Electronic Supplementary Information for

Directional Interactions in Semiflexible Single-chain Polymer Folding

Pablo Englebienne, Peter A. J. Hilbers, E. W. Meijer, Tom F. A. De Greef and Albert J. Markvoort

Contents

Figure S1. Structural properties of 100-mer polymers. Left: homopolymers with all beads interacting with a LJ126 potential. Right: co-polymers with a directional (LJA2) bead on every 5th bead. A: histograms of structural properties as a function of reduced temperature; B: histograms of structural properties at three specific reduced temperatures, namely T=0.5, T≈T_c and T=2.5.

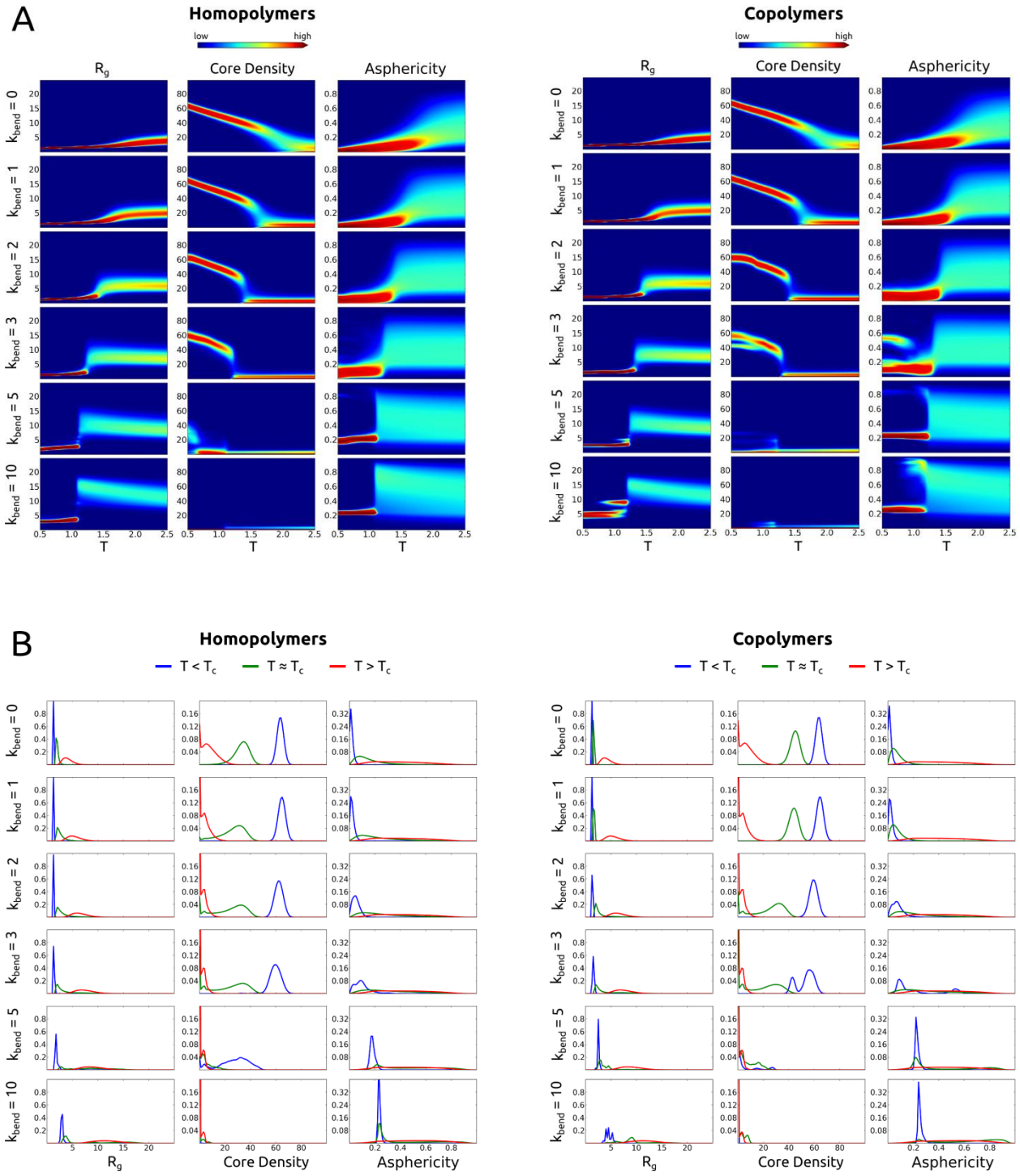

Figure S2. Contact maps of 100-mer polymers at different values of k_{bend}. Left: homopolymers with all beads interacting with a LJ126 potential (contacts are evaluated between beads at every 5th position). Right: co-polymers with a directional (LJA2) bead on every 5th bead (contacts are evaluated for every directional bead).

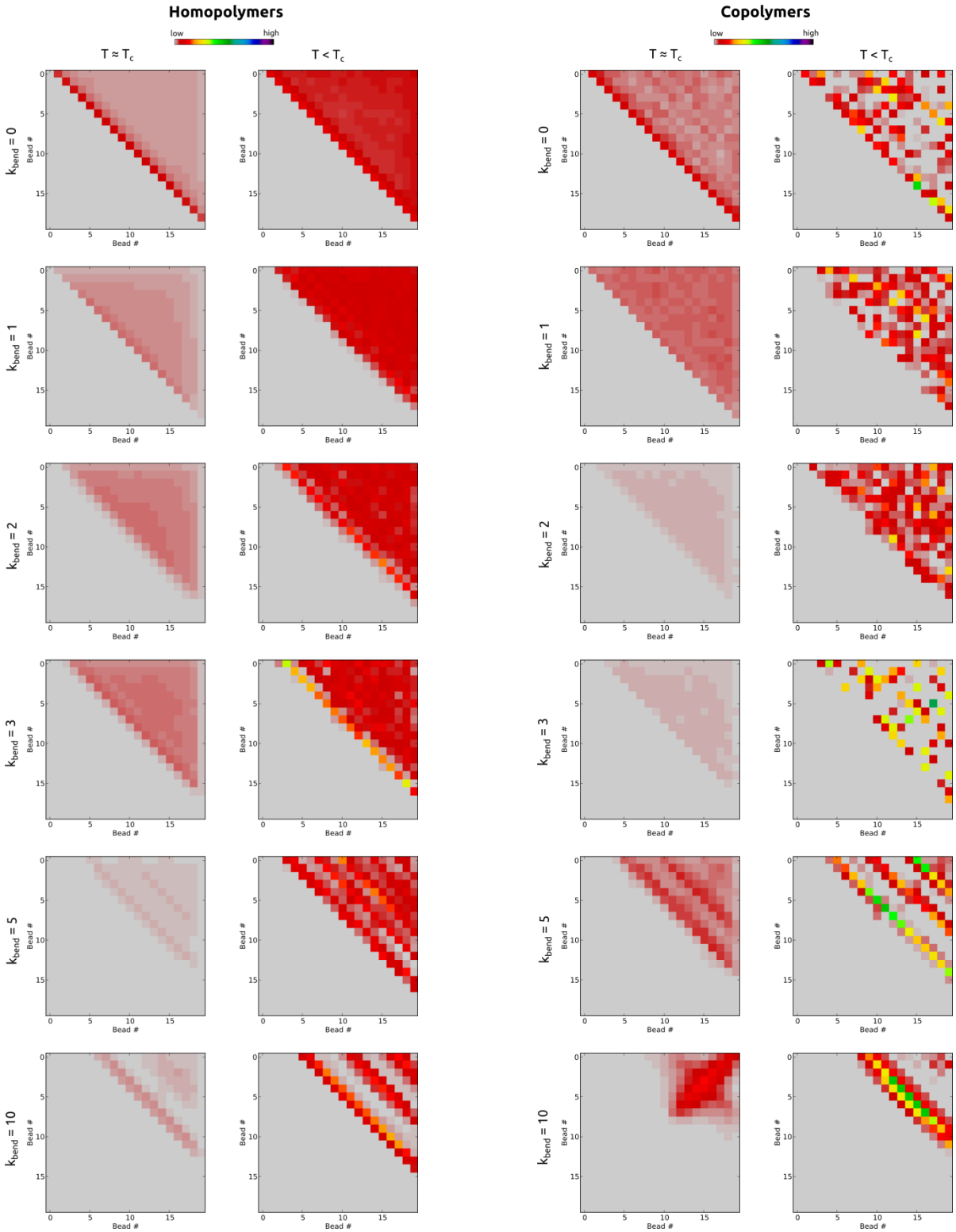

Figure S3. Representative structures of 100-mer polymers at different reduced temperatures and different values of k_{bend}. Left: homopolymers with all beads interacting with a LJ126 potential. Right: co-polymers with a directional (LJA2) bead on every 5th bead.