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*Directed walk models of polymers*

Directed walks such as Dyck and Motzkin paths are useful models of polymer adsorption and they can be adapted to model the way in which the polymer desorbs under the influence of a force. Under certain solvent conditions polymers can collapse to a compact ball. This transition can be modelled by partially directed walks and the model can be adapted for the case where a force is applied. Recent progress will be discussed.