Electronic Supplementary Material (ESI) for Soft Matter. This journal is © The Royal Society of Chemistry 2016

List of movies

- Movie S1: Dynamical evolution of an isotropic droplet embedded into a nematic liquid crystal
 with defects located on its surface. Homeotropic anchoring of the director field is set on the
 droplet surface.
- Movie S2: Dynamical evolution of an isotropic droplet embedded into a nematic liquid crystal with defects persistently rotating along the surface. Homeotropic anchoring of the director field is set on the droplet surface.
- Movie S3: Dynamical evolution of a single bound (SB) state, in which one of the two defects detaches from the droplet. Homeotropic anchoring of the director field is set on the droplet surface.
- Movie S4: Dynamical evolution of an unbound (U) state, in which both defects detach from the droplet. Homeotropic anchoring of the director field is set on the droplet surface.
- Movie S5: Dynamical evolution of an isotropic droplet embedded into a nematic liquid crystal when tangential anchoring of the director field is set on the droplet surface.
- Movie S6: Dynamical evolution of a three dimensional isotropic droplet embedded into a
 nematic liquid crystal for moderate shear. Homeotropic anchoring of the director field is set
 on the droplet surface. At equilibrium the strength of the surface anchoring is comparable
 with bulk elastic deformations.
- Movie S7: Dynamical evolution of a three dimensional isotropic droplet embedded into a
 nematic liquid crystal for high shear. Homeotropic anchoring of the director field is set on
 the droplet surface. At equilibrium the strength of the surface anchoring is comparable with
 bulk elastic deformations.
- Movie S8: Dynamical evolution of a three dimensional isotropic droplet embedded into a
 nematic liquid crystal for high shear. Homeotropic anchoring of the director field is set on
 the droplet surface. At equilibrium the strength of the surface anchoring is much larger than
 with bulk elastic deformations.

All parameters are given in the text.