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*Equilibria of the Kuramoto model*

The standard Kuramoto model (all-to-all with uniform coupling) is used to describe synchronization behavior of a large set of oscillators. Using algebraic geometry, the equilibria of this model can be computed by solving a system of polynomial equations. We develop an approach which computes only the real solutions to this system of polynomial equations by reducing down to solving a collection of univariate functions. We compare this new approach with other approaches in computational algebraic geometry. The univariate reduction also allows us to prove that, asymptotically, the maximum number of real solutions grows at the same rate as the number of complex solutions.