An extension formula for right Bol loops arising from Bol reflections

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We study a new extension formula for right Bol loops. We prove the necessary and sufficient conditions for the extension to be right Bol. We describe the most important invariants: right multiplication group, nuclei, center. We show that the core is an involutory quandle which is the disjoint union of two isomorphic involutory quandles. We also derive further results on the structure group of the core of the extension.

References

[1] M. Galici and G. P. Nagy. "An extension formula for right Bol loops arising from Bol reflections". Preprint (2023).