# Phys. Rev. E 98, 022801 - Data

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FIGURE 5
Comparison of the maximum value of $\Gamma$ between the numerical solution of our convective equation and the analytic solution of the diffusion equation with unit diffusion coefficient.

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FIGURE 7
Variation of the film length $l_1$ with time, after a T1. We compare the length evolution for the described models, DS, ST, VF and ST+VF. For the DS model we report results for both $\hat{E} = 0$ and $\hat{E} = 1$. For the ST and ST+VF models both $\hat{E}$ and $\hat{\mu}$ are one.

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FIGURE 8
ST+VF model results for different $\hat{\mu}$, with $\hat{E} = 1$ and $D_m = 0$, for the stretching film $l_1$ (solid lines) and the shrinking film $l_2$ (dashed lines). (a) Variation of film lengths. (b) Variation of average surfactant concentration $\Gamma_i$. (c) Variation of average surface tension $\gamma_i$. In (b) and (c) the insets show the same data for the segments which meet at the vertex, $\Gamma_{i_0}$ and $\gamma_{i_0}$.

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FIGURE 9
ST+VF model results with surfactant transfer across the vertex, with coefficient $\hat{D}_m = 1/\hat{\mu}$. Notation and other simulation details as for Figure 8.

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FIGURE 10
ST+VF model results with varying elasticity $\hat{E}$. Here $\hat{\mu} = \hat{D}_m = 1$. Notation and other simulation details as for Figure 8.

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FIGURE 11
Variation of the time to reach $80\%$ of the final length for the newly-created film $l_1$, as a function of $\hat{E}$ and $\hat{\mu}$.

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FIGURE 12
Experimental data for the length of the newly-created film $l_1$ after a T1 with surfactant solutions of SDS and BLG is compared with a simulation with the VF+ST model which has been optimized by fitting values for the parameters $\hat{\mu}$ and $\hat{E}$.