

Description of Additional Supplementary Files

File Name: Supplementary Movie 1

Description: Comparison of pristine and perforated membranes for $kT = 1.14 \tilde{\kappa}$. Superimposed animations of a full (magenta) and a perforated (cyan) membrane for a temperature (in units of the bending rigidity) of $kT = 1.14 \tilde{\kappa}$. The full membrane is in the extended phase, while the perforated membrane is starting to crumple.

File Name: Supplementary Movie 2

Description: Comparison of pristine and perforated membranes for $kT = 1.25 \tilde{\kappa}$. Superimposed animations of a full (magenta) and a perforated (cyan) membrane for a temperature (in units of the bending rigidity) of $kT = 1.25 \tilde{\kappa}$. The full membrane is in the extended phase, while the perforated membrane has crumpled.