



Figure 4.10. Unfolding of blue phases as φ increases for high temperature and moderate anchoring conditions. Derived blue phases are observed for oblates with $\varphi < 0.5$. Defect lines join and form BPII structures as the geometry resembles a droplet. For $\varphi > 1$ the hybridization of BPs occur. The defect structure is colored in red, tetrahedral joints are highlighted in blue and defect lines typical of BPI are colored in green. Surface patterns are colored according to the director orientation with respect to the imposed boundary conditions. For clarity we only show a section of the bulk defect structure.