



Metastability in economic networks in an Ising Model

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Abstract: After the crisis of 2008 and the following recession, almost all governments of developed countries imposed stimulus bills to overcome the crisis. Some economists suggested that only big stimulations could help economy for the recovery. In this work we model the network of firms with an Ising model and evaluates its response to the external stimulations. Through our simulations and analyses we find that there is a minimum bound where stimulations below them fail to trigger the network to overcome the recession. We then examine our suggestions for the cases of the United States and the European Union in the recent recession, and compare them with the imposed stimulations. While stimulation in the United States has been above our threshold and successful, in the European Union it has been far below our threshold and unsuccessful.

