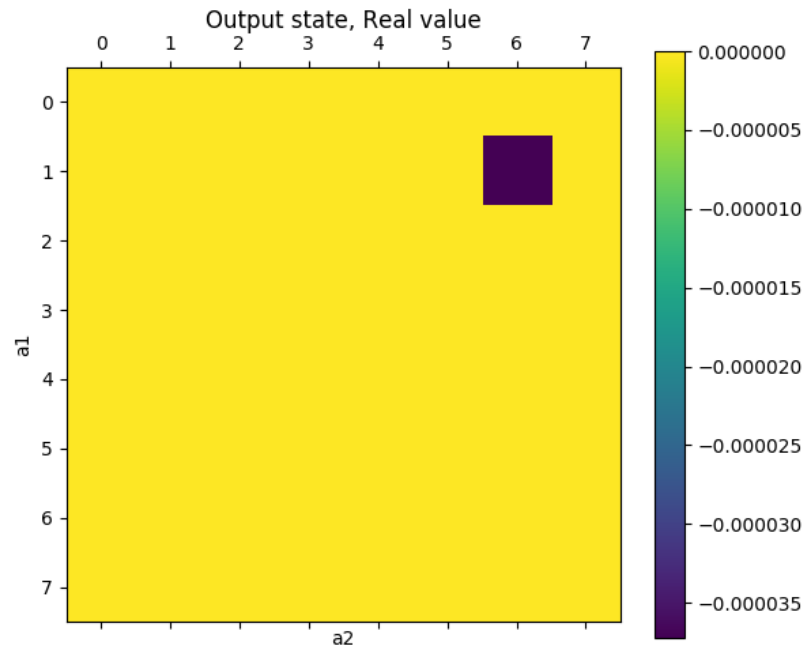
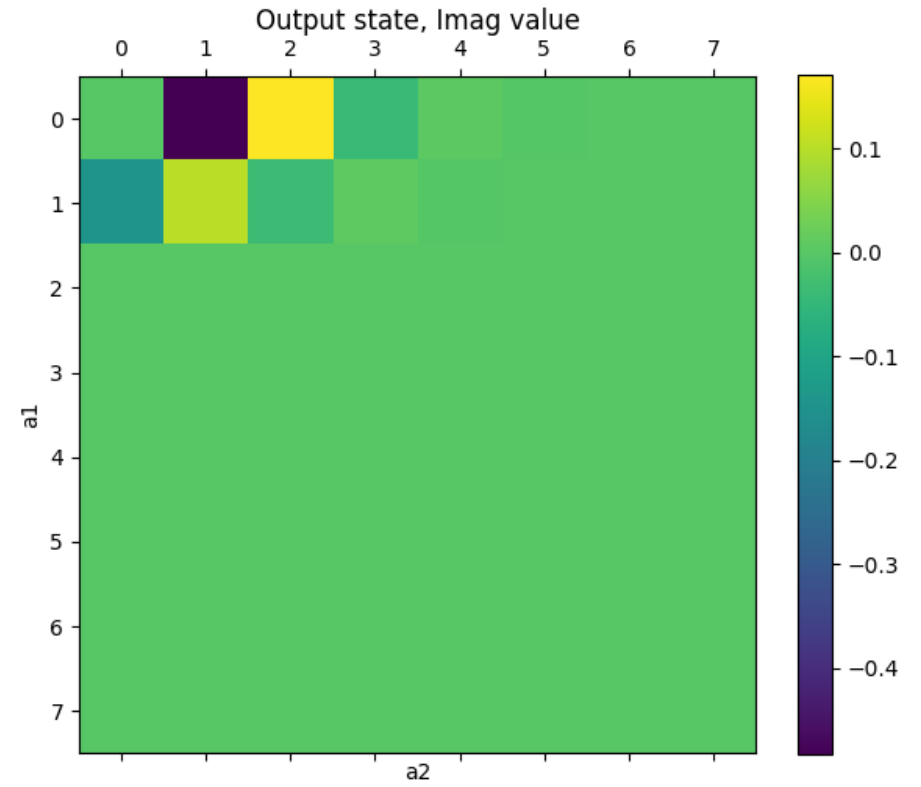
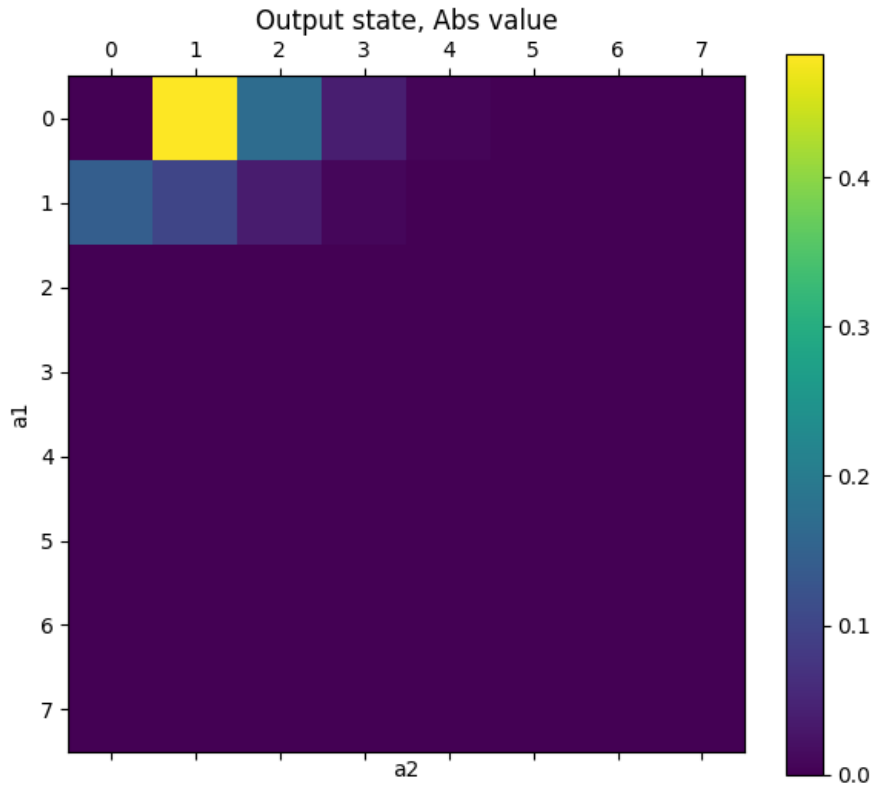
2) Input — coherent state. Aux — single photon.



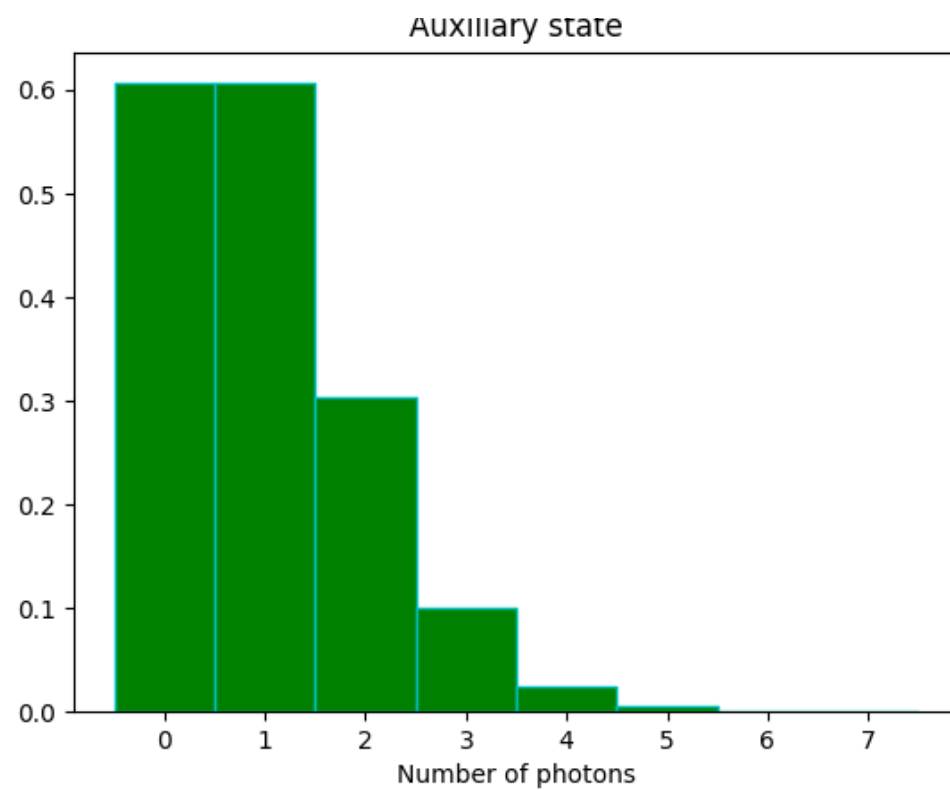
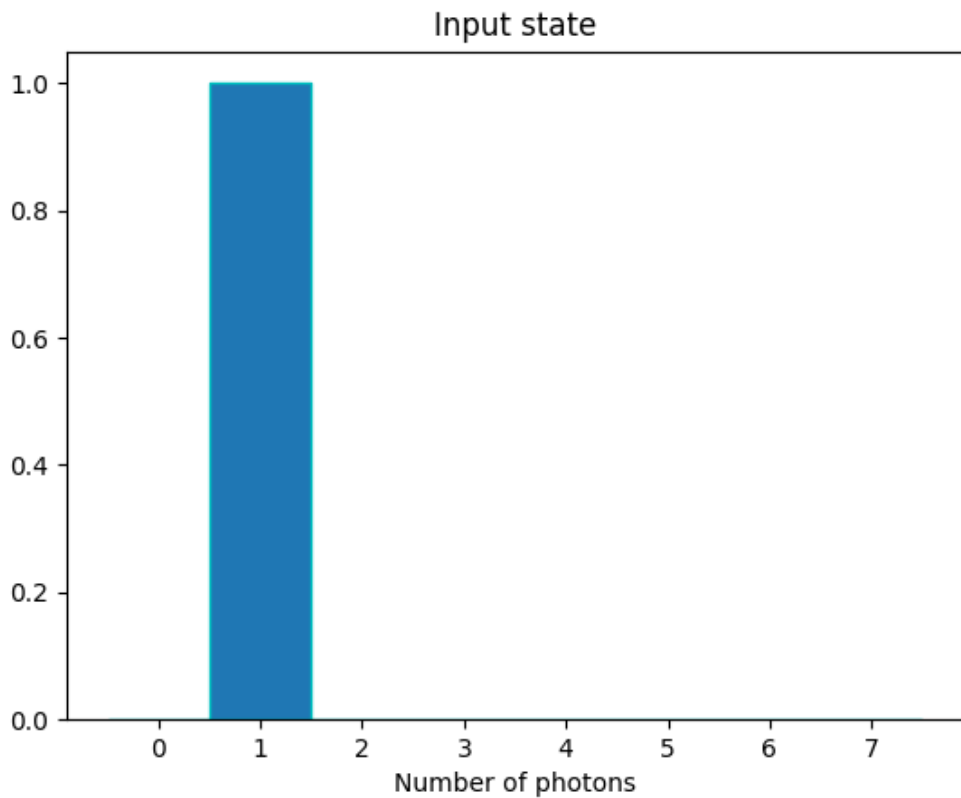
State in area2.



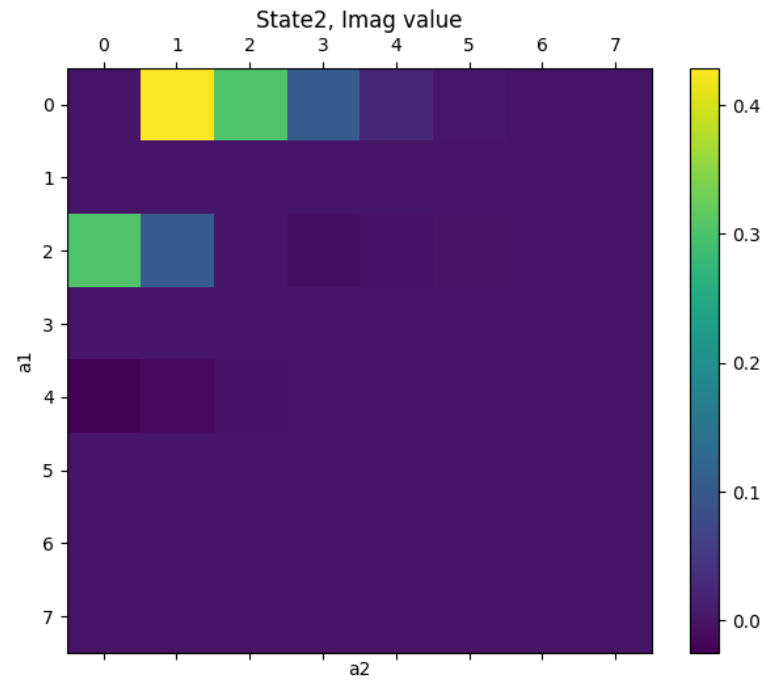
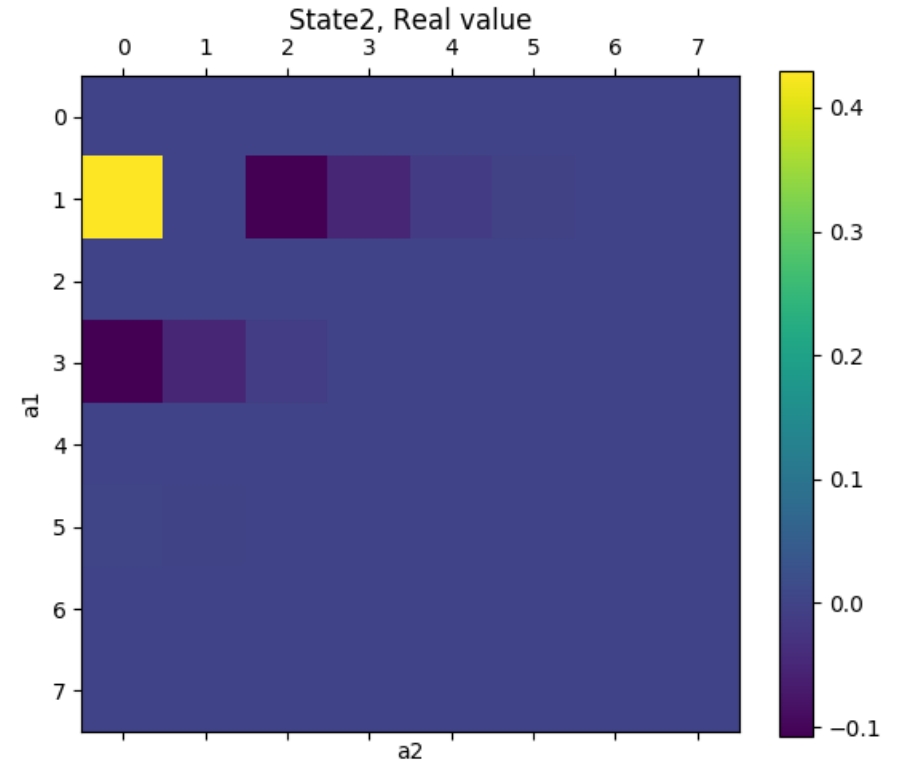
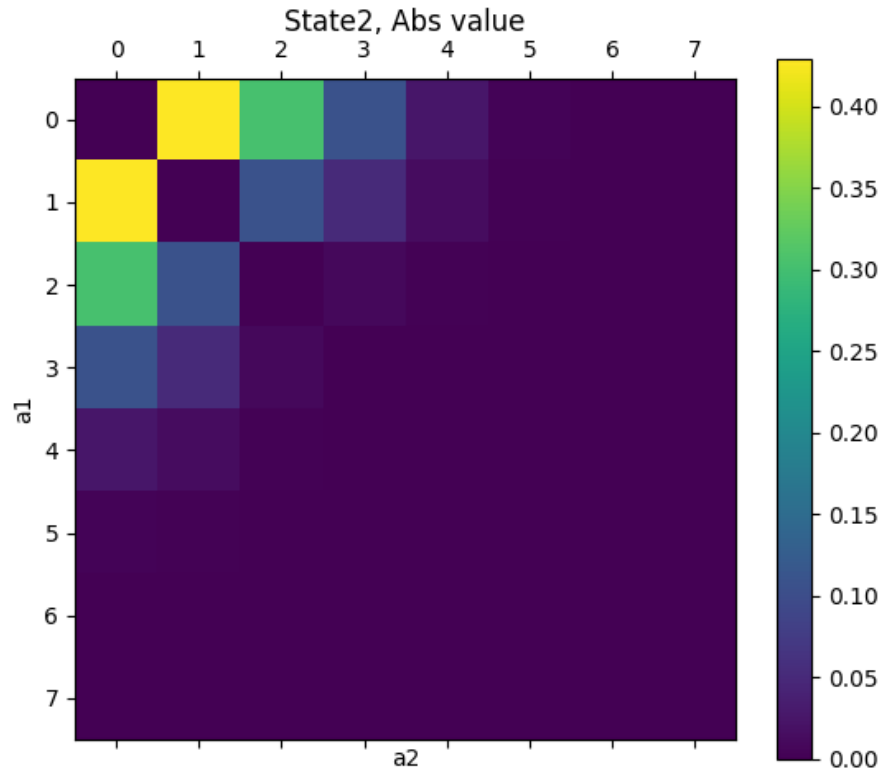
Output(final) state.



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



State in area2.



Output(final) state.

