

## Special Issue

# Hopf Algebras, Quantum Groups and Yang-Baxter Equations 2013

### Message from the Guest Editor

The Yang-Baxter equation first appeared in a paper by the Nobel laureate C.N. Yang and in R.J. Baxter's work. At the Kyoto International Mathematics Congress (1990), three of the four Fields Medalists were awarded prizes for their work related to the Yang-Baxter equation. This equation plays a crucial role in many areas of mathematics, physics, and computer science. Many scientists have used the axioms of various algebraic structures or computer calculations in order to produce solutions for it, but the full classification of its solutions remains an open problem. As we continue the scientific directions of our previous special issue on various aspects of the Yang-Baxter equations and the related structures, we would like to gather together both interesting reviews and research papers.

---

### Guest Editor

Dr. Florin Felix Nichita

Simion Stoilow Institute of Mathematics of the Romanian Academy,  
P.O. Box 1-764, 014700 Bucharest, Romania

---

### Deadline for manuscript submissions

closed (15 August 2013)



## Axioms

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.6



[mdpi.com/si/2416](http://mdpi.com/si/2416)

*Axioms*

Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[axioms@mdpi.com](mailto:axioms@mdpi.com)

[mdpi.com/journal/](http://mdpi.com/journal/)

[axioms](http://axioms)





# Axioms

---

an Open Access Journal  
by MDPI

---

Impact Factor 1.6



[mdpi.com/journal/  
axioms](https://mdpi.com/journal/axioms)



## About the Journal

### Message from the Editor-in-Chief

*Axioms* is dedicated to the foundations (structure and axiomatic basis, in particular) of mathematical theories, not only from a crisp or strictly classical sense, but also from a fuzzy and generalized sense. This includes the more innovative current scientific trends, devoted to discover and solve new challenging problems. The prime goal of *Axioms* is to publish first-class, original research articles under an open access policy with minimal fees for the authors. We would be pleased to welcome you as one of our authors.

---

### Editor-in-Chief

Prof. Dr. Humberto Bustince

Department of Statistics, Computer Science and Mathematics, Public  
University of Navarra, 31006 Pamplona, Spain

---

### Author Benefits

#### Open Access

— free for readers, with article processing charges (APC) paid by authors or their institutions.

#### High visibility:

indexed within SCIE (Web of Science), dblp, and other databases.

#### Journal Rank:

JCR - Q2 (Mathematics, Applied)