

## Accepted Manuscript

Discrete chaotic maps obtained by symmetric integration

Denis N. Butusov, Artur I. Karimov, Nikita S. Pyko, Svetlana A. Pyko,  
Mikhail I. Bogachev



PII: S0378-4371(18)30825-2  
DOI: <https://doi.org/10.1016/j.physa.2018.06.100>  
Reference: PHYSA 19794

To appear in: *Physica A*

Received date : 28 December 2017  
Revised date : 15 June 2018

Please cite this article as: D.N. Butusov, A.I. Karimov, N.S. Pyko, S.A. Pyko, M.I. Bogachev, Discrete chaotic maps obtained by symmetric integration, *Physica A* (2018), <https://doi.org/10.1016/j.physa.2018.06.100>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.

Highlights

- Symmetric and asymmetric discretization yields considerably different results
- Symmetric integration procedure yields reflectional symmetry in the phase space
- Introduction of additional symmetry triggers between mono- and multifractal regimes
- Symmetric and asymmetric maps exhibit different return interval statistics
- Symmetric maps yield smoother transition between synchronous and asynchronous modes

Download English Version:

<https://daneshyari.com/en/article/7374810>

Download Persian Version:

<https://daneshyari.com/article/7374810>

[Daneshyari.com](https://daneshyari.com)