

EDITORIAL

The Editorial Committee of the Revista Boliviana de Física (RBF), looking at the current status of the RBF, have decided to give it a new scope. This involves, amongst other things, adapting to the requirements of SciELO Bolivia, in aspects related to the form in which articles must be presented including a declaration regarding conflict of interest and specific deadlines required for publication. In addition, the format and content of the RBF is undergoing small changes. From this issue onwards the editorial note will appear in both Spanish and English. The Editorial will reflect on the content of each particular issue and eventually give the RBF's opinion on current scientific themes of interest in Bolivia and further afield.

The following changes and adjustments are in place

- The RBF is an official body of the Bolivian Physics Society (SOBOFI) and is published jointly with the Institute of Physics Research of the Universidad Mayor de San Andrés (IIF-UMSA).
- The RBF seeks to disseminate the scientific production of the physics community and professionals from related sciences, especially within Ibero-America.
- The RBF will publish at least two issues per year. Scientific articles may include; those submitted to arbitration, the result of collaborations, reviews, historical accounts, interviews of scientific interest and physics teaching. Articles are received in Spanish, English and Portuguese and will eventually have a summary abstract in all three languages.

Furthermore, the Editorial Committee is actively working to have an electronic version of the RBF, where all the numbers and all the articles are included in PDF format. We hope to conclude this initiative shortly. The possibility of identifying all articles published in the RBF with the DOI identifier is also being looked into; this initiative is in coordination with the Scielo Bolivia Committee.

In this issue we have five contributions, of which three correspond to scientific articles that were reviewed by international referees; an article related to physics teaching and another that corresponds to an interview of a prominent scientist. The synchronization of two electrically coupled neurons is studied and characterised by (Calderón de la Barca and Ramírez-Ávila 2017) who use the simple Rulkov model for the dynamic description of each of the neurons. A study of black carbon measurements and analysis at the Huancayo Observatory, Peru, is presented by (Suarez et al., 2017) who maintain that their observations can be explained by the biomass burnings in the Amazon basin corresponding to Brazil, Bolivia and Peru. Considering the semiclassical model of an extended tight-binding Hamiltonian, (Mamani, Calcina-Nogales, and Sanjinés 2017) study the long-range interactions for a charged particle hopping in a lattice. A contribution referring to the educational aspects of nuclear science is presented by (Bustos-Espinoza et al., 2017) who review in detail the historical aspects of nuclear physics in Bolivia and outline the trends for the Bolivian nuclear program, which have been consolidated with the creation of the Bolivian Nuclear Energy Agency and the future construction of a nuclear research and applications center. Finally, (Ramírez Ávila 2017) presents an interview with James Yorke, a very important character in nonlinear dynamics and who introduced the term “chaos” in scientific jargon.

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.

- Bustos-Espinoza R. O. E., A. Burgoa-Mariaca, I. Poma-Mamani, R. D. Ticona-Peralta, M. Subieta-Vasquez, G. M. Ramírez-Ávila, M. Rajjevic-Ergueta, M. Lucano-Lucano, R. Mamani, M. Vargas-Lucana, S. Chávez-Ríos, Torrico-Ferrufino S., D. Coca-Valdez, and L. Romero-Bolaños. 2017. “State and trend of the nuclear education in the plurinational state of Bolivia”, *Revista Boliviana de Física*: 29-53.
- Calderón de la Barca I. and G. M. Ramírez-Ávila. 2017. “Synchronization of map modeled neurons and characterized by periodicities”, *Revista Boliviana de Física*: 1-6.
- Mamani E., M. Calcina-Nogales and D. Sanjinés. 2017. “Long-range effective interactions in a lattice in the semiclassical approximation”, *Revista Boliviana de Física*: 16-27.
- Ramírez Ávila G. M. 2017. “Chaos and its transcendence: interview with James Yorke”, *Revista Boliviana de Física*: 55-59.
- Suarez L., C. Torres, D. Helmig and J. Hueber. 2017. “Measurement and analysis of black carbon aerosols at observatory of Huancayo, Perú”, *Revista Boliviana de Física*: 7-15.