Soap Film Drainage Using a Centrifugal Thin Film Balance
Supplemental Material

Antoine Monier,[1,*] Kévin Gutierrez,[1] Cyrille Claudet,[1]
Franck Celestini,[1] Christophe Brouzet,[1] and Christophe Raufaste[1,2]
[1] *Université Côte d'Azur, CNRS, Institut de Physique de Nice (INPHYNI), 06200 Nice, France*
[2] *Institut Universitaire de France (IUF), Paris, France*

EXPERIMENTAL MOVIES

Movie "Movie1.mp4" presents a typical experiment in Regime 1 (see Figs. 2(a) and (b) in the main text), showing the inward migration of TFEs within the film and the initial erosion of the central zone. The viscosity of the solution is $\eta = 1\,\mathrm{mPa.s}$ and the rotation speed is $\omega = 30\,\mathrm{rad.s^{-1}}$. The scale bar and time counter are indicated in the movie, which is played at approximately 20 times real speed.

Movie "Movie2.mp4" presents an experiment in Regime 2 (see Figs. 2(c) and 2(d) in the main text), where no boundary between the TFE region and the central film is present, even at early times. The solution viscosity is $\eta = 1\,\mathrm{mPa.s}$ and the rotation speed is $\omega = 127\,\mathrm{rad.s^{-1}}$. The scale bar and time counter are indicated in the movie, which is played at approximately 5 times real speed.

* antoine.monier95@gmail.com