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First return maps of random maps and invariant measures

We consider a family of transformations with a random parameter and consider a random dynamical system in which one transformation is randomly selected from the family and applied on each iteration. Such a process is called a random map. We consider the first return map of a random map and study how to construct an invariant measure of the original random map from an invariant measure of the first return map.

We also consider an application to one dimensional random maps with neutral fixed points.