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Linking number of linear chain in polymer solution and melts
QI LIAO, Institute of Chemistry, Chinese Academy of Sciences, Beijing, 100080, China — We present the statistical results of linking number of linear chains prepared by Monte Carlo and molecular dynamics simulations of polymer solution and melts. Simulations were performed for a wide range of chain lengths covering both non-entangled and entangled polymer dynamics. The simulation results for linking number dependence on chain length and distribution function are compared with the prediction and conjecture of topology.

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