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THE QUASIVARIETY $\mathbf{SP}(L_6)$. II. A DUALITY RESULT

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We prove that the category of complete bialgebraic $(0,1)$-lattices belonging to the quasivariety $\mathbf{SP}(L_6)$ generated by a finite lattice L_6 with complete $(0,1)$-lattice homomorphisms, is dually equivalent to the category of so-called L_6-spaces with L_6-morphisms. It was established in [1] that the quasivariety $\mathbf{SP}(L_6)$ forms a variety and a finite equational basis for this variety was found. Our proof is based on the approach proposed by V. Dziobiak in [2,3].

Literature

[1] A. O. Basheyeva, M. V. Schwidefsky, K. D. Sultankulov, *On the quasivariety* $\mathbf{SP}(L_6)$. I. *An equational basis*, Siberian Electronic Mathematical Reports, **19**, no. 2 (2022), 902–911.

[2] W. Dziobiak, M. V. Schwidefsky, *Categorical dualities for some two categories of lattices*: *An extended abstract*, Bull. Sec. Logic **51**, no. 3 (2022), 329–344.

[3] W. Dziobiak, M. V. Schwidefsky, *Duality for bi-algebraic lattices belonging to the variety of* $(0,1)$-*lattices generated by the pentagon*, to appear in Algebra and Logic.

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