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Abstract

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We study the **dynamics** of **extreme doubly stochastic quadratic operators** (d.s.q.o.) on two dimensional (**2D**) **simplex**. We provide some examples of d.s.q.o. which have infinitely many fixed points. We prove that the trajectory of **extreme** d.s.q.o., starting at some interior point of the **simplex** is convergent. Finally, we classify the **dynamics** of all **extreme** points of d.s.q.o. on **2D**. © Springer International Publishing Switzerland 2016.

Author keywords

Convergence and **simplex**; **Doubly stochastic quadratic operators**; Fixed point; Trajectory

Indexed keywords

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