

Figures for “Treadmilling stability of a one-dimensional actin growth model”

(Dated: April 24, 2019)

The data for these figures are taken from the *Mathematica* notebook named

‘‘1d growth plots.nb’’.

section Full “20190416 plots for 1d growth paper”. The data plotted are taken from the excel file

‘‘20190416_sR_unst.xls’’

and

‘‘20190417_sR_st.xls’’

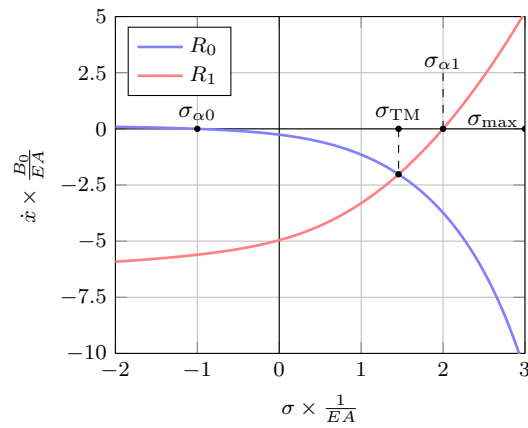


Figure 1. Stable treadmilling solution for $\sigma_{\text{asym}} = 5EA$, $\sigma_{\text{max}} = 3EA$, $\sigma_{\alpha 0} = -EA$, $\sigma_{\alpha 1} = 2EA$, $\beta = 1.0$

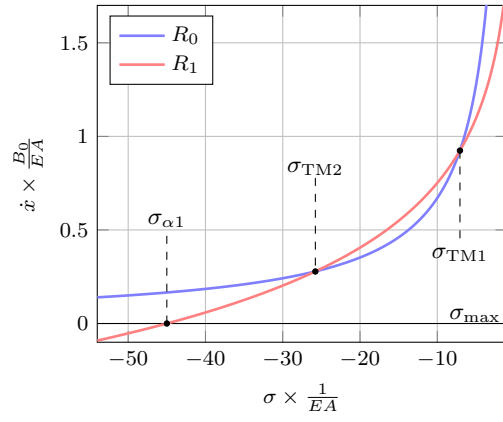


Figure 2. Multiple treadmilling solutions for $\sigma_{\text{asym}} = 0$, $\sigma_{\text{max}} = -EA$, $\sigma_{\alpha 0} = 2EA$, $\sigma_{\alpha 1} = -45EA$, $\beta = 1.0$

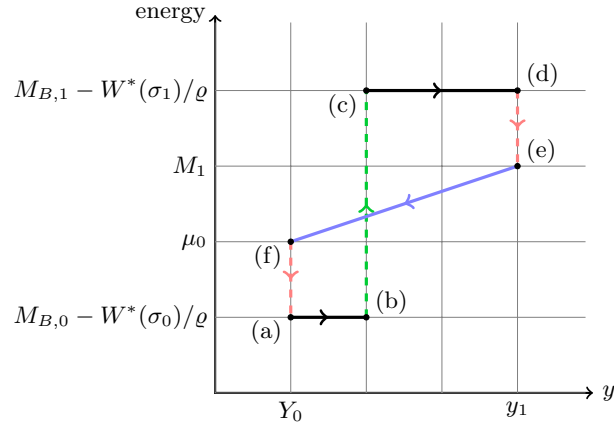


Figure 3. Evolution in space of the energy of a mole of actin as it undergoes treadmilling

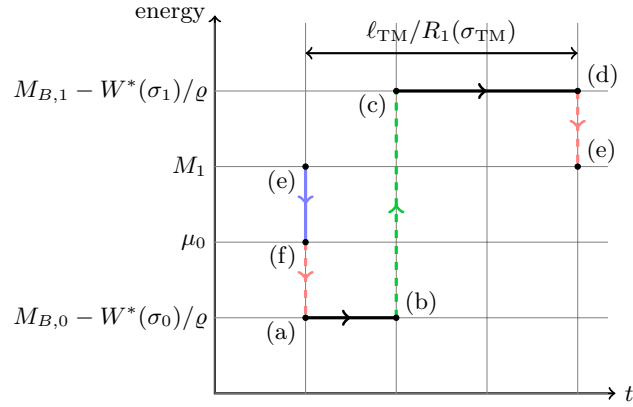


Figure 4. Evolution in time of the energy of a mole of actin as it undergoes treadmilling

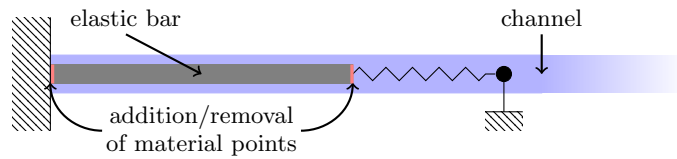


Figure 5. An elastic bar clamped between a hard and a soft device, immersed in a semi-infinite channel.

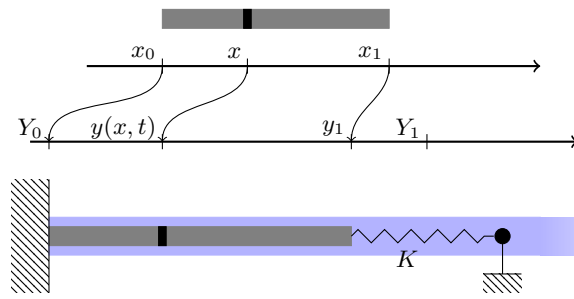


Figure 6. Reference (top) and current (bottom) configuration of the elastic bar.