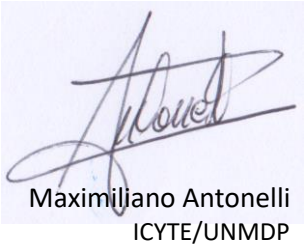
August 25, 2017

To the Editorial Board of the Journal Phisica A,

I have the pleasure of sending you the manuscript entitled "complexity of switching chaotic maps in finite precision" authored by M. Antonelli, L. De Micco, O. A. Rosso and H. A. Larrondo to be considered for publication as a research article in your prestigious journal.
The paper is containing original research and has not been submitted / published earlier in any journal and is not being considered for publication elsewhere. All authors have seen and approved the manuscript and have contributed significantly for the paper.

We hope that it will interest your audience.

Kind regards,



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Highlights:

- Digital implementation of a chaotic map results in a pseudo chaotic map due to numerical discretization.
- Stochasticity and mixing are relevant to characterize a chaotic behavior.
- We use quantifiers from information theory to characterize the evolution of simple and switching maps in based-2 precisions.
- As result we encountered that a long period is not synonymous of good statistics.
- Also, the statistics of the maps represented in fixed-point produces a non-monotonous evolution toward the floating-point results.