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Joseph Rosenbaltt* (rosnbltt@illinois.edu), Department of Mathematics, University of Illinois at Urbana-Champaign, 1409 W. Green St, 273 Altgeld Hall, Urbana, IL 61801.

Determining transformations by averaging methods. Preliminary report.

There is a duality between transformations and sequences of averaging methods. This duality gives rise to a topology on the class of transformations being considered. This allows us to describe in topological terms when we can distinguish transformations by averaging methods. The nature of this duality, the topology that arises, results, and open questions will be presented. (Received January 23, 2009)