Random cubic graphs are not globally synchronizing with probability at least $1 - \exp(-2)$

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We'll consider the Kuramoto model on random regular graphs. A connected graph G is globally synchronizing if every stable equilibrium of the gradient flow is a trivial state. We'll prove that random 3-regular graphs are not globally synchronizing with asymptotic probability at least $1 - \exp(-2)$.

Trabajo en conjunto con Pablo Groisman (Universidad de Buenos Aires e IMAS - UBA/CONICET) y Dieter Mitsche (Pontificia Universidad Católica de Chile).