

Multistability of phase-locking in Kuramoto model

Literature

Multistability of phase-locking in equal-frequency Kuramoto models on planar graphs

Robin Delabays, Tommaso Coletta, Philippe Jacquod
J. Math. Phys. 58, 032703 (2017)

Algebraic geometrization of the Kuramoto model: Equilibria and stability analysis

Dhagash Mehta, Noah S. Daleo, Florian Dörfler, et al
Chaos 25, 053103 (2015)

Cycle flows and multistability in oscillatory networks

Debsankha Manik, Marc Timme, and Dirk Witthaut
Chaos 27, 083123 (2017)

Any other papers addressing the similar topic can be used/presented.

The following concepts should be explained:

- Select one of the suggested papers or find similar papers addressing the multistability of phase-locking in first or second order of KM.
- Study and present the analytical approach to demonstrate the multistability approach.
- Do the simulation to show the existing of multistability.