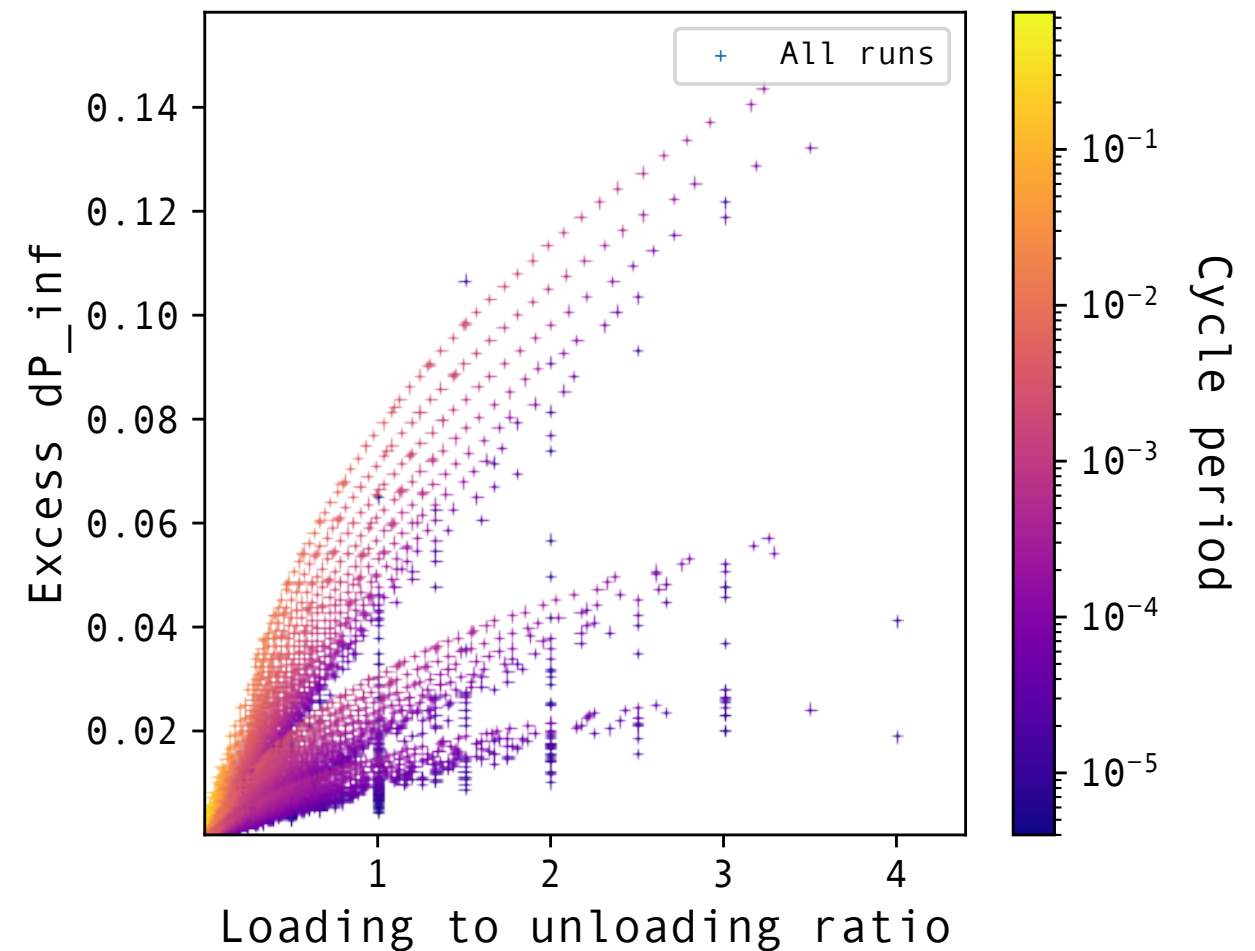
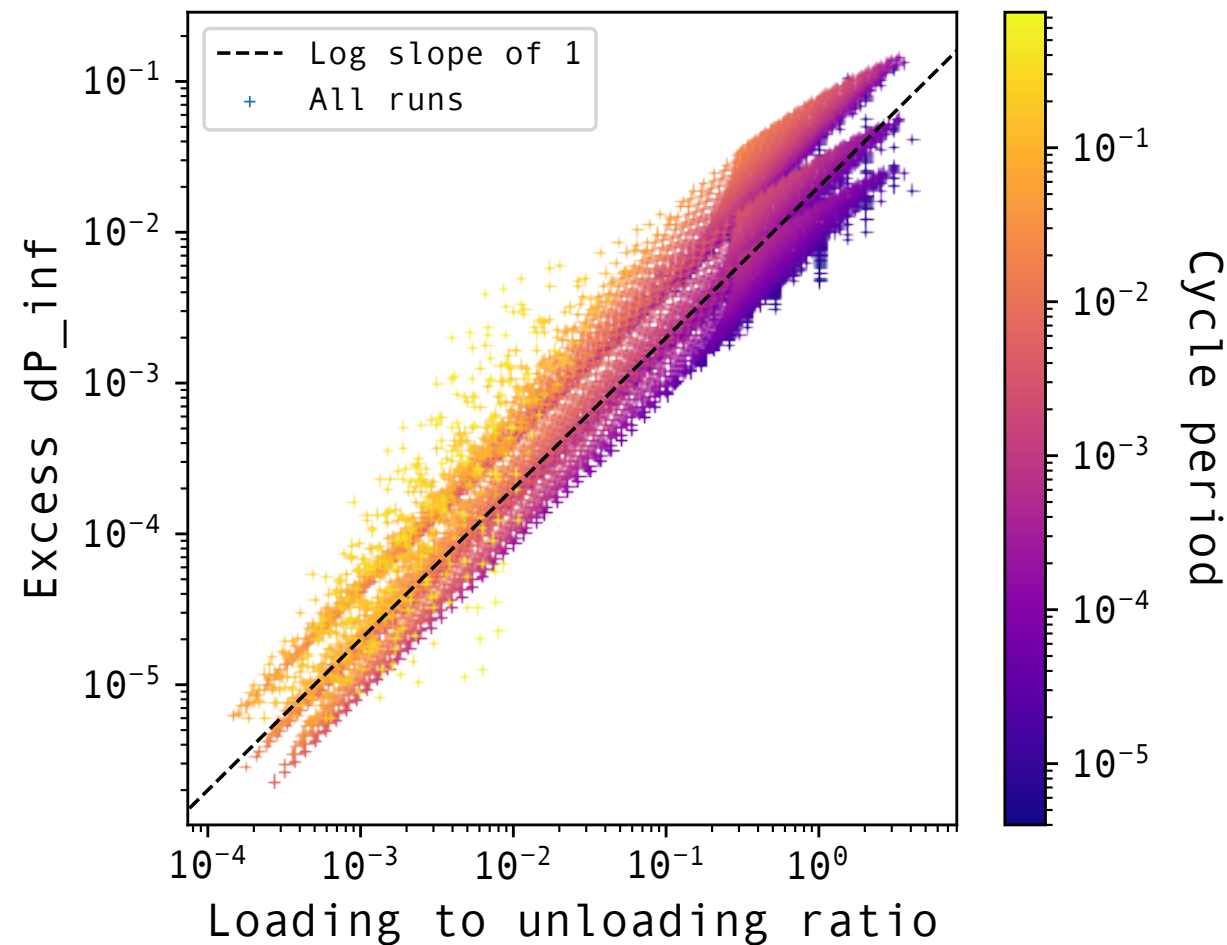


## Dynamics of an isolated valve

(b) Results: *pressure diff. across the domain (dP\_inf)*



### Observations:

- 1/** When the valve is mostly open (l/ul ratio  $\ll 1$ ),  $dP_{inf}$  is linearly related to the l/ul ratio.
- 2/** When the valve is mostly closed regime (l/ul ratio  $\gg 1$ , not reached with our current set of parameters),  $dP_{inf}$  should asymptotically approach an equilibrium value, corresponding to a  $k_{b\_eff}$ , closer and closer to  $k_b$ .

# Dynamics of an isolated valve

(b) Results:  $Q_{bound}$  v.  $P_{bound}$ :  $ul\_dt\_inf$

