



Non-associative Structures, Yang–Baxter Equations and Related Topics

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Message from the Guest Editor

Non-associative algebra is receiving more and more attention these days (as a revived research direction). There are two important classes of non-associative structures (Lie structures and Jordan structures), and the attempts to unify (non-)associative structures have led to new, interesting results.

The Yang–Baxter equation first appeared in theoretical physics in a paper by the Nobel laureate C.N. Yang (in 1968) and in statistical mechanics in R.J. Baxter's work (1971). It turned out that this equation plays a crucial role in quantum groups, knot theory, braided categories, analysis of integrable systems, quantum mechanics, non-commutative descent theory, quantum computing, non-commutative geometry, etc.

Contributions related to non-associative algebra and/or to Yang–Baxter equations, solutions to open problems proposed in our previous Special Issues, and related research are warmly invited for consideration for this Special Issue.

