1067-92-276 **Manfred Denker*** (denker@math.uni-goettingen.de). *Random dynamical systems and an application to self-organized criticality in neural data.*

We give a brief introduction to discrete time random dynamical system and explain Levina's model (2008) to study the avalanche size in complete neural networks of firing ions. In particular, we discuss Levina's result that its probability satisfies a power law in the critical case. (Received August 15, 2010)