1 intra\_detector\_coupling\_noise\_bool 2 inter\_detecter\_coupling\_noise\_bool 3 Continue\_Simulation 4 Energy\_window

5 detector\_only 6 Detector\_Continue\_Simulation 7 Random\_bright\_state (0 means false, 1 means true)

1 intra\_detector\_coupling\_noise 2 inter\_detector\_coupling\_noise 3 energy\_window 4 initial\_energy

5 noise\_strength 6 Rmax 7 V\_intra 8 detector\_energy\_window **9 detector\_lower\_bright\_state\_energy\_window\_shrink** 10 state space distance for nearby state 11 Energy\_Range\_4\_point\_corre\_function\_average

12 Distance\_Range\_4\_point\_corre\_function\_average 13 Emin (for Intel MKL) 14 Emax (for Intel MKL)

15 Emin2 16 Emax2 (only compute eigenstate OTOC for energy between Emin2 and Emax2)

delt tstart tmax tprint

tlnum tle[i] xtl ytl

matflag maxdis cutoff cutoff2 kelvin

for each side:

nmodes[i] proptime[i]

mfrequency nmax modtype premodcoup modcoup