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Distributional statistical properties and the stability of an equilibrium of a delayed symmetric network

We consider a certain class of Cohen-Hopfield-Grossberg symmetric networks characterised by multiple distributed time delays. We establish explicit analytical results on some ramifications of distributional heavy-tailedness on the stability boundary, in an appropriate parameter space, of an equilibrium of such a network. The premise of the approach adopted here is that very limited information about the time delays is available.