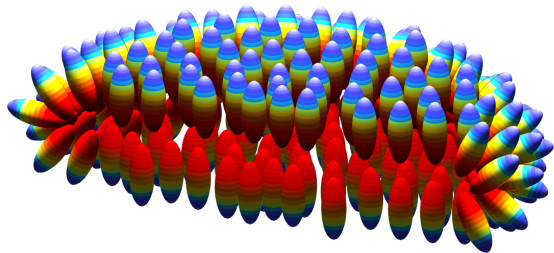
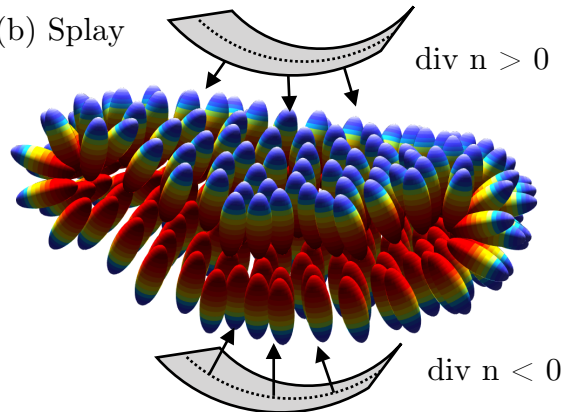


(a) Reference bilayer

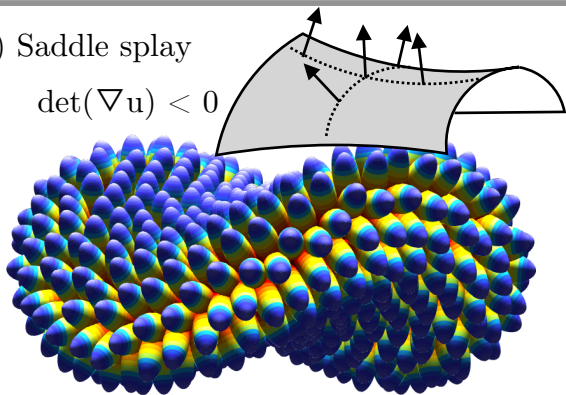


(b) Splay



(c) Saddle splay

$$\det(\nabla \mathbf{u}) < 0$$



(d) Twist

