

EDITORIAL

This new edition of the Revista Boliviana de Física (RBF), issue 31, marks the end of 2017, a year of important achievements for research in Bolivia. The different groups of the Institute of Physical Investigation (IIF) have had a fruitful year, including important accomplishments reflected in facilities with state of the art technology, collaborations with important world groups, publications in international journals, as well as, undergraduate and graduate training programs with students taking their first strides in research obtaining important results and demonstrating rigor in their work.

Recently, three Masters theses have been defended with excellent grades and have generated publishable results for the RBF and international journals, two of which, [Bustos-Espinoza & Ramírez-Ávila(2012)] and [Subieta & Ramírez-Ávila(2017)], are featured in this current issue. Also, several articles based on the research of new postgraduates are in the process of being published in the RBF.

Also worthy of mention is the news that following the XV Latin American Workshop on Nonlinear Phenomena in La Serena, Chile, La Paz has been chosen to host the XVI Latin American Workshop. The event attracts scientists, working in nonlinear phenomena, from all over the world and in particular Latin America. Scheduled for October 2019 event details can be found provisionally at www.fiumsa.edu.bo/lawnp2019.

In this issue of the RBF, three scientific articles, submitted to international arbitration, are featured. SUBIETA, [Subieta & Ramírez-Ávila(2017)] present the analysis and characterization of a social model of opinion formation. The main properties of the model are that the equations are discrete and the agents are nodes within a complex network giving different topologies. A very interesting phenomenon is reported by [Ricaldi *et al.*(2017)] who with data obtained in September 2017 from the solar flares at the Villa Remedios Geomantic Observatory and at the Chacaltaya Laboratory carried out a comparison with the solar Rx flow registers of the NASA GOES satellite, making possible the characterization of so-called magnetic crochets. Finally, [Ramírez-Ávila(2017)] propose a population model for cancerous, normal and effector cells based on Logistic and Lotka-Volterra equations, to which are added terms related to the action of ionizing radiation typifying the situation patients are subjected to in radiotherapy treatment. A linear stability analysis of the systems identifies changes in dynamical regimes and their parameter values.

In the contributions section, [Gutiérrez R.(2017)] describe the calibration and comparison of two solmaforos, ultraviolet index (UV Index) warning signals designed to provide a real-time indication of the suns UV intensity in an easy to read traffic light design, which will be installed in La Paz. These signals will provide accurate measurements of the UV index alerting the population to and preventing prolonged exposure to the sun. In the history section, [Aguilar & Balderrama(2017)], students make a detailed and enjoyable review of the Einstein-Podolsky-Rosen paradox using the photon teleportation phenomenon.

We hope that this issue of the RBF is of interest to the scientific community and that at the same time it motivates scientists to send their intellectual work for publication. We are grateful for the SciELO platform which is freely accessible to the entire scientific community and the general public.

References

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- [Gutiérrez R.(2017)] Gutiérrez R. 2017, Revista Boliviana de Física, **31**, 35.
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