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## **Monte Carlo Study of Spherical and Cylindrical Micelles in Multiblock Copolymer Solutions**

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Solutions of multiblock copolymer chains in implicit selective solvents are studied by Monte Carlo off-lattice method which employs a parallel tempering algorithm. The aggregation of block copolymers into micellar structures of spherical and cylindrical shapes is observed. We conjecture that these structures will evolve into vesicles.

**Keywords:** Monte Carlo method, copolymers, parallel tempering algorithm, vesicles, micelles, polymers.