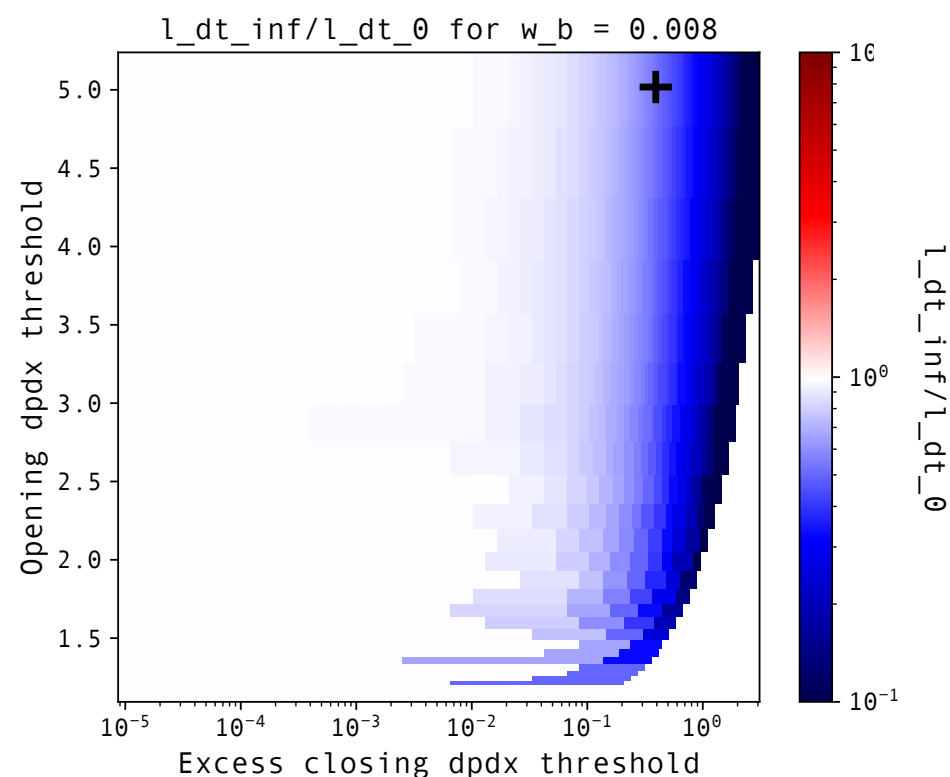
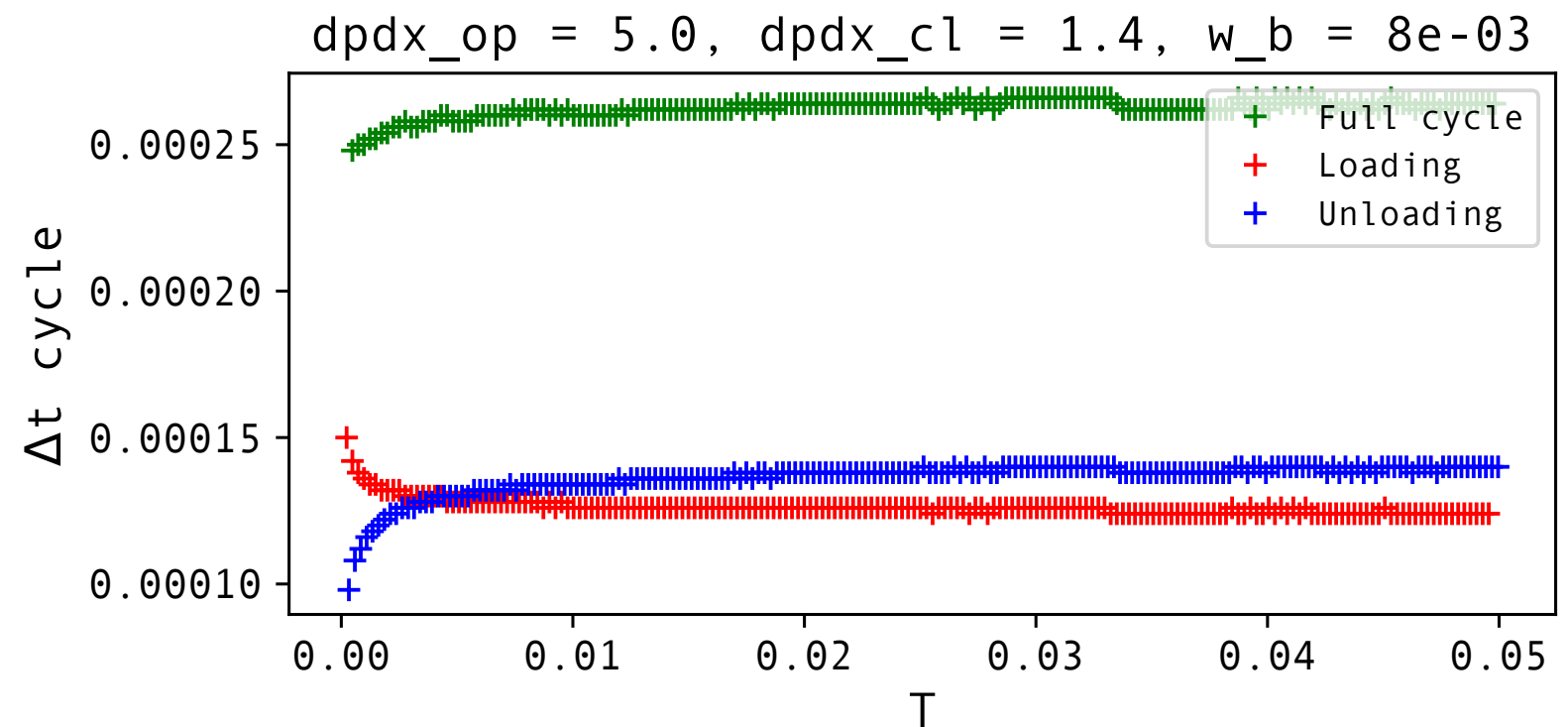
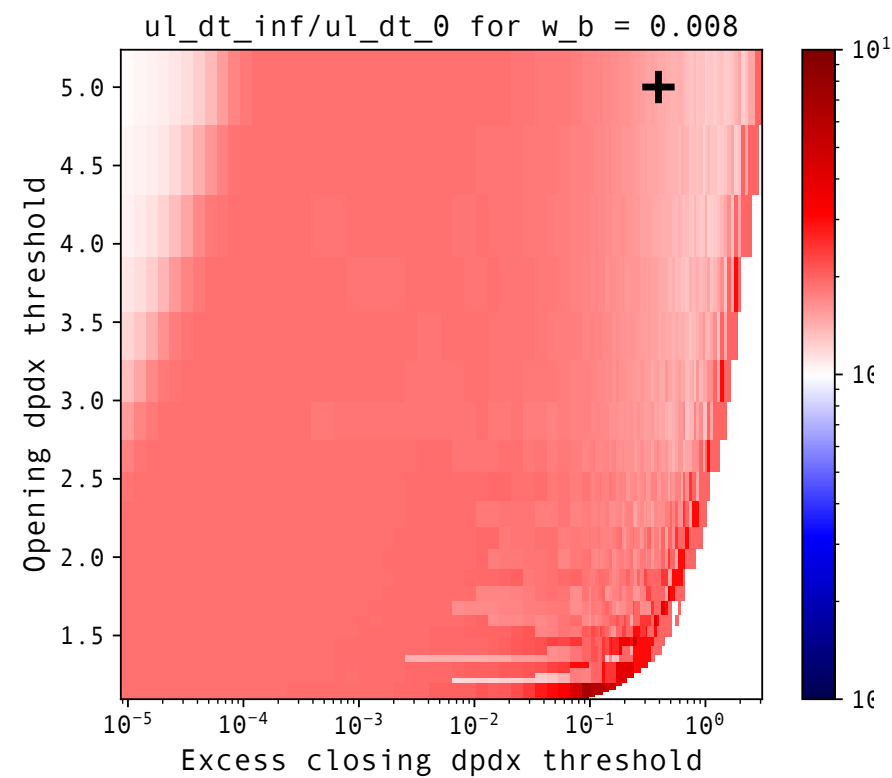


Dynamics of an isolated valve

Q_bound

(b) Results: *time evolution of un-/loading periods*



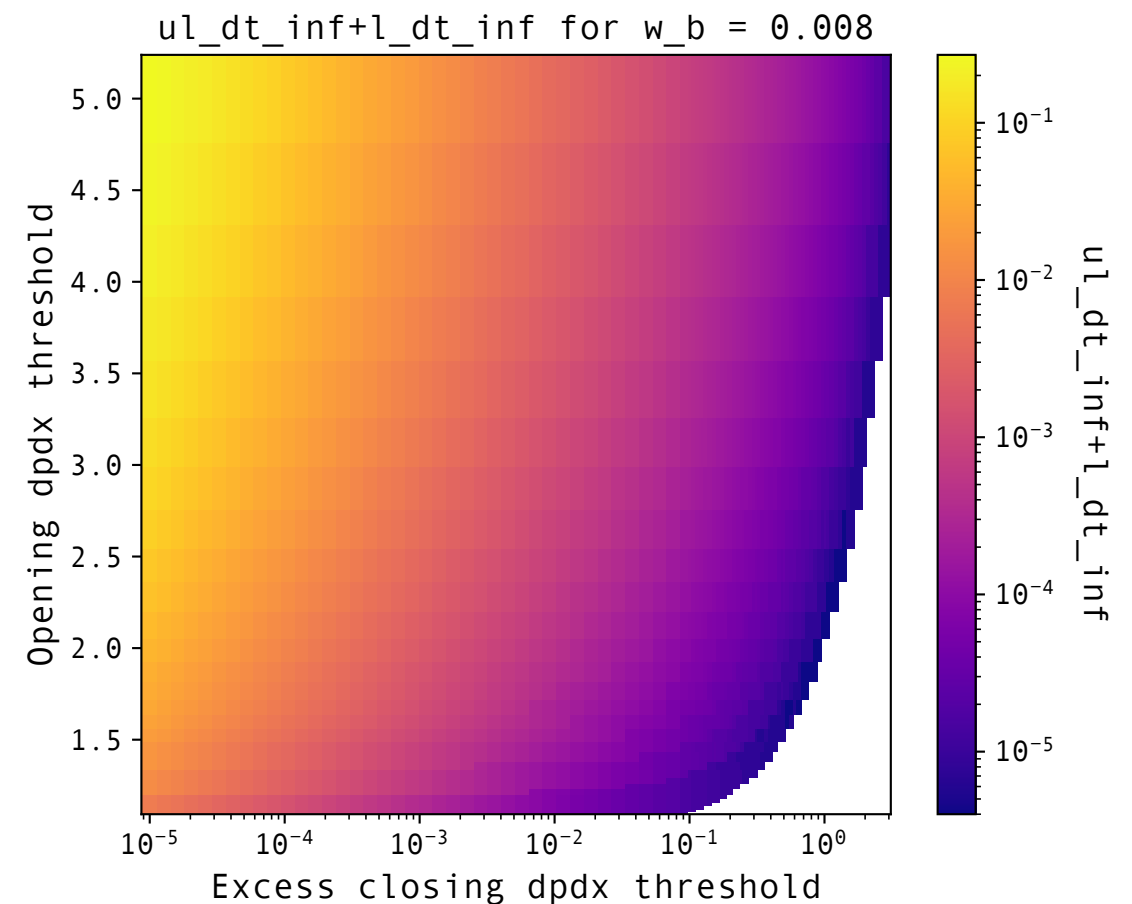
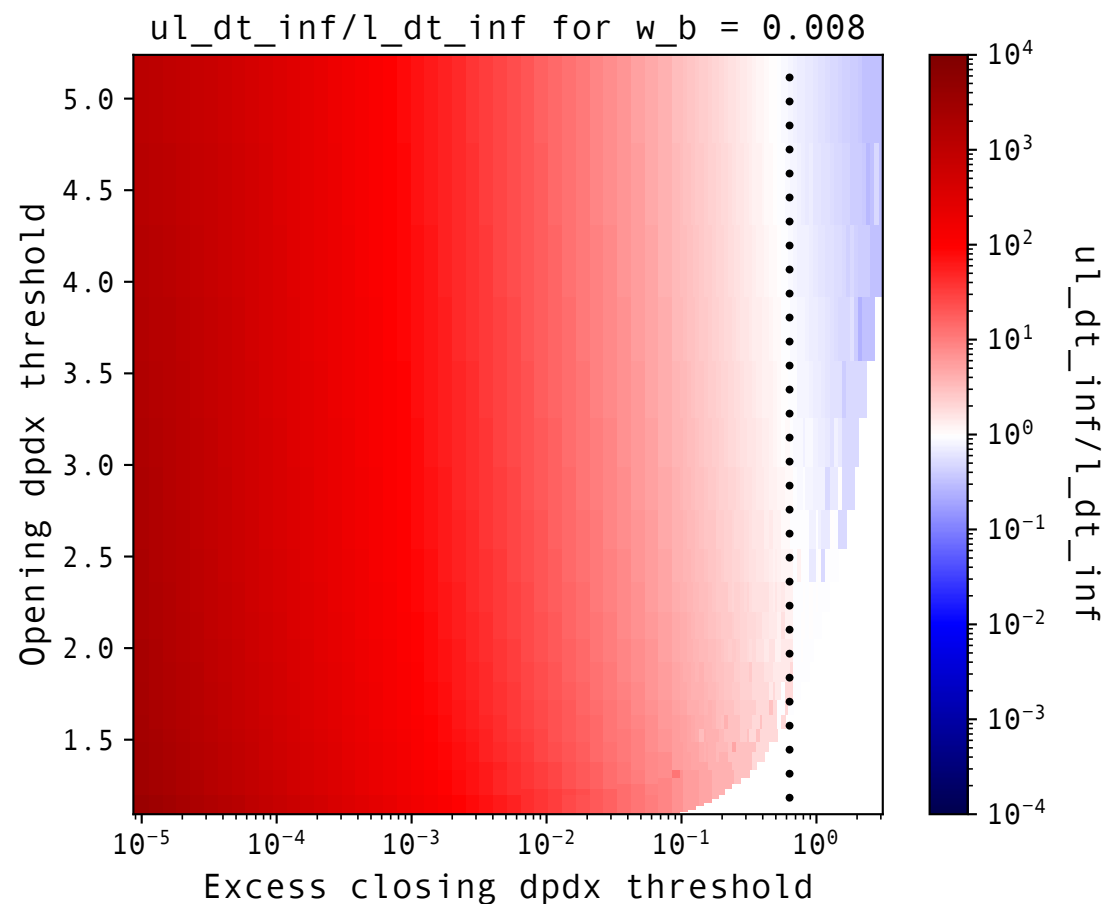
Observations: for all parameters!

- 1/ Unloading periods lengthen as the one-valve-system reaches a stable regime
- 2/ Loading periods shorten as the one-valve-system reaches a stable regime

Dynamics of an isolated valve

Q_{bound}

(b) Results: *cycle length and un-/loading predominance*



Observations:

- 1/** In the range of parameters investigated, closing threshold is the main control on cycle length
- 2/** As a rule of thumb, the valve can be considered to be mostly opened when the closing threshold is lower than 1.6, and mostly closed above.