

Flexibility and defects in the soft self-assembly of synthetic biological systems

T.B. Liverpool

School of Mathematics, University of Bristol

t.liverpool@bristol.ac.uk

1. Abstract

Synthetic biology involves the design and construction of new biological parts, devices, and systems, as well as the re-design of existing, biological systems for useful purposes. I will describe some mathematical models of the process of self-assembly of designed synthetic biological systems emphasising the role of mechanical flexibility both on the dynamics of assembly and on the final structures formed.