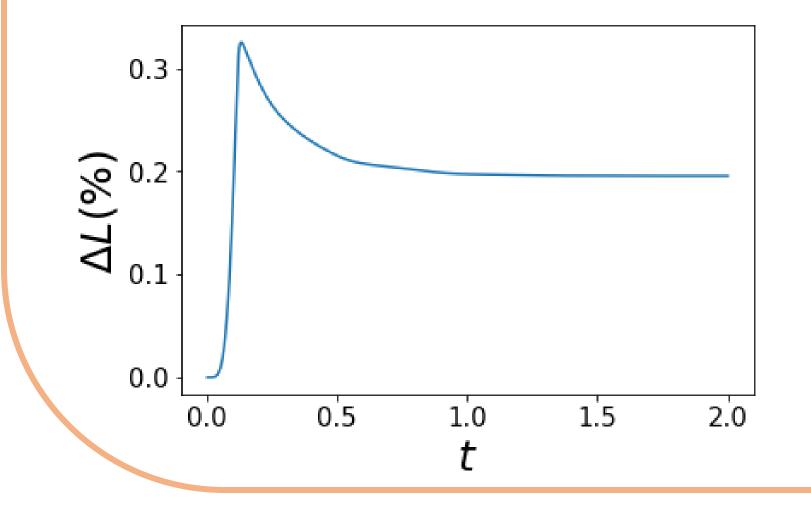
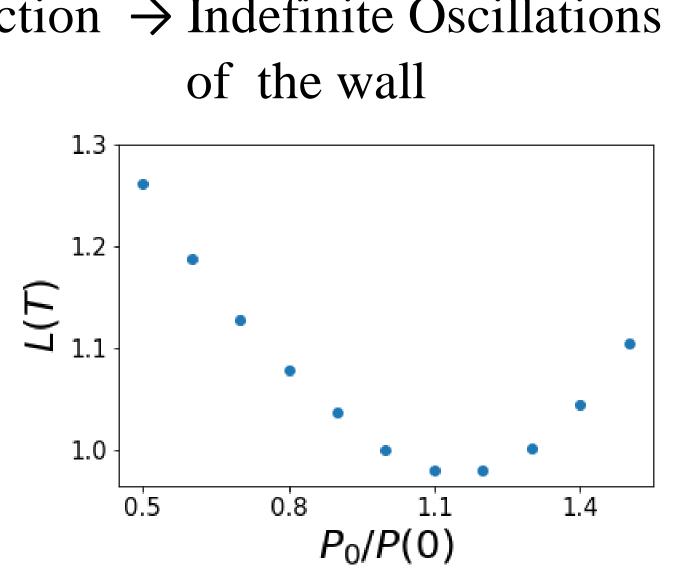


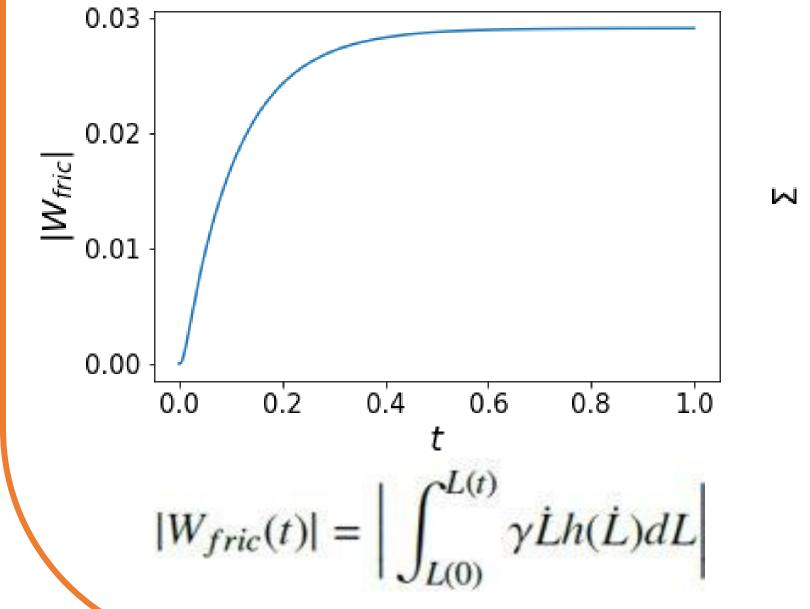
One-side friction (viscous friction from classical gas) causes the wall to decelerate only in the expansion phase





Dephasing can be included using a Master Equation. Dephasing on the eigenstates of H(t) has macroscopic effects (length of the box)

Work against the frictional force is dissipated energy



"Irreversible Work" is not extracted during the transformation but it is not dissipated if the system is closed

