Mean-Field Theory in Small-World Networks

Literature

Small-world network spectra in mean-field theory
Grabow, C., Grosskinsky, S., and Timme, M.
Physical review letters (2012)

Mean-field solution of the small-world network model
Newman, M. E., Moore, C., and Watts, D. J.
Physical Review Letters (2000)

Please also find additional literature.

The following concepts should be explained:

- Explain Mean-Field Theory in complex network formation

- Present the theoretical derivation of the second largest Eigenvalue as well as the average shortest path length

- Explain the significance of graph spectra