Supporting Information

Ivan Palaia,[†] Alexandru Paraschiv,[†] Vincent E. Debets, Cornelis Storm, Anđela Šarić^{*} Durotaxis of Passive Nanoparticles on Elastic Membranes





Figure S1: a) Free energy difference as predicted by the analytical model. Each curve is effectively obtained from the free energy in Fig. 4 by choosing as new origin the point ($\kappa_{\text{soft}}, F(\kappa_{\text{soft}})$) and then reflecting vertically. This plot qualitatively describes the partitioning curves from Fig. 3. As mentioned in the main text, the theory breaks down at large bending rigidity because of residual adhesion energy. b) Free energy differences estimated from potential of mean force calculations (PMF, Figs. 5ab) coincide with the ones estimated from partitioning (Fig. 3).