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Geometry of minima in co-polymer models

Energies governing the behavior of copolymers often contain a local term, plus a long range interaction. Generally speaking, the former has a coagulating effect, preferring fewer but bigger components, while the latter has a splitting effect, preferring smaller, more numerous components. Therefore, optimal configurations must arrange themselves to strike a balance between those two competing forces. In this talk, we will present some recent results in this direction.