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Predicate Calculus for Boolean Valued Functions. Part XI

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Summary. In this paper, we proved some elementary predicate calculus formulae containing the quantifiers of Boolean valued functions with respect to partitions. Such a theory is an analogy of usual predicate logic.

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The articles [5], [4], [7], [6], [3], [1], and [2] provide the notation and terminology for this paper.

For simplicity, we use the following convention: Y denotes a non empty set, a denotes an element of $Boolean^Y$, G denotes a subset of PARTITIONS(Y), and A, B denote partitions of Y.

Next we state the proposition

(6)[1] If G is independent, then $\forall_{\neg\exists_{a,A}G,B}G \Subset \forall_{\forall_{\neg a,B}G,A}G$.

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[1] The propositions (1)–(5) have been removed.

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