

Year: 2019

Vol.: 94

Fasc.: 1-2

**Title:** A generalization of the Gelfand–Kolmogoroff theorem

**Author(s):** Yunbai Dong, Pei-Kee Lin and Bentuo Zheng

We introduce the notion of a ring isomorphism in norm. For such maps, we obtain an extension of the Gelfand–Kolmogoroff theorem by showing that a ring isomorphism in norm between spaces of continuous functions on compact spaces is a weighted composition operator.

**Address:**

Yunbai Dong  
Research Center of Nonlinear Science  
and School of Mathematics and Computer  
Wuhan Textile University  
Wuhan 430073  
China

**Address:**

Pei-Kee Lin  
Department of Mathematical Sciences  
The University of Memphis  
Memphis, TN 38152-3240  
USA

**Address:**

Bentuo Zheng  
Department of Mathematical Sciences  
The University of Memphis  
Memphis, TN 38152-3240  
USA