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Correction to the paper: “Partitions in Cartesian systems”

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Summary

INDEPENDENCE OF BIRKHOFF'S POSTULATE SYSTEM FOR DISTRIBUTIVE LATTICES WITH AN UNIT ELEMENT

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G. D. Birkhoff and G. Birkhoff have introduced a system of seven postulates for the theory of distributive lattices; an algebra with two binary operations which satisfies those postulates is a distributive lattice with an unit element. In this article the independence of those postulates is proved (this was a problem formulated by G. Birkhoff).

CORRECTION TO THE PAPER „PARTITIONS IN CARTESIAN SYSTEMS"*)

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1. The definition of the subsystem corresponding to a generating partition (§ 2) must be corrected as follows: If $\mathscr{P} = (\mathscr{P}_{\alpha_0})_{\alpha_0}$ is a generating partition in a system $\mathbf{C}$ then we define a subsystem $\mathbf{C}' = ((S'_{\alpha_0})_{\alpha_0}, f')$ in $\mathbf{C}$ *corresponding* to $\mathscr{P}$ as a system such that, for every α, $S'_\alpha = \bigcup_{A_\alpha \in \mathscr{P}_\alpha} A_\alpha$, that $S'_0 = \bigcup_{A_0 \in \mathscr{P}_0} A_0 \cap f(\prod_\alpha S'_\alpha)$ and that f' is the portion of f with the domain $\prod_\alpha S'_\alpha$.

2. In the formulation of Theorem 4 (§ 4), replace „*in*" by „*on*".

*) Čas. pěst. mat. *91* (1966), 246–253.