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 a\_intra 9 detector\_energy\_window **10 detector\_lower\_bright\_state\_energy\_window\_shrink** 11 coupling\_to\_coordinate0 spin\_down 12 coupling\_to\_coordinate0\_spin\_up

13 coupling\_to\_coordinate1\_spin\_down 14 coupling\_to\_coordinate1\_spin\_up

15 electronic\_state\_coupling\_strength (t in Logan’s note)

delt tstart tmax tprint

tlnum tle[i] xtl ytl

matflag maxdis cutoff cutoff2 kelvin

for each side:

nmodes[i] proptime[i]

# first mode should be electronic state’s energy and nmax must set to 1.

mfrequency nmax modtype premodcoup modcoup