

Data Description

I. “Raw data”

The raw data of this experiments are measurements used for tomography; due to the hardness to interpret the data, the tomography results are directly provided.

rhos12 / rhos14 / rhos16 : contains tomography result; for instance, `rhos16(1,,:)` gives the 4-qubit density matrix of subsystem (q0,q1,q2,q3).

rhos_boot_8 ~ rhos_boot_16 : tomography matrix created from bootstrapped data; for instance, `rhos_boot_16(1,100,,:)` gives the 100-th resample of the 4-qubit density matrix of subsystem (q0,q1,q2,q3).

calibration.txt : calibration information of the quantum device at the time of the 16-qubit experiment.

II. Data for Fig. 7 8 9 11 12

negativity_8 ~ negativity_16 : negativities shown in Fig. 7-9, 11-12.

error_bar_8 ~ error_bar_16 : negativities calculated from bootstrapped data; used to estimate confidence intervals in Fig. 7-9, 11-12.