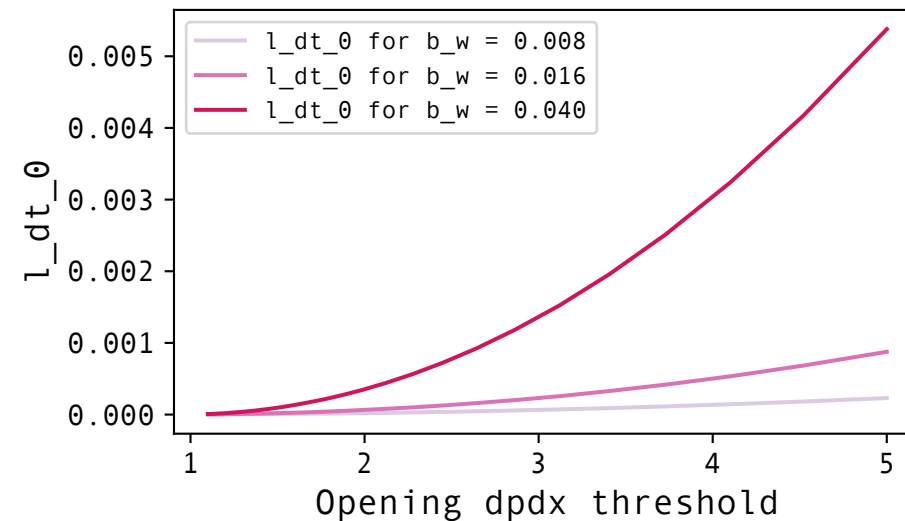
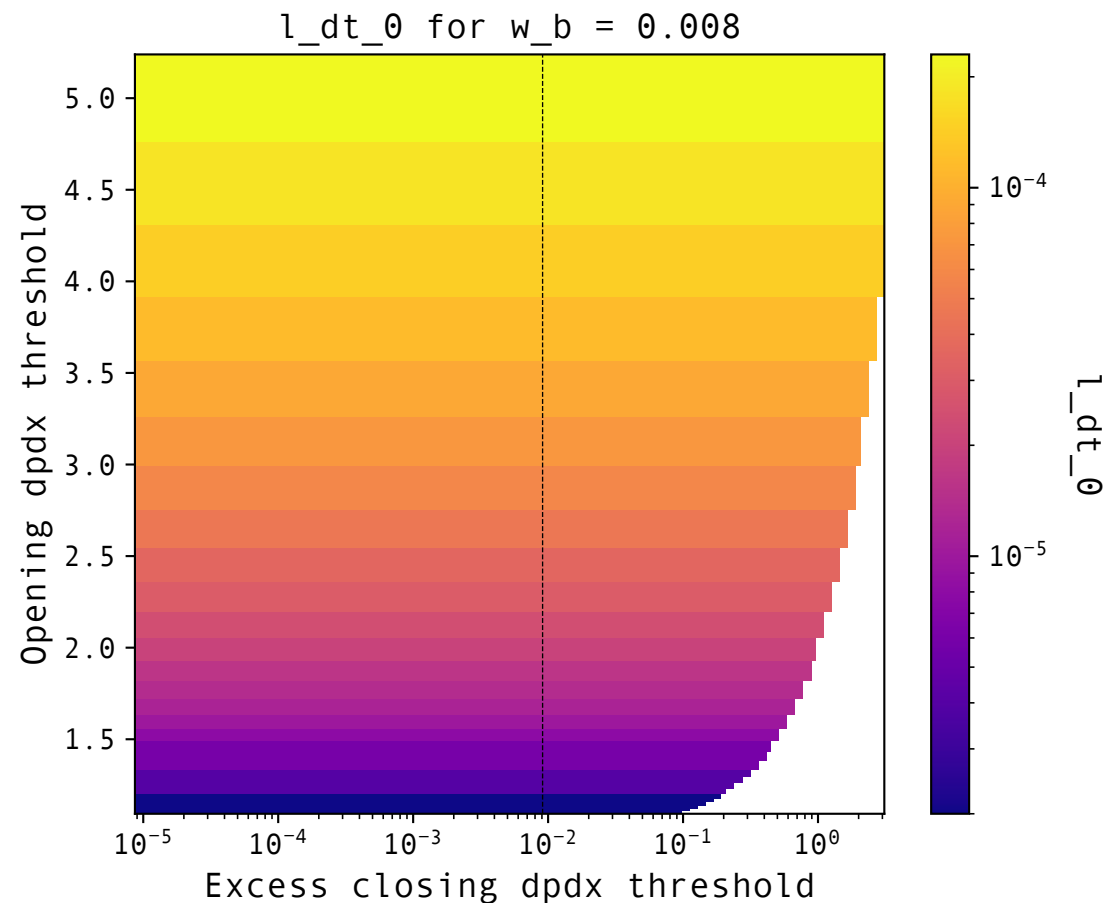


(b) Results: *first loading period* (l_{dt_0})



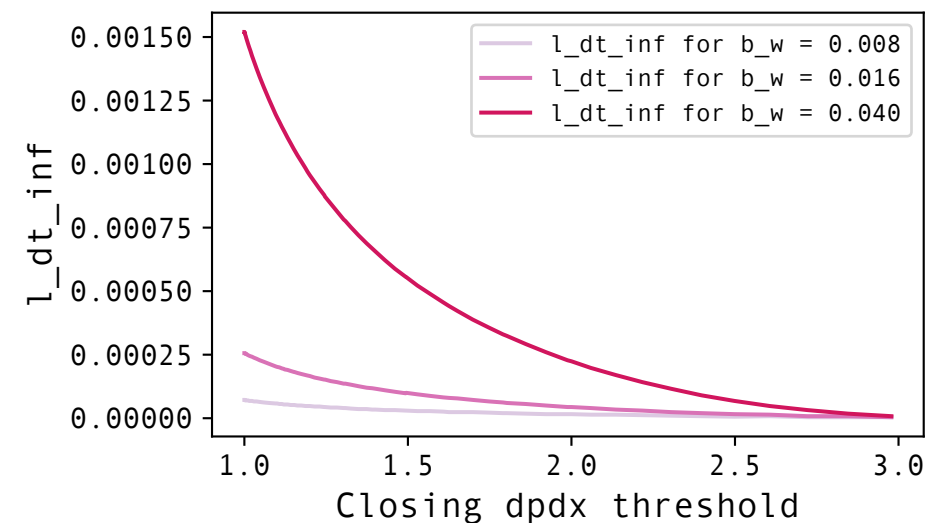
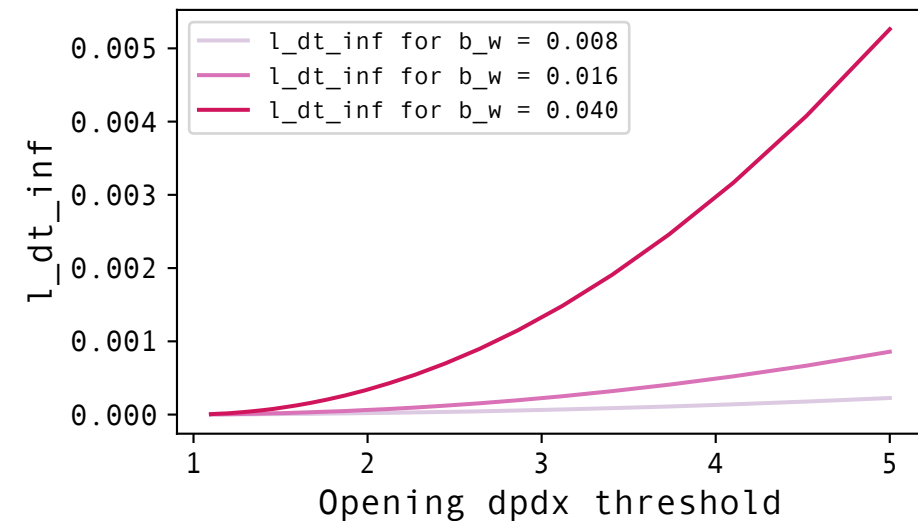
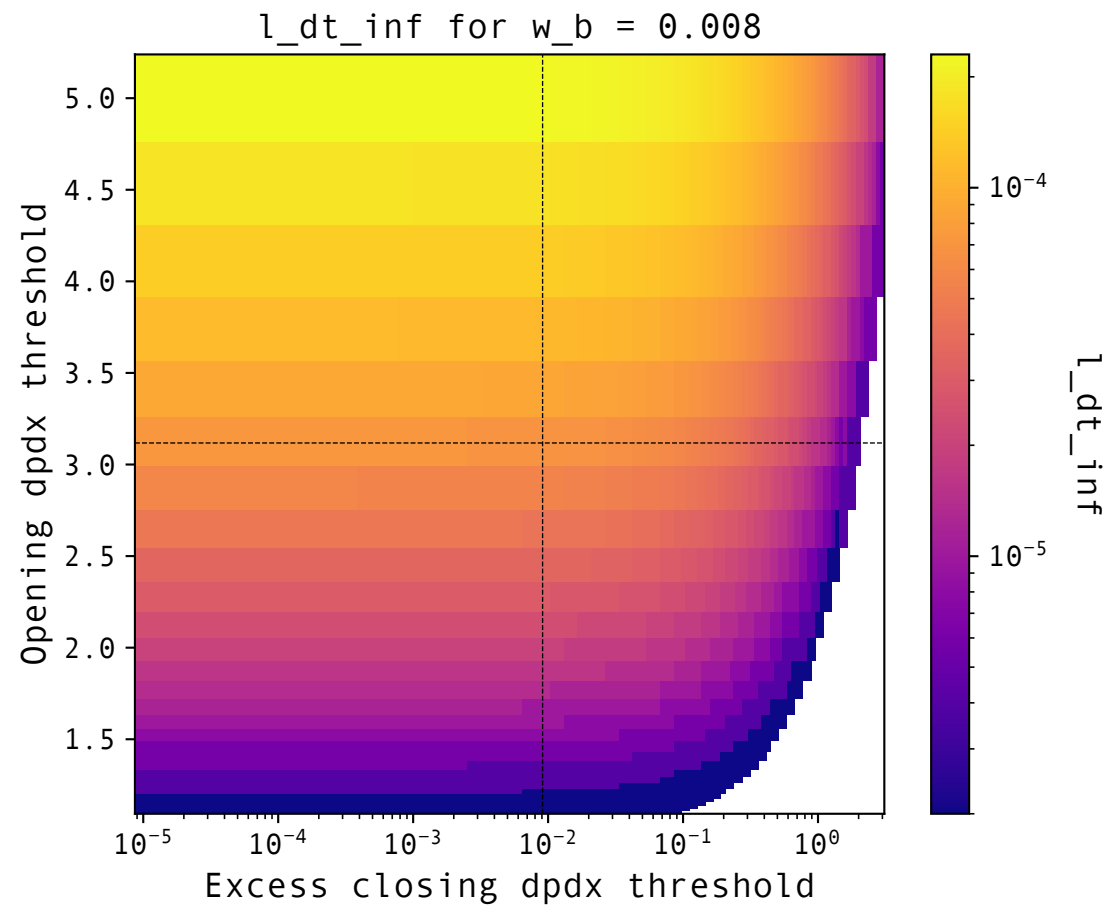
Observations:

- 1/** No dependency on closing threshold (obviously)
- 2/** The higher the opening threshold, the longer the loading dt. $l_{dt_0} = f(dpdx_{op})$ convex curve: the pressure rises quickly first and then slower and slower (cf dP curve in previous slide)
- 3/** The wider the barrier, the longer the loading (the overpressure needed to reach the threshold pressure gradient grows with distance from the center of the barrier)

Dynamics of an isolated valve

Q_{bound}

(b) Results: *last loading period (l_{dt_inf})*



Observations:

- 1/** The higher the opening threshold, the longer the loading dt
- 2/** The higher the closing threshold, the shorter the loading dt (for a fixed opening thr, the further apart op/cl thr are, the longer the loading)
- 3/** The wider the barrier, the longer the loading.