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Topological polymers through the quaternionic algorithm

We study numerically statistical properties of topological polymers [1] by applying the quaternionic algorithm for generating random walks [2].

Ref. [1] E. Uehara, R. Tanaka, M. Inoue, F. Hirose and T. Deguchi, Mean-square radius of gyration and hydrodynamic radius for topological polymers evaluated through the quaternionic algorithm, *Reactive and Functional Polymers* Vol. 80 (2014) 48-56.

Ref. [2] J. Cantarella, T. Deguchi, and C. Shonkwiler, Probability Theory of Random Polygons from the Quaternionic Viewpoint, *Comm. Pure Appl. Math.* Vol. 67, 1658-1699 (2014).